



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AERO-PRO-LED35-HO-SAL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] AERO-PRO-LED35-HO-SAL  
 [TESTLAB] Intertek  
 [ISSUE DATE] 11/20/19  
 [MANUFAC] Prudential Lighting  
 [\_TOTAL LUMINAIRE LUMENS] 5029.4

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6431
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	50
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.56
Spacing Criterion (Diagonal)	1.52
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.19 ft
Luminous Height	0.19 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14950	12300	13381
55	13238	11420	12710
65	11369	10627	11852
75	9385	9958	10912
85	6609	9422	10031

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AERO-PRO-LED35-HO-SAL.IES**

**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
<b>0.0</b>	1332.352	1332.352	1332.352	1332.352	1332.352	1332.352	1332.352	1332.352	1332.352	1332.352
<b>2.5</b>	1338.880	1334.016	1327.104	1331.968	1330.432	1330.688	1325.312	1332.736	1337.344	1332.736
<b>5.0</b>	1333.248	1329.024	1324.160	1331.328	1330.048	1329.280	1321.600	1326.976	1330.560	1326.976
<b>7.5</b>	1322.880	1321.216	1319.424	1330.176	1330.816	1328.256	1316.736	1317.632	1320.064	1317.632
<b>10.0</b>	1307.648	1307.904	1313.024	1329.280	1332.864	1327.616	1310.720	1305.088	1305.344	1305.088
<b>12.5</b>	1292.800	1293.184	1304.448	1329.024	1336.064	1327.360	1302.400	1289.216	1286.656	1289.216
<b>15.0</b>	1265.920	1274.496	1295.488	1329.408	1339.776	1326.848	1292.544	1269.888	1262.080	1269.888
<b>17.5</b>	1240.704	1251.456	1286.016	1328.768	1343.360	1325.440	1279.616	1246.592	1235.072	1246.592
<b>20.0</b>	1208.448	1229.056	1274.112	1327.360	1346.816	1323.008	1264.768	1220.608	1205.120	1220.608
<b>22.5</b>	1175.552	1201.280	1257.088	1324.672	1348.992	1319.808	1248.256	1193.216	1168.768	1193.216
<b>25.0</b>	1141.376	1169.024	1239.808	1320.704	1350.016	1315.200	1230.336	1160.192	1132.928	1160.192
<b>27.5</b>	1102.976	1136.896	1220.992	1315.200	1350.272	1309.056	1211.264	1126.656	1091.072	1126.656
<b>30.0</b>	1063.424	1100.032	1201.408	1308.544	1350.528	1303.296	1190.528	1091.200	1048.576	1091.200
<b>32.5</b>	1017.984	1062.400	1179.392	1302.144	1350.016	1297.408	1168.512	1053.440	1002.624	1053.440
<b>35.0</b>	969.600	1022.720	1155.328	1294.592	1349.248	1291.136	1145.856	1013.760	955.776	1013.760
<b>37.5</b>	922.496	982.144	1131.904	1286.400	1346.944	1282.688	1121.792	972.544	906.880	972.544
<b>40.0</b>	874.240	940.416	1107.840	1277.312	1341.440	1272.192	1097.216	930.048	856.704	930.048
<b>42.5</b>	823.936	896.896	1082.496	1265.408	1332.480	1259.392	1071.104	885.376	805.632	885.376
<b>45.0</b>	771.840	852.992	1055.616	1249.920	1319.808	1243.648	1044.992	841.088	754.944	841.088
<b>47.5</b>	721.152	808.448	1028.480	1231.232	1303.296	1225.088	1017.856	796.800	703.488	796.800
<b>50.0</b>	670.848	763.648	1000.064	1208.960	1283.328	1203.584	990.208	752.384	651.136	752.384
<b>52.5</b>	617.856	719.104	970.240	1184.384	1260.288	1179.904	961.536	708.352	599.168	708.352
<b>55.0</b>	564.992	675.712	939.776	1157.632	1234.560	1153.664	931.456	666.112	547.712	666.112
<b>57.5</b>	515.200	633.984	907.904	1128.576	1204.992	1124.736	897.664	625.792	497.280	625.792
<b>60.0</b>	466.560	594.048	875.520	1096.704	1171.968	1092.736	862.848	586.368	448.000	586.368
<b>62.5</b>	416.896	555.776	843.008	1062.016	1136.640	1057.024	828.928	548.608	400.000	548.608
<b>65.0</b>	368.768	519.424	810.496	1025.408	1098.496	1018.752	795.392	512.768	353.280	512.768
<b>67.5</b>	324.480	485.504	777.600	987.776	1058.304	978.176	761.216	475.648	308.096	475.648
<b>70.0</b>	281.344	452.992	744.064	949.248	1016.448	937.728	726.400	439.296	265.088	439.296
<b>72.5</b>	238.720	421.760	710.272	909.056	974.720	896.384	692.224	406.272	224.640	406.272
<b>75.0</b>	199.040	392.320	676.352	868.992	932.096	856.320	660.736	376.448	186.240	376.448
<b>77.5</b>	162.432	364.288	642.048	827.776	887.424	815.744	628.096	350.080	149.632	350.080
<b>80.0</b>	127.360	337.280	607.744	786.816	843.136	775.040	594.944	324.864	114.944	324.864
<b>82.5</b>	93.440	310.912	574.464	746.496	799.872	734.848	562.304	299.904	82.304	299.904
<b>85.0</b>	61.696	285.824	541.824	707.456	757.888	695.296	530.560	276.096	51.712	276.096
<b>87.5</b>	32.128	261.888	509.568	668.800	716.416	656.640	499.584	253.312	22.784	253.312
<b>90.0</b>	0.000	238.592	477.952	630.656	675.328	620.032	469.120	231.296	0.000	231.296
<b>92.5</b>	0.000	216.960	447.872	593.920	635.520	584.192	439.808	210.688	0.000	210.688
<b>95.0</b>	0.000	196.480	418.560	558.208	596.736	549.376	411.520	191.104	0.000	191.104
<b>97.5</b>	0.000	177.280	390.144	524.032	559.872	515.712	383.744	172.416	0.000	172.416
<b>100.0</b>	0.000	159.104	362.624	490.880	524.416	483.840	356.864	154.496	0.000	154.496
<b>102.5</b>	0.000	140.544	336.000	458.880	490.368	452.480	331.136	136.320	0.000	136.320
<b>105.0</b>	0.000	120.064	310.400	428.288	457.472	422.528	306.304	116.608	0.000	116.608
<b>107.5</b>	0.000	102.144	285.824	398.464	426.112	393.984	282.112	99.072	0.000	99.072
<b>110.0</b>	0.000	87.424	261.760	370.048	395.264	366.080	258.304	81.920	0.000	81.920
<b>112.5</b>	0.000	75.264	237.056	342.656	365.952	339.072	232.064	66.688	0.000	66.688
<b>115.0</b>	0.000	64.896	211.968	316.288	338.176	312.704	199.424	54.272	0.000	54.272
<b>117.5</b>	0.000	56.192	187.264	289.408	311.168	286.336	166.656	44.544	0.000	44.544
<b>120.0</b>	0.000	49.024	164.992	262.016	284.288	258.944	138.880	37.376	0.000	37.376
<b>122.5</b>	0.000	43.264	145.152	234.368	257.920	231.168	116.224	31.872	0.000	31.872
<b>125.0</b>	0.000	38.272	127.744	207.744	232.448	202.112	98.048	28.160	0.000	28.160
<b>127.5</b>	0.000	34.432	112.384	183.936	206.720	171.008	83.072	25.600	0.000	25.600
<b>130.0</b>	0.000	31.232	98.560	162.432	183.040	142.592	69.632	24.192	0.000	24.192
<b>132.5</b>	0.000	28.160	86.144	143.104	161.536	118.528	58.496	22.784	0.000	22.784

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AERO-PRO-LED35-HO-SAL.IES**

**CANDELA TABULATION - (Cont.)**

135.0	0.000	25.728	75.136	125.568	142.080	98.432	49.152	21.504	0.000	21.504
137.5	0.000	23.552	66.048	109.312	124.544	79.872	43.264	20.352	0.000	20.352
140.0	0.000	21.504	57.600	94.976	107.648	65.664	39.424	19.328	0.000	19.328
142.5	0.000	19.584	50.048	81.664	93.184	54.400	35.840	18.304	0.000	18.304
145.0	0.000	18.176	44.544	70.656	79.616	45.568	33.024	17.280	0.000	17.280
147.5	0.000	17.024	39.168	60.288	68.352	36.864	29.952	16.384	0.000	16.384
150.0	0.000	16.000	33.664	51.072	57.088	30.336	26.752	15.616	0.000	15.616
152.5	0.000	15.488	29.312	43.904	47.872	26.624	24.192	15.232	0.000	15.232
155.0	0.000	14.848	25.728	36.480	40.576	22.400	22.016	14.720	0.000	14.720
157.5	0.000	14.464	22.528	30.464	32.768	18.944	19.840	14.592	0.000	14.592
160.0	0.000	14.208	19.456	25.984	26.752	16.512	17.536	14.336	0.000	14.336
162.5	0.000	14.080	17.152	21.888	20.864	15.232	15.872	14.208	0.000	14.208
165.0	0.000	13.824	15.744	18.176	0.000	13.568	14.848	13.952	0.000	13.952
167.5	0.000	13.952	15.232	15.744	0.000	12.544	14.464	14.080	0.000	14.080
170.0	0.000	14.720	14.848	14.464	0.000	0.000	14.208	14.208	0.000	14.208
172.5	0.000	14.848	14.592	13.568	0.000	0.000	13.824	14.080	0.000	14.080
175.0	0.000	14.720	14.208	12.672	0.000	0.000	13.312	13.824	0.000	13.824
177.5	0.000	14.336	13.440	0.000	0.000	0.000	12.672	13.440	0.000	13.440
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0.0	1332.352	1332.352	1332.352	1332.352	1332.352	1332.352	1332.352
2.5	1325.312	1330.688	1330.432	1331.968	1327.104	1334.016	1338.880
5.0	1321.600	1329.280	1330.048	1331.328	1324.160	1329.024	1333.248
7.5	1316.736	1328.256	1330.816	1330.176	1319.424	1321.216	1322.880
10.0	1310.720	1327.616	1332.864	1329.280	1313.024	1307.904	1307.648
12.5	1302.400	1327.360	1336.064	1329.024	1304.448	1293.184	1292.800
15.0	1292.544	1326.848	1339.776	1329.408	1295.488	1274.496	1265.920
17.5	1279.616	1325.440	1343.360	1328.768	1286.016	1251.456	1240.704
20.0	1264.768	1323.008	1346.816	1327.360	1274.112	1229.056	1208.448
22.5	1248.256	1319.808	1348.992	1324.672	1257.088	1201.280	1175.552
25.0	1230.336	1315.200	1350.016	1320.704	1239.808	1169.024	1141.376
27.5	1211.264	1309.056	1350.272	1315.200	1220.992	1136.896	1102.976
30.0	1190.528	1303.296	1350.528	1308.544	1201.408	1100.032	1063.424
32.5	1168.512	1297.408	1350.016	1302.144	1179.392	1062.400	1017.984
35.0	1145.856	1291.136	1349.248	1294.592	1155.328	1022.720	969.600
37.5	1121.792	1282.688	1346.944	1286.400	1131.904	982.144	922.496
40.0	1097.216	1272.192	1341.440	1277.312	1107.840	940.416	874.240
42.5	1071.104	1259.392	1332.480	1265.408	1082.496	896.896	823.936
45.0	1044.992	1243.648	1319.808	1249.920	1055.616	852.992	771.840
47.5	1017.856	1225.088	1303.296	1231.232	1028.480	808.448	721.152
50.0	990.208	1203.584	1283.328	1208.960	1000.064	763.648	670.848
52.5	961.536	1179.904	1260.288	1184.384	970.240	719.104	617.856
55.0	931.456	1153.664	1234.560	1157.632	939.776	675.712	564.992
57.5	897.664	1124.736	1204.992	1128.576	907.904	633.984	515.200
60.0	862.848	1092.736	1171.968	1096.704	875.520	594.048	466.560
62.5	828.928	1057.024	1136.640	1062.016	843.008	555.776	416.896
65.0	795.392	1018.752	1098.496	1025.408	810.496	519.424	368.768
67.5	761.216	978.176	1058.304	987.776	777.600	485.504	324.480
70.0	726.400	937.728	1016.448	949.248	744.064	452.992	281.344
72.5	692.224	896.384	974.720	909.056	710.272	421.760	238.720
75.0	660.736	856.320	932.096	868.992	676.352	392.320	199.040
77.5	628.096	815.744	887.424	827.776	642.048	364.288	162.432
80.0	594.944	775.040	843.136	786.816	607.744	337.280	127.360

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AERO-PRO-LED35-HO-SAL.IES**

**CANDELA TABULATION - (Cont.)**

82.5	562.304	734.848	799.872	746.496	574.464	310.912	93.440
85.0	530.560	695.296	757.888	707.456	541.824	285.824	61.696
87.5	499.584	656.640	716.416	668.800	509.568	261.888	32.128
90.0	469.120	620.032	675.328	630.656	477.952	238.592	0.000
92.5	439.808	584.192	635.520	593.920	447.872	216.960	0.000
95.0	411.520	549.376	596.736	558.208	418.560	196.480	0.000
97.5	383.744	515.712	559.872	524.032	390.144	177.280	0.000
100.0	356.864	483.840	524.416	490.880	362.624	159.104	0.000
102.5	331.136	452.480	490.368	458.880	336.000	140.544	0.000
105.0	306.304	422.528	457.472	428.288	310.400	120.064	0.000
107.5	282.112	393.984	426.112	398.464	285.824	102.144	0.000
110.0	258.304	366.080	395.264	370.048	261.760	87.424	0.000
112.5	232.064	339.072	365.952	342.656	237.056	75.264	0.000
115.0	199.424	312.704	338.176	316.288	211.968	64.896	0.000
117.5	166.656	286.336	311.168	289.408	187.264	56.192	0.000
120.0	138.880	258.944	284.288	262.016	164.992	49.024	0.000
122.5	116.224	231.168	257.920	234.368	145.152	43.264	0.000
125.0	98.048	202.112	232.448	207.744	127.744	38.272	0.000
127.5	83.072	171.008	206.720	183.936	112.384	34.432	0.000
130.0	69.632	142.592	183.040	162.432	98.560	31.232	0.000
132.5	58.496	118.528	161.536	143.104	86.144	28.160	0.000
135.0	49.152	98.432	142.080	125.568	75.136	25.728	0.000
137.5	43.264	79.872	124.544	109.312	66.048	23.552	0.000
140.0	39.424	65.664	107.648	94.976	57.600	21.504	0.000
142.5	35.840	54.400	93.184	81.664	50.048	19.584	0.000
145.0	33.024	45.568	79.616	70.656	44.544	18.176	0.000
147.5	29.952	36.864	68.352	60.288	39.168	17.024	0.000
150.0	26.752	30.336	57.088	51.072	33.664	16.000	0.000
152.5	24.192	26.624	47.872	43.904	29.312	15.488	0.000
155.0	22.016	22.400	40.576	36.480	25.728	14.848	0.000
157.5	19.840	18.944	32.768	30.464	22.528	14.464	0.000
160.0	17.536	16.512	26.752	25.984	19.456	14.208	0.000
162.5	15.872	15.232	20.864	21.888	17.152	14.080	0.000
165.0	14.848	13.568	0.000	18.176	15.744	13.824	0.000
167.5	14.464	12.544	0.000	15.744	15.232	13.952	0.000
170.0	14.208	0.000	0.000	14.464	14.848	14.720	0.000
172.5	13.824	0.000	0.000	13.568	14.592	14.848	0.000
175.0	13.312	0.000	0.000	12.672	14.208	14.720	0.000
177.5	12.672	0.000	0.000	0.000	13.440	14.336	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	493.64	N.A.	7.70
0-30	1066.19	N.A.	16.60
0-40	1789.7	N.A.	27.80
0-60	3416.48	N.A.	53.10
0-80	4832.59	N.A.	75.10
0-90	5358.48	N.A.	83.30
10-90	5232.07	N.A.	81.40
20-40	1296.05	N.A.	20.20
20-50	2104.32	N.A.	32.70
40-70	2387.71	N.A.	37.10
60-80	1416.11	N.A.	22.00
70-80	655.18	N.A.	10.20
80-90	525.89	N.A.	8.20
90-110	686.48	N.A.	10.70
90-120	873.28	N.A.	13.60
90-130	979.36	N.A.	15.20
90-150	1057.35	N.A.	16.40
90-180	1072.31	N.A.	16.70
110-180	385.83	N.A.	6.00
0-180	6430.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	126.41
10-20	367.23
20-30	572.55
30-40	723.51
40-50	808.27
50-60	818.51
60-70	760.92
70-80	655.18
80-90	525.89
90-100	399.45
100-110	287.03
110-120	186.80
120-130	106.08
130-140	53.21
140-150	24.77
150-160	10.52
160-170	3.65
170-180	0.79

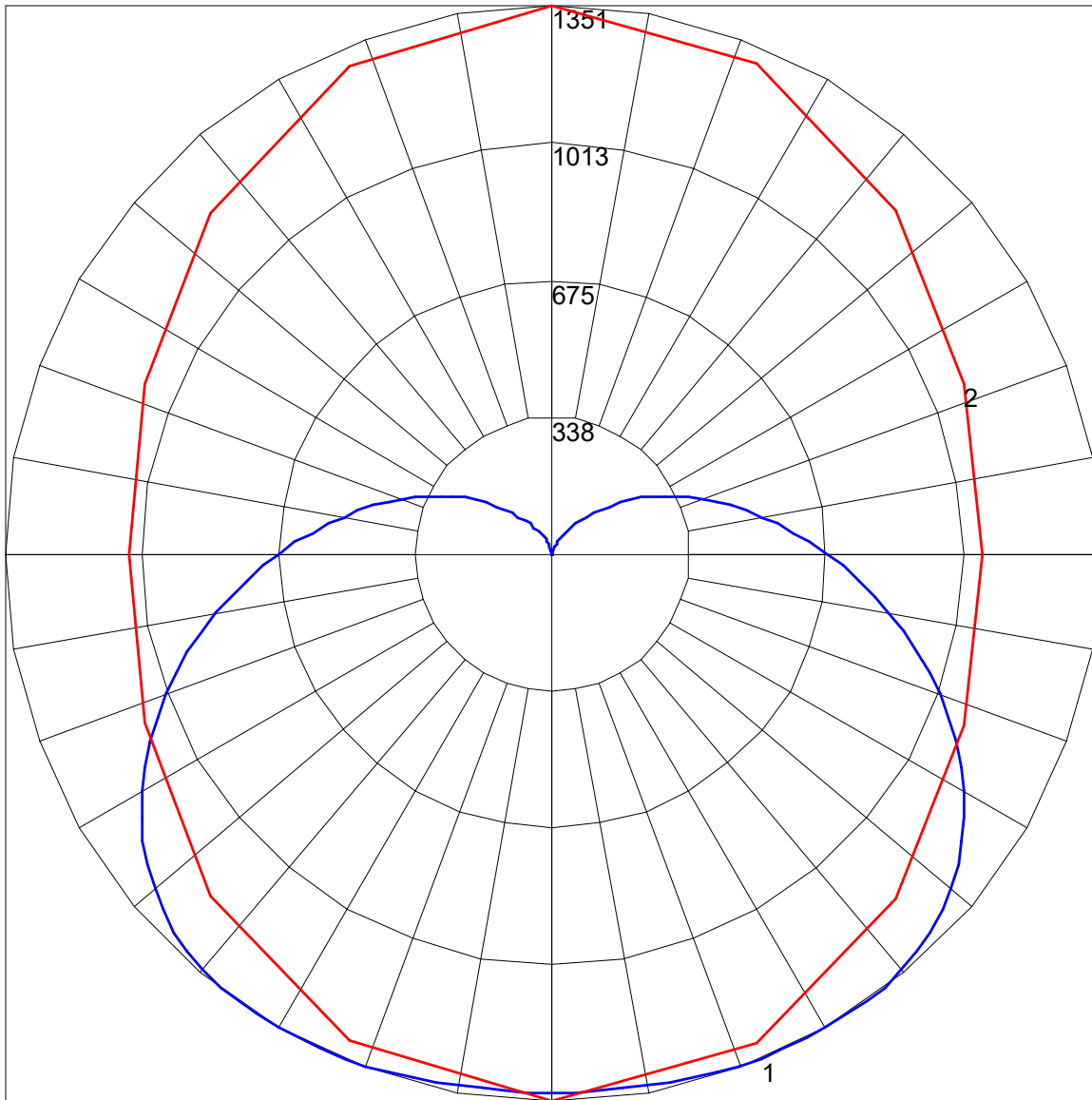
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	101	95	90	85	97	91	86	82	84	80	76	77	74	71	71	68	66	62
2	91	81	73	66	87	78	71	64	71	65	60	66	61	56	60	56	53	49
3	82	70	61	54	78	67	59	52	62	55	49	57	51	46	52	47	43	40
4	75	62	52	45	71	59	50	43	54	47	41	50	44	39	46	41	36	33
5	68	55	45	38	65	52	43	37	48	41	35	45	38	33	41	36	31	28
6	63	49	39	33	60	47	38	32	43	36	30	40	34	29	37	31	27	24
7	58	44	35	28	55	42	34	28	39	32	26	36	30	25	34	28	24	21
8	54	40	31	25	51	39	30	24	36	29	23	33	27	22	31	25	21	19
9	50	37	28	22	48	35	27	22	33	26	21	31	24	20	28	23	19	17
10	47	34	25	20	45	32	25	20	30	23	19	28	22	18	26	21	17	15

POLAR GRAPH



Maximum Candela = 1350.528 Located At Horizontal Angle = 90, Vertical Angle = 30  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)