

PHILIPS**PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX20LL40-UNV-LFP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33648.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/13/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-LFP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K BOARDS 2-95W DRIVERS 18K RESISTORS DP-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 20528 LMS

[TESTDATE] 10/13/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	20528
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	167.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	4.29 ft
Luminous Width (90-270)	1.17 ft
Luminous Height	0.50 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12134	9770	9292
55	10485	7904	7602
65	8541	6199	6636
75	6457	4901	5315
85	3470	3162	3568

IES INDOOR REPORT
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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>
0.0	6980.77	6980.77	6980.77	6980.77	6980.77	6980.77	6980.77	6980.77	6980.77	6980.77
2.5	6946.99	6963.84	6980.83	6987.99	6977.62	6987.99	6980.83	6963.84	6946.99	6963.84
5.0	6926.47	6940.67	6965.51	6976.72	6963.07	6976.72	6965.51	6940.67	6926.47	6940.67
7.5	6894.59	6905.64	6934.23	6948.66	6937.03	6948.66	6934.23	6905.64	6894.59	6905.64
10.0	6846.83	6862.03	6888.62	6911.72	6894.03	6911.72	6888.62	6862.03	6846.83	6862.03
12.5	6783.59	6807.15	6831.97	6844.76	6831.70	6844.76	6831.97	6807.15	6783.59	6807.15
15.0	6706.05	6735.27	6757.71	6763.65	6750.49	6763.65	6757.71	6735.27	6706.05	6735.27
17.5	6611.61	6646.69	6662.91	6662.28	6649.06	6662.28	6662.91	6646.69	6611.61	6646.69
20.0	6506.66	6539.22	6550.50	6545.74	6527.68	6545.74	6550.50	6539.22	6506.66	6539.22
22.5	6383.99	6414.65	6416.06	6411.32	6389.33	6411.32	6416.06	6414.65	6383.99	6414.65
25.0	6240.54	6272.46	6268.73	6253.76	6231.59	6253.76	6268.73	6272.46	6240.54	6272.46
27.5	6081.02	6112.86	6104.30	6078.53	6049.18	6078.53	6104.30	6112.86	6081.02	6112.86
30.0	5908.25	5937.03	5922.55	5888.87	5849.76	5888.87	5922.55	5937.03	5908.25	5937.03
32.5	5709.08	5739.28	5719.48	5671.86	5640.78	5671.86	5719.48	5739.28	5709.08	5739.28
35.0	5489.24	5519.41	5491.32	5439.95	5418.29	5439.95	5491.32	5519.41	5489.24	5519.41
37.5	5260.77	5284.98	5246.48	5208.48	5181.09	5208.48	5246.48	5284.98	5260.77	5284.98
40.0	5017.26	5034.03	4998.58	4962.93	4928.02	4962.93	4998.58	5034.03	5017.26	5034.03
42.5	4753.80	4768.97	4739.91	4693.87	4659.40	4693.87	4739.91	4768.97	4753.80	4768.97
45.0	4471.46	4490.57	4464.54	4405.08	4377.36	4405.08	4464.54	4490.57	4471.46	4490.57
47.5	4177.55	4198.16	4174.52	4112.10	4092.51	4112.10	4174.52	4198.16	4177.55	4198.16
50.0	3879.72	3898.78	3876.01	3824.66	3809.09	3824.66	3876.01	3898.78	3879.72	3898.78
52.5	3578.82	3598.43	3577.62	3538.10	3532.27	3538.10	3577.62	3598.43	3578.82	3598.43
55.0	3274.08	3296.41	3278.40	3261.90	3277.41	3261.90	3278.40	3296.41	3274.08	3296.41
57.5	2968.52	2999.93	2986.99	3018.93	3052.95	3018.93	2986.99	2999.93	2968.52	2999.93
60.0	2668.49	2709.68	2712.46	2812.77	2862.55	2812.77	2712.46	2709.68	2668.49	2709.68
62.5	2380.72	2424.64	2461.33	2629.43	2688.01	2629.43	2461.33	2424.64	2380.72	2424.64
65.0	2105.79	2152.15	2231.24	2452.21	2508.71	2452.21	2231.24	2152.15	2105.79	2152.15
67.5	1842.40	1894.54	2020.94	2262.06	2314.32	2262.06	2020.94	1894.54	1842.40	1894.54
70.0	1589.98	1652.75	1824.83	2064.05	2104.17	2064.05	1824.83	1652.75	1589.98	1652.75
72.5	1349.19	1423.71	1634.97	1855.16	1885.09	1855.16	1634.97	1423.71	1349.19	1423.71
75.0	1119.30	1205.35	1441.83	1638.82	1666.12	1638.82	1441.83	1205.35	1119.30	1205.35
77.5	896.67	996.97	1244.42	1421.20	1449.68	1421.20	1244.42	996.97	896.67	996.97
80.0	685.32	798.78	1049.68	1213.70	1239.06	1213.70	1049.68	798.78	685.32	798.78
82.5	493.05	617.04	864.21	1017.02	1040.44	1017.02	864.21	617.04	493.05	617.04
85.0	329.16	460.86	694.02	830.21	854.24	830.21	694.02	460.86	329.16	460.86
87.5	207.91	346.25	559.38	676.43	698.64	676.43	559.38	346.25	207.91	346.25
90.0	153.07	264.91	444.44	539.95	561.01	539.95	444.44	264.91	153.07	264.91
92.5	138.65	216.29	356.18	430.02	447.17	430.02	356.18	216.29	138.65	216.29
95.0	131.56	190.50	294.26	349.21	361.93	349.21	294.26	190.50	131.56	190.50
97.5	126.97	172.40	252.78	293.73	303.21	293.73	252.78	172.40	126.97	172.40
100.0	122.95	156.82	224.97	257.62	264.74	257.62	224.97	156.82	122.95	156.82
102.5	117.20	143.71	205.39	233.73	239.71	233.73	205.39	143.71	117.20	143.71
105.0	110.17	132.82	190.86	219.20	224.65	219.20	190.86	132.82	110.17	132.82
107.5	102.96	122.84	178.79	207.90	214.15	207.90	178.79	122.84	102.96	122.84
110.0	94.30	113.30	168.28	197.90	205.27	197.90	168.28	113.30	94.30	113.30
112.5	84.86	102.92	157.87	188.51	196.51	188.51	157.87	102.92	84.86	102.92
115.0	75.39	92.19	147.77	178.64	187.36	178.64	147.77	92.19	75.39	92.19
117.5	66.75	81.30	137.46	169.20	178.01	169.20	137.46	81.30	66.75	81.30
120.0	58.67	70.53	126.97	159.60	168.82	159.60	126.97	70.53	58.67	70.53
122.5	51.00	60.45	116.76	149.38	157.74	149.38	116.76	60.45	51.00	60.45
125.0	43.84	50.82	105.49	138.36	147.68	138.36	105.49	50.82	43.84	50.82
127.5	38.20	41.05	93.84	128.09	137.82	128.09	93.84	41.05	38.20	41.05
130.0	32.65	33.15	82.21	117.32	126.80	117.32	82.21	33.15	32.65	33.15
132.5	28.11	26.63	71.02	105.91	115.20	105.91	71.02	26.63	28.11	26.63

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CANDELA TABULATION - (Cont.)

135.0	24.03	21.07	59.52	94.33	103.50	94.33	59.52	21.07	24.03	21.07
137.5	20.44	16.80	48.02	82.61	91.49	82.61	48.02	16.80	20.44	16.80
140.0	17.03	13.94	37.45	70.83	78.76	70.83	37.45	13.94	17.03	13.94
142.5	13.96	11.50	28.14	58.95	66.86	58.95	28.14	11.50	13.96	11.50
145.0	11.37	9.31	20.11	47.68	55.04	47.68	20.11	9.31	11.37	9.31
147.5	9.02	7.47	13.51	37.22	43.79	37.22	13.51	7.47	9.02	7.47
150.0	6.80	5.97	8.77	27.37	33.14	27.37	8.77	5.97	6.80	5.97
152.5	5.74	5.47	6.13	18.76	23.57	18.76	6.13	5.47	5.74	5.47
155.0	4.87	4.91	5.55	12.08	15.88	12.08	5.55	4.91	4.87	4.91
157.5	4.83	4.75	5.31	7.90	10.75	7.90	5.31	4.75	4.83	4.75
160.0	4.64	5.00	5.03	5.75	7.04	5.75	5.03	5.00	4.64	5.00
162.5	4.56	4.76	5.21	5.47	5.49	5.47	5.21	4.76	4.56	4.76
165.0	4.72	4.45	4.87	5.07	5.38	5.07	4.87	4.45	4.72	4.45
167.5	4.47	4.80	4.79	5.01	4.99	5.01	4.79	4.80	4.47	4.80
170.0	4.62	4.48	4.45	4.58	4.59	4.58	4.45	4.48	4.62	4.48
172.5	4.79	4.86	4.63	4.61	4.45	4.61	4.63	4.86	4.79	4.86
175.0	4.84	4.76	4.86	4.79	4.82	4.79	4.86	4.76	4.84	4.76
177.5	4.92	5.07	4.73	4.68	5.05	4.68	4.73	5.07	4.92	5.07
180.0	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74	4.74

**Vert.
Angles**

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	6980.77	6980.77	6980.77	6980.77	6980.77	6980.77	6980.77
2.5	6980.83	6987.99	6977.62	6987.99	6980.83	6963.84	6946.99
5.0	6965.51	6976.72	6963.07	6976.72	6965.51	6940.67	6926.47
7.5	6934.23	6948.66	6937.03	6948.66	6934.23	6905.64	6894.59
10.0	6888.62	6911.72	6894.03	6911.72	6888.62	6862.03	6846.83
12.5	6831.97	6844.76	6831.70	6844.76	6831.97	6807.15	6783.59
15.0	6757.71	6763.65	6750.49	6763.65	6757.71	6735.27	6706.05
17.5	6662.91	6662.28	6649.06	6662.28	6662.91	6646.69	6611.61
20.0	6550.50	6545.74	6527.68	6545.74	6550.50	6539.22	6506.66
22.5	6416.06	6411.32	6389.33	6411.32	6416.06	6414.65	6383.99
25.0	6268.73	6253.76	6231.59	6253.76	6268.73	6272.46	6240.54
27.5	6104.30	6078.53	6049.18	6078.53	6104.30	6112.86	6081.02
30.0	5922.55	5888.87	5849.76	5888.87	5922.55	5937.03	5908.25
32.5	5719.48	5671.86	5640.78	5671.86	5719.48	5739.28	5709.08
35.0	5491.32	5439.95	5418.29	5439.95	5491.32	5519.41	5489.24
37.5	5246.48	5208.48	5181.09	5208.48	5246.48	5284.98	5260.77
40.0	4998.58	4962.93	4928.02	4962.93	4998.58	5034.03	5017.26
42.5	4739.91	4693.87	4659.40	4693.87	4739.91	4768.97	4753.80
45.0	4464.54	4405.08	4377.36	4405.08	4464.54	4490.57	4471.46
47.5	4174.52	4112.10	4092.51	4112.10	4174.52	4198.16	4177.55
50.0	3876.01	3824.66	3809.09	3824.66	3876.01	3898.78	3879.72
52.5	3577.62	3538.10	3532.27	3538.10	3577.62	3598.43	3578.82
55.0	3278.40	3261.90	3277.41	3261.90	3278.40	3296.41	3274.08
57.5	2986.99	3018.93	3052.95	3018.93	2986.99	2999.93	2968.52
60.0	2712.46	2812.77	2862.55	2812.77	2712.46	2709.68	2668.49
62.5	2461.33	2629.43	2688.01	2629.43	2461.33	2424.64	2380.72
65.0	2231.24	2452.21	2508.71	2452.21	2231.24	2152.15	2105.79
67.5	2020.94	2262.06	2314.32	2262.06	2020.94	1894.54	1842.40
70.0	1824.83	2064.05	2104.17	2064.05	1824.83	1652.75	1589.98
72.5	1634.97	1855.16	1885.09	1855.16	1634.97	1423.71	1349.19
75.0	1441.83	1638.82	1666.12	1638.82	1441.83	1205.35	1119.30
77.5	1244.42	1421.20	1449.68	1421.20	1244.42	996.97	896.67
80.0	1049.68	1213.70	1239.06	1213.70	1049.68	798.78	685.32

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CANDELA TABULATION - (Cont.)

82.5	864.21	1017.02	1040.44	1017.02	864.21	617.04	493.05
85.0	694.02	830.21	854.24	830.21	694.02	460.86	329.16
87.5	559.38	676.43	698.64	676.43	559.38	346.25	207.91
90.0	444.44	539.95	561.01	539.95	444.44	264.91	153.07
92.5	356.18	430.02	447.17	430.02	356.18	216.29	138.65
95.0	294.26	349.21	361.93	349.21	294.26	190.50	131.56
97.5	252.78	293.73	303.21	293.73	252.78	172.40	126.97
100.0	224.97	257.62	264.74	257.62	224.97	156.82	122.95
102.5	205.39	233.73	239.71	233.73	205.39	143.71	117.20
105.0	190.86	219.20	224.65	219.20	190.86	132.82	110.17
107.5	178.79	207.90	214.15	207.90	178.79	122.84	102.96
110.0	168.28	197.90	205.27	197.90	168.28	113.30	94.30
112.5	157.87	188.51	196.51	188.51	157.87	102.92	84.86
115.0	147.77	178.64	187.36	178.64	147.77	92.19	75.39
117.5	137.46	169.20	178.01	169.20	137.46	81.30	66.75
120.0	126.97	159.60	168.82	159.60	126.97	70.53	58.67
122.5	116.76	149.38	157.74	149.38	116.76	60.45	51.00
125.0	105.49	138.36	147.68	138.36	105.49	50.82	43.84
127.5	93.84	128.09	137.82	128.09	93.84	41.05	38.20
130.0	82.21	117.32	126.80	117.32	82.21	33.15	32.65
132.5	71.02	105.91	115.20	105.91	71.02	26.63	28.11
135.0	59.52	94.33	103.50	94.33	59.52	21.07	24.03
137.5	48.02	82.61	91.49	82.61	48.02	16.80	20.44
140.0	37.45	70.83	78.76	70.83	37.45	13.94	17.03
142.5	28.14	58.95	66.86	58.95	28.14	11.50	13.96
145.0	20.11	47.68	55.04	47.68	20.11	9.31	11.37
147.5	13.51	37.22	43.79	37.22	13.51	7.47	9.02
150.0	8.77	27.37	33.14	27.37	8.77	5.97	6.80
152.5	6.13	18.76	23.57	18.76	6.13	5.47	5.74
155.0	5.55	12.08	15.88	12.08	5.55	4.91	4.87
157.5	5.31	7.90	10.75	7.90	5.31	4.75	4.83
160.0	5.03	5.75	7.04	5.75	5.03	5.00	4.64
162.5	5.21	5.47	5.49	5.47	5.21	4.76	4.56
165.0	4.87	5.07	5.38	5.07	4.87	4.45	4.72
167.5	4.79	5.01	4.99	5.01	4.79	4.80	4.47
170.0	4.45	4.58	4.59	4.58	4.45	4.48	4.62
172.5	4.63	4.61	4.45	4.61	4.63	4.86	4.79
175.0	4.86	4.79	4.82	4.79	4.86	4.76	4.84
177.5	4.73	4.68	5.05	4.68	4.73	5.07	4.92
180.0	4.74	4.74	4.74	4.74	4.74	4.74	4.74

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2565.2	N.A.	12.50
0-30	5446.96	N.A.	26.50
0-40	8869.96	N.A.	43.20
0-60	15236.52	N.A.	74.20
0-80	19005.21	N.A.	92.60
0-90	19733.53	N.A.	96.10
10-90	19071.83	N.A.	92.90
20-40	6304.76	N.A.	30.70
20-50	9730.32	N.A.	47.40
40-70	8634.16	N.A.	42.10
60-80	3768.68	N.A.	18.40
70-80	1501.09	N.A.	7.30
80-90	728.33	N.A.	3.50
90-110	499.15	N.A.	2.40
90-120	635.91	N.A.	3.10
90-130	723.95	N.A.	3.50
90-150	788.72	N.A.	3.80
90-180	794.93	N.A.	3.90
110-180	295.78	N.A.	1.40
0-180	20528.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	661.71
10-20	1903.49
20-30	2881.76
30-40	3423.00
40-50	3425.56
50-60	2941.01
60-70	2267.59
70-80	1501.09
80-90	728.33
90-100	309.14
100-110	190.01
110-120	136.76
120-130	88.04
130-140	46.77
140-150	18.00
150-160	4.34
160-170	1.41
170-180	0.45

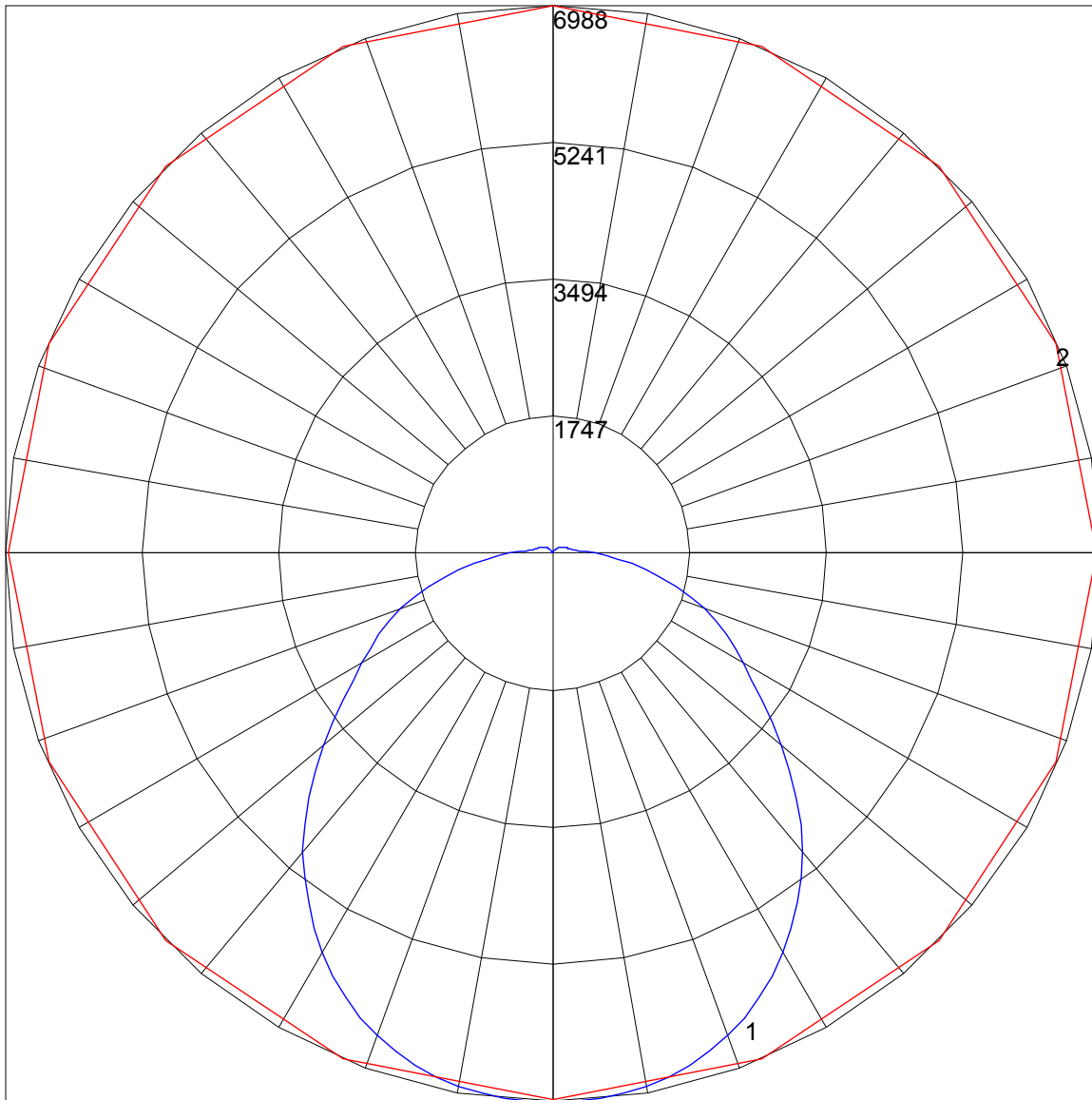
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	98	98	98	96
1	107	102	98	94	104	99	95	92	94	91	88	90	87	85	86	83	81	79
2	97	89	82	76	94	87	80	75	82	77	72	79	74	70	75	71	68	66
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	81	69	60	54	79	68	59	53	65	58	52	62	56	51	59	54	50	47
5	75	62	53	46	72	61	52	46	58	51	45	56	49	44	53	48	43	41
6	69	56	47	40	67	55	46	40	52	45	39	50	44	39	48	43	38	36
7	64	51	42	36	62	50	41	35	48	40	35	46	39	34	44	38	34	32
8	60	46	38	32	58	45	37	32	44	36	31	42	36	31	41	35	30	28
9	56	42	34	29	54	42	34	29	40	33	28	39	32	28	38	32	27	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 6987.99 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)