

PHILIPS

PHILIPS

Day-Brite

CFI

IES INDOOR REPORT

PHOTOMETRIC FILENAME : APX20LL40-UNV-W-LFA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] FO33734.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-W-LFA

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 18K RESISTORS WIDE OPTICS DIRA-FR50 LENS

[LAMP] LED. LUMINAIRE OUTPUT = 17797 LMS

[TESTDATE] 10/29/14

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	17797
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	168
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.32
Spacing Criterion (Diagonal)	1.40
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	10271	8751	8657
55	8810	7154	7222
65	7143	5501	5785
75	5129	3830	4240
85	2207	2155	2779

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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	5884.90	5884.90	5884.90	5884.90	5884.90	5884.90	5884.90	5884.90	5884.90	5884.90
2.5	5871.15	5875.72	5889.23	5888.79	5885.20	5888.79	5889.23	5875.72	5871.15	5875.72
5.0	5866.57	5870.01	5886.51	5889.03	5880.43	5889.03	5886.51	5870.01	5866.57	5870.01
7.5	5855.54	5856.54	5875.57	5882.50	5874.64	5882.50	5875.57	5856.54	5855.54	5856.54
10.0	5834.80	5840.89	5857.92	5871.39	5861.19	5871.39	5857.92	5840.89	5834.80	5840.89
12.5	5802.27	5815.00	5834.32	5841.60	5833.78	5841.60	5834.32	5815.00	5802.27	5815.00
15.0	5759.34	5780.96	5802.37	5805.94	5795.02	5805.94	5802.37	5780.96	5759.34	5780.96
17.5	5701.53	5729.45	5750.34	5755.50	5745.78	5755.50	5750.34	5729.45	5701.53	5729.45
20.0	5623.43	5658.73	5682.28	5691.15	5678.30	5691.15	5682.28	5658.73	5623.43	5658.73
22.5	5527.81	5565.21	5596.35	5616.36	5601.87	5616.36	5596.35	5565.21	5527.81	5565.21
25.0	5411.81	5454.64	5495.36	5517.87	5502.64	5517.87	5495.36	5454.64	5411.81	5454.64
27.5	5275.68	5323.11	5375.47	5401.64	5386.68	5401.64	5375.47	5323.11	5275.68	5323.11
30.0	5113.07	5169.59	5235.35	5266.57	5251.29	5266.57	5235.35	5169.59	5113.07	5169.59
32.5	4927.05	4995.05	5071.95	5108.11	5098.25	5108.11	5071.95	4995.05	4927.05	4995.05
35.0	4727.60	4798.39	4885.77	4929.20	4931.41	4929.20	4885.77	4798.39	4727.60	4798.39
37.5	4513.38	4584.55	4679.18	4738.77	4743.28	4738.77	4679.18	4584.55	4513.38	4584.55
40.0	4279.99	4356.43	4462.03	4532.17	4534.61	4532.17	4462.03	4356.43	4279.99	4356.43
42.5	4034.47	4118.98	4235.76	4308.19	4313.93	4308.19	4235.76	4118.98	4034.47	4118.98
45.0	3785.09	3873.08	3998.89	4069.99	4078.07	4069.99	3998.89	3873.08	3785.09	3873.08
47.5	3529.72	3615.13	3750.07	3821.20	3841.31	3821.20	3750.07	3615.13	3529.72	3615.13
50.0	3268.70	3353.95	3488.73	3573.93	3599.26	3573.93	3488.73	3353.95	3268.70	3353.95
52.5	3008.43	3095.20	3225.90	3323.18	3355.37	3323.18	3225.90	3095.20	3008.43	3095.20
55.0	2751.30	2837.59	2967.26	3071.65	3113.53	3071.65	2967.26	2837.59	2751.30	2837.59
57.5	2497.02	2582.71	2714.57	2824.69	2871.27	2824.69	2714.57	2582.71	2497.02	2582.71
60.0	2245.35	2332.00	2463.07	2587.61	2641.78	2587.61	2463.07	2332.00	2245.35	2332.00
62.5	1998.75	2086.85	2218.14	2358.83	2413.65	2358.83	2218.14	2086.85	1998.75	2086.85
65.0	1761.19	1847.70	1980.21	2130.15	2186.77	2130.15	1980.21	1847.70	1761.19	1847.70
67.5	1531.55	1616.18	1752.18	1904.91	1962.32	1904.91	1752.18	1616.18	1531.55	1616.18
70.0	1309.93	1393.46	1532.32	1686.22	1741.86	1686.22	1532.32	1393.46	1309.93	1393.46
72.5	1094.99	1182.19	1325.08	1474.68	1531.91	1474.68	1325.08	1182.19	1094.99	1182.19
75.0	889.12	979.11	1126.81	1274.60	1329.21	1274.60	1126.81	979.11	889.12	979.11
77.5	692.97	783.51	937.96	1084.69	1137.52	1084.69	937.96	783.51	692.97	783.51
80.0	509.95	601.81	762.80	908.70	961.09	908.70	762.80	601.81	509.95	601.81
82.5	344.94	440.48	606.48	752.48	803.91	752.48	606.48	440.48	344.94	440.48
85.0	209.34	307.32	472.95	613.70	665.20	613.70	472.95	307.32	209.34	307.32
87.5	116.23	215.97	376.64	510.55	556.03	510.55	376.64	215.97	116.23	215.97
90.0	80.02	159.00	301.14	423.49	466.62	423.49	301.14	159.00	80.02	159.00
92.5	75.57	130.58	247.16	354.29	393.71	354.29	247.16	130.58	75.57	130.58
95.0	73.23	119.64	211.67	303.84	337.99	303.84	211.67	119.64	73.23	119.64
97.5	70.38	112.32	190.70	268.02	298.13	268.02	190.70	112.32	70.38	112.32
100.0	67.61	104.84	177.49	242.81	269.03	242.81	177.49	104.84	67.61	104.84
102.5	64.10	97.28	167.20	225.75	247.69	225.75	167.20	97.28	64.10	97.28
105.0	60.00	90.50	158.22	214.33	233.46	214.33	158.22	90.50	60.00	90.50
107.5	56.42	83.68	149.26	202.99	222.29	202.99	149.26	83.68	56.42	83.68
110.0	52.73	76.97	140.50	192.05	211.23	192.05	140.50	76.97	52.73	76.97
112.5	48.78	69.89	131.71	181.69	200.52	181.69	131.71	69.89	48.78	69.89
115.0	44.80	62.75	122.35	170.99	189.32	170.99	122.35	62.75	44.80	62.75
117.5	41.06	55.42	113.40	160.40	177.95	160.40	113.40	55.42	41.06	55.42
120.0	37.04	48.12	104.13	150.01	167.64	150.01	104.13	48.12	37.04	48.12
122.5	33.30	41.21	95.12	139.76	155.66	139.76	95.12	41.21	33.30	41.21
125.0	29.32	34.52	86.48	128.63	144.67	128.63	86.48	34.52	29.32	34.52
127.5	25.69	27.72	76.91	118.46	134.59	118.46	76.91	27.72	25.69	27.72
130.0	22.53	21.69	67.40	108.98	123.56	108.98	67.40	21.69	22.53	21.69
132.5	19.23	17.68	58.05	98.47	112.36	98.47	58.05	17.68	19.23	17.68

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CANDELA TABULATION - (Cont.)

135.0	16.31	13.65	48.35	88.22	100.97	88.22	48.35	13.65	16.31	13.65
137.5	13.61	11.12	38.84	77.28	89.72	77.28	38.84	11.12	13.61	11.12
140.0	11.22	8.77	30.25	66.59	77.58	66.59	30.25	8.77	11.22	8.77
142.5	8.48	6.60	22.11	55.46	66.12	55.46	22.11	6.60	8.48	6.60
145.0	6.12	4.63	15.15	45.03	54.46	45.03	15.15	4.63	6.12	4.63
147.5	4.18	3.04	9.28	34.87	43.38	34.87	9.28	3.04	4.18	3.04
150.0	2.77	2.25	5.75	25.01	32.74	25.01	5.75	2.25	2.77	2.25
152.5	1.85	1.88	3.14	16.17	22.72	16.17	3.14	1.88	1.85	1.88
155.0	1.80	1.90	2.43	9.82	14.53	9.82	2.43	1.90	1.80	1.90
157.5	1.75	2.04	2.39	5.50	9.29	5.50	2.39	2.04	1.75	2.04
160.0	1.82	1.80	2.04	2.66	4.65	2.66	2.04	1.80	1.82	1.80
162.5	1.70	1.78	1.99	2.38	2.63	2.38	1.99	1.78	1.70	1.78
165.0	1.88	1.87	1.67	2.27	2.17	2.27	1.67	1.87	1.88	1.87
167.5	1.61	1.79	1.68	1.89	1.93	1.89	1.68	1.79	1.61	1.79
170.0	1.48	1.72	1.70	1.69	1.74	1.69	1.70	1.72	1.48	1.72
172.5	1.89	1.76	1.75	1.46	1.64	1.46	1.75	1.76	1.89	1.76
175.0	1.70	1.95	1.55	1.86	1.67	1.86	1.55	1.95	1.70	1.95
177.5	1.72	1.80	1.98	1.71	1.81	1.71	1.98	1.80	1.72	1.80
180.0	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92

**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	5884.90	5884.90	5884.90	5884.90	5884.90	5884.90	5884.90
2.5	5889.23	5888.79	5885.20	5888.79	5889.23	5875.72	5871.15
5.0	5886.51	5889.03	5880.43	5889.03	5886.51	5870.01	5866.57
7.5	5875.57	5882.50	5874.64	5882.50	5875.57	5856.54	5855.54
10.0	5857.92	5871.39	5861.19	5871.39	5857.92	5840.89	5834.80
12.5	5834.32	5841.60	5833.78	5841.60	5834.32	5815.00	5802.27
15.0	5802.37	5805.94	5795.02	5805.94	5802.37	5780.96	5759.34
17.5	5750.34	5755.50	5745.78	5755.50	5750.34	5729.45	5701.53
20.0	5682.28	5691.15	5678.30	5691.15	5682.28	5658.73	5623.43
22.5	5596.35	5616.36	5601.87	5616.36	5596.35	5565.21	5527.81
25.0	5495.36	5517.87	5502.64	5517.87	5495.36	5454.64	5411.81
27.5	5375.47	5401.64	5386.68	5401.64	5375.47	5323.11	5275.68
30.0	5235.35	5266.57	5251.29	5266.57	5235.35	5169.59	5113.07
32.5	5071.95	5108.11	5098.25	5108.11	5071.95	4995.05	4927.05
35.0	4885.77	4929.20	4931.41	4929.20	4885.77	4798.39	4727.60
37.5	4679.18	4738.77	4743.28	4738.77	4679.18	4584.55	4513.38
40.0	4462.03	4532.17	4534.61	4532.17	4462.03	4356.43	4279.99
42.5	4235.76	4308.19	4313.93	4308.19	4235.76	4118.98	4034.47
45.0	3998.89	4069.99	4078.07	4069.99	3998.89	3873.08	3785.09
47.5	3750.07	3821.20	3841.31	3821.20	3750.07	3615.13	3529.72
50.0	3488.73	3573.93	3599.26	3573.93	3488.73	3353.95	3268.70
52.5	3225.90	3323.18	3355.37	3323.18	3225.90	3095.20	3008.43
55.0	2967.26	3071.65	3113.53	3071.65	2967.26	2837.59	2751.30
57.5	2714.57	2824.69	2871.27	2824.69	2714.57	2582.71	2497.02
60.0	2463.07	2587.61	2641.78	2587.61	2463.07	2332.00	2245.35
62.5	2218.14	2358.83	2413.65	2358.83	2218.14	2086.85	1998.75
65.0	1980.21	2130.15	2186.77	2130.15	1980.21	1847.70	1761.19
67.5	1752.18	1904.91	1962.32	1904.91	1752.18	1616.18	1531.55
70.0	1532.32	1686.22	1741.86	1686.22	1532.32	1393.46	1309.93
72.5	1325.08	1474.68	1531.91	1474.68	1325.08	1182.19	1094.99
75.0	1126.81	1274.60	1329.21	1274.60	1126.81	979.11	889.12
77.5	937.96	1084.69	1137.52	1084.69	937.96	783.51	692.97
80.0	762.80	908.70	961.09	908.70	762.80	601.81	509.95

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CANDELA TABULATION - (Cont.)

82.5	606.48	752.48	803.91	752.48	606.48	440.48	344.94
85.0	472.95	613.70	665.20	613.70	472.95	307.32	209.34
87.5	376.64	510.55	556.03	510.55	376.64	215.97	116.23
90.0	301.14	423.49	466.62	423.49	301.14	159.00	80.02
92.5	247.16	354.29	393.71	354.29	247.16	130.58	75.57
95.0	211.67	303.84	337.99	303.84	211.67	119.64	73.23
97.5	190.70	268.02	298.13	268.02	190.70	112.32	70.38
100.0	177.49	242.81	269.03	242.81	177.49	104.84	67.61
102.5	167.20	225.75	247.69	225.75	167.20	97.28	64.10
105.0	158.22	214.33	233.46	214.33	158.22	90.50	60.00
107.5	149.26	202.99	222.29	202.99	149.26	83.68	56.42
110.0	140.50	192.05	211.23	192.05	140.50	76.97	52.73
112.5	131.71	181.69	200.52	181.69	131.71	69.89	48.78
115.0	122.35	170.99	189.32	170.99	122.35	62.75	44.80
117.5	113.40	160.40	177.95	160.40	113.40	55.42	41.06
120.0	104.13	150.01	167.64	150.01	104.13	48.12	37.04
122.5	95.12	139.76	155.66	139.76	95.12	41.21	33.30
125.0	86.48	128.63	144.67	128.63	86.48	34.52	29.32
127.5	76.91	118.46	134.59	118.46	76.91	27.72	25.69
130.0	67.40	108.98	123.56	108.98	67.40	21.69	22.53
132.5	58.05	98.47	112.36	98.47	58.05	17.68	19.23
135.0	48.35	88.22	100.97	88.22	48.35	13.65	16.31
137.5	38.84	77.28	89.72	77.28	38.84	11.12	13.61
140.0	30.25	66.59	77.58	66.59	30.25	8.77	11.22
142.5	22.11	55.46	66.12	55.46	22.11	6.60	8.48
145.0	15.15	45.03	54.46	45.03	15.15	4.63	6.12
147.5	9.28	34.87	43.38	34.87	9.28	3.04	4.18
150.0	5.75	25.01	32.74	25.01	5.75	2.25	2.77
152.5	3.14	16.17	22.72	16.17	3.14	1.88	1.85
155.0	2.43	9.82	14.53	9.82	2.43	1.90	1.80
157.5	2.39	5.50	9.29	5.50	2.39	2.04	1.75
160.0	2.04	2.66	4.65	2.66	2.04	1.80	1.82
162.5	1.99	2.38	2.63	2.38	1.99	1.78	1.70
165.0	1.67	2.27	2.17	2.27	1.67	1.87	1.88
167.5	1.68	1.89	1.93	1.89	1.68	1.79	1.61
170.0	1.70	1.69	1.74	1.69	1.70	1.72	1.48
172.5	1.75	1.46	1.64	1.46	1.75	1.76	1.89
175.0	1.55	1.86	1.67	1.86	1.55	1.95	1.70
177.5	1.98	1.71	1.81	1.71	1.98	1.80	1.72
180.0	1.92	1.92	1.92	1.92	1.92	1.92	1.92

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2196.36	N.A.	12.30
0-30	4720.53	N.A.	26.50
0-40	7756.52	N.A.	43.60
0-60	13456.74	N.A.	75.60
0-80	16616.4	N.A.	93.40
0-90	17142.7	N.A.	96.30
10-90	16582.27	N.A.	93.20
20-40	5560.17	N.A.	31.20
20-50	8617.93	N.A.	48.40
40-70	7667.48	N.A.	43.10
60-80	3159.66	N.A.	17.80
70-80	1192.39	N.A.	6.70
80-90	526.31	N.A.	3.00
90-110	400.03	N.A.	2.20
90-120	517.68	N.A.	2.90
90-130	593.57	N.A.	3.30
90-150	650.01	N.A.	3.70
90-180	653.81	N.A.	3.70
110-180	253.77	N.A.	1.40
0-180	17796.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	560.43
10-20	1635.93
20-30	2524.17
30-40	3035.99
40-50	3057.76
50-60	2642.45
60-70	1967.26
70-80	1192.39
80-90	526.31
90-100	237.99
100-110	162.05
110-120	117.65
120-130	75.89
130-140	40.90
140-150	15.54
150-160	3.07
160-170	0.57
170-180	0.16

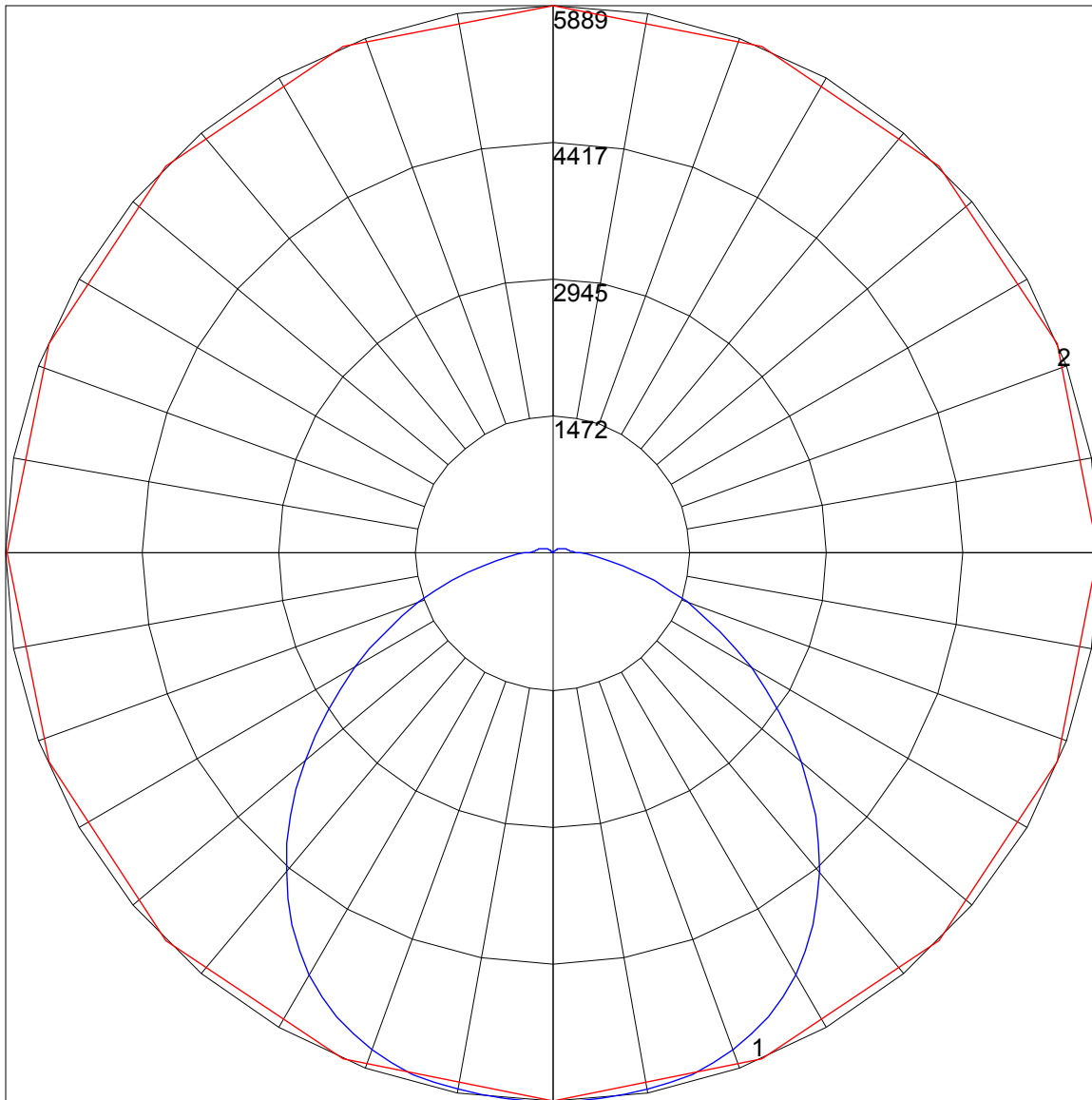
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	99	99	99	96
1	108	103	98	94	104	100	96	92	95	92	89	91	88	85	86	84	82	80
2	98	89	83	77	95	87	81	76	83	78	73	79	75	71	76	72	69	67
3	89	79	70	64	86	77	69	63	73	67	61	70	65	60	67	62	58	56
4	82	70	61	54	79	68	60	54	65	58	52	62	56	51	60	55	50	48
5	75	62	53	47	73	61	53	46	58	51	45	56	50	45	54	48	44	42
6	69	56	47	41	67	55	47	40	53	45	40	51	44	39	49	43	38	36
7	64	51	42	36	62	50	42	36	48	41	35	46	40	35	45	39	34	32
8	60	46	38	32	58	46	37	32	44	37	31	42	36	31	41	35	31	29
9	56	43	34	29	54	42	34	29	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 5889.23 Located At Horizontal Angle = 45, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)