

IES INDOOR REPORT
PHOTOMETRIC FILENAME : C6RX-ASY-00-UNVE5-35-NA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3334
 [ECN] 3081
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 1/26/2018 12:55:54 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] C6RX-ASY-00-UNVE5-35-NA
 [LUMINAIRE] Natural anodized aluminum housing with frosted glass lens
 [LAMP] Sixteen (16) white LEDs (3500K) with asymmetric optic
 [_ELECTRICALS] 120.04 VAC, 0.04 A, 0.9900 PF, 10% ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	352
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	4.91
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.86
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.13 ft
Luminous Width (90-270)	0.96 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	19741	20471	9065
55	14092	17163	7905
65	9286	13383	6666
75	5777	9313	5132
85	2597	4183	2473

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09
2.5	153.57	153.62	153.67	153.37	153.07	152.43	151.78	150.93	150.07	148.98
5.0	172.43	172.21	171.98	171.24	170.49	169.12	167.75	165.87	163.98	161.58
7.5	190.82	190.46	190.09	188.81	187.52	185.33	183.14	180.21	177.27	173.71
10.0	207.86	207.29	206.71	205.04	203.36	200.47	197.58	193.76	189.94	185.08
12.5	222.98	222.18	221.37	219.31	217.24	213.89	210.54	205.90	201.27	195.28
15.0	235.12	234.31	233.48	231.27	229.06	225.17	221.27	216.05	210.83	204.06
17.5	244.19	243.28	242.36	240.07	237.77	233.83	229.89	224.21	218.52	211.00
20.0	250.07	249.23	248.38	246.03	243.68	239.63	235.58	229.83	224.08	216.16
22.5	252.67	251.82	250.97	248.77	246.56	242.64	238.73	232.92	227.10	219.03
25.0	252.14	251.22	250.28	248.33	246.38	242.76	239.14	233.57	227.99	219.86
27.5	248.26	247.56	246.85	245.18	243.49	240.17	236.85	231.64	226.42	218.62
30.0	241.45	240.78	240.11	238.96	237.80	235.01	232.22	227.53	222.84	215.29
32.5	231.98	231.40	230.81	230.03	229.23	227.17	225.11	221.09	217.05	210.01
35.0	219.54	219.28	219.02	218.82	218.60	217.18	215.76	212.52	209.27	203.03
37.5	205.57	205.34	205.10	205.44	205.78	205.13	204.49	202.16	199.83	194.34
40.0	189.61	189.77	189.93	190.78	191.62	191.67	191.72	190.24	188.76	184.30
42.5	172.86	173.12	173.38	174.73	176.09	176.93	177.77	177.23	176.69	173.11
45.0	155.44	156.08	156.72	158.24	159.75	161.45	163.15	163.40	163.64	161.19
47.5	138.10	138.92	139.74	141.67	143.60	145.78	147.96	148.95	149.94	148.51
50.0	121.28	122.18	123.08	125.18	127.28	130.09	132.89	134.50	136.10	135.52
52.5	105.14	106.10	107.06	109.36	111.65	114.74	117.83	120.07	122.32	122.57
55.0	90.01	91.01	92.01	94.41	96.81	100.11	103.40	106.05	108.69	109.62
57.5	76.47	77.41	78.34	80.64	82.94	86.31	89.69	92.66	95.62	97.06
60.0	64.28	65.23	66.16	68.38	70.58	73.81	77.04	80.08	83.11	84.99
62.5	53.38	54.19	54.99	57.08	59.17	62.35	65.51	68.58	71.65	73.69
65.0	43.70	44.46	45.21	47.08	48.96	51.90	54.83	57.80	60.76	62.98
67.5	35.34	35.98	36.61	38.24	39.85	42.45	45.04	47.84	50.64	52.83
70.0	28.09	28.63	29.16	30.53	31.89	34.16	36.43	38.87	41.31	43.38
72.5	21.94	22.36	22.77	23.91	25.04	26.90	28.75	30.81	32.86	34.74
75.0	16.65	16.97	17.28	18.17	19.07	20.52	21.97	23.63	25.29	26.84
77.5	12.14	12.36	12.57	13.22	13.86	14.98	16.10	17.37	18.64	19.84
80.0	8.30	8.41	8.52	8.98	9.44	10.22	10.98	11.88	12.78	13.64
82.5	5.07	5.12	5.17	5.46	5.73	6.22	6.70	7.24	7.77	8.32
85.0	2.52	2.55	2.58	2.70	2.81	3.06	3.31	3.55	3.79	4.06
87.5	0.82	0.84	0.86	0.87	0.88	0.96	1.03	1.09	1.15	1.22
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09
2.5	147.88	146.63	145.37	143.90	142.43	140.93	139.43	137.91	136.39	134.82
5.0	159.18	156.54	153.90	150.94	147.97	144.88	141.78	138.73	135.67	132.59
7.5	170.14	166.03	161.91	157.36	152.80	148.26	143.71	139.02	134.32	129.86
10.0	180.21	174.80	169.39	163.29	157.18	151.03	144.87	138.68	132.48	126.73
12.5	189.28	182.53	175.78	168.31	160.82	153.21	145.58	137.97	130.35	123.30
15.0	197.28	189.43	181.58	172.64	163.71	154.62	145.52	136.60	127.67	119.48
17.5	203.47	194.68	185.88	175.80	165.72	155.29	144.86	134.70	124.53	115.35
20.0	208.24	198.56	188.88	177.74	166.60	155.05	143.49	132.23	120.97	110.91
22.5	210.95	200.84	190.72	178.64	166.56	153.91	141.26	129.10	116.94	106.21
25.0	211.72	201.23	190.74	178.15	165.55	152.07	138.59	125.60	112.60	101.39
27.5	210.82	200.25	189.67	176.48	163.28	149.19	135.09	121.50	107.91	96.37
30.0	207.73	197.37	187.00	173.63	160.26	145.66	131.06	117.02	102.97	91.31

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32.5	202.97	192.90	182.82	169.47	156.11	141.34	126.57	112.26	97.94	86.25
35.0	196.78	187.15	177.51	164.39	151.26	136.35	121.43	106.99	92.54	81.08
37.5	188.85	179.90	170.95	158.19	145.43	130.69	115.94	101.62	87.28	76.08
40.0	179.84	171.66	163.47	151.21	138.93	124.47	110.01	96.01	82.00	71.09
42.5	169.52	162.34	155.16	143.57	131.96	117.87	103.78	90.21	76.64	66.15
45.0	158.73	152.29	145.84	135.15	124.44	110.90	97.35	84.37	71.38	61.34
47.5	147.09	141.66	136.23	126.32	116.41	103.60	90.78	78.45	66.11	56.60
50.0	134.94	130.47	125.99	117.10	108.20	96.09	83.98	72.41	60.84	51.98
52.5	122.81	119.24	115.67	107.65	99.62	88.42	77.22	66.40	55.57	47.42
55.0	110.55	107.84	105.13	98.04	90.94	80.77	70.60	60.55	50.49	43.05
57.5	98.50	96.49	94.47	88.45	82.41	73.15	63.88	54.69	45.49	38.79
60.0	86.86	85.52	84.17	79.03	73.88	65.56	57.23	48.91	40.59	34.65
62.5	75.73	74.96	74.19	69.83	65.46	58.04	50.62	43.25	35.88	30.65
65.0	65.20	64.84	64.47	60.81	57.14	50.67	44.19	37.78	31.37	26.85
67.5	55.02	55.03	55.02	52.02	49.00	43.50	37.99	32.45	26.91	23.08
70.0	45.44	45.63	45.81	43.46	41.12	36.56	31.99	27.36	22.74	19.54
72.5	36.61	36.89	37.16	35.38	33.59	29.92	26.23	22.44	18.64	16.07
75.0	28.38	28.75	29.11	27.81	26.51	23.64	20.77	17.78	14.79	12.78
77.5	21.03	21.33	21.63	20.73	19.82	17.73	15.64	13.41	11.17	9.68
80.0	14.50	14.73	14.96	14.37	13.77	12.34	10.91	9.36	7.81	6.81
82.5	8.87	9.01	9.14	8.80	8.45	7.60	6.74	5.80	4.85	4.25
85.0	4.32	4.39	4.45	4.30	4.14	3.72	3.29	2.85	2.40	2.12
87.5	1.28	1.27	1.26	1.23	1.19	1.08	0.96	0.84	0.72	0.65
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0.0	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09	136.09
2.5	133.24	131.76	130.27	128.95	127.62	126.33	125.04	123.85	122.64	121.69
5.0	129.51	126.64	123.76	121.16	118.55	116.23	113.90	111.79	109.67	108.07
7.5	125.40	121.25	117.09	113.39	109.69	106.38	103.06	100.30	97.54	95.36
10.0	120.98	115.68	110.38	105.66	100.93	97.00	93.06	89.75	86.44	83.95
12.5	116.24	109.92	103.60	98.13	92.65	88.21	83.77	80.20	76.62	73.98
15.0	111.28	104.12	96.96	90.95	84.94	80.21	75.47	71.69	67.90	65.16
17.5	106.18	98.32	90.46	84.07	77.69	72.85	68.00	64.13	60.26	57.47
20.0	100.85	92.55	84.25	77.67	71.10	66.10	61.10	57.31	53.52	50.78
22.5	95.48	86.87	78.26	71.64	65.01	60.03	55.04	51.33	47.62	45.07
25.0	90.18	81.37	72.56	65.95	59.35	54.48	49.60	46.10	42.59	40.25
27.5	84.83	76.03	67.23	60.68	54.13	49.48	44.82	41.56	38.30	36.15
30.0	79.65	70.89	62.13	55.80	49.46	45.07	40.67	37.66	34.64	32.66
32.5	74.55	65.97	57.38	51.28	45.19	41.10	37.00	34.24	31.48	29.71
35.0	69.61	61.25	52.90	47.15	41.40	37.59	33.78	31.30	28.82	27.21
37.5	64.88	56.78	48.67	43.31	37.94	34.46	30.97	28.71	26.45	25.02
40.0	60.18	52.51	44.83	39.83	34.83	31.64	28.44	26.41	24.37	23.08
42.5	55.65	48.45	41.25	36.64	32.03	29.12	26.21	24.38	22.54	21.42
45.0	51.29	44.61	37.92	33.67	29.41	26.81	24.21	22.56	20.90	19.90
47.5	47.09	40.93	34.78	30.93	27.08	24.72	22.36	20.90	19.44	18.55
50.0	43.12	37.47	31.80	28.33	24.85	22.75	20.65	19.34	18.01	17.24
52.5	39.27	34.17	29.07	25.93	22.77	20.93	19.08	17.92	16.75	16.09
55.0	35.60	31.03	26.45	23.64	20.84	19.21	17.59	16.57	15.55	14.94
57.5	32.08	28.02	23.95	21.49	19.02	17.58	16.14	15.26	14.37	13.82
60.0	28.70	25.13	21.55	19.38	17.19	15.96	14.71	13.92	13.13	12.66
62.5	25.42	22.32	19.22	17.34	15.46	14.37	13.29	12.63	11.96	11.53
65.0	22.32	19.63	16.95	15.35	13.75	12.82	11.89	11.32	10.74	10.39
67.5	19.24	17.01	14.77	13.41	12.05	11.26	10.47	9.98	9.49	9.20

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CANDELA TABULATION - (Cont.)

70.0	16.33	14.47	12.61	11.49	10.37	9.70	9.03	8.63	8.23	7.97
72.5	13.50	12.01	10.52	9.58	8.64	8.13	7.61	7.28	6.95	6.74
75.0	10.77	9.61	8.45	7.72	6.98	6.58	6.18	5.91	5.64	5.48
77.5	8.19	7.32	6.45	5.93	5.41	5.12	4.81	4.60	4.38	4.26
80.0	5.81	5.20	4.59	4.24	3.89	3.69	3.48	3.34	3.18	3.09
82.5	3.64	3.29	2.94	2.71	2.48	2.37	2.26	2.18	2.08	2.04
85.0	1.85	1.69	1.53	1.44	1.35	1.31	1.26	1.21	1.15	1.13
87.5	0.57	0.58	0.58	0.57	0.54	0.54	0.53	0.52	0.50	0.50
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	136.09	136.09	136.09	136.09	136.09	136.09	136.09
2.5	120.73	120.04	119.33	118.83	118.31	117.94	117.56
5.0	106.45	105.17	103.88	103.12	102.36	101.82	101.28
7.5	93.17	91.55	89.92	88.96	88.00	87.50	87.00
10.0	81.45	79.69	77.92	76.83	75.74	75.14	74.53
12.5	71.34	69.42	67.50	66.36	65.22	64.62	64.02
15.0	62.40	60.47	58.53	57.36	56.18	55.61	55.04
17.5	54.67	52.76	50.85	49.73	48.60	48.07	47.52
20.0	48.04	46.26	44.49	43.40	42.31	41.85	41.38
22.5	42.52	40.86	39.21	38.20	37.19	36.74	36.29
25.0	37.90	36.35	34.79	33.91	33.03	32.62	32.21
27.5	34.00	32.60	31.19	30.38	29.58	29.23	28.88
30.0	30.67	29.46	28.24	27.52	26.80	26.47	26.14
32.5	27.92	26.84	25.75	25.11	24.45	24.16	23.86
35.0	25.59	24.62	23.64	23.04	22.44	22.19	21.93
37.5	23.58	22.71	21.83	21.31	20.78	20.57	20.35
40.0	21.78	21.02	20.25	19.80	19.35	19.16	18.96
42.5	20.30	19.60	18.88	18.48	18.08	17.92	17.74
45.0	18.90	18.28	17.67	17.30	16.93	16.79	16.64
47.5	17.66	17.11	16.56	16.23	15.89	15.77	15.64
50.0	16.47	15.98	15.49	15.20	14.91	14.79	14.66
52.5	15.43	14.96	14.48	14.23	13.97	13.82	13.66
55.0	14.34	13.94	13.54	13.30	13.06	12.92	12.78
57.5	13.27	12.92	12.58	12.36	12.14	12.01	11.87
60.0	12.19	11.88	11.56	11.38	11.19	11.08	10.96
62.5	11.10	10.84	10.58	10.40	10.22	10.11	9.99
65.0	10.03	9.78	9.54	9.40	9.25	9.12	8.97
67.5	8.90	8.68	8.44	8.32	8.19	8.09	7.99
70.0	7.72	7.52	7.31	7.22	7.12	7.01	6.89
72.5	6.53	6.36	6.19	6.10	6.01	5.93	5.84
75.0	5.32	5.17	5.01	4.95	4.89	4.82	4.74
77.5	4.14	4.03	3.91	3.84	3.77	3.72	3.66
80.0	2.99	2.90	2.81	2.76	2.71	2.68	2.65
82.5	2.00	1.92	1.84	1.82	1.80	1.73	1.66
85.0	1.10	1.07	1.02	1.02	1.00	0.95	0.90
87.5	0.49	0.47	0.45	0.44	0.42	0.39	0.35
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	51.80	N.A.	14.70
0-30	111.69	N.A.	31.70
0-40	181.68	N.A.	51.60
0-60	299.41	N.A.	85.10
0-80	348.70	N.A.	99.10
0-90	351.91	N.A.	100.00
10-90	338.85	N.A.	96.30
20-40	129.89	N.A.	36.90
20-50	195.97	N.A.	55.70
40-70	151.09	N.A.	42.90
60-80	49.29	N.A.	14.00
70-80	15.93	N.A.	4.50
80-90	3.21	N.A.	0.90
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	351.91	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	13.05
10-20	38.74
20-30	59.89
30-40	69.99
40-50	66.09
50-60	51.65
60-70	33.36
70-80	15.93
80-90	3.21
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

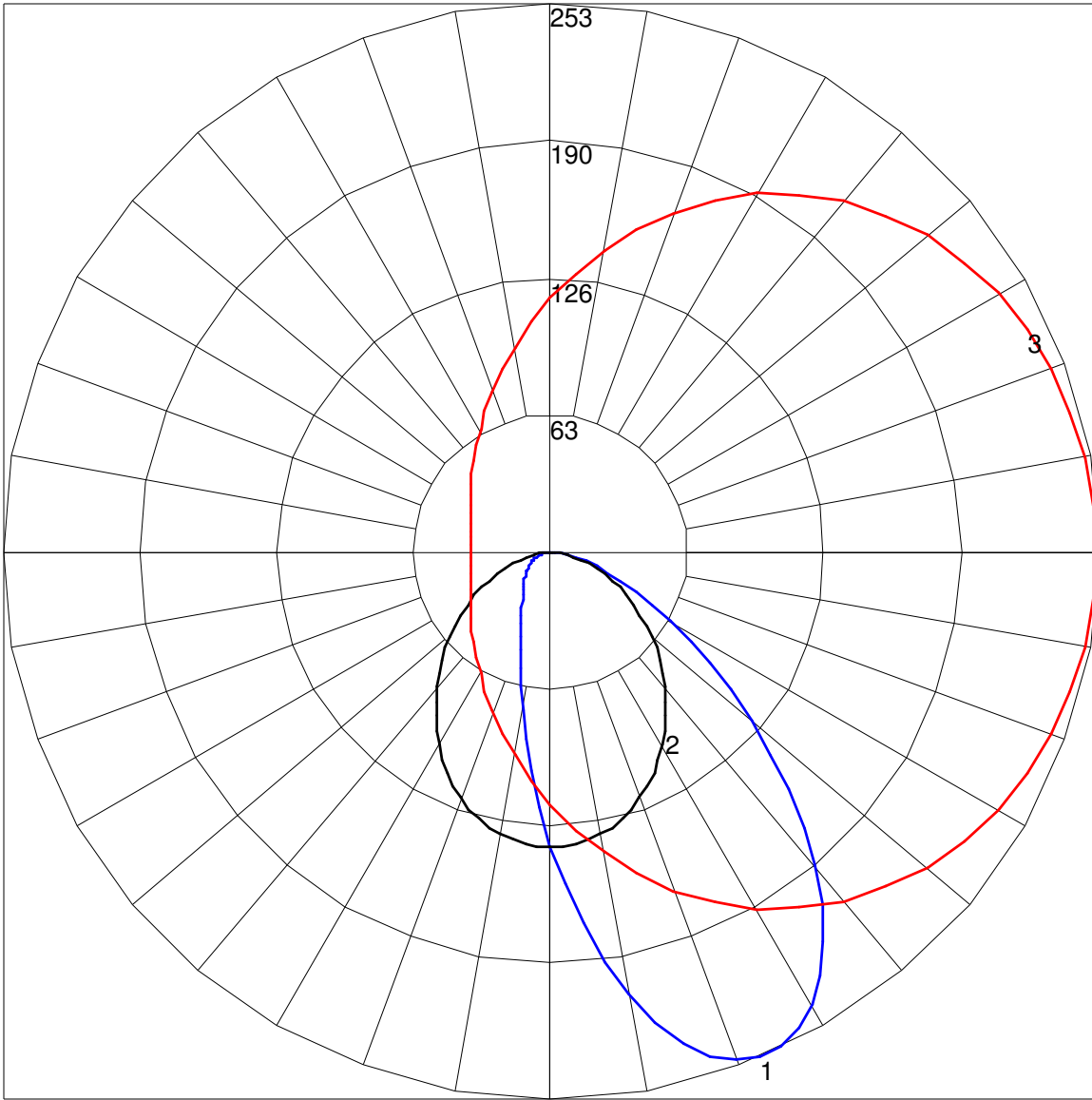
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	66	61	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	34	29	41	34	29	40	34	29	39	33	29	27

POLAR GRAPH



Maximum Candela = 252.67 Located At Horizontal Angle = 0, Vertical Angle = 22.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)