

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P180798

Luminaire Tested: **ICM-E05-LED-E1-SL4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180798
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-SL4-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9464.3 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

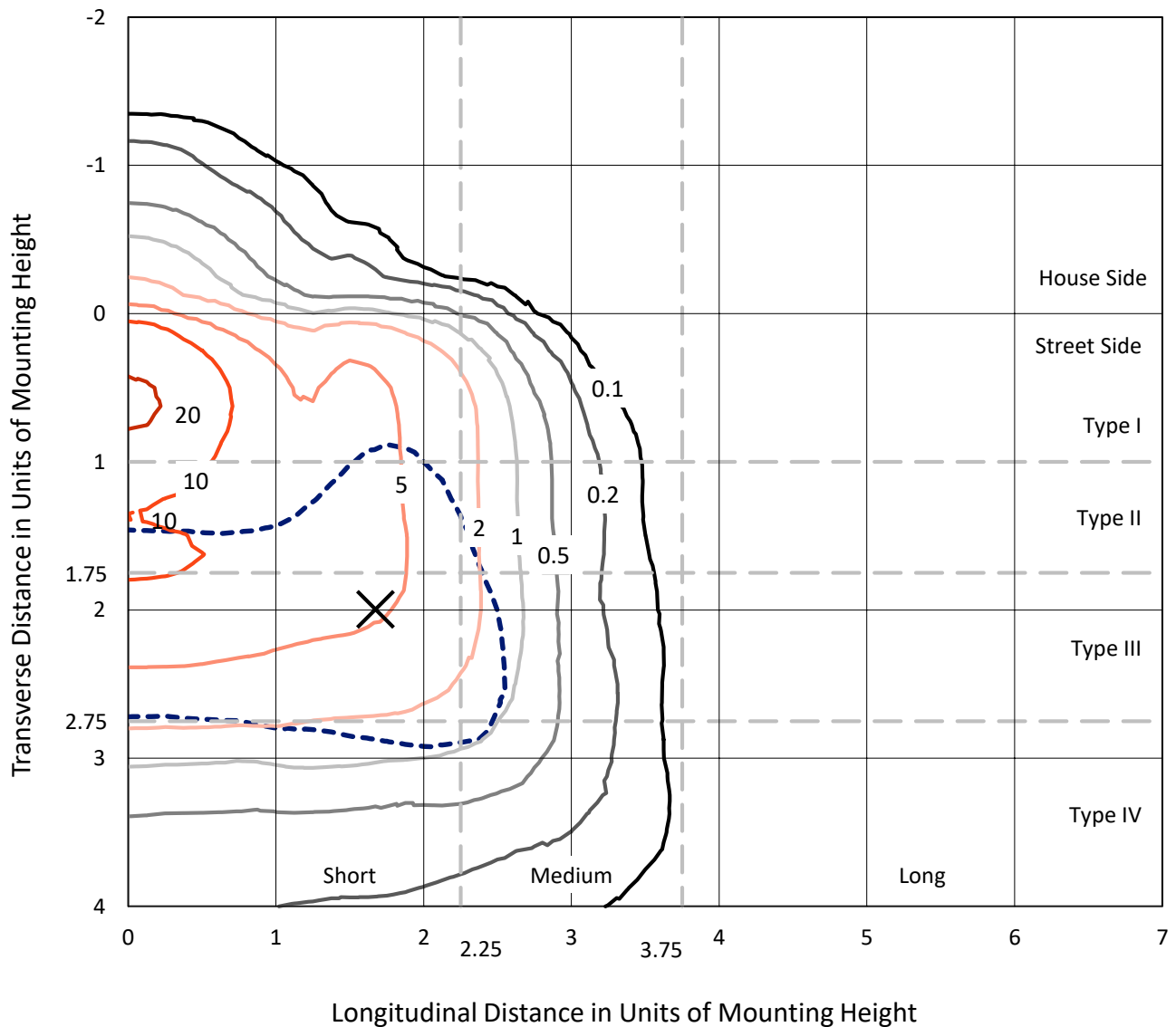


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

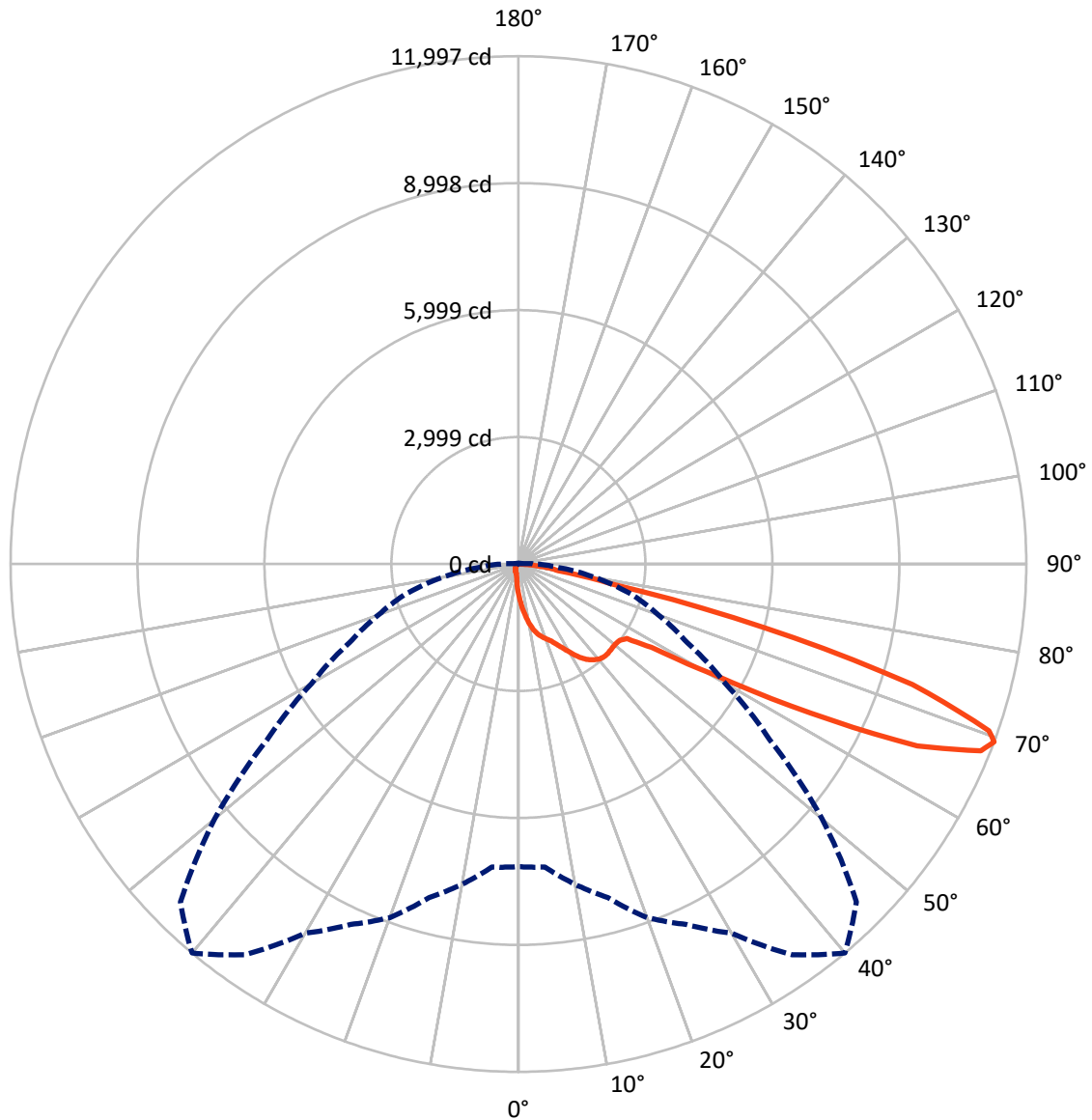


Based on 10 foot mounting height. Maximum calculated value = 21.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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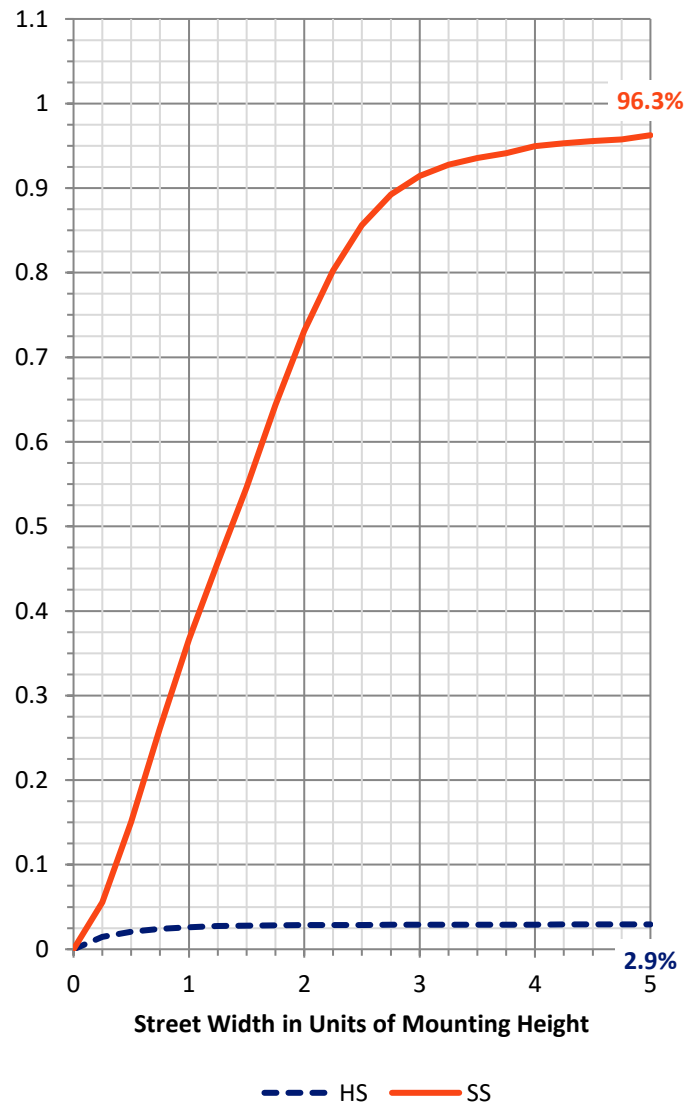
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	281.8	0.0	281.8
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	9182.5	0.0	9182.5
	% Fixture	97.0	0.0	97.0
Total	Lumens	9464.3	0.0	9464.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	0.8
10°-20°	253.3	2.7
20°-30°	484.8	5.1
30°-40°	806.2	8.5
40°-50°	1090.9	11.5
50°-60°	1706.1	18.0
60°-70°	3507.6	37.1
70°-80°	1411.4	14.9
80°-90°	130.6	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9464.3	100.0
0°-180°	9464.3	100.0

Coefficient of Utilization



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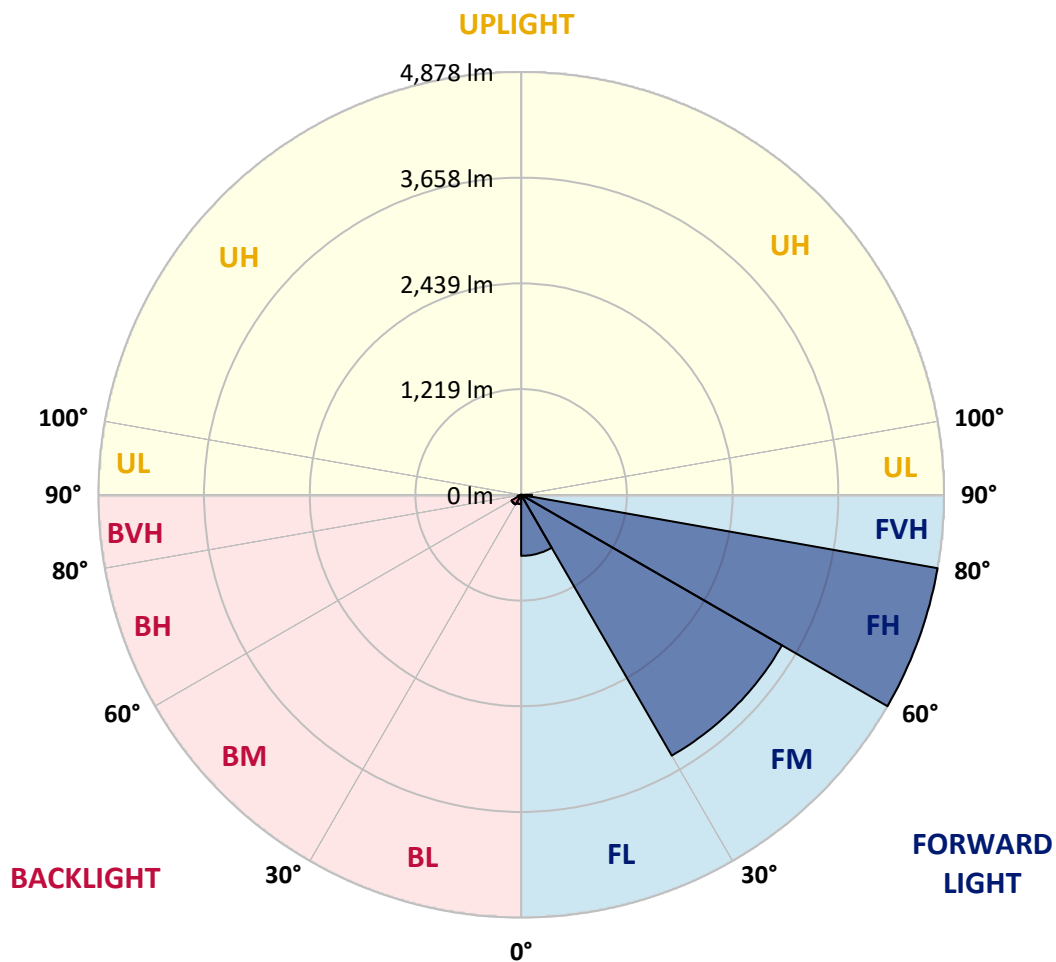
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.3	7.4			
FM (30°-60°)	3474.5	36.7			
FH (60°-80°)	4877.9	51.5			G2/5000
FVH (80°-90°)	125.7	1.3			G2/225
BL (0°-30°)	107.2	1.1	B0/110		
BM (30°-60°)	128.7	1.4	B0/220		
BH (60°-80°)	41.1	0.4	B0/110		G0/110
BVH (80°-90°)	4.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	953.5	942.6	930.2	930.2	914.7	914.7	905.4	880.7	877.5	863.5	849.6
5°	1217.0	1207.7	1192.3	1178.3	1165.9	1144.2	1128.7	1099.3	1066.7	1035.6	1007.7
7.5°	1474.4	1469.8	1441.9	1437.2	1417.0	1381.4	1350.4	1307.0	1251.2	1207.7	1156.6
10°	1713.2	1702.3	1696.1	1669.8	1640.3	1601.6	1553.5	1500.8	1435.6	1367.5	1294.6
12.5°	1902.3	1896.1	1868.2	1857.4	1826.3	1787.6	1727.2	1658.9	1593.8	1505.4	1420.2
15°	2043.5	2032.6	2014.0	1996.9	1959.7	1925.6	1869.8	1795.4	1716.3	1620.2	1517.9
17.5°	2161.2	2141.1	2136.5	2110.1	2071.4	2031.0	1969.0	1900.8	1807.7	1711.6	1600.0
20°	2319.4	2291.5	2282.2	2243.5	2198.4	2142.6	2071.4	1986.1	1888.4	1783.0	1668.2
22.5°	2505.4	2485.3	2465.1	2431.0	2373.7	2294.6	2190.7	2097.7	1973.7	1857.4	1733.3
25°	2769.0	2751.9	2719.4	2672.9	2601.6	2507.0	2381.4	2244.9	2099.3	1950.4	1804.7
27.5°	3024.9	3009.3	2986.1	2950.4	2869.8	2765.9	2610.9	2437.2	2252.8	2072.8	1911.6
30°	3265.1	3251.2	3227.9	3192.3	3120.9	3018.6	2843.5	2657.4	2427.9	2218.6	2024.8
32.5°	3524.0	3519.4	3493.0	3441.9	3379.8	3241.9	3051.2	2851.2	2618.6	2376.8	2150.4
35°	3817.0	3781.4	3756.6	3705.4	3600.0	3452.8	3229.5	3010.9	2765.9	2517.9	2265.1
37.5°	4065.1	4031.0	4000.0	3934.9	3806.3	3618.6	3365.9	3125.6	2872.9	2620.2	2362.8
40°	4246.5	4229.5	4192.3	4107.0	3962.8	3739.6	3466.7	3204.7	2950.4	2696.1	2441.9
42.5°	4381.4	4355.1	4313.2	4224.9	4054.3	3800.0	3507.0	3237.2	2986.1	2742.6	2493.0
45°	4431.0	4409.3	4370.5	4274.4	4090.0	3817.0	3505.4	3227.9	2987.6	2756.6	2527.2
47.5°	4401.6	4379.8	4345.8	4255.8	4074.4	3797.0	3477.5	3201.6	2972.1	2761.2	2558.2
50°	4303.9	4291.5	4265.1	4189.1	4026.4	3758.2	3452.8	3187.6	2969.0	2784.5	2601.6
52.5°	4294.6	4286.8	4254.3	4178.4	4012.4	3745.8	3449.6	3195.4	2995.4	2814.0	2632.6
55°	5248.1	5138.0	4891.5	4682.2	4338.0	3928.7	3606.3	3321.0	3107.0	2930.3	2803.1
57.5°	7458.9	7294.6	6970.6	6572.1	5781.4	5004.7	4383.0	3933.3	3711.7	3631.0	3679.1
60°	8494.7	8465.2	8414.0	8224.9	7820.2	7152.0	6407.8	5603.1	5280.7	5252.8	5350.5
62.5°	8986.1	8967.5	8983.0	8959.8	8834.2	8638.8	8424.9	8077.5	7758.2	7552.0	7114.7
65°	9212.4	9224.9	9313.3	9383.0	9398.5	9449.6	9606.3	10038.9	10355.1	9823.3	8609.4
67.5°	8637.3	8710.1	8913.3	9167.5	9465.2	9753.5	10218.7	11130.3	11779.9	11155.1	9431.0
69°	7150.5	7186.1	7682.2	8161.3	8888.4	9397.0	10071.4	11266.8	11997.0	11291.5	9365.9
70°	5629.5	5662.1	6193.8	6845.0	8074.5	8728.7	9610.9	11035.7	11793.8	11110.1	9031.0
72.5°	2539.6	2493.0	2680.7	3029.5	4365.9	5404.7	6947.3	8941.2	9730.3	8900.8	6756.6
75°	1773.7	1753.5	1773.7	1775.2	1983.0	2558.2	3227.9	4846.5	5993.8	5172.1	3227.9
77.5°	1373.7	1359.7	1345.8	1330.2	1355.1	1517.9	1583.0	1719.4	2232.6	2111.6	1231.0
80°	1086.8	1074.4	1108.6	1097.7	1097.7	1116.3	1103.9	1052.8	956.6	886.8	793.8
82.5°	505.4	508.6	508.6	551.9	665.1	776.7	812.4	761.2	676.0	575.2	463.5
85°	48.1	54.2	91.4	141.1	280.7	316.3	317.9	263.5	263.5	207.7	167.4
87.5°	0.0	1.6	1.6	1.6	14.0	38.8	32.6	9.3	4.7	4.7	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	824.8	820.2	801.6	783.0	765.9	747.3	730.2	713.2	694.6	680.7	663.5
5°	964.4	930.2	891.4	854.2	817.0	778.3	738.0	702.3	665.1	631.0	598.4
7.5°	1105.4	1038.8	986.1	919.4	858.9	798.4	742.6	685.3	632.6	583.0	536.5
10°	1224.8	1144.2	1062.1	976.8	890.0	809.3	731.8	663.5	593.8	533.3	476.0
12.5°	1322.5	1220.2	1119.4	1012.4	914.7	812.4	716.3	634.1	551.9	483.7	424.8
15°	1410.9	1293.0	1172.1	1048.1	924.0	807.7	700.7	598.4	514.7	437.2	370.5
17.5°	1482.1	1347.3	1210.9	1071.4	938.0	801.6	680.7	573.7	476.0	395.4	330.2
20°	1544.2	1403.1	1255.8	1099.3	947.3	800.0	663.5	542.6	441.9	356.6	293.0
22.5°	1601.6	1460.5	1302.3	1134.9	961.2	798.4	648.1	519.4	412.4	327.2	263.5
25°	1666.7	1517.9	1351.9	1172.1	986.1	804.7	638.8	500.7	386.0	299.3	240.3
27.5°	1739.5	1583.0	1410.9	1218.6	1018.6	817.0	635.6	480.7	362.8	272.8	221.7
30°	1841.9	1660.5	1469.8	1265.1	1048.1	831.0	632.6	468.2	339.5	252.7	203.1
32.5°	1931.8	1736.5	1534.9	1313.2	1080.7	844.9	631.0	451.2	317.9	232.6	189.1
35°	2026.3	1806.2	1590.7	1359.7	1108.6	860.5	629.5	438.8	297.7	212.4	175.2
37.5°	2108.6	1865.1	1634.1	1400.0	1139.5	874.4	631.0	427.9	279.1	195.4	162.8
40°	2178.3	1925.6	1682.1	1437.2	1172.1	896.1	632.6	417.0	260.5	179.8	151.9
42.5°	2240.3	1983.0	1733.3	1479.1	1209.3	920.9	641.9	407.7	244.9	165.9	141.1
45°	2288.4	2035.6	1789.1	1538.0	1269.8	961.2	658.9	401.6	229.5	153.5	131.8
47.5°	2338.0	2113.2	1883.7	1631.0	1358.1	1024.8	688.4	400.0	217.0	144.2	124.0
50°	2406.2	2190.7	1967.5	1725.6	1438.8	1090.0	724.0	401.6	201.6	134.9	116.3
52.5°	2455.8	2269.8	2076.0	1890.0	1631.0	1288.4	862.1	429.5	193.8	127.2	107.0
55°	2748.9	2716.3	2720.9	2751.9	2551.9	2192.3	1441.9	620.2	227.9	144.2	105.4
57.5°	3876.0	3990.7	4057.4	4055.8	3725.6	3090.0	1936.5	796.9	254.2	167.4	125.6
60°	5358.2	5271.4	5148.9	4846.5	4407.7	3527.2	2165.9	857.4	220.2	133.3	114.7
62.5°	6668.2	6159.8	5708.6	5218.6	4643.5	3679.1	2212.4	852.7	192.3	100.7	80.7
65°	7485.3	6570.6	5841.9	5227.9	4550.4	3551.9	2093.0	783.0	162.8	82.1	66.7
67.5°	7680.7	6348.9	5317.9	4534.9	3801.6	2764.4	1536.5	589.1	127.2	68.2	58.9
69°	7254.3	5643.5	4406.3	3517.9	2765.9	1834.2	950.4	372.1	97.7	62.0	54.2
70°	6672.9	4908.6	3589.1	2823.3	2048.1	1288.4	665.1	262.0	79.1	57.4	49.6
72.5°	4293.0	2578.3	1764.4	1227.9	844.9	513.2	260.5	117.9	60.5	48.1	40.3
75°	1665.1	953.5	691.4	525.6	410.9	285.3	158.1	76.0	51.2	40.3	31.0
77.5°	820.2	627.9	513.2	351.9	204.7	127.2	85.3	58.9	41.9	29.5	20.2
80°	648.1	431.0	257.4	159.7	120.9	91.4	65.1	48.1	31.0	18.6	14.0
82.5°	331.8	181.4	133.3	108.6	90.0	71.3	52.7	34.1	20.2	12.4	10.9
85°	103.9	76.0	68.2	66.7	62.0	51.2	37.2	21.7	12.4	7.7	7.7
87.5°	7.7	10.9	14.0	10.9	12.4	10.9	14.0	9.3	6.2	6.2	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7	714.7
2.5°	651.2	632.6	615.5	604.7	584.5	576.7	569.0	565.9	551.9	555.1	542.6
5°	569.0	536.5	511.6	486.8	463.5	446.5	432.6	415.5	401.6	395.4	383.0
7.5°	494.6	452.7	420.2	393.8	365.9	344.2	325.6	313.2	300.7	288.4	282.1
10°	429.5	384.5	347.3	320.9	294.6	276.0	262.0	252.7	244.9	240.3	238.8
12.5°	369.0	325.6	291.4	268.2	248.1	238.8	232.6	227.9	226.3	224.8	224.8
15°	322.5	279.1	252.7	235.6	226.3	221.7	220.2	217.0	214.0	212.4	212.4
17.5°	279.1	246.5	227.9	218.6	214.0	210.9	207.7	204.7	201.6	200.0	200.0
20°	249.6	223.3	214.0	207.7	203.1	200.0	195.4	192.3	190.7	189.1	187.6
22.5°	226.3	209.3	203.1	198.4	192.3	187.6	184.5	181.4	178.3	176.7	175.2
25°	209.3	198.4	193.8	187.6	181.4	176.7	172.1	167.4	164.4	162.8	159.7
27.5°	196.9	189.1	183.0	175.2	169.0	164.4	159.7	155.1	151.9	148.8	147.3
30°	186.0	178.3	170.5	164.4	156.6	151.9	145.8	141.1	139.5	136.5	133.3
32.5°	175.2	167.4	159.7	151.9	144.2	138.0	134.9	128.7	125.6	124.0	120.9
35°	162.8	155.1	145.8	139.5	131.8	125.6	120.9	116.3	113.2	110.0	108.6
37.5°	151.9	142.6	133.3	125.6	119.3	113.2	108.6	103.9	100.7	97.7	96.1
40°	139.5	130.2	120.9	113.2	107.0	102.3	97.7	93.0	90.0	88.4	88.4
42.5°	128.7	117.9	108.6	102.3	97.7	91.4	86.8	82.1	80.7	79.1	80.7
45°	117.9	107.0	99.3	93.0	88.4	82.1	77.5	74.4	72.8	74.4	76.0
47.5°	108.6	97.7	90.0	85.3	80.7	76.0	71.3	68.2	68.2	71.3	74.4
50°	99.3	88.4	82.1	79.1	74.4	69.8	63.5	62.0	63.5	66.7	69.8
52.5°	90.0	77.5	72.8	71.3	66.7	62.0	57.4	55.8	57.4	60.5	58.9
55°	80.7	68.2	66.7	65.1	60.5	54.2	49.6	49.6	49.6	48.1	44.9
57.5°	77.5	60.5	58.9	57.4	52.7	46.5	43.4	40.3	38.8	34.1	32.6
60°	80.7	54.2	54.2	51.2	46.5	40.3	35.6	31.0	27.9	24.8	24.8
62.5°	65.1	49.6	48.1	44.9	38.8	32.6	27.9	23.3	21.7	20.2	20.2
65°	52.7	44.9	41.9	37.2	32.6	26.3	21.7	18.6	17.0	17.0	18.6
67.5°	48.1	40.3	35.6	31.0	26.3	20.2	17.0	15.5	15.5	17.0	17.0
69°	44.9	37.2	32.6	27.9	23.3	18.6	15.5	15.5	15.5	15.5	17.0
70°	41.9	35.6	31.0	26.3	20.2	15.5	14.0	14.0	15.5	15.5	17.0
72.5°	32.6	27.9	26.3	21.7	15.5	14.0	12.4	14.0	14.0	15.5	15.5
75°	24.8	20.2	20.2	17.0	12.4	10.9	10.9	12.4	12.4	14.0	14.0
77.5°	17.0	14.0	14.0	12.4	10.9	9.3	9.3	10.9	12.4	12.4	14.0
80°	12.4	10.9	9.3	10.9	9.3	7.7	9.3	10.9	10.9	12.4	12.4
82.5°	9.3	9.3	9.3	9.3	7.7	7.7	9.3	9.3	10.9	12.4	12.4
85°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	9.3	9.3	10.9	10.9
87.5°	4.7	4.7	4.7	6.2	6.2	7.7	7.7	7.7	7.7	9.3	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	714.7	714.7	714.7	714.7
2.5°	539.5	538.0	531.8	533.3
5°	378.3	369.0	375.2	373.7
7.5°	277.5	276.0	274.4	277.5
10°	237.2	237.2	235.6	237.2
12.5°	223.3	223.3	223.3	223.3
15°	212.4	212.4	210.9	210.9
17.5°	200.0	200.0	200.0	198.4
20°	187.6	186.0	186.0	186.0
22.5°	173.7	172.1	172.1	172.1
25°	159.7	158.1	158.1	158.1
27.5°	145.8	144.2	142.6	142.6
30°	131.8	130.2	128.7	128.7
32.5°	117.9	116.3	114.7	114.7
35°	105.4	105.4	103.9	102.3
37.5°	94.6	94.6	94.6	94.6
40°	86.8	88.4	88.4	88.4
42.5°	82.1	83.7	85.3	86.8
45°	79.1	82.1	83.7	83.7
47.5°	77.5	79.1	80.7	80.7
50°	71.3	69.8	69.8	69.8
52.5°	57.4	54.2	52.7	51.2
55°	41.9	40.3	37.2	37.2
57.5°	29.5	29.5	27.9	27.9
60°	23.3	23.3	21.7	23.3
62.5°	20.2	20.2	20.2	20.2
65°	18.6	18.6	18.6	18.6
67.5°	18.6	18.6	18.6	18.6
69°	17.0	17.0	17.0	17.0
70°	17.0	17.0	17.0	17.0
72.5°	15.5	15.5	15.5	15.5
75°	14.0	15.5	15.5	15.5
77.5°	14.0	14.0	14.0	14.0
80°	12.4	12.4	14.0	14.0
82.5°	12.4	12.4	12.4	12.4
85°	10.9	10.9	12.4	12.4
87.5°	9.3	9.3	10.9	10.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)