

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: McGRAW-EDISON

Report Number: P650691

Luminaire Tested: **GALN-SA1C-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4296.7 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

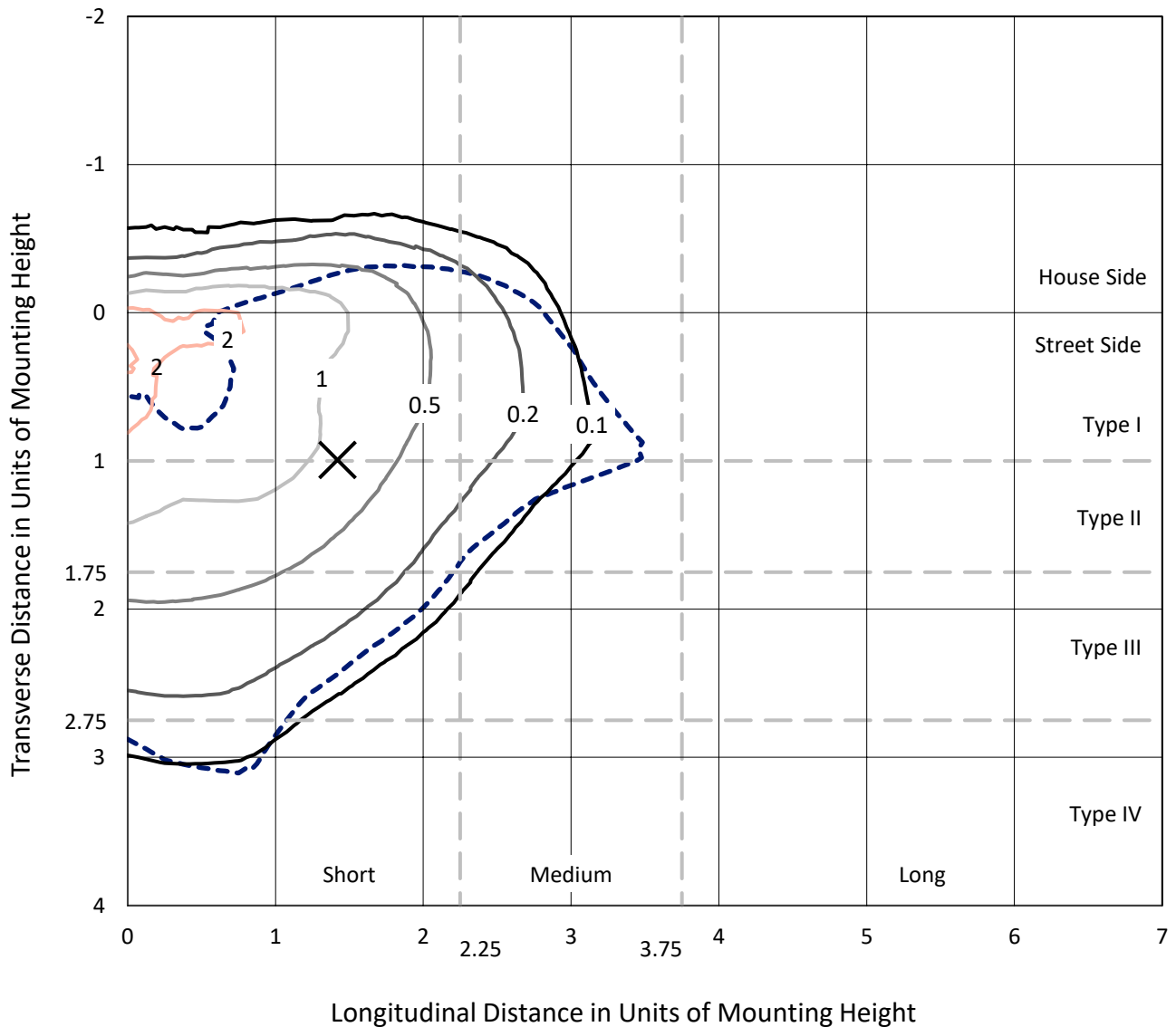
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

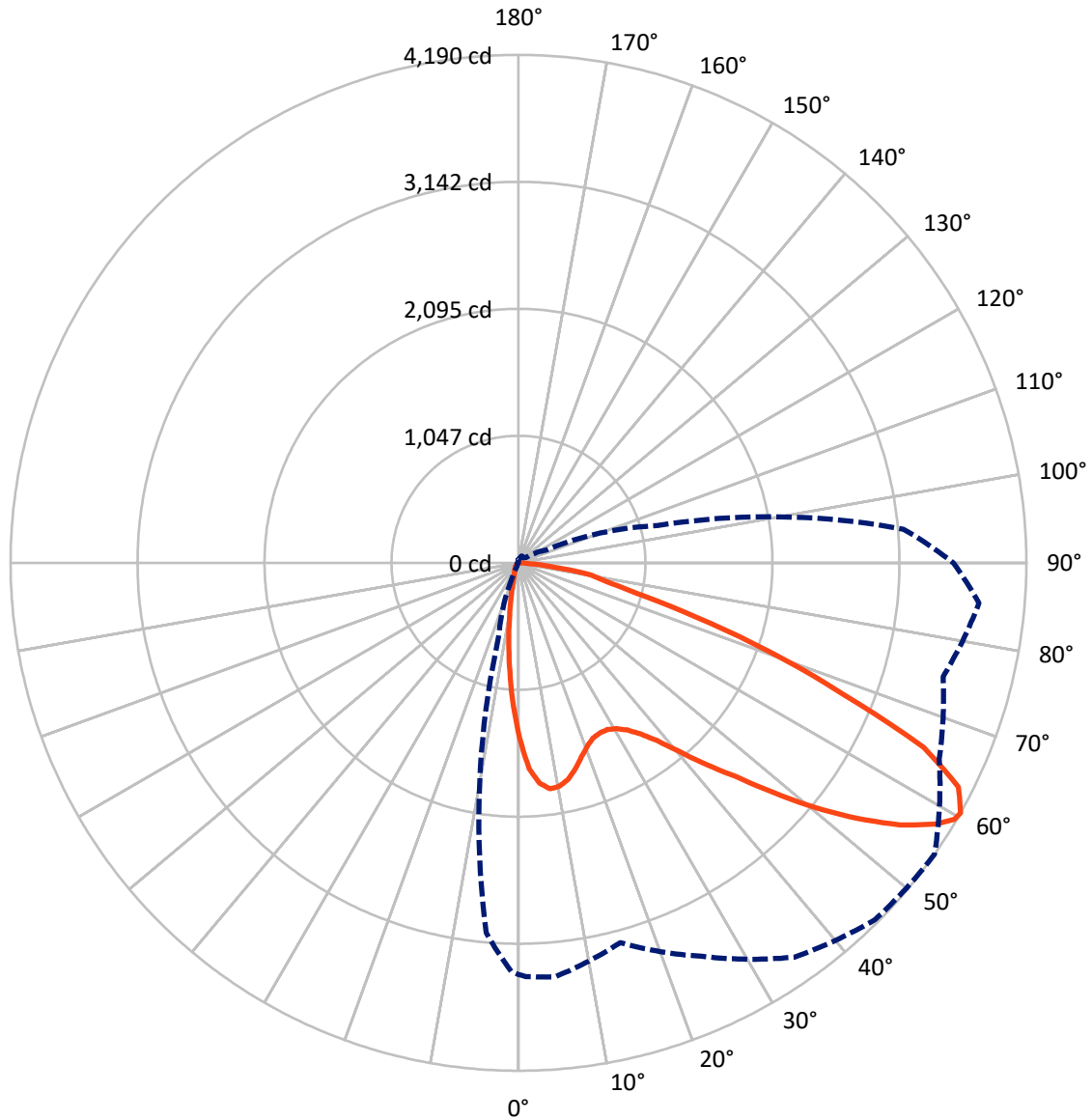
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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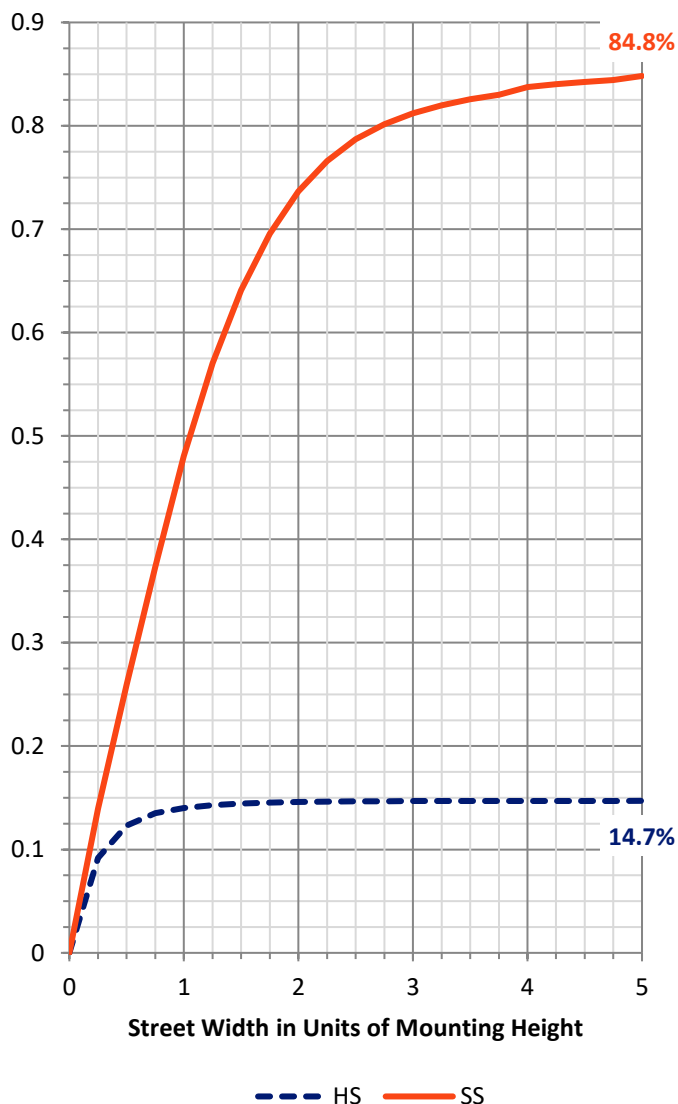
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.7	0.0	637.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3659.0	0.0	3659.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	4296.7	0.0	4296.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	2.5
10°-20°	212.2	4.9
20°-30°	314.0	7.3
30°-40°	468.1	10.9
40°-50°	685.5	16.0
50°-60°	989.7	23.0
60°-70°	1041.1	24.2
70°-80°	428.3	10.0
80°-90°	50.2	1.2
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°	4296.7	100.0
0°-180°	4296.7	100.0

Coefficient of Utilization

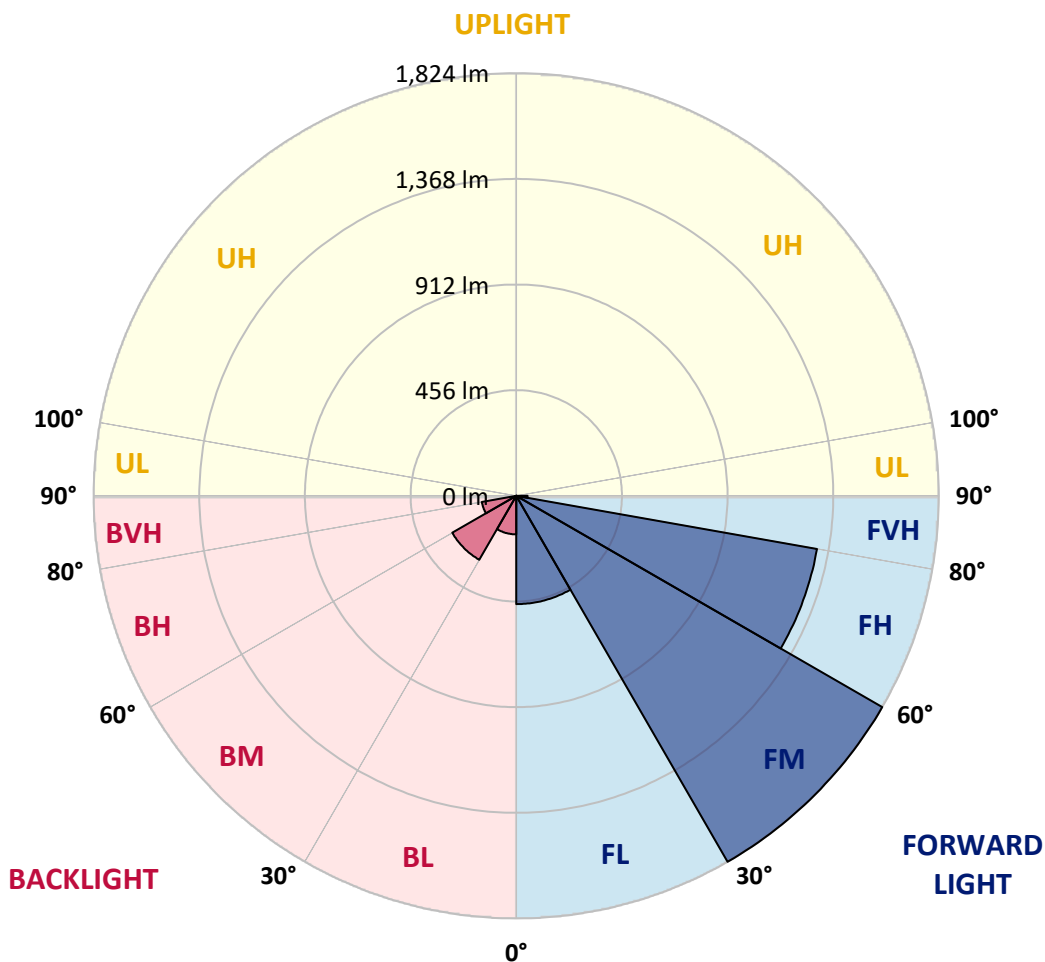


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	467.5	10.9			
FM (30°-60°)	1824.4	42.5			
FH (60°-80°)	1318.4	30.7			G1/1800
FVH (80°-90°)	48.7	1.1			G1/100
BL (0°-30°)	166.4	3.9	B1/500		
BM (30°-60°)	318.9	7.4	B1/1000		
BH (60°-80°)	150.9	3.5	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1589.4	1586.8	1610.3	1648.6	1687.3	1707.5	1703.5	1701.8	1669.8	1646.3	1597.1
5°	1586.1	1599.7	1641.7	1745.6	1824.3	1862.3	1873.5	1826.2	1763.7	1673.1	1561.3
7.5°	1491.3	1508.1	1576.5	1738.9	1878.8	1961.5	1958.5	1882.8	1753.8	1613.6	1454.2
10°	1373.5	1393.3	1473.7	1670.8	1852.4	1961.5	1967.4	1871.6	1711.2	1531.2	1363.6
12.5°	1290.4	1314.0	1403.0	1607.3	1784.3	1891.7	1898.6	1829.2	1679.1	1499.5	1314.3
15°	1262.3	1284.5	1374.8	1575.2	1711.8	1769.7	1768.0	1760.7	1666.5	1507.1	1316.9
17.5°	1310.6	1328.9	1430.7	1589.7	1644.0	1638.1	1646.7	1681.7	1669.1	1570.9	1400.3
20°	1435.3	1453.8	1563.3	1634.4	1592.1	1554.4	1558.4	1616.9	1693.6	1691.0	1530.5
22.5°	1607.0	1638.4	1737.6	1721.1	1585.1	1502.4	1494.2	1570.2	1735.3	1829.2	1706.6
25°	1824.3	1856.0	1933.4	1859.3	1619.2	1490.3	1482.6	1556.0	1785.9	1964.2	1904.6
27.5°	2006.8	2030.9	2108.1	1993.9	1669.5	1495.6	1482.9	1558.0	1826.9	2079.0	2071.6
30°	2153.0	2170.9	2216.1	2056.7	1712.8	1518.7	1504.1	1587.1	1845.1	2134.8	2206.9
32.5°	2270.7	2300.8	2315.0	2123.9	1775.0	1562.3	1537.5	1643.1	1889.4	2203.9	2348.7
35°	2405.3	2440.1	2421.8	2188.0	1857.0	1630.4	1600.0	1733.6	1956.5	2267.8	2513.5
37.5°	2576.0	2616.0	2544.9	2255.5	1943.6	1733.0	1718.8	1861.0	2058.4	2359.0	2690.1
40°	2752.6	2775.7	2664.3	2337.6	2050.1	1882.2	1895.7	2050.1	2191.6	2468.5	2877.9
42.5°	2890.5	2912.3	2787.0	2406.4	2158.9	2059.1	2115.6	2278.4	2344.5	2580.6	3018.2
45°	2996.0	3014.5	2872.0	2481.4	2305.8	2315.4	2422.2	2513.5	2497.6	2649.1	3126.3
47.5°	3078.0	3093.9	2937.4	2562.1	2525.7	2628.9	2792.3	2831.0	2656.4	2723.2	3224.2
50°	3111.8	3116.4	2958.0	2665.0	2775.4	3028.4	3198.7	3175.3	2838.2	2805.5	3328.3
52.5°	3155.8	3154.8	3016.5	2762.9	3010.2	3385.6	3555.6	3502.3	3043.9	2928.9	3445.4
55°	3271.2	3272.5	3141.8	2901.7	3210.3	3674.0	3855.9	3817.2	3260.9	3137.2	3582.1
57.5°	3411.3	3416.3	3320.1	3064.1	3401.4	3883.0	4080.1	4065.2	3554.2	3369.0	3711.0
59°	3429.6	3439.5	3404.5	3178.6	3514.9	3947.1	4156.8	4171.4	3711.3	3521.9	3780.8
60°	3396.5	3413.0	3428.9	3243.4	3581.4	3970.3	4161.4	4189.9	3829.4	3625.7	3812.6
62.5°	3252.3	3278.5	3358.1	3442.8	3664.4	3898.2	4013.6	4073.1	3975.6	3898.5	3815.5
65°	3063.4	3077.1	3192.1	3478.2	3503.4	3561.6	3597.2	3673.7	3800.0	4003.7	3679.0
67.5°	2753.9	2794.0	2934.8	3272.8	3028.1	2959.3	2950.4	2874.3	3202.4	3753.0	3342.3
70°	2275.0	2292.9	2466.5	2683.1	2285.2	2179.5	2221.8	2193.3	2482.4	3230.8	2690.1
72.5°	1720.4	1760.7	1930.4	2138.7	1555.0	1417.8	1534.6	1524.0	1864.6	2596.5	1848.1
75°	1224.0	1250.1	1466.5	1673.8	1089.1	922.7	964.7	1004.1	1301.7	2050.1	1092.0
77.5°	841.0	863.5	1025.9	1106.9	794.4	761.0	696.2	734.2	852.9	1216.4	594.3
80°	507.3	506.4	613.2	633.0	553.3	642.6	539.1	605.2	515.6	520.6	230.2
82.5°	329.4	326.1	375.0	408.8	307.9	323.8	217.3	313.2	336.0	145.2	72.7
85°	147.5	153.8	180.2	237.8	134.9	71.7	44.3	96.2	143.2	73.1	0.0
87.5°	15.2	11.9	31.8	57.9	18.5	2.0	6.6	3.3	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1574.3	1555.0	1497.8	1444.2	1398.2	1342.1	1305.7	1248.5	1213.7	1203.1	1204.8
5°	1511.0	1455.9	1347.0	1260.1	1163.1	1107.9	1023.9	943.2	899.5	883.4	876.1
7.5°	1378.7	1319.6	1188.2	1051.7	947.8	850.9	788.4	717.4	668.7	628.7	621.8
10°	1280.6	1202.8	1040.1	893.3	811.2	738.5	676.0	604.8	547.7	502.0	489.5
12.5°	1221.7	1134.7	953.1	830.1	752.4	677.7	596.3	513.9	455.4	406.1	383.3
15°	1211.1	1110.2	928.6	784.8	688.9	598.6	490.5	401.5	341.3	294.7	280.5
17.5°	1275.0	1154.2	925.0	737.5	605.9	477.9	365.4	291.7	223.9	197.8	187.5
20°	1388.7	1231.9	924.7	682.6	520.6	368.1	256.7	190.2	162.7	150.1	144.2
22.5°	1543.8	1337.8	942.3	635.3	431.9	271.6	183.3	151.5	135.6	125.3	123.0
25°	1733.3	1494.5	985.2	603.2	364.2	213.0	151.1	129.7	116.4	111.8	109.8
27.5°	1901.7	1644.7	1032.5	570.2	315.5	188.6	140.2	118.7	108.2	104.5	101.5
30°	2046.8	1780.9	1055.4	526.5	276.5	172.7	142.2	127.0	113.1	102.2	97.2
32.5°	2167.8	1885.4	1070.2	486.9	243.4	141.2	112.4	98.2	91.9	88.0	84.7
35°	2319.3	1998.6	1061.3	464.3	226.6	128.7	102.5	84.7	74.1	66.1	62.8
37.5°	2478.1	2111.7	1045.7	445.8	218.9	119.4	97.6	80.4	68.8	60.6	56.3
40°	2642.4	2216.5	1027.5	428.6	212.0	113.5	94.6	76.7	65.2	56.3	51.6
42.5°	2793.0	2318.7	1020.3	417.4	200.7	114.5	92.3	75.1	61.5	52.2	48.3
45°	2914.7	2415.6	1030.2	411.4	188.6	112.8	92.9	73.1	58.5	49.6	45.7
47.5°	3044.6	2552.5	1062.3	405.4	176.6	104.9	97.9	72.7	57.2	47.9	43.6
50°	3195.7	2727.8	1135.7	390.9	162.1	96.2	104.2	72.4	55.6	46.0	41.6
52.5°	3397.1	2926.8	1211.5	365.4	140.9	88.0	99.6	71.4	52.2	43.6	39.4
55°	3578.0	3136.6	1275.6	335.4	114.1	76.0	89.7	67.1	46.6	39.7	35.7
57.5°	3652.8	3254.9	1273.6	293.7	91.2	66.8	73.8	61.5	40.7	35.1	31.8
59°	3625.4	3240.0	1231.0	262.9	83.3	61.8	61.2	60.9	38.0	31.8	29.1
60°	3586.7	3185.8	1185.0	247.7	78.4	58.5	56.3	60.2	35.7	29.8	27.1
62.5°	3438.5	2960.9	1032.5	221.9	71.7	49.6	45.0	51.0	31.8	25.8	23.5
65°	3223.9	2615.3	874.1	214.6	69.8	41.0	37.3	36.4	27.1	21.9	19.8
67.5°	2805.2	2213.2	708.0	209.7	70.5	34.4	32.7	27.4	22.5	18.2	16.9
70°	2245.9	1725.7	579.8	204.0	71.1	28.1	27.4	21.9	18.2	15.2	13.9
72.5°	1364.5	1022.9	456.4	177.3	69.1	22.5	24.5	16.6	13.2	10.9	10.3
75°	843.7	700.1	283.1	137.9	45.7	16.6	17.2	10.3	8.9	7.0	7.0
77.5°	488.8	442.2	101.2	49.6	20.2	9.9	7.6	5.3	5.0	2.9	2.9
80°	202.8	162.4	35.1	16.9	10.9	4.6	1.7	0.3	0.0	0.0	0.0
82.5°	59.2	52.6	9.6	7.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1176.7	1165.8	1160.8	1177.7	1162.2	1182.0	1166.8	1173.4	1192.9	1201.5	1223.7
5°	880.7	869.4	864.2	889.6	888.3	900.9	899.5	911.1	921.1	898.9	921.7
7.5°	613.5	605.9	618.5	638.3	659.4	652.5	652.5	637.0	642.3	639.0	638.0
10°	466.7	440.5	433.9	433.3	441.2	442.9	433.9	412.4	420.3	422.7	436.6
12.5°	367.1	346.9	316.1	302.3	298.6	301.6	272.1	253.3	262.2	257.0	270.5
15°	263.2	246.7	228.5	213.0	208.7	202.8	170.6	148.2	145.5	146.5	148.9
17.5°	187.9	176.6	176.6	160.0	151.1	133.3	117.1	107.1	106.1	107.1	108.8
20°	138.6	132.6	132.0	127.7	117.7	105.8	94.6	92.6	91.9	93.6	94.3
22.5°	119.4	113.1	107.8	107.5	98.2	88.3	83.0	80.4	80.7	81.3	83.0
25°	106.8	100.2	94.6	91.2	84.7	77.7	72.7	71.4	71.4	72.4	72.7
27.5°	97.9	89.7	84.7	80.1	74.1	68.1	63.8	62.8	62.1	62.8	64.5
30°	91.6	83.3	77.0	70.1	65.5	59.9	56.3	54.9	54.6	54.9	56.3
32.5°	78.4	73.4	68.5	62.1	56.5	52.9	48.9	46.6	46.6	47.3	48.6
35°	59.2	56.5	56.3	54.6	50.0	46.0	41.4	39.0	39.0	40.4	41.0
37.5°	52.2	47.3	46.6	46.0	44.0	38.7	34.4	32.4	32.0	33.1	34.4
40°	47.6	42.0	39.0	38.3	38.7	32.7	28.1	26.2	26.2	26.5	27.8
42.5°	44.0	37.3	32.0	31.5	32.7	27.4	22.8	20.9	20.9	20.9	22.5
45°	41.0	33.4	27.1	23.8	25.8	22.5	18.5	16.6	15.9	16.6	17.2
47.5°	39.0	30.4	23.8	19.2	19.2	17.8	14.9	12.5	11.9	12.3	13.2
50°	37.3	27.8	20.2	15.6	13.9	14.2	11.3	9.6	8.9	8.9	9.9
52.5°	34.7	25.1	17.5	13.2	10.6	9.6	8.2	7.0	6.6	7.0	7.6
55°	31.5	22.8	15.2	10.9	8.2	6.6	6.0	5.0	4.6	5.0	6.0
57.5°	27.8	19.2	12.3	8.6	5.6	4.3	4.0	3.3	2.6	2.9	3.6
59°	25.5	17.2	10.6	7.0	4.3	2.9	2.9	2.4	1.7	2.0	2.9
60°	24.5	15.9	8.9	6.0	3.6	2.4	2.4	1.7	1.0	1.3	2.4
62.5°	20.9	13.2	7.0	3.6	1.7	0.3	1.0	0.3	0.0	0.3	1.0
65°	17.5	10.6	4.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	14.5	7.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8	1454.8
2.5°	1225.0	1272.3	1301.4	1356.3	1412.5	1455.9	1510.1	1558.7	1578.9	1589.4
5°	944.9	1010.7	1066.6	1150.2	1227.9	1322.6	1418.4	1531.5	1574.9	1586.1
7.5°	663.1	730.2	788.8	885.7	996.5	1123.2	1266.6	1410.2	1473.3	1491.3
10°	478.9	550.7	622.1	719.0	822.5	959.7	1109.3	1286.8	1359.6	1373.5
12.5°	302.3	379.4	495.4	615.1	724.6	835.0	991.5	1184.6	1265.0	1290.4
15°	175.3	232.8	320.5	476.6	615.8	761.9	932.7	1146.3	1236.3	1262.3
17.5°	117.4	137.3	197.5	316.8	500.7	694.5	917.8	1177.7	1277.2	1310.6
20°	98.9	107.8	129.0	193.2	385.6	634.3	921.7	1263.0	1393.6	1435.3
22.5°	87.0	95.3	108.8	138.9	269.2	559.6	940.6	1385.0	1553.7	1607.0
25°	76.7	85.0	96.9	115.0	180.9	473.2	982.0	1563.7	1765.7	1824.3
27.5°	68.1	75.8	86.0	101.5	139.3	377.0	1018.6	1737.6	1959.2	2006.8
30°	60.2	66.4	76.4	88.3	115.7	290.7	1037.1	1889.7	2100.1	2153.0
32.5°	52.2	58.2	67.8	77.4	95.3	221.6	1024.3	2001.5	2237.0	2270.7
35°	44.7	51.0	58.9	67.8	82.3	178.9	959.7	2127.2	2378.9	2405.3
37.5°	38.3	43.6	51.9	58.9	74.4	143.2	881.7	2240.3	2538.0	2576.0
40°	32.4	37.7	46.0	52.2	68.5	112.8	811.2	2366.0	2705.7	2752.6
42.5°	26.5	32.7	40.0	50.3	58.9	86.0	726.0	2467.8	2831.6	2890.5
45°	21.2	28.1	36.1	50.0	51.3	65.5	643.6	2547.2	2943.1	2996.0
47.5°	16.9	23.8	34.7	46.6	42.0	51.9	596.6	2630.2	3035.7	3078.0
50°	13.5	19.8	36.4	41.0	35.1	44.0	595.3	2722.8	3083.6	3111.8
52.5°	10.9	16.2	30.8	31.5	29.8	38.7	631.0	2827.0	3132.6	3155.8
55°	9.3	13.5	20.2	23.1	26.8	35.1	657.8	2987.4	3249.4	3271.2
57.5°	7.3	11.6	15.6	18.5	23.8	32.0	661.4	3111.1	3397.1	3411.3
59°	6.3	9.9	13.9	16.6	21.9	30.1	646.6	3118.7	3406.7	3429.6
60°	5.3	8.9	12.3	15.6	20.2	28.4	630.3	3063.4	3371.1	3396.5
62.5°	4.0	7.0	8.9	12.5	16.6	24.5	553.6	2870.7	3234.5	3252.3
65°	2.6	5.0	6.6	9.3	12.9	21.2	451.1	2620.6	3023.5	3063.4
67.5°	1.7	3.6	5.3	7.0	10.6	17.8	321.4	2247.2	2728.1	2753.9
70°	1.0	2.4	4.0	5.6	8.2	14.2	190.8	1776.3	2269.8	2275.0
72.5°	0.7	1.7	2.6	4.0	6.6	12.9	92.6	1157.9	1657.3	1720.4
75°	0.3	1.0	1.7	2.9	5.3	10.6	44.3	773.6	1205.8	1224.0
77.5°	0.0	0.3	1.0	2.0	4.0	8.2	25.8	508.0	822.2	841.0
80°	0.0	0.0	0.7	1.7	2.9	5.3	15.6	299.6	498.0	507.3
82.5°	0.0	0.0	0.3	1.3	2.0	4.0	7.9	131.6	326.1	329.4
85°	0.0	0.0	0.3	1.3	1.7	2.6	2.9	17.8	144.8	147.5
87.5°	0.0	0.0	0.3	1.7	1.7	1.7	1.7	1.0	12.3	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)