

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: P450492

Luminaire Tested: **GALN-SA1B-740-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450492
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-SA1B-740-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA 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: 4135 lumens
Efficiency: N/A
Efficacy: 94.0 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

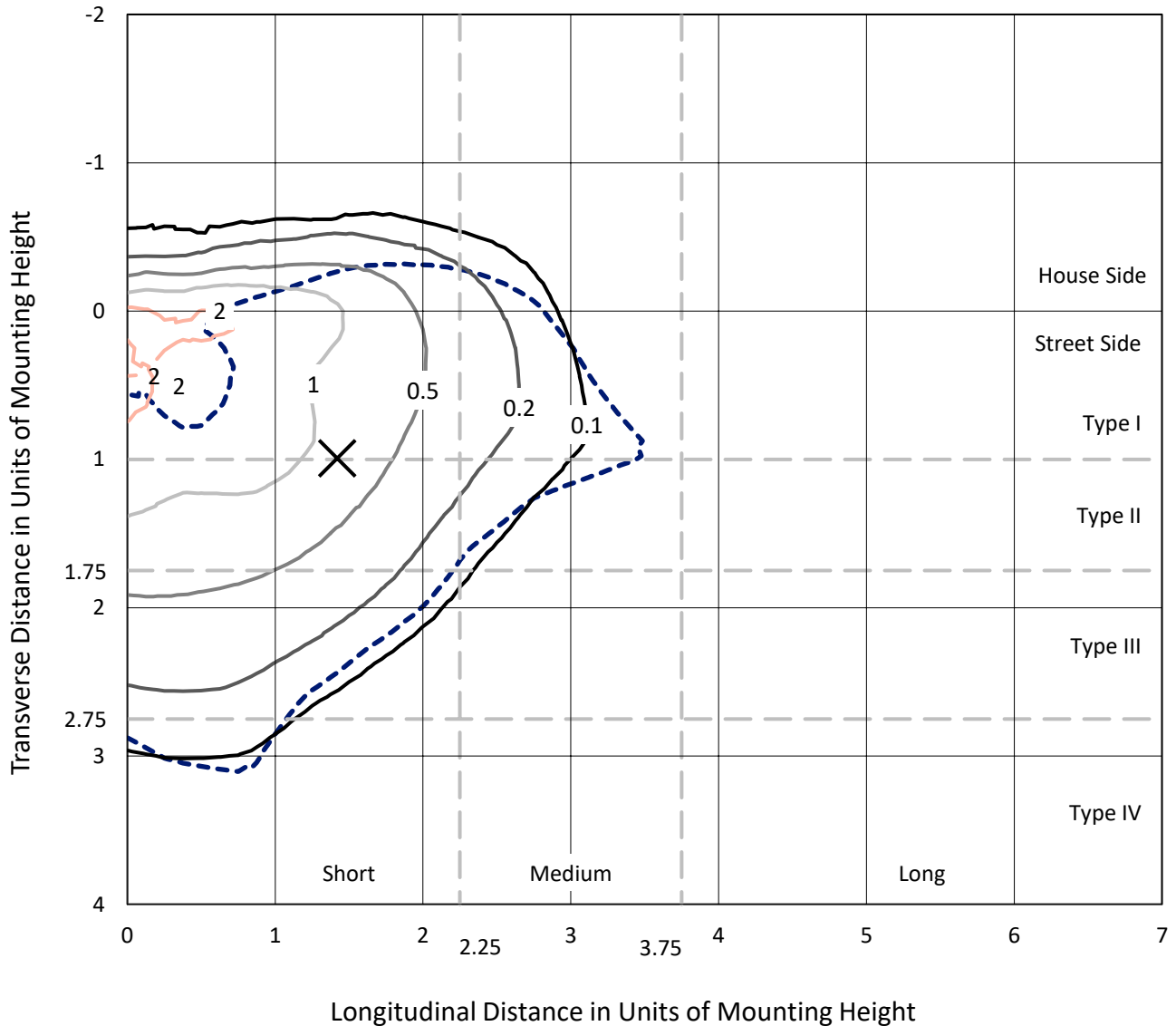
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

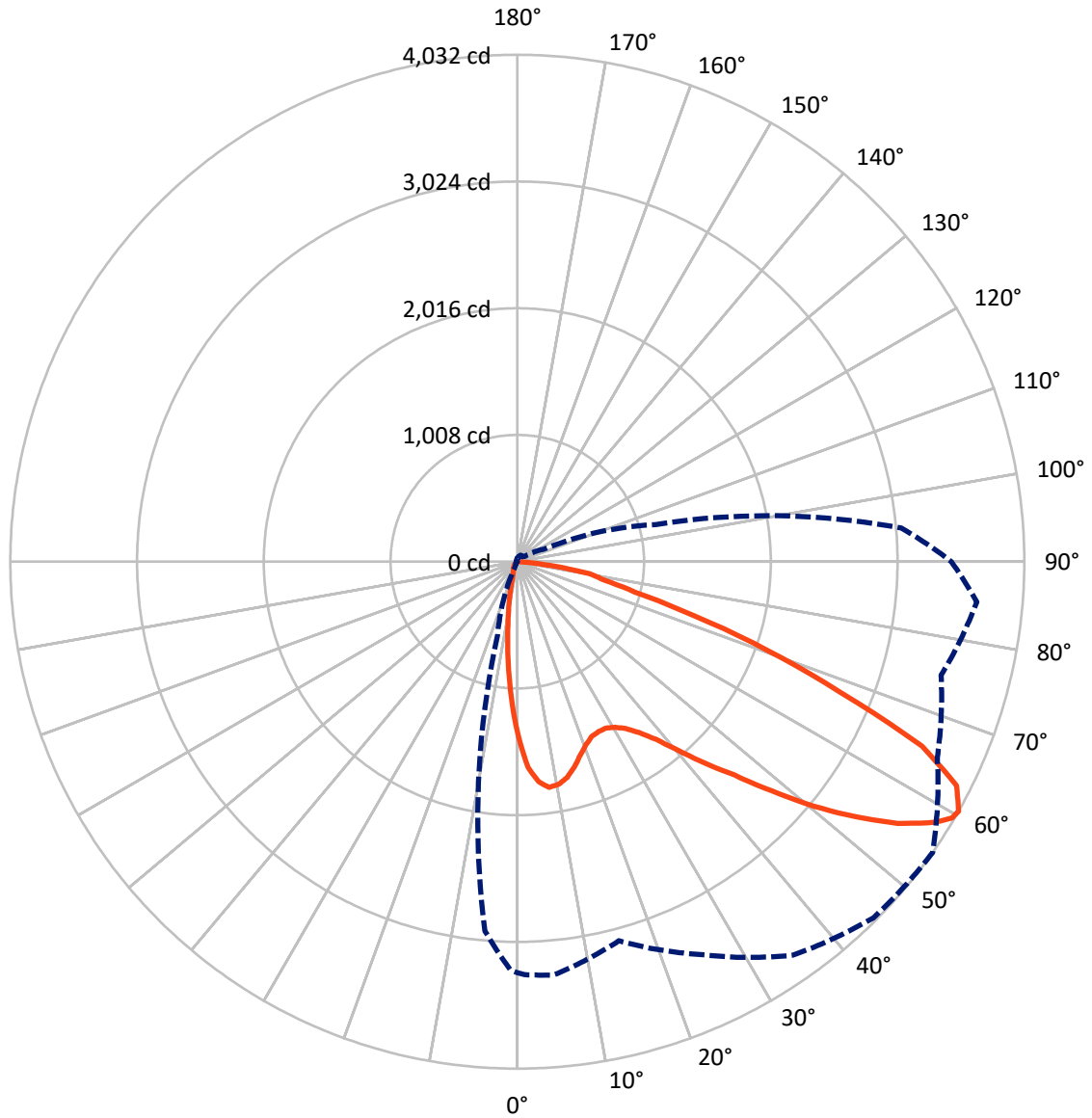
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	613.7	0.0	613.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3521.3	0.0	3521.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	4135.0	0.0	4135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	2.5
10°-20°	204.2	4.9
20°-30°	302.2	7.3
30°-40°	450.5	10.9
40°-50°	659.7	16.0
50°-60°	952.4	23.0
60°-70°	1001.9	24.2
70°-80°	412.1	10.0
80°-90°	48.3	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°	4135.0	100.0
0°-180°	4135.0	100.0

Coefficient of Utilization



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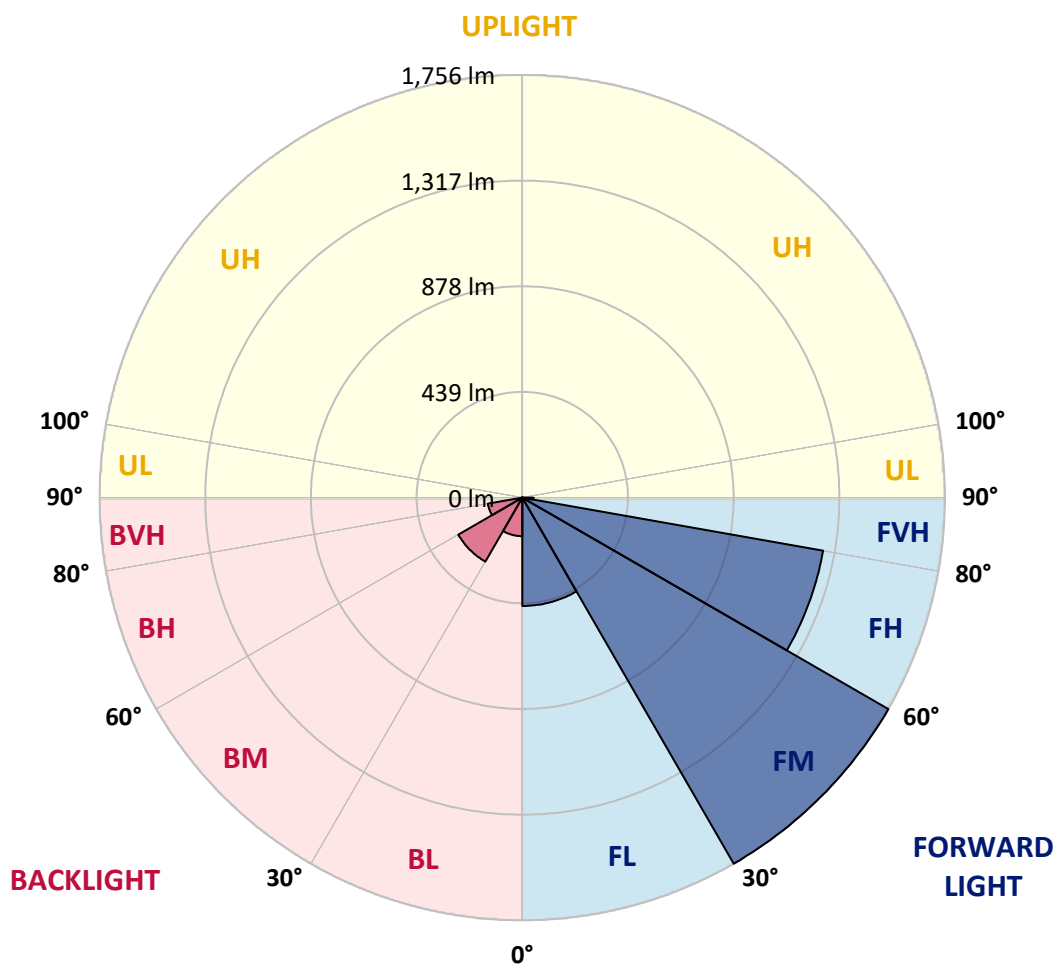
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.9	10.9			
FM (30°-60°)	1755.7	42.5			
FH (60°-80°)	1268.8	30.7			G1/1800
FVH (80°-90°)	46.9	1.1			G1/100
BL (0°-30°)	160.1	3.9	B1/500		
BM (30°-60°)	306.9	7.4	B1/1000		
BH (60°-80°)	145.3	3.5	B1/500		G1/500
BVH (80°-90°)	1.4	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°	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1
2.5°	1529.6	1527.1	1549.7	1586.6	1623.8	1643.3	1639.4	1637.9	1607.0	1584.4	1537.0
5°	1526.5	1539.5	1579.9	1679.9	1755.6	1792.2	1803.0	1757.5	1697.4	1610.2	1502.6
7.5°	1435.1	1451.3	1517.2	1673.5	1808.1	1887.7	1884.8	1811.9	1687.8	1552.9	1399.5
10°	1321.8	1340.9	1418.2	1607.9	1782.7	1887.7	1893.4	1801.1	1646.8	1473.6	1312.3
12.5°	1241.9	1264.5	1350.1	1546.8	1717.1	1820.5	1827.2	1760.4	1615.9	1443.1	1264.8
15°	1214.9	1236.2	1323.1	1516.0	1647.4	1703.1	1701.5	1694.5	1603.8	1450.4	1267.4
17.5°	1261.3	1278.8	1376.9	1530.0	1582.2	1576.4	1584.7	1618.4	1606.3	1511.8	1347.6
20°	1381.3	1399.1	1504.5	1572.9	1532.2	1495.9	1499.7	1556.1	1629.9	1627.3	1473.0
22.5°	1546.5	1576.7	1672.2	1656.3	1525.5	1445.9	1438.0	1511.2	1670.0	1760.4	1642.3
25°	1755.6	1786.2	1860.6	1789.4	1558.3	1434.2	1426.8	1497.5	1718.7	1890.2	1833.0
27.5°	1931.3	1954.5	2028.7	1918.9	1606.7	1439.2	1427.2	1499.4	1758.2	2000.7	1993.7
30°	2072.0	2089.2	2132.8	1979.4	1648.4	1461.5	1447.5	1527.4	1775.7	2054.5	2123.9
32.5°	2185.3	2214.3	2227.9	2044.0	1708.2	1503.5	1479.7	1581.2	1818.3	2121.0	2260.4
35°	2314.8	2348.2	2330.7	2105.7	1787.1	1569.1	1539.8	1668.4	1882.9	2182.4	2418.9
37.5°	2479.1	2517.6	2449.1	2170.6	1870.5	1667.8	1654.1	1790.9	1981.0	2270.3	2588.9
40°	2649.0	2671.3	2564.0	2249.6	1973.0	1811.3	1824.4	1973.0	2109.2	2375.6	2769.6
42.5°	2781.7	2802.7	2682.1	2315.8	2077.7	1981.6	2036.0	2192.6	2256.3	2483.5	2904.6
45°	2883.3	2901.1	2763.9	2388.0	2219.0	2228.3	2331.1	2418.9	2403.6	2549.4	3008.7
47.5°	2962.2	2977.5	2826.9	2465.7	2430.7	2530.0	2687.2	2724.4	2556.4	2620.7	3102.9
50°	2994.7	2999.1	2846.7	2564.7	2671.0	2914.5	3078.4	3055.8	2731.5	2699.9	3203.1
52.5°	3037.0	3036.0	2903.0	2658.9	2897.0	3258.2	3421.8	3370.6	2929.4	2818.7	3315.8
55°	3148.1	3149.3	3023.6	2792.6	3089.5	3535.7	3710.8	3673.6	3138.2	3019.2	3447.3
57.5°	3283.0	3287.8	3195.2	2948.8	3273.5	3736.9	3926.6	3912.3	3420.5	3242.3	3571.4
59°	3300.5	3310.1	3276.3	3059.0	3382.6	3798.6	4000.4	4014.4	3571.7	3389.3	3638.5
60°	3268.7	3284.6	3299.9	3121.3	3446.6	3820.9	4004.9	4032.2	3685.3	3489.3	3669.1
62.5°	3129.9	3155.1	3231.8	3313.3	3526.5	3751.5	3862.6	3919.9	3826.0	3751.8	3672.0
65°	2948.2	2961.2	3072.0	3347.3	3371.5	3427.5	3461.9	3535.4	3657.0	3853.1	3540.5
67.5°	2650.3	2688.8	2824.4	3149.7	2914.1	2847.9	2839.3	2766.1	3081.9	3611.8	3216.5
70°	2189.4	2206.6	2373.7	2582.2	2199.3	2097.4	2138.2	2110.8	2389.0	3109.2	2588.9
72.5°	1655.7	1694.5	1857.8	2058.3	1496.5	1364.5	1476.8	1466.6	1794.4	2498.8	1778.5
75°	1177.9	1203.1	1411.2	1610.8	1048.1	888.0	928.4	966.3	1252.7	1973.0	1050.9
77.5°	809.4	831.0	987.3	1065.3	764.5	732.4	670.0	706.6	820.8	1170.6	571.9
80°	488.2	487.3	590.1	609.2	532.5	618.4	518.8	582.4	496.2	501.0	221.5
82.5°	317.0	313.8	360.9	393.4	296.3	311.6	209.1	301.4	323.4	139.7	70.0
85°	142.0	148.0	173.5	228.8	129.9	69.1	42.6	92.6	137.8	70.3	0.0
87.5°	14.6	11.5	30.6	55.7	17.8	1.9	6.4	3.2	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°	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1
2.5°	1515.0	1496.5	1441.5	1389.9	1345.7	1291.6	1256.6	1201.5	1168.1	1157.9	1159.5
5°	1454.2	1401.1	1296.3	1212.6	1119.4	1066.2	985.4	907.7	865.7	850.1	843.1
7.5°	1326.9	1269.9	1143.6	1012.1	912.2	818.9	758.8	690.3	643.6	605.0	598.4
10°	1232.4	1157.6	1001.0	859.7	780.7	710.7	650.6	582.1	527.1	483.1	471.0
12.5°	1175.7	1092.0	917.3	798.9	724.1	652.1	573.9	494.6	438.3	390.8	368.9
15°	1165.5	1068.5	893.7	755.3	663.0	576.1	472.0	386.4	328.5	283.6	269.9
17.5°	1227.0	1110.8	890.2	709.8	583.1	459.9	351.7	280.7	215.5	190.3	180.5
20°	1336.4	1185.6	889.9	656.9	501.0	354.2	247.0	183.0	156.6	144.5	138.8
22.5°	1485.7	1287.4	906.8	611.4	415.7	261.3	176.3	145.8	130.5	120.6	118.4
25°	1668.1	1438.3	948.1	580.5	350.4	205.0	145.5	124.8	112.0	107.6	105.7
27.5°	1830.1	1582.8	993.7	548.7	303.6	181.4	134.9	114.3	104.1	100.6	97.7
30°	1969.8	1713.9	1015.6	506.7	266.1	166.1	136.9	122.2	108.9	98.3	93.6
32.5°	2086.3	1814.5	1029.9	468.5	234.3	135.9	108.2	94.5	88.5	84.7	81.5
35°	2232.1	1923.3	1021.4	446.9	218.0	123.8	98.7	81.5	71.3	63.7	60.5
37.5°	2384.8	2032.2	1006.4	429.0	210.7	114.9	93.9	77.3	66.2	58.2	54.1
40°	2543.0	2133.1	988.9	412.5	204.0	109.2	91.0	73.8	62.7	54.1	49.7
42.5°	2687.8	2231.4	981.9	401.7	193.2	110.1	88.8	72.2	59.2	50.3	46.5
45°	2805.0	2324.7	991.4	395.9	181.4	108.5	89.4	70.3	56.3	47.7	43.9
47.5°	2930.1	2456.5	1022.3	390.2	170.0	100.9	94.2	70.0	55.1	46.2	42.0
50°	3075.5	2625.1	1093.0	376.2	156.0	92.6	100.3	69.7	53.5	44.2	40.1
52.5°	3269.3	2816.7	1165.8	351.7	135.6	84.7	95.8	68.7	50.3	42.0	37.9
55°	3443.4	3018.5	1227.6	322.7	109.8	73.2	86.3	64.6	44.9	38.2	34.4
57.5°	3515.4	3132.5	1225.7	282.6	87.8	64.3	71.0	59.2	39.1	33.7	30.6
59°	3489.0	3118.2	1184.6	253.0	80.2	59.5	58.9	58.6	36.6	30.6	28.0
60°	3451.7	3066.0	1140.4	238.4	75.4	56.3	54.1	57.9	34.4	28.6	26.1
62.5°	3309.1	2849.5	993.7	213.6	69.1	47.7	43.3	49.0	30.6	24.8	22.6
65°	3102.6	2516.9	841.2	206.6	67.2	39.5	36.0	35.0	26.1	21.0	19.1
67.5°	2699.6	2129.9	681.4	201.8	67.8	33.1	31.5	26.4	21.6	17.5	16.2
70°	2161.4	1660.8	557.9	196.4	68.4	27.1	26.4	21.0	17.5	14.6	13.4
72.5°	1313.2	984.4	439.2	170.6	66.5	21.6	23.6	15.9	12.7	10.5	9.9
75°	811.9	673.8	272.4	132.7	43.9	15.9	16.6	9.9	8.6	6.7	6.7
77.5°	470.4	425.5	97.4	47.7	19.4	9.5	7.3	5.1	4.8	2.9	2.9
80°	195.1	156.3	33.7	16.2	10.5	4.5	1.6	0.3	0.0	0.0	0.0
82.5°	57.0	50.6	9.2	7.3	3.2	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°	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1
2.5°	1132.4	1121.9	1117.2	1133.4	1118.4	1137.5	1122.9	1129.2	1148.0	1156.3	1177.6
5°	847.6	836.7	831.7	856.2	854.9	867.0	865.7	876.9	886.4	865.1	887.0
7.5°	590.4	583.1	595.2	614.3	634.6	628.0	628.0	613.0	618.1	614.9	614.0
10°	449.1	423.9	417.6	416.9	424.6	426.2	417.6	396.9	404.5	406.8	420.1
12.5°	353.3	333.9	304.3	290.9	287.4	290.3	261.9	243.8	252.4	247.3	260.4
15°	253.3	237.4	219.9	205.0	200.8	195.1	164.2	142.6	140.0	141.0	143.2
17.5°	180.8	170.0	170.0	154.0	145.5	128.3	112.7	103.1	102.2	103.1	104.7
20°	133.4	127.6	127.0	122.9	113.3	101.8	91.0	89.1	88.5	90.1	90.7
22.5°	114.9	108.9	103.8	103.4	94.5	85.0	79.9	77.3	77.7	78.3	79.9
25°	102.8	96.4	91.0	87.8	81.5	74.8	70.0	68.7	68.7	69.7	70.0
27.5°	94.2	86.3	81.5	77.0	71.3	65.6	61.4	60.5	59.8	60.5	62.1
30°	88.2	80.2	74.2	67.5	63.0	57.6	54.1	52.8	52.5	52.8	54.1
32.5°	75.4	70.7	65.9	59.8	54.4	50.9	47.1	44.9	44.9	45.5	46.8
35°	57.0	54.4	54.1	52.5	48.1	44.2	39.8	37.6	37.6	38.8	39.5
37.5°	50.3	45.5	44.9	44.2	42.3	37.2	33.1	31.2	30.9	31.8	33.1
40°	45.8	40.4	37.6	36.9	37.2	31.5	27.1	25.1	25.1	25.5	26.7
42.5°	42.3	36.0	30.9	30.2	31.5	26.4	22.0	20.1	20.1	20.1	21.6
45°	39.5	32.1	26.1	22.9	24.8	21.6	17.8	15.9	15.3	15.9	16.6
47.5°	37.6	29.3	22.9	18.5	18.5	17.2	14.3	12.1	11.5	11.8	12.7
50°	36.0	26.7	19.4	15.0	13.4	13.7	10.8	9.2	8.6	8.6	9.5
52.5°	33.4	24.2	16.9	12.7	10.2	9.2	8.0	6.7	6.4	6.7	7.3
55°	30.2	22.0	14.6	10.5	8.0	6.4	5.7	4.8	4.5	4.8	5.7
57.5°	26.7	18.5	11.8	8.3	5.4	4.1	3.8	3.2	2.5	2.9	3.5
59°	24.5	16.6	10.2	6.7	4.1	2.9	2.9	2.2	1.6	1.9	2.9
60°	23.6	15.3	8.6	5.7	3.5	2.2	2.2	1.6	1.0	1.3	2.2
62.5°	20.1	12.7	6.7	3.5	1.6	0.3	1.0	0.3	0.0	0.3	1.0
65°	16.9	10.2	4.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	14.0	7.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	11.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	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°	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1	1400.1
2.5°	1178.9	1224.4	1252.4	1305.3	1359.4	1401.1	1453.3	1500.0	1519.5	1529.6
5°	909.3	972.7	1026.4	1107.0	1181.8	1272.8	1365.1	1473.9	1515.6	1526.5
7.5°	638.1	702.8	759.1	852.3	959.0	1080.9	1219.0	1357.1	1417.9	1435.1
10°	460.9	529.9	598.7	691.9	791.6	923.6	1067.5	1238.4	1308.4	1321.8
12.5°	290.9	365.1	476.8	592.0	697.3	803.6	954.2	1140.1	1217.4	1241.9
15°	168.7	224.1	308.4	458.6	592.6	733.3	897.5	1103.1	1189.7	1214.9
17.5°	113.0	132.1	190.0	304.9	481.9	668.4	883.2	1133.4	1229.2	1261.3
20°	95.2	103.8	124.1	185.9	371.1	610.5	887.0	1215.5	1341.2	1381.3
22.5°	83.7	91.7	104.7	133.7	259.1	538.5	905.2	1332.9	1495.3	1546.5
25°	73.8	81.8	93.3	110.8	174.1	455.5	945.0	1504.8	1699.3	1755.6
27.5°	65.6	72.9	82.8	97.7	134.0	362.8	980.3	1672.2	1885.5	1931.3
30°	57.9	64.0	73.5	85.0	111.4	279.8	998.1	1818.6	2021.1	2072.0
32.5°	50.3	56.0	65.2	74.5	91.7	213.2	985.7	1926.2	2152.8	2185.3
35°	43.0	49.0	56.7	65.2	79.3	172.2	923.6	2047.2	2289.4	2314.8
37.5°	36.9	42.0	50.0	56.7	71.6	137.8	848.5	2156.0	2442.5	2479.1
40°	31.2	36.3	44.2	50.3	65.9	108.5	780.7	2277.0	2603.8	2649.0
42.5°	25.5	31.5	38.5	48.4	56.7	82.8	698.6	2375.0	2725.1	2781.7
45°	20.4	27.1	34.7	48.1	49.3	63.0	619.4	2451.4	2832.3	2883.3
47.5°	16.2	22.9	33.4	44.9	40.4	50.0	574.2	2531.3	2921.5	2962.2
50°	13.0	19.1	35.0	39.5	33.7	42.3	572.9	2620.4	2967.6	2994.7
52.5°	10.5	15.6	29.6	30.2	28.6	37.2	607.3	2720.6	3014.7	3037.0
55°	8.9	13.0	19.4	22.3	25.8	33.7	633.1	2875.0	3127.1	3148.1
57.5°	7.0	11.1	15.0	17.8	22.9	30.9	636.6	2994.0	3269.3	3283.0
59°	6.0	9.5	13.4	15.9	21.0	29.0	622.2	3001.4	3278.6	3300.5
60°	5.1	8.6	11.8	15.0	19.4	27.4	606.6	2948.2	3244.2	3268.7
62.5°	3.8	6.7	8.6	12.1	15.9	23.6	532.8	2762.6	3112.7	3129.9
65°	2.5	4.8	6.4	8.9	12.4	20.4	434.1	2522.0	2909.7	2948.2
67.5°	1.6	3.5	5.1	6.7	10.2	17.2	309.4	2162.7	2625.5	2650.3
70°	1.0	2.2	3.8	5.4	8.0	13.7	183.6	1709.5	2184.3	2189.4
72.5°	0.6	1.6	2.5	3.8	6.4	12.4	89.1	1114.3	1594.9	1655.7
75°	0.3	1.0	1.6	2.9	5.1	10.2	42.6	744.4	1160.4	1177.9
77.5°	0.0	0.3	1.0	1.9	3.8	8.0	24.8	488.9	791.2	809.4
80°	0.0	0.0	0.6	1.6	2.9	5.1	15.0	288.4	479.3	488.2
82.5°	0.0	0.0	0.3	1.3	1.9	3.8	7.6	126.7	313.8	317.0
85°	0.0	0.0	0.3	1.3	1.6	2.5	2.9	17.2	139.4	142.0
87.5°	0.0	0.0	0.3	1.6	1.6	1.6	1.6	1.0	11.8	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)