

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: P450811

Luminaire Tested: **GALN-SA1C-827-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450811
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 3756 lumens
Efficiency: N/A
Efficacy: 65.9 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

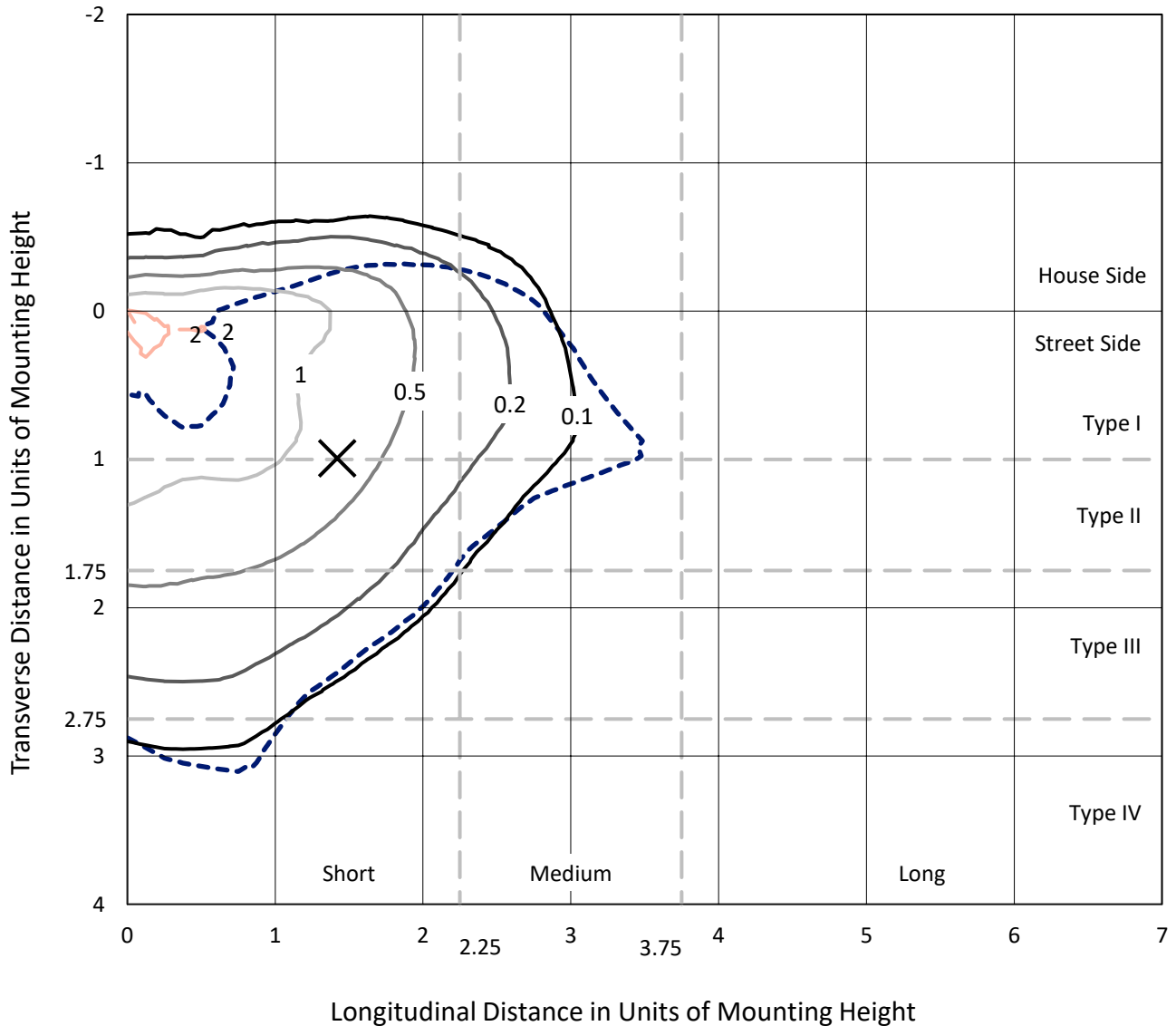
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

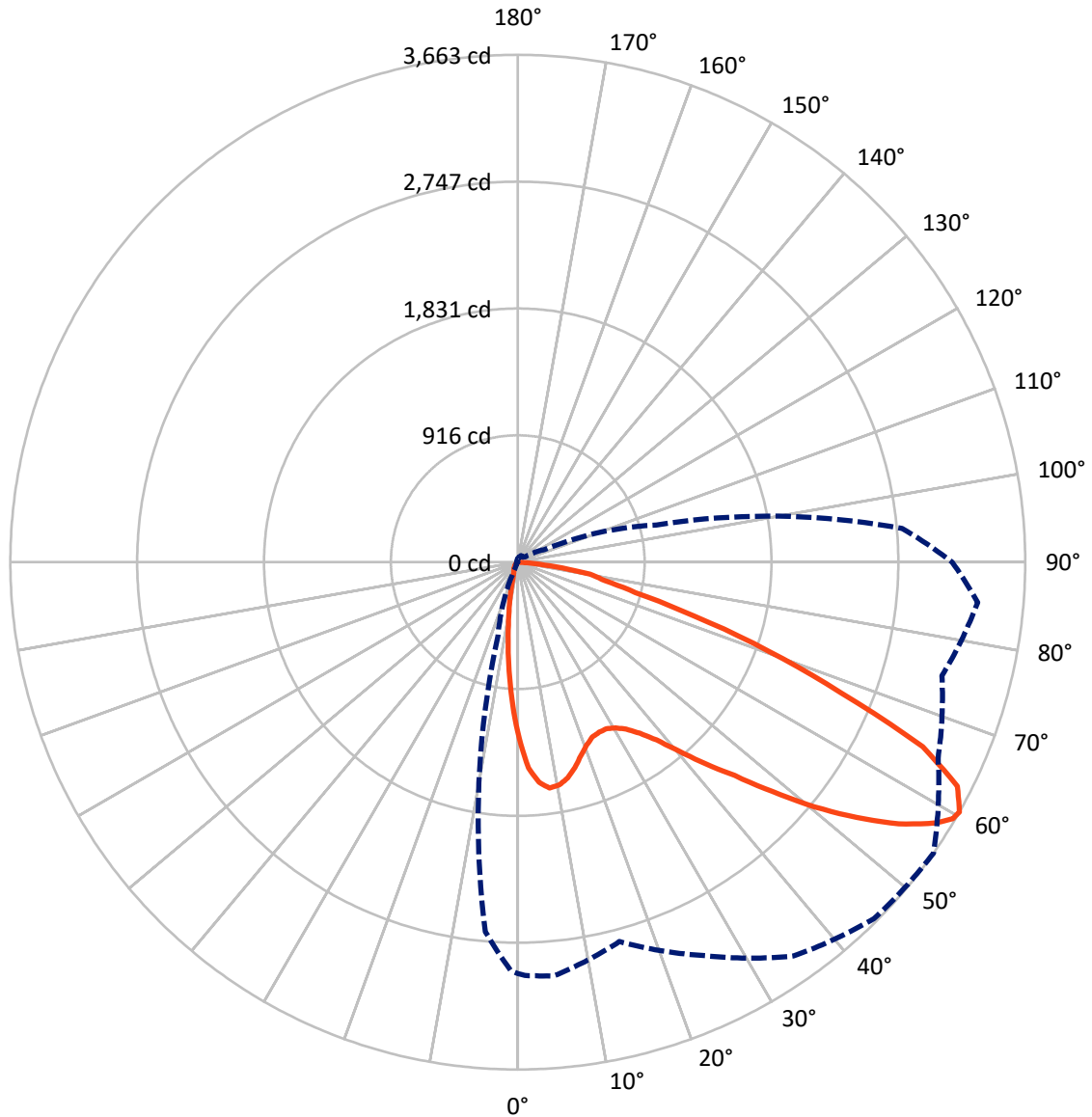
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	557.4	0.0	557.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3198.6	0.0	3198.6
	% Fixture	85.2	0.0	85.2
Total	Lumens	3756.0	0.0	3756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	2.5
10°-20°	185.5	4.9
20°-30°	274.5	7.3
30°-40°	409.2	10.9
40°-50°	599.3	16.0
50°-60°	865.1	23.0
60°-70°	910.1	24.2
70°-80°	374.4	10.0
80°-90°	43.8	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°	3756.0	100.0
0°-180°	3756.0	100.0

Coefficient of Utilization



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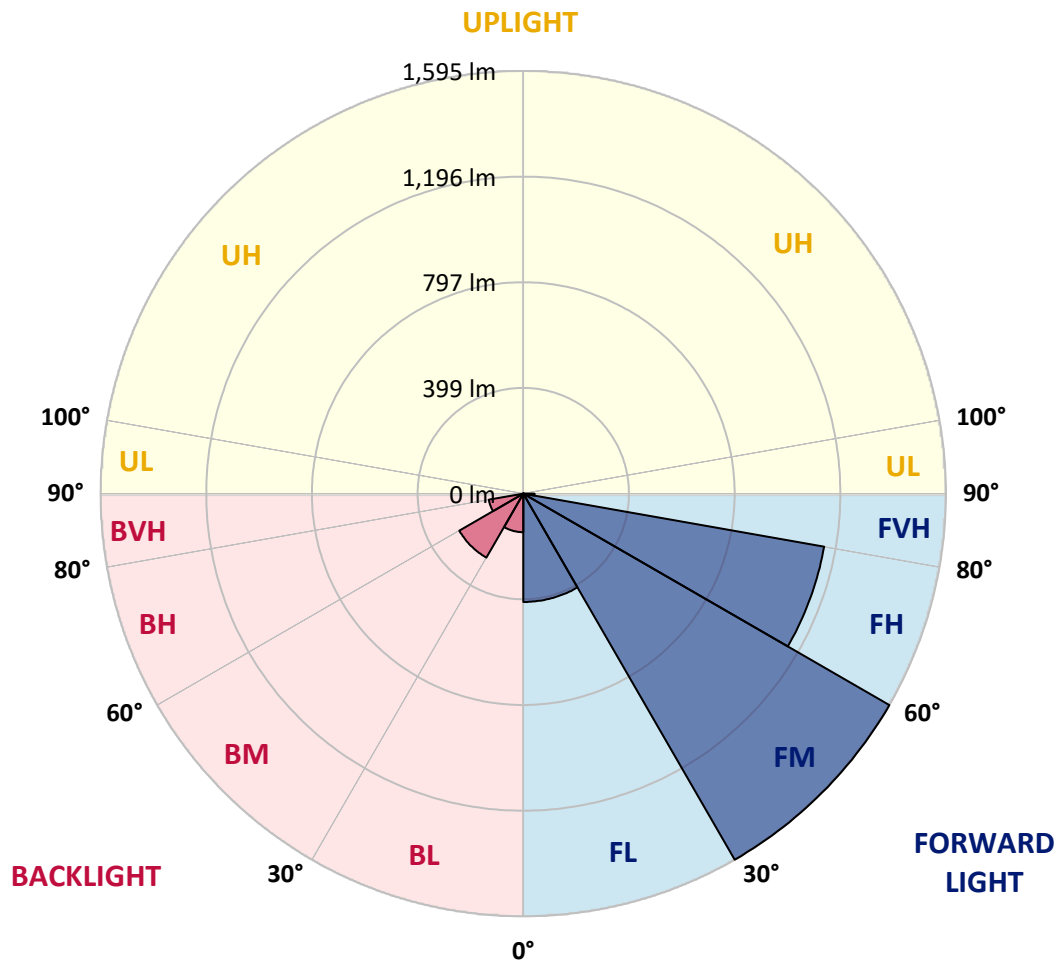
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	408.7	10.9			
FM (30°-60°)	1594.8	42.5			
FH (60°-80°)	1152.5	30.7			G1/1800
FVH (80°-90°)	42.6	1.1			G1/100
BL (0°-30°)	145.4	3.9	B1/500		
BM (30°-60°)	278.8	7.4	B1/1000		
BH (60°-80°)	131.9	3.5	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8
2.5°	1389.4	1387.1	1407.7	1441.2	1475.0	1492.6	1489.2	1487.7	1459.7	1439.2	1396.1
5°	1386.5	1398.4	1435.1	1525.9	1594.7	1627.9	1637.8	1596.4	1541.8	1462.6	1364.9
7.5°	1303.6	1318.3	1378.2	1520.1	1642.4	1714.7	1712.1	1645.9	1533.1	1410.5	1271.2
10°	1200.7	1218.0	1288.3	1460.6	1619.3	1714.7	1719.9	1636.0	1495.8	1338.6	1192.0
12.5°	1128.1	1148.6	1226.4	1405.0	1559.7	1653.7	1659.7	1599.0	1467.8	1310.8	1148.9
15°	1103.5	1122.9	1201.8	1377.0	1496.4	1547.0	1545.6	1539.2	1456.8	1317.4	1151.2
17.5°	1145.7	1161.6	1250.7	1389.7	1437.1	1431.9	1439.5	1470.1	1459.1	1373.2	1224.1
20°	1254.7	1270.9	1366.6	1428.8	1391.7	1358.8	1362.3	1413.4	1480.5	1478.2	1338.0
22.5°	1404.8	1432.2	1519.0	1504.5	1385.7	1313.4	1306.2	1372.7	1516.9	1599.0	1491.8
25°	1594.7	1622.5	1690.1	1625.3	1415.5	1302.7	1296.1	1360.2	1561.2	1717.0	1665.0
27.5°	1754.3	1775.4	1842.8	1743.0	1459.4	1307.3	1296.3	1362.0	1597.0	1817.3	1811.0
30°	1882.1	1897.7	1937.3	1797.9	1497.3	1327.6	1314.8	1387.4	1612.9	1866.2	1929.2
32.5°	1985.0	2011.3	2023.7	1856.6	1551.6	1365.7	1344.0	1436.3	1651.7	1926.6	2053.2
35°	2102.7	2133.0	2117.1	1912.7	1623.3	1425.3	1398.7	1515.5	1710.3	1982.4	2197.2
37.5°	2251.8	2286.8	2224.7	1971.7	1699.1	1514.9	1502.5	1626.8	1799.4	2062.2	2351.6
40°	2406.2	2426.5	2329.0	2043.4	1792.2	1645.3	1657.1	1792.2	1915.9	2157.9	2515.8
42.5°	2526.8	2545.9	2436.3	2103.5	1887.3	1800.0	1849.4	1991.6	2049.5	2255.9	2638.4
45°	2619.0	2635.2	2510.6	2169.2	2015.6	2024.0	2117.4	2197.2	2183.3	2315.7	2732.9
47.5°	2690.7	2704.6	2567.8	2239.7	2207.9	2298.1	2440.9	2474.7	2322.1	2380.5	2818.5
50°	2720.2	2724.2	2585.8	2329.6	2426.2	2647.3	2796.2	2775.7	2481.1	2452.5	2909.5
52.5°	2758.6	2757.8	2636.9	2415.2	2631.4	2959.6	3108.2	3061.6	2660.9	2560.3	3011.9
55°	2859.5	2860.7	2746.5	2536.6	2806.3	3211.7	3370.7	3336.8	2850.6	2742.4	3131.3
57.5°	2982.1	2986.5	2902.3	2678.6	2973.4	3394.4	3566.7	3553.7	3107.0	2945.1	3244.0
59°	2998.0	3006.7	2976.0	2778.6	3072.6	3450.5	3633.8	3646.5	3244.3	3078.7	3305.0
60°	2969.1	2983.6	2997.4	2835.2	3130.7	3470.7	3637.8	3662.7	3347.5	3169.5	3332.8
62.5°	2843.1	2865.9	2935.6	3009.6	3203.3	3407.7	3508.6	3560.6	3475.3	3408.0	3335.4
65°	2678.0	2689.8	2790.4	3040.5	3062.5	3113.4	3144.6	3211.4	3321.8	3499.9	3216.0
67.5°	2407.4	2442.4	2565.5	2861.0	2647.0	2586.9	2579.1	2512.6	2799.4	3280.8	2921.7
70°	1988.8	2004.4	2156.1	2345.5	1997.7	1905.2	1942.2	1917.3	2170.0	2824.3	2351.6
72.5°	1503.9	1539.2	1687.5	1869.6	1359.4	1239.4	1341.4	1332.2	1630.0	2269.8	1615.5
75°	1070.0	1092.8	1281.9	1463.2	952.0	806.6	843.3	877.7	1137.9	1792.2	954.6
77.5°	735.2	754.9	896.8	967.6	694.4	665.2	608.6	641.8	745.6	1063.3	519.5
80°	443.5	442.6	536.0	553.3	483.7	561.7	471.2	529.1	450.7	455.1	201.2
82.5°	287.9	285.1	327.8	357.3	269.2	283.0	189.9	273.8	293.7	126.9	63.6
85°	128.9	134.4	157.6	207.9	118.0	62.7	38.7	84.1	125.2	63.9	0.0
87.5°	13.3	10.4	27.8	50.6	16.2	1.7	5.8	2.9	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°	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8
2.5°	1376.1	1359.4	1309.4	1262.5	1222.3	1173.2	1141.4	1091.4	1061.0	1051.8	1053.2
5°	1320.9	1272.6	1177.5	1101.5	1016.8	968.5	895.1	824.5	786.4	772.2	765.8
7.5°	1205.3	1153.5	1038.8	919.4	828.6	743.9	689.2	627.1	584.6	549.6	543.5
10°	1119.4	1051.5	909.2	780.9	709.2	645.6	590.9	528.8	478.8	438.9	427.9
12.5°	1068.0	991.9	833.2	725.7	657.7	592.4	521.3	449.3	398.1	355.0	335.1
15°	1058.7	970.5	811.8	686.0	602.2	523.3	428.7	351.0	298.4	257.6	245.2
17.5°	1114.5	1009.0	808.6	644.7	529.6	417.8	319.5	255.0	195.7	172.9	163.9
20°	1214.0	1076.9	808.3	596.7	455.1	321.8	224.3	166.2	142.2	131.3	126.0
22.5°	1349.5	1169.4	823.7	555.4	377.6	237.4	160.2	132.4	118.5	109.6	107.5
25°	1515.2	1306.5	861.2	527.3	318.3	186.2	132.1	113.3	101.8	97.7	96.0
27.5°	1662.4	1437.7	902.6	498.4	275.8	164.8	122.6	103.8	94.5	91.4	88.8
30°	1789.3	1556.8	922.5	460.3	241.7	150.9	124.3	111.0	98.9	89.3	85.0
32.5°	1895.1	1648.2	935.5	425.6	212.8	123.4	98.3	85.9	80.4	76.9	74.0
35°	2027.5	1747.1	927.7	405.9	198.0	112.5	89.6	74.0	64.8	57.8	54.9
37.5°	2166.3	1845.9	914.1	389.7	191.4	104.4	85.3	70.3	60.1	52.9	49.1
40°	2309.9	1937.6	898.2	374.7	185.3	99.2	82.7	67.1	57.0	49.1	45.1
42.5°	2441.5	2026.9	891.9	364.9	175.5	100.0	80.7	65.6	53.8	45.7	42.2
45°	2547.9	2111.6	900.6	359.6	164.8	98.6	81.2	63.9	51.2	43.4	39.9
47.5°	2661.5	2231.3	928.6	354.4	154.4	91.6	85.6	63.6	50.0	41.9	38.2
50°	2793.6	2384.5	992.8	341.7	141.7	84.1	91.1	63.3	48.6	40.2	36.4
52.5°	2969.7	2558.6	1059.0	319.5	123.2	76.9	87.0	62.4	45.7	38.2	34.4
55°	3127.8	2741.9	1115.1	293.2	99.7	66.5	78.3	58.7	40.8	34.7	31.2
57.5°	3193.2	2845.4	1113.3	256.7	79.8	58.4	64.5	53.8	35.6	30.6	27.8
59°	3169.2	2832.4	1076.0	229.8	72.9	54.1	53.5	53.2	33.2	27.8	25.4
60°	3135.3	2784.9	1035.9	216.5	68.5	51.2	49.1	52.6	31.2	26.0	23.7
62.5°	3005.8	2588.4	902.6	194.0	62.7	43.4	39.3	44.5	27.8	22.6	20.5
65°	2818.2	2286.2	764.1	187.6	61.0	35.8	32.7	31.8	23.7	19.1	17.3
67.5°	2452.2	1934.7	619.0	183.3	61.6	30.1	28.6	24.0	19.7	15.9	14.7
70°	1963.3	1508.5	506.8	178.4	62.2	24.6	24.0	19.1	15.9	13.3	12.1
72.5°	1192.8	894.2	399.0	155.0	60.4	19.7	21.4	14.5	11.6	9.5	9.0
75°	737.5	612.0	247.5	120.6	39.9	14.5	15.0	9.0	7.8	6.1	6.1
77.5°	427.3	386.5	88.5	43.4	17.6	8.7	6.6	4.6	4.3	2.6	2.6
80°	177.2	142.0	30.6	14.7	9.5	4.0	1.4	0.3	0.0	0.0	0.0
82.5°	51.7	46.0	8.4	6.6	2.9	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°	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8
2.5°	1028.6	1019.1	1014.8	1029.5	1015.9	1033.3	1020.0	1025.7	1042.8	1050.3	1069.7
5°	769.9	760.1	755.4	777.7	776.5	787.5	786.4	796.5	805.2	785.8	805.7
7.5°	536.3	529.6	540.6	558.0	576.5	570.4	570.4	556.8	561.4	558.6	557.7
10°	407.9	385.1	379.3	378.7	385.7	387.1	379.3	360.5	367.5	369.5	381.6
12.5°	320.9	303.3	276.4	264.2	261.1	263.7	237.9	221.5	229.3	224.6	236.5
15°	230.1	215.7	199.8	186.2	182.4	177.2	149.2	129.5	127.2	128.1	130.1
17.5°	164.2	154.4	154.4	139.9	132.1	116.5	102.3	93.7	92.8	93.7	95.1
20°	121.1	115.9	115.4	111.6	102.9	92.5	82.7	80.9	80.4	81.8	82.4
22.5°	104.4	98.9	94.2	94.0	85.9	77.2	72.6	70.3	70.5	71.1	72.6
25°	93.4	87.6	82.7	79.8	74.0	67.9	63.6	62.4	62.4	63.3	63.6
27.5°	85.6	78.3	74.0	70.0	64.8	59.6	55.8	54.9	54.4	54.9	56.4
30°	80.1	72.9	67.4	61.3	57.2	52.3	49.1	48.0	47.7	48.0	49.1
32.5°	68.5	64.2	59.8	54.4	49.4	46.3	42.8	40.8	40.8	41.3	42.5
35°	51.7	49.4	49.1	47.7	43.7	40.2	36.1	34.1	34.1	35.3	35.8
37.5°	45.7	41.3	40.8	40.2	38.5	33.8	30.1	28.3	28.0	28.9	30.1
40°	41.6	36.7	34.1	33.5	33.8	28.6	24.6	22.8	22.8	23.1	24.3
42.5°	38.5	32.7	28.0	27.5	28.6	24.0	19.9	18.2	18.2	18.2	19.7
45°	35.8	29.2	23.7	20.8	22.6	19.7	16.2	14.5	13.9	14.5	15.0
47.5°	34.1	26.6	20.8	16.8	16.8	15.6	13.0	11.0	10.4	10.7	11.6
50°	32.7	24.3	17.6	13.6	12.1	12.4	9.8	8.4	7.8	7.8	8.7
52.5°	30.4	22.0	15.3	11.6	9.3	8.4	7.2	6.1	5.8	6.1	6.6
55°	27.5	19.9	13.3	9.5	7.2	5.8	5.2	4.3	4.0	4.3	5.2
57.5°	24.3	16.8	10.7	7.5	4.9	3.8	3.5	2.9	2.3	2.6	3.2
59°	22.3	15.0	9.3	6.1	3.8	2.6	2.6	2.0	1.4	1.7	2.6
60°	21.4	13.9	7.8	5.2	3.2	2.0	2.0	1.4	0.9	1.2	2.0
62.5°	18.2	11.6	6.1	3.2	1.4	0.3	0.9	0.3	0.0	0.3	0.9
65°	15.3	9.3	4.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	12.7	6.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.7	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°	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8	1271.8
2.5°	1070.8	1112.2	1137.6	1185.6	1234.8	1272.6	1320.1	1362.6	1380.2	1389.4
5°	826.0	883.5	932.4	1005.5	1073.4	1156.1	1240.0	1338.8	1376.7	1386.5
7.5°	579.7	638.3	689.5	774.2	871.1	981.8	1107.3	1232.7	1288.0	1303.6
10°	418.6	481.4	543.8	628.5	719.0	839.0	969.7	1124.9	1188.5	1200.7
12.5°	264.2	331.6	433.1	537.7	633.4	730.0	866.7	1035.6	1105.8	1128.1
15°	153.2	203.5	280.1	416.6	538.3	666.1	815.3	1002.0	1080.7	1103.5
17.5°	102.6	120.0	172.6	277.0	437.7	607.1	802.3	1029.5	1116.5	1145.7
20°	86.4	94.2	112.8	168.8	337.1	554.5	805.7	1104.1	1218.3	1254.7
22.5°	76.0	83.3	95.1	121.4	235.3	489.2	822.2	1210.8	1358.2	1404.8
25°	67.1	74.3	84.7	100.6	158.1	413.7	858.4	1366.9	1543.5	1594.7
27.5°	59.6	66.2	75.2	88.8	121.7	329.6	890.4	1519.0	1712.7	1754.3
30°	52.6	58.1	66.8	77.2	101.2	254.1	906.6	1651.9	1835.8	1882.1
32.5°	45.7	50.9	59.3	67.7	83.3	193.7	895.4	1749.7	1955.5	1985.0
35°	39.0	44.5	51.5	59.3	72.0	156.4	839.0	1859.5	2079.5	2102.7
37.5°	33.5	38.2	45.4	51.5	65.0	125.2	770.8	1958.4	2218.6	2251.8
40°	28.3	33.0	40.2	45.7	59.8	98.6	709.2	2068.3	2365.2	2406.2
42.5°	23.1	28.6	35.0	43.9	51.5	75.2	634.6	2157.3	2475.3	2526.8
45°	18.5	24.6	31.5	43.7	44.8	57.2	562.6	2226.7	2572.7	2619.0
47.5°	14.7	20.8	30.4	40.8	36.7	45.4	521.5	2299.2	2653.7	2690.7
50°	11.9	17.3	31.8	35.8	30.6	38.5	520.4	2380.2	2695.6	2720.2
52.5°	9.5	14.2	26.9	27.5	26.0	33.8	551.6	2471.3	2738.4	2758.6
55°	8.1	11.9	17.6	20.2	23.4	30.6	575.0	2611.5	2840.5	2859.5
57.5°	6.4	10.1	13.6	16.2	20.8	28.0	578.2	2719.6	2969.7	2982.1
59°	5.5	8.7	12.1	14.5	19.1	26.3	565.2	2726.3	2978.1	2998.0
60°	4.6	7.8	10.7	13.6	17.6	24.9	551.0	2678.0	2946.8	2969.1
62.5°	3.5	6.1	7.8	11.0	14.5	21.4	484.0	2509.4	2827.4	2843.1
65°	2.3	4.3	5.8	8.1	11.3	18.5	394.3	2290.9	2643.0	2678.0
67.5°	1.4	3.2	4.6	6.1	9.3	15.6	281.0	1964.5	2384.8	2407.4
70°	0.9	2.0	3.5	4.9	7.2	12.4	166.8	1552.8	1984.1	1988.8
72.5°	0.6	1.4	2.3	3.5	5.8	11.3	80.9	1012.2	1448.7	1503.9
75°	0.3	0.9	1.4	2.6	4.6	9.3	38.7	676.2	1054.1	1070.0
77.5°	0.0	0.3	0.9	1.7	3.5	7.2	22.6	444.1	718.7	735.2
80°	0.0	0.0	0.6	1.4	2.6	4.6	13.6	261.9	435.4	443.5
82.5°	0.0	0.0	0.3	1.2	1.7	3.5	6.9	115.1	285.1	287.9
85°	0.0	0.0	0.3	1.2	1.4	2.3	2.6	15.6	126.6	128.9
87.5°	0.0	0.0	0.3	1.4	1.4	1.4	1.4	0.9	10.7	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)