

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: P458583

Luminaire Tested: **GALN-SA1C-735-U-SLL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458583  
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-735-U-SLL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 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: 4759 lumens  
Efficiency: N/A  
Efficacy: 83.5 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

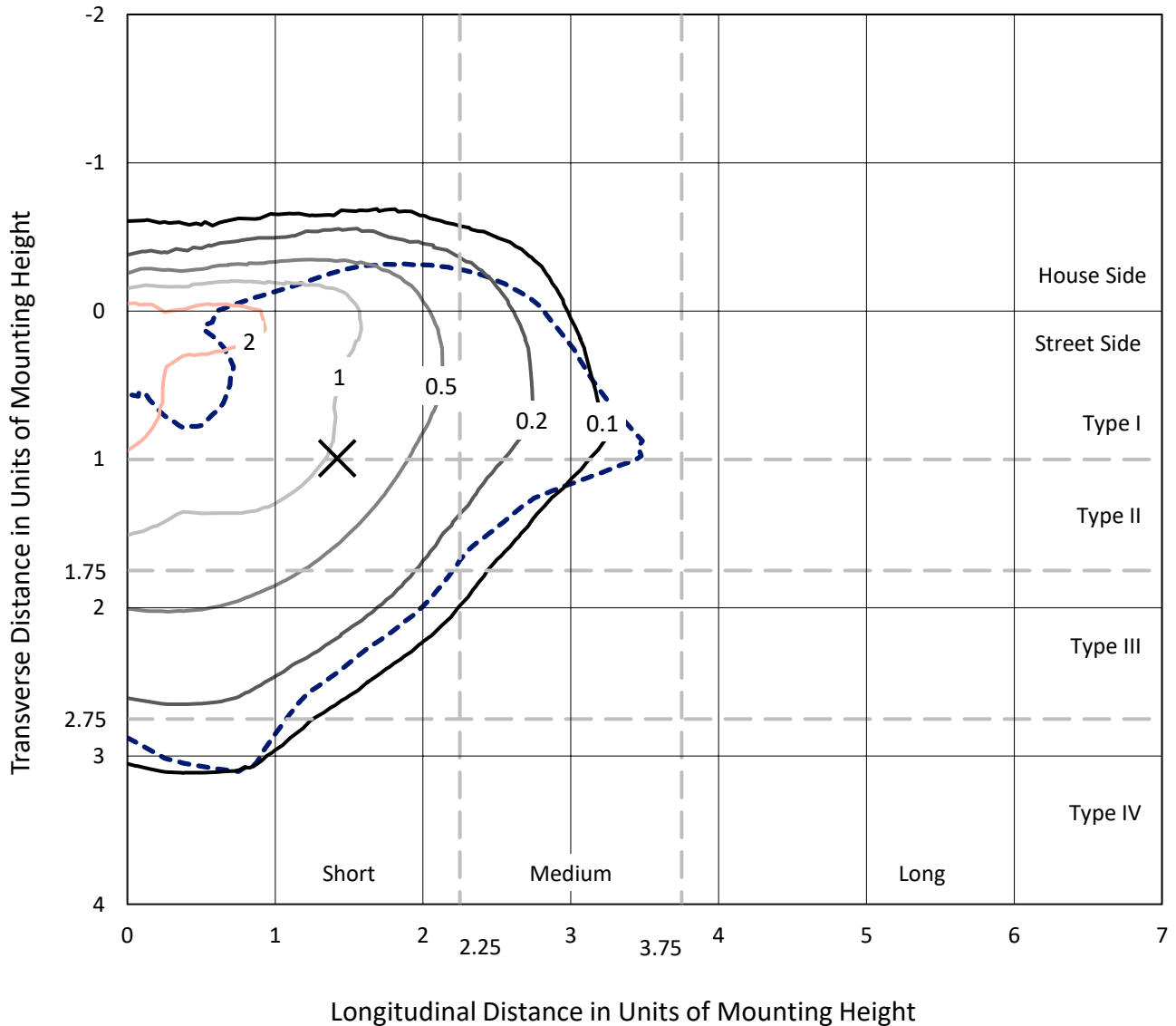
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

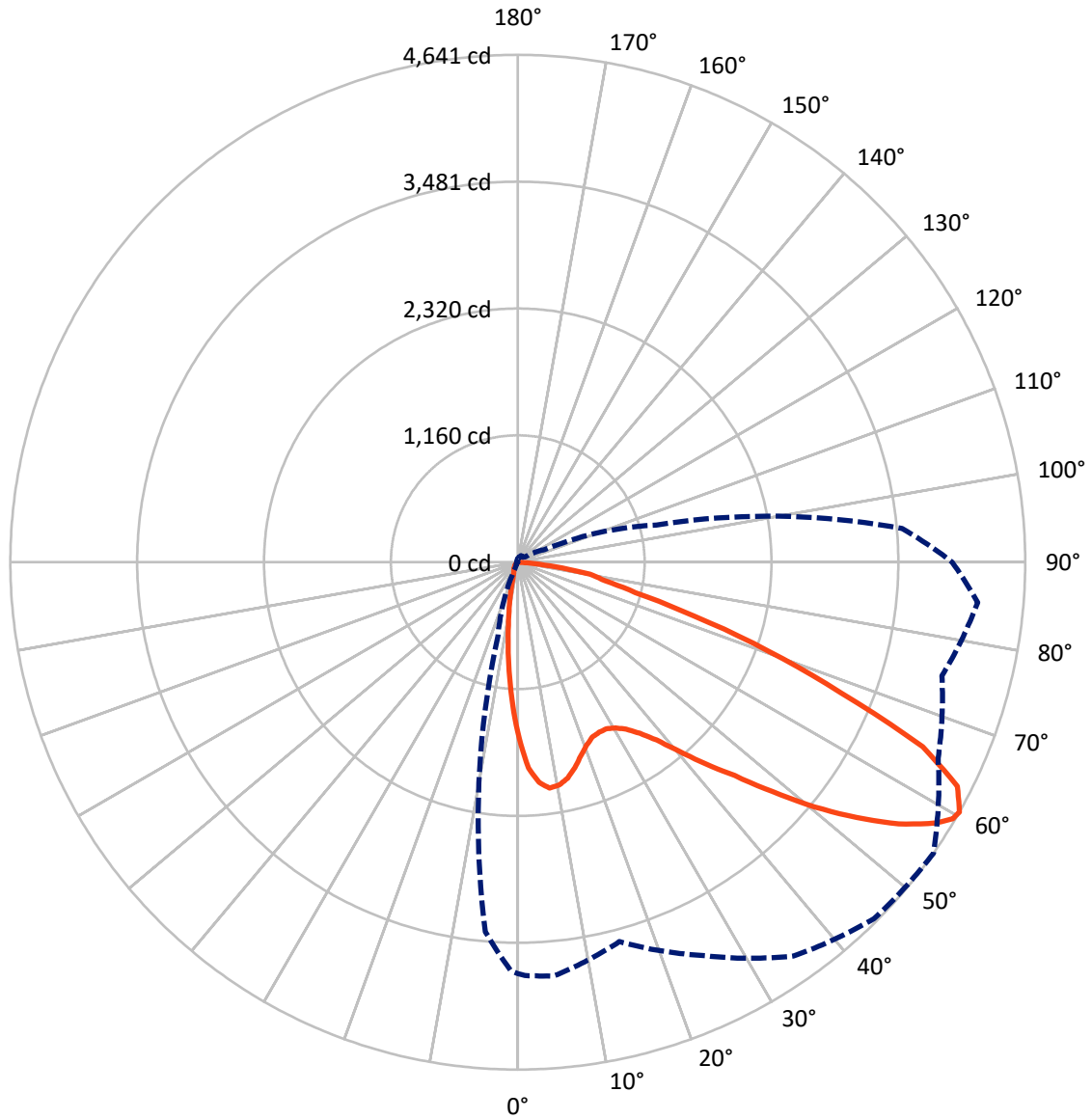
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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
<b>House Side</b>	Lumens	706.3	0.0	706.3
	% Fixture	14.8	0.0	14.8
<b>Street Side</b>	Lumens	4052.7	0.0	4052.7
	% Fixture	85.2	0.0	85.2
<b>Total</b>	Lumens	4759.0	0.0	4759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	2.5
10°-20°	235.0	4.9
20°-30°	347.8	7.3
30°-40°	518.5	10.9
40°-50°	759.3	16.0
50°-60°	1096.2	23.0
60°-70°	1153.1	24.2
70°-80°	474.3	10.0
80°-90°	55.6	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°	4759.0	100.0
0°-180°	4759.0	100.0

**Coefficient of Utilization**



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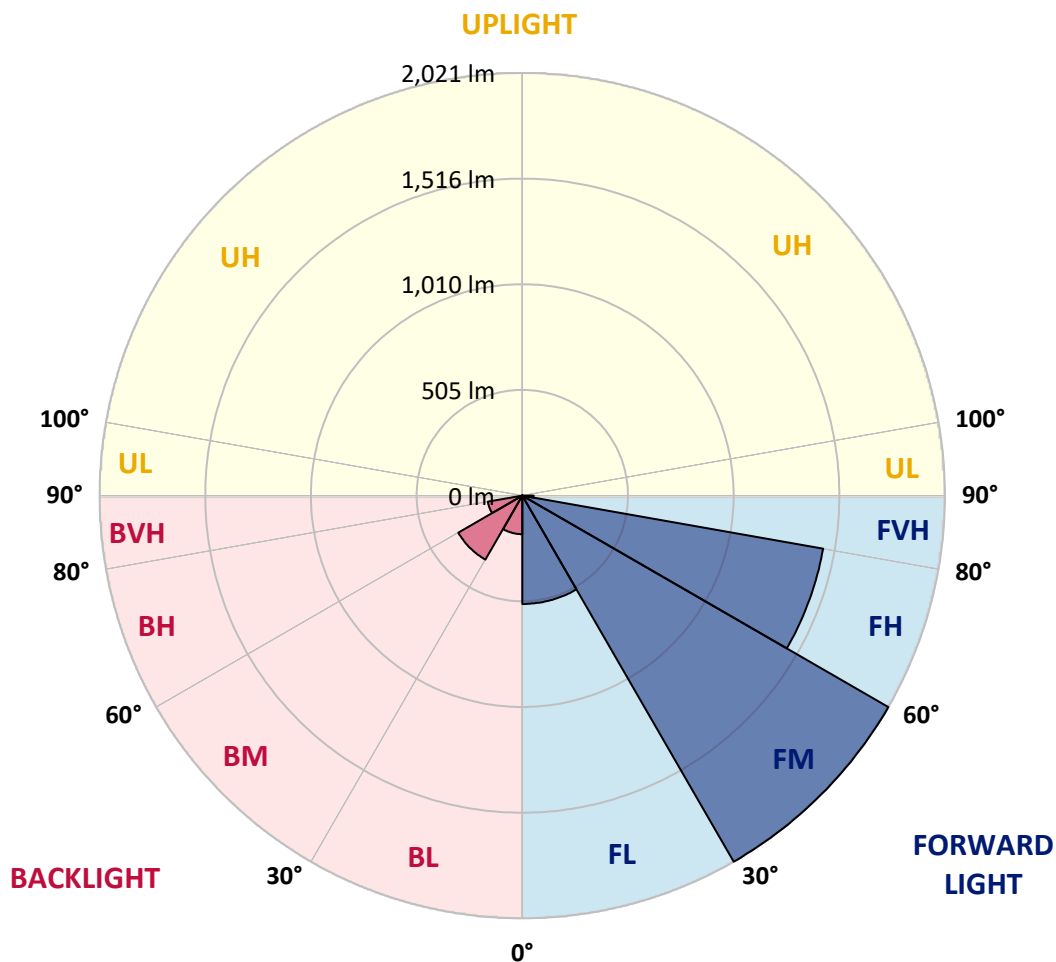
CATALOG NUMBER: GALN-SA1C-735-U-SLL-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.8	10.9			
FM	(30°-60°)	2020.7	42.5			
FH	(60°-80°)	1460.3	30.7			G1/1800
FVH	(80°-90°)	53.9	1.1			G1/100
BL	(0°-30°)	184.3	3.9	B1/500		
BM	(30°-60°)	353.2	7.4	B1/1000		
BH	(60°-80°)	167.2	3.5	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4
2.5°	1760.5	1757.5	1783.5	1826.0	1868.9	1891.2	1886.8	1885.0	1849.5	1823.5	1768.9
5°	1756.8	1771.8	1818.3	1933.4	2020.5	2062.7	2075.1	2022.7	1953.5	1853.1	1729.3
7.5°	1651.7	1670.4	1746.2	1926.0	2081.0	2172.6	2169.3	2085.4	1942.5	1787.2	1610.7
10°	1521.3	1543.3	1632.3	1850.6	2051.7	2172.6	2179.2	2072.9	1895.3	1696.0	1510.3
12.5°	1429.3	1455.3	1553.9	1780.3	1976.2	2095.3	2103.0	2026.0	1859.7	1660.8	1455.7
15°	1398.2	1422.7	1522.7	1744.7	1896.0	1960.1	1958.3	1950.2	1845.8	1669.3	1458.6
17.5°	1451.7	1471.8	1584.6	1760.8	1820.9	1814.3	1823.8	1862.7	1848.8	1740.0	1550.9
20°	1589.8	1610.3	1731.5	1810.3	1763.4	1721.6	1726.0	1790.9	1875.9	1872.9	1695.3
22.5°	1779.9	1814.7	1924.6	1906.3	1755.7	1664.1	1655.0	1739.2	1922.0	2026.0	1890.1
25°	2020.5	2055.7	2141.4	2059.4	1793.4	1650.6	1642.2	1723.5	1978.1	2175.5	2109.6
27.5°	2222.8	2249.5	2334.8	2208.5	1849.1	1656.4	1642.5	1725.7	2023.5	2302.6	2294.5
30°	2384.7	2404.4	2454.6	2278.1	1897.1	1682.1	1666.0	1757.9	2043.6	2364.5	2444.4
32.5°	2515.1	2548.4	2564.1	2352.4	1966.0	1730.4	1703.0	1819.8	2092.7	2441.1	2601.5
35°	2664.2	2702.6	2682.5	2423.5	2056.8	1805.9	1772.2	1920.2	2167.1	2511.8	2783.9
37.5°	2853.2	2897.5	2818.7	2498.2	2152.8	1919.4	1903.7	2061.2	2279.9	2612.9	2979.5
40°	3048.8	3074.4	2951.0	2589.1	2270.7	2084.7	2099.7	2270.7	2427.5	2734.1	3187.6
42.5°	3201.5	3225.7	3086.9	2665.2	2391.3	2280.6	2343.3	2523.5	2596.7	2858.3	3342.9
45°	3318.4	3338.9	3181.0	2748.4	2553.9	2564.5	2682.8	2783.9	2766.4	2934.1	3462.7
47.5°	3409.2	3426.8	3253.5	2837.8	2797.5	2911.8	3092.7	3135.6	2942.2	3016.2	3571.1
50°	3446.6	3451.7	3276.2	2951.7	3074.0	3354.3	3542.9	3516.9	3143.6	3107.4	3686.5
52.5°	3495.3	3494.2	3341.1	3060.1	3334.1	3749.9	3938.2	3879.2	3371.5	3244.0	3816.2
55°	3623.1	3624.6	3479.9	3214.0	3555.7	4069.3	4270.8	4227.9	3611.8	3474.8	3967.5
57.5°	3778.5	3784.0	3677.4	3393.8	3767.5	4300.8	4519.1	4502.6	3936.7	3731.6	4110.3
59°	3798.6	3809.6	3770.8	3520.6	3893.1	4371.9	4604.1	4620.2	4110.7	3900.8	4187.6
60°	3762.0	3780.3	3797.9	3592.4	3966.7	4397.5	4609.2	4640.7	4241.5	4015.8	4222.8
62.5°	3602.3	3631.2	3719.5	3813.3	4058.7	4317.7	4445.5	4511.4	4403.4	4318.0	4226.1
65°	3393.1	3408.1	3535.6	3852.5	3880.3	3944.8	3984.3	4068.9	4208.9	4434.5	4074.8
67.5°	3050.2	3094.6	3250.6	3625.0	3353.9	3277.7	3267.8	3183.6	3547.0	4156.9	3701.9
70°	2519.8	2539.6	2731.9	2971.8	2531.2	2414.0	2460.9	2429.3	2749.5	3578.5	2979.5
72.5°	1905.5	1950.2	2138.1	2368.9	1722.4	1570.4	1699.7	1687.9	2065.2	2875.9	2046.9
75°	1355.7	1384.6	1624.2	1853.9	1206.2	1022.0	1068.5	1112.1	1441.8	2270.7	1209.5
77.5°	931.5	956.4	1136.3	1226.0	879.9	842.9	771.1	813.2	944.7	1347.3	658.3
80°	561.9	560.8	679.1	701.1	612.8	711.7	597.1	670.3	571.1	576.6	254.9
82.5°	364.8	361.2	415.4	452.8	341.0	358.6	240.7	346.9	372.2	160.8	80.6
85°	163.4	170.3	199.6	263.4	149.5	79.5	49.1	106.6	158.6	81.0	0.0
87.5°	16.9	13.2	35.2	64.1	20.5	2.2	7.3	3.7	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°	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4
2.5°	1743.6	1722.4	1659.0	1599.7	1548.7	1486.5	1446.2	1382.8	1344.3	1332.6	1334.5
5°	1673.7	1612.5	1492.0	1395.6	1288.3	1227.1	1134.1	1044.7	996.4	978.4	970.3
7.5°	1527.1	1461.6	1316.1	1164.9	1049.8	942.5	873.3	794.5	740.7	696.3	688.7
10°	1418.3	1332.3	1152.0	989.4	898.6	818.0	748.7	670.0	606.6	556.1	542.1
12.5°	1353.1	1256.8	1055.7	919.4	833.3	750.6	660.5	569.2	504.4	449.8	424.5
15°	1341.4	1229.7	1028.6	869.2	763.0	663.0	543.2	444.7	378.0	326.4	310.6
17.5°	1412.1	1278.4	1024.6	816.9	671.1	529.3	404.8	323.1	248.0	219.1	207.7
20°	1538.1	1364.5	1024.2	756.1	576.6	407.7	284.3	210.6	180.2	166.3	159.7
22.5°	1709.9	1481.7	1043.6	703.7	478.4	300.7	202.9	167.8	150.2	138.8	136.3
25°	1919.8	1655.3	1091.2	668.1	403.3	235.9	167.4	143.6	128.9	123.8	121.6
27.5°	2106.3	1821.6	1143.6	631.5	349.5	208.8	155.3	131.5	119.8	115.8	112.5
30°	2267.1	1972.6	1168.9	583.2	306.2	191.2	157.5	140.7	125.3	113.2	107.7
32.5°	2401.1	2088.3	1185.4	539.2	269.6	156.4	124.5	108.8	101.8	97.4	93.8
35°	2568.9	2213.6	1175.5	514.3	250.9	142.5	113.6	93.8	82.1	73.3	69.6
37.5°	2744.7	2338.9	1158.3	493.8	242.5	132.2	108.1	89.0	76.2	67.0	62.3
40°	2926.8	2455.0	1138.1	474.7	234.8	125.6	104.8	85.0	72.2	62.3	57.1
42.5°	3093.5	2568.2	1130.1	462.3	222.3	126.7	102.2	83.2	68.1	57.9	53.5
45°	3228.3	2675.5	1141.0	455.7	208.8	124.9	102.9	81.0	64.8	54.9	50.6
47.5°	3372.2	2827.2	1176.6	449.1	195.6	116.1	108.4	80.6	63.4	53.1	48.4
50°	3539.6	3021.3	1257.9	433.0	179.5	106.6	115.4	80.2	61.5	50.9	46.2
52.5°	3762.7	3241.8	1341.8	404.8	156.0	97.4	110.3	79.1	57.9	48.4	43.6
55°	3963.1	3474.1	1412.8	371.4	126.4	84.3	99.3	74.4	51.6	44.0	39.6
57.5°	4045.9	3605.2	1410.6	325.3	101.1	74.0	81.7	68.1	45.1	38.8	35.2
59°	4015.5	3588.7	1363.4	291.2	92.3	68.5	67.8	67.4	42.1	35.2	32.2
60°	3972.6	3528.6	1312.5	274.4	86.8	64.8	62.3	66.7	39.6	33.0	30.0
62.5°	3808.5	3279.5	1143.6	245.8	79.5	54.9	49.8	56.4	35.2	28.6	26.0
65°	3570.8	2896.8	968.1	237.7	77.3	45.4	41.4	40.3	30.0	24.2	22.0
67.5°	3107.0	2451.3	784.3	232.2	78.0	38.1	36.3	30.4	24.9	20.1	18.7
70°	2487.6	1911.4	642.1	226.0	78.8	31.1	30.4	24.2	20.1	16.9	15.4
72.5°	1511.4	1133.0	505.5	196.3	76.6	24.9	27.1	18.3	14.7	12.1	11.4
75°	934.4	775.5	313.6	152.7	50.6	18.3	19.0	11.4	9.9	7.7	7.7
77.5°	541.4	489.8	112.1	54.9	22.3	11.0	8.4	5.9	5.5	3.3	3.3
80°	224.5	179.9	38.8	18.7	12.1	5.1	1.8	0.4	0.0	0.0	0.0
82.5°	65.6	58.2	10.6	8.4	3.7	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°	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4
2.5°	1303.3	1291.2	1285.7	1304.4	1287.2	1309.2	1292.3	1299.7	1321.3	1330.8	1355.3
5°	975.5	963.0	957.2	985.4	983.9	997.8	996.4	1009.2	1020.2	995.6	1020.9
7.5°	679.5	671.1	685.0	707.0	730.4	722.7	722.7	705.5	711.4	707.7	706.6
10°	516.9	487.9	480.6	479.9	488.7	490.5	480.6	456.8	465.6	468.1	483.5
12.5°	406.6	384.3	350.2	334.8	330.8	334.1	301.5	280.6	290.5	284.6	299.6
15°	291.6	273.3	253.1	235.9	231.1	224.5	189.0	164.1	161.2	162.3	164.8
17.5°	208.1	195.6	195.6	177.3	167.4	147.6	129.7	118.7	117.6	118.7	120.5
20°	153.5	146.9	146.2	141.4	130.4	117.2	104.8	102.6	101.8	103.7	104.4
22.5°	132.2	125.3	119.4	119.0	108.8	97.8	91.9	89.0	89.4	90.1	91.9
25°	118.3	111.0	104.8	101.1	93.8	86.1	80.6	79.1	79.1	80.2	80.6
27.5°	108.4	99.3	93.8	88.6	82.1	75.5	70.7	69.6	68.9	69.6	71.4
30°	101.5	92.3	85.3	77.7	72.5	66.3	62.3	60.8	60.4	60.8	62.3
32.5°	86.8	81.3	75.8	68.9	62.6	58.6	54.2	51.6	51.6	52.4	53.8
35°	65.6	62.6	62.3	60.4	55.3	50.9	45.8	43.2	43.2	44.7	45.4
37.5°	57.9	52.4	51.6	50.9	48.7	42.9	38.1	35.9	35.5	36.6	38.1
40°	52.7	46.5	43.2	42.5	42.9	36.3	31.1	28.9	28.9	29.3	30.8
42.5°	48.7	41.4	35.5	34.8	36.3	30.4	25.3	23.1	23.1	23.1	24.9
45°	45.4	37.0	30.0	26.4	28.6	24.9	20.5	18.3	17.6	18.3	19.0
47.5°	43.2	33.7	26.4	21.2	21.2	19.8	16.5	13.9	13.2	13.6	14.7
50°	41.4	30.8	22.3	17.2	15.4	15.8	12.5	10.6	9.9	9.9	11.0
52.5°	38.5	27.8	19.4	14.7	11.7	10.6	9.2	7.7	7.3	7.7	8.4
55°	34.8	25.3	16.9	12.1	9.2	7.3	6.6	5.5	5.1	5.5	6.6
57.5°	30.8	21.2	13.6	9.5	6.2	4.8	4.4	3.7	2.9	3.3	4.0
59°	28.2	19.0	11.7	7.7	4.8	3.3	3.3	2.6	1.8	2.2	3.3
60°	27.1	17.6	9.9	6.6	4.0	2.6	2.6	1.8	1.1	1.5	2.6
62.5°	23.1	14.7	7.7	4.0	1.8	0.4	1.1	0.4	0.0	0.4	1.1
65°	19.4	11.7	5.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4
67.5°	16.1	8.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	8.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.2	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



REPORT NUMBER: P458583  
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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4	1611.4
2.5°	1356.8	1409.2	1441.4	1502.2	1564.5	1612.5	1672.6	1726.4	1748.7	1760.5
5°	1046.5	1119.4	1181.3	1274.0	1360.1	1464.9	1571.1	1696.4	1744.4	1756.8
7.5°	734.4	808.8	873.6	981.0	1103.7	1244.0	1403.0	1561.9	1631.9	1651.7
10°	530.4	609.9	689.0	796.4	911.0	1063.0	1228.6	1425.3	1505.9	1521.3
12.5°	334.8	420.2	548.7	681.3	802.6	924.9	1098.2	1312.1	1401.1	1429.3
15°	194.1	257.9	355.0	527.8	682.1	844.0	1033.0	1269.6	1369.3	1398.2
17.5°	130.0	152.0	218.7	350.9	554.6	769.2	1016.5	1304.4	1414.7	1451.7
20°	109.5	119.4	142.9	213.9	427.1	702.6	1020.9	1398.9	1543.6	1589.8
22.5°	96.3	105.5	120.5	153.8	298.2	619.8	1041.8	1534.1	1720.9	1779.9
25°	85.0	94.1	107.3	127.5	200.4	524.2	1087.6	1731.9	1955.7	2020.5
27.5°	75.5	83.9	95.2	112.5	154.2	417.6	1128.2	1924.6	2170.0	2222.8
30°	66.7	73.6	84.6	97.8	128.2	322.0	1148.7	2093.1	2326.0	2384.7
32.5°	57.9	64.5	75.1	85.7	105.5	245.4	1134.5	2216.9	2477.7	2515.1
35°	49.5	56.4	65.2	75.1	91.2	198.2	1063.0	2356.1	2634.8	2664.2
37.5°	42.5	48.4	57.5	65.2	82.4	158.6	976.6	2481.4	2811.0	2853.2
40°	35.9	41.8	50.9	57.9	75.8	124.9	898.6	2620.6	2996.8	3048.8
42.5°	29.3	36.3	44.3	55.7	65.2	95.2	804.0	2733.4	3136.3	3201.5
45°	23.4	31.1	39.9	55.3	56.8	72.5	712.8	2821.3	3259.8	3318.4
47.5°	18.7	26.4	38.5	51.6	46.5	57.5	660.8	2913.2	3362.3	3409.2
50°	15.0	22.0	40.3	45.4	38.8	48.7	659.4	3015.8	3415.4	3446.6
52.5°	12.1	17.9	34.1	34.8	33.0	42.9	698.9	3131.2	3469.7	3495.3
55°	10.3	15.0	22.3	25.6	29.7	38.8	728.6	3308.9	3599.0	3623.1
57.5°	8.1	12.8	17.2	20.5	26.4	35.5	732.6	3445.8	3762.7	3778.5
59°	7.0	11.0	15.4	18.3	24.2	33.3	716.1	3454.3	3773.3	3798.6
60°	5.9	9.9	13.6	17.2	22.3	31.5	698.2	3393.1	3733.8	3762.0
62.5°	4.4	7.7	9.9	13.9	18.3	27.1	613.2	3179.5	3582.5	3602.3
65°	2.9	5.5	7.3	10.3	14.3	23.4	499.6	2902.6	3348.8	3393.1
67.5°	1.8	4.0	5.9	7.7	11.7	19.8	356.1	2489.1	3021.7	3050.2
70°	1.1	2.6	4.4	6.2	9.2	15.8	211.4	1967.4	2514.0	2519.8
72.5°	0.7	1.8	2.9	4.4	7.3	14.3	102.6	1282.4	1835.6	1905.5
75°	0.4	1.1	1.8	3.3	5.9	11.7	49.1	856.8	1335.6	1355.7
77.5°	0.0	0.4	1.1	2.2	4.4	9.2	28.6	562.6	910.6	931.5
80°	0.0	0.0	0.7	1.8	3.3	5.9	17.2	331.9	551.7	561.9
82.5°	0.0	0.0	0.4	1.5	2.2	4.4	8.8	145.8	361.2	364.8
85°	0.0	0.0	0.4	1.5	1.8	2.9	3.3	19.8	160.4	163.4
87.5°	0.0	0.0	0.4	1.8	1.8	1.8	1.8	1.1	13.6	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)