

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: P648160

Luminaire Tested: **GALN-SA9A-835-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648160
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24175.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

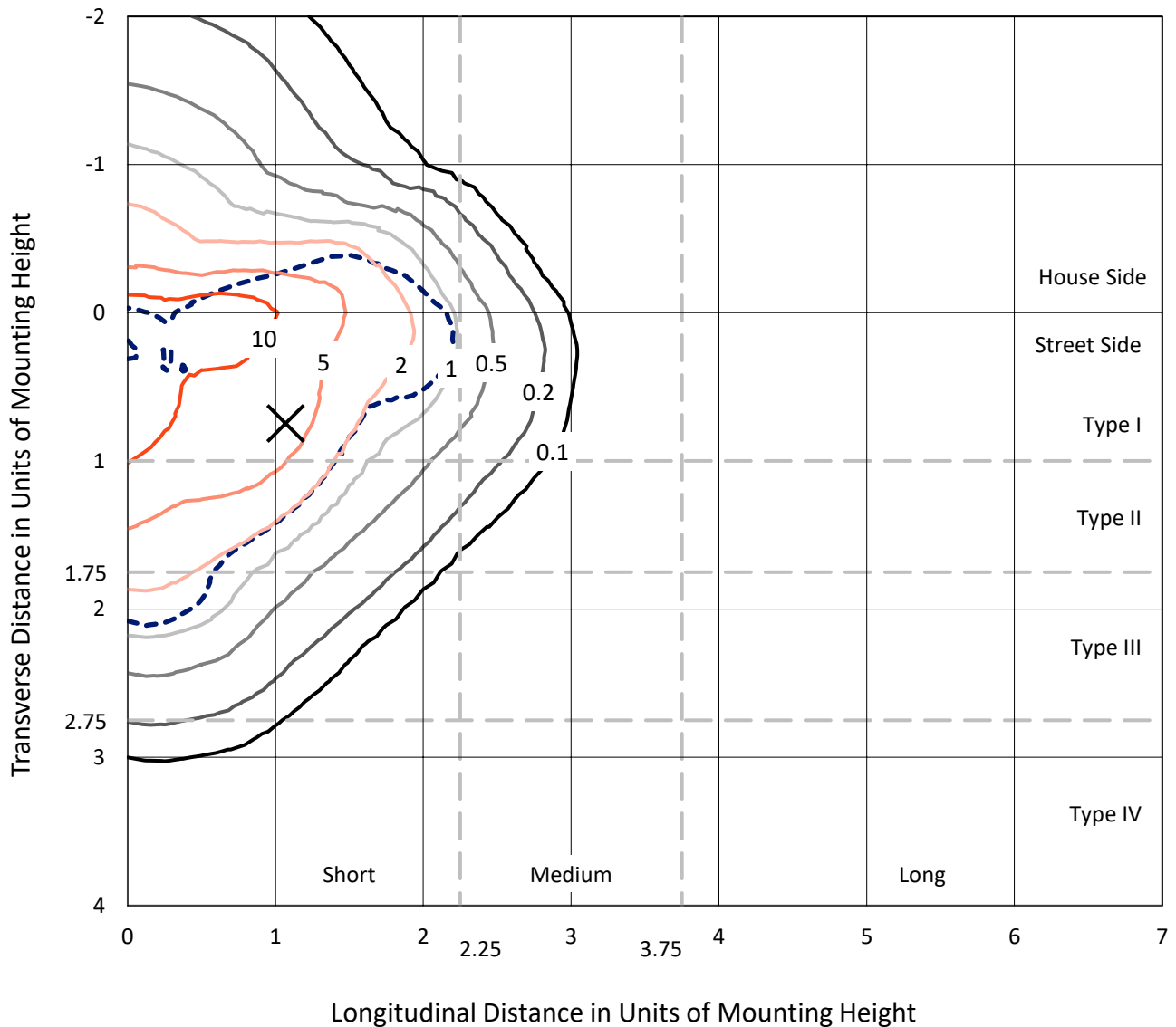
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

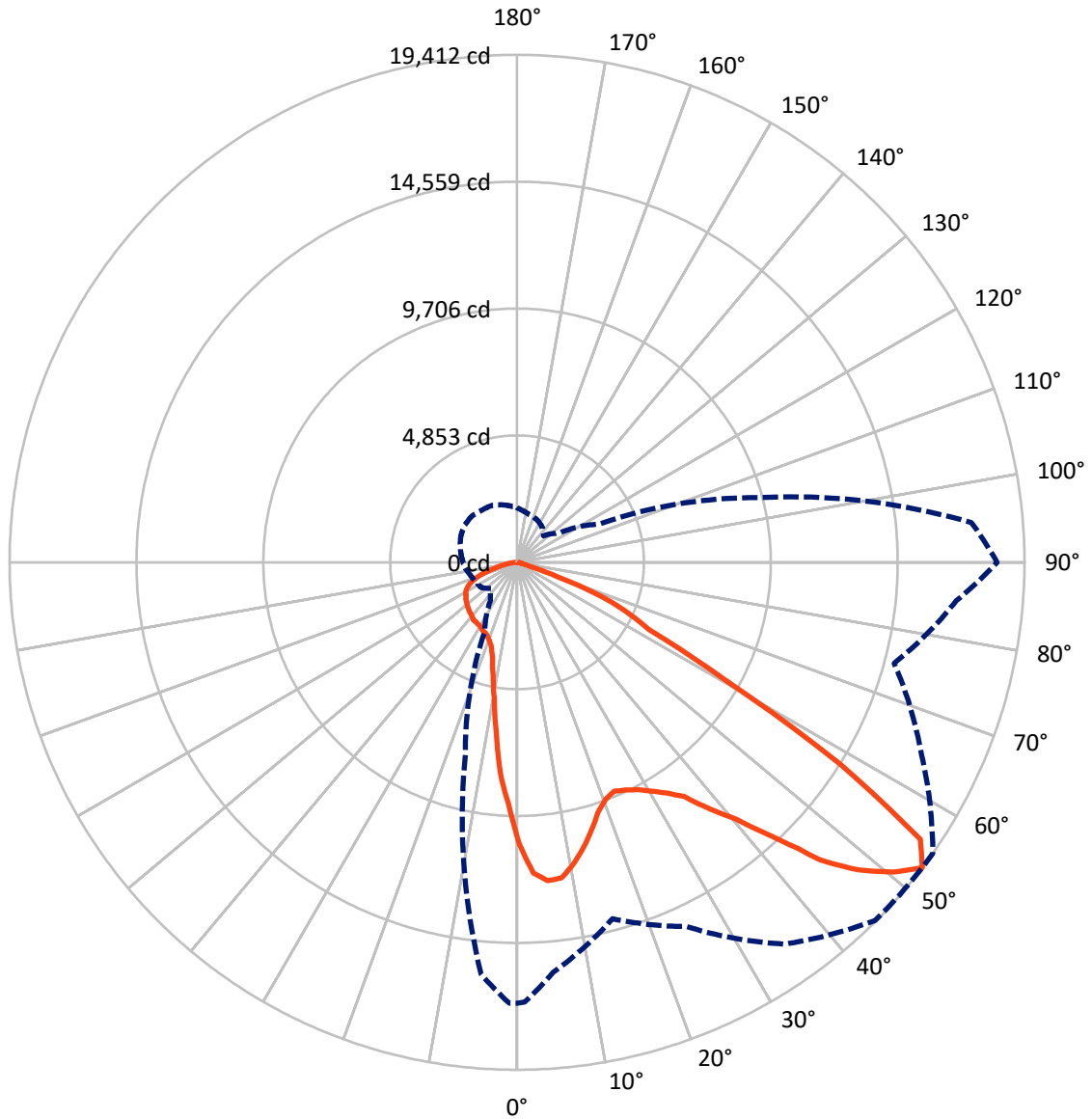
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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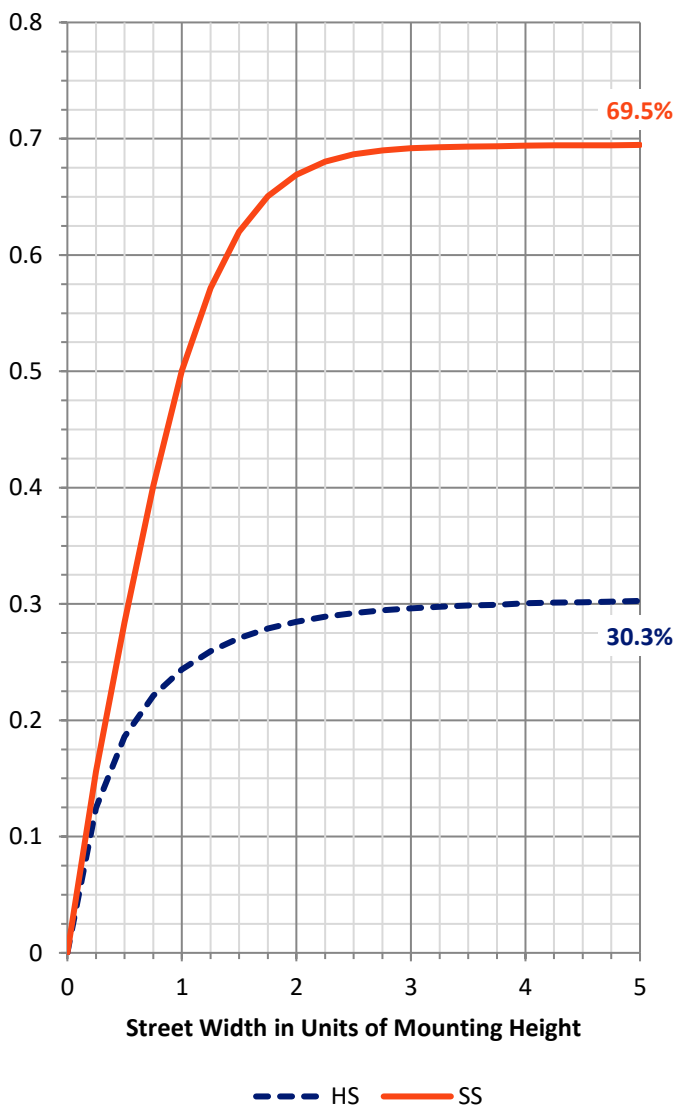
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7375.0	0.0	7375.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16800.9	0.0	16800.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	24175.9	0.0	24175.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.9	3.4
10°-20°	1776.4	7.3
20°-30°	2693.7	11.1
30°-40°	3891.9	16.1
40°-50°	5200.7	21.5
50°-60°	5805.1	24.0
60°-70°	3184.4	13.2
70°-80°	688.5	2.8
80°-90°	111.4	0.5
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°	24175.9	100.0
0°-180°	24175.9	100.0

Coefficient of Utilization

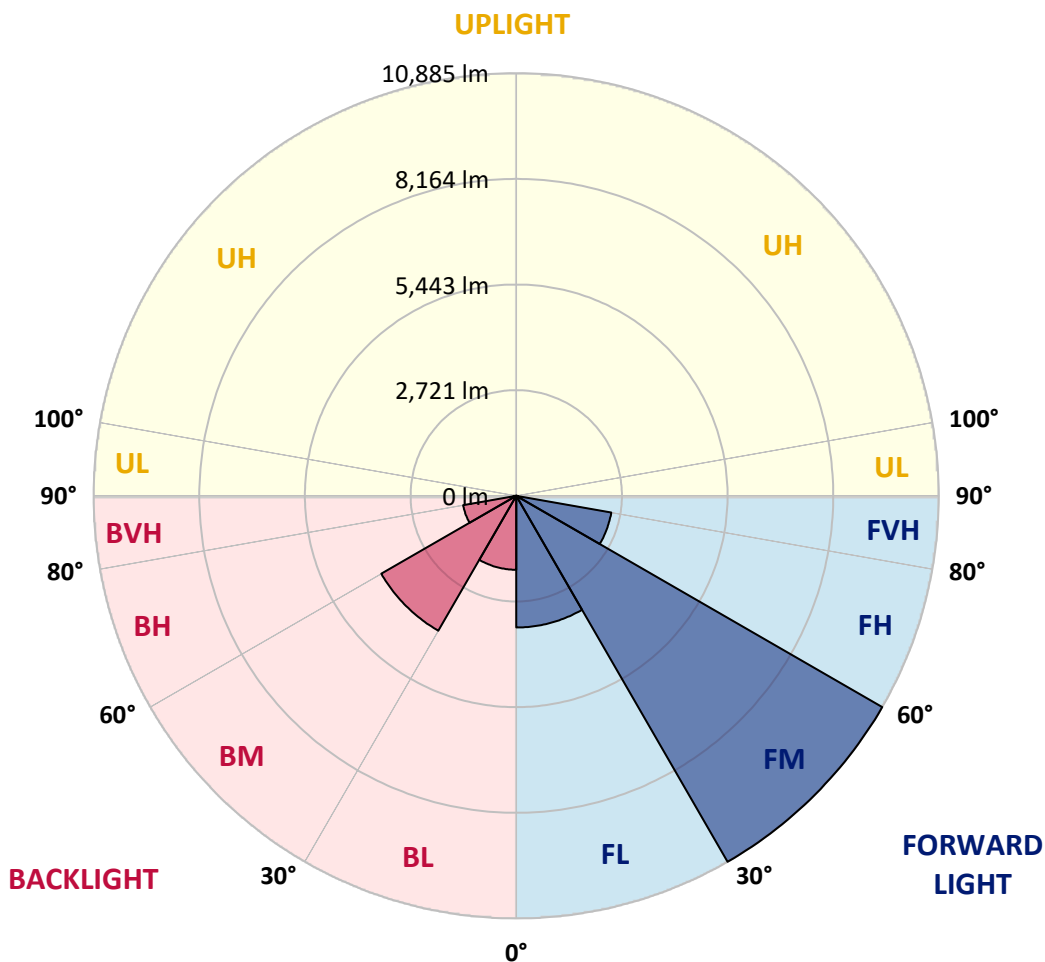


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3389.9	14.0			
FM (30°-60°)	10885.1	45.0			
FH (60°-80°)	2484.7	10.3			G2/5000
FVH (80°-90°)	41.2	0.2			G1/100
BL (0°-30°)	1904.1	7.9	B3/2500		
BM (30°-60°)	4012.6	16.6	B3/5000		
BH (60°-80°)	1388.1	5.7	B3/2500		G3/2500
BVH (80°-90°)	70.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3
2.5°	11317.3	11253.8	11310.3	11578.6	11733.9	11839.8	11906.8	11896.3	11642.1	11395.0	11395.0
5°	10985.6	10904.4	11020.8	11628.0	12238.7	12291.7	12379.9	12235.2	11861.0	11409.2	10844.3
7.5°	10025.4	10085.4	10279.5	11077.3	11871.6	12270.5	12376.4	12192.8	11585.7	10742.0	9912.4
10°	9195.8	9337.0	9785.3	10646.7	11377.4	11896.3	12012.8	11755.1	11275.0	10240.7	9499.4
12.5°	8909.8	8821.6	9319.3	10180.7	10879.6	11158.5	11211.5	11229.1	10904.4	9986.5	9082.8
15°	8874.6	8931.1	9319.3	9972.4	10403.1	10417.2	10505.4	10643.1	10685.4	10159.5	9277.0
17.5°	9382.9	9315.8	9714.7	10233.7	10028.9	9824.1	9845.4	10043.0	10392.5	10307.8	9887.7
20°	10134.8	10286.6	10600.7	10547.8	9997.1	9478.2	9481.7	9668.8	10357.2	10922.0	10738.5
22.5°	11384.4	11532.7	11765.7	11126.7	9997.1	9375.8	9255.8	9510.0	10583.1	11652.7	11698.6
25°	12524.6	12796.5	12860.0	12108.1	10498.4	9471.2	9393.5	9644.1	10809.0	12365.8	12800.0
27.5°	13562.5	13661.3	13940.2	12740.0	10777.3	9534.7	9527.6	9848.9	11095.0	12722.3	13784.9
30°	14381.4	14370.9	14529.7	13138.9	11222.0	9891.2	9548.8	10156.0	11469.1	13311.9	14695.7
32.5°	14939.2	15059.2	15394.6	13693.1	11409.2	10230.1	9961.8	10516.0	11924.5	13590.7	15338.1
35°	15920.6	16128.9	15705.3	14000.2	12002.2	10565.5	10251.3	11006.7	12150.4	13894.3	16125.3
37.5°	16845.5	16686.6	16255.9	14166.1	12387.0	11186.7	10893.7	11956.3	12852.9	14554.4	16647.8
40°	17438.5	17435.0	16668.9	14300.2	12658.8	12136.3	12118.6	12920.0	13714.2	14971.0	17233.8
42.5°	17696.2	17943.3	16838.3	14286.1	13230.7	13287.1	13643.7	14360.3	14325.0	15055.7	17219.7
44°	18049.2	18197.5	17131.3	14317.9	13611.9	14063.8	14903.9	15359.2	14858.0	15009.8	17202.0
45°	18035.1	18045.6	16714.9	14360.3	13936.7	14713.3	15465.2	16234.7	15327.5	14911.0	17435.0
47.5°	17622.0	17502.0	16361.8	14046.1	14949.8	16428.9	17124.3	17590.3	15906.4	14699.2	17145.5
50°	16806.6	16668.9	15504.0	13912.0	15161.6	17495.0	18455.2	18624.6	16432.4	14490.9	16859.6
52.5°	16863.1	16824.2	15747.6	14113.2	15373.4	17830.3	19369.5	19411.8	17029.0	14928.6	16863.1
55°	17872.7	17738.6	16446.5	14363.8	15218.1	17438.5	18787.0	18712.8	16827.8	14663.9	17173.7
57.5°	16354.8	16443.0	15479.3	13371.8	13318.9	14176.7	14769.7	14586.2	14042.6	13234.2	15977.0
60°	13195.4	13446.0	13537.8	11183.2	10050.0	9608.8	9432.3	9107.5	9199.3	10872.6	14035.5
62.5°	11317.3	11303.2	11878.7	10138.4	6583.5	5662.2	5577.5	5651.6	6710.6	10703.1	13746.0
65°	8973.4	9213.5	9390.0	8592.2	5210.4	4204.3	4200.8	4670.3	5807.0	8945.1	11098.5
67.5°	5697.5	6011.7	6230.6	5496.3	3484.2	2993.5	2912.3	3477.1	4024.2	5866.9	6682.4
70°	3212.3	3360.6	3459.5	3170.0	2216.9	1553.2	1461.5	1595.6	2432.2	3798.3	3960.7
72.5°	1239.0	1306.1	1440.3	1450.8	836.6	501.3	406.0	487.2	1023.7	1503.8	1433.2
75°	190.7	204.8	289.5	345.9	240.1	183.5	194.2	201.2	286.0	388.3	324.8
77.5°	91.8	91.8	88.2	102.3	120.0	130.6	141.2	155.3	169.4	187.1	180.0
80°	60.0	60.0	60.0	70.6	88.2	105.9	120.0	127.1	134.1	148.3	141.2
82.5°	38.8	38.8	38.8	52.9	70.6	88.2	95.3	113.0	127.1	148.3	137.7
85°	21.2	21.2	21.2	35.3	52.9	74.2	70.6	56.5	31.8	3.5	7.0
87.5°	7.0	7.0	7.0	7.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3
2.5°	11098.5	10936.1	10922.0	10590.2	10293.6	10148.9	10032.4	9707.6	9778.3	9591.2	9587.6
5°	10562.0	10230.1	9693.5	9252.2	8811.0	8722.8	8338.0	8002.7	8013.2	7773.2	7815.5
7.5°	9598.2	9368.8	8715.7	8023.8	7437.8	7021.3	6657.7	6438.8	6159.9	6064.6	6015.2
10°	8987.5	8705.2	7970.9	7102.4	6445.9	6223.5	5874.0	5679.9	5393.9	5252.8	5153.9
12.5°	8719.3	8306.2	7388.4	6505.9	6068.2	5838.8	5542.2	5189.2	4850.3	4719.7	4539.7
15°	8747.5	8253.3	7218.9	6265.9	5739.9	5295.1	5030.3	4638.5	4292.6	4063.1	3932.5
17.5°	9174.6	8574.5	7296.6	6082.3	5326.8	4769.1	4250.2	3826.6	3551.2	3378.3	3335.9
20°	10184.2	9368.8	7427.2	5785.7	4913.9	4218.4	3579.5	3138.2	2926.4	2922.9	2926.4
22.5°	11024.4	10216.0	7692.0	5609.3	4500.8	3512.4	2877.0	2735.8	2693.4	2781.7	2792.3
25°	12157.5	11169.1	8147.3	5517.5	4119.6	2993.5	2601.7	2548.7	2545.1	2658.1	2661.7
27.5°	13318.9	12002.2	8419.2	5249.2	3731.3	2725.2	2435.8	2425.2	2481.6	2601.7	2591.0
30°	14109.7	12701.1	8909.8	4928.0	3272.4	2488.7	2368.7	2382.8	2460.4	2552.3	2566.4
32.5°	15031.0	13389.5	9036.9	4751.5	2990.0	2291.0	2206.3	2238.0	2336.9	2481.6	2559.3
35°	16086.5	13876.6	9231.1	4511.4	2884.0	2139.2	2096.9	2132.2	2252.1	2347.5	2432.2
37.5°	16866.6	14738.0	9266.4	4324.4	2767.6	2054.5	1987.4	2103.9	2174.5	2308.7	2351.0
40°	17445.6	15362.8	9358.2	4207.8	2675.7	1945.1	1945.1	2022.7	2118.0	2241.6	2326.3
42.5°	17816.2	15818.2	9425.3	4101.9	2499.3	1913.3	1895.6	1973.3	2100.4	2220.4	2259.3
44°	18042.1	16012.4	9358.2	4003.1	2449.9	1874.4	1874.4	1941.5	2040.3	2181.6	2227.5
45°	18098.6	16255.9	9209.9	3999.6	2389.9	1828.5	1821.5	1948.6	2015.7	2188.6	2216.9
47.5°	18317.5	16556.0	9227.6	3886.6	2245.1	1719.2	1842.7	1899.2	1959.1	2111.0	2206.3
50°	18310.4	16743.0	9188.7	3720.7	2139.2	1595.6	1800.4	1863.9	1923.9	2079.2	2118.0
52.5°	18359.9	17442.0	9545.2	3455.9	1948.6	1436.7	1659.1	1800.4	1874.4	2005.1	2086.2
55°	18335.1	17840.9	9898.3	3258.2	1680.3	1341.4	1539.1	1705.0	1810.9	1948.6	1987.4
57.5°	16746.6	15768.8	9160.5	2887.6	1390.8	1228.4	1369.6	1606.2	1740.3	1881.5	1931.0
60°	13682.5	12154.0	7554.3	2125.1	1143.7	1129.6	1274.3	1574.4	1630.9	1754.5	1839.2
62.5°	12644.7	10660.8	5990.5	1623.9	977.8	1034.3	1175.5	1422.6	1510.9	1662.6	1740.3
65°	9894.8	7081.3	3710.1	1097.8	861.3	928.4	1062.5	1246.1	1390.8	1532.0	1623.9
67.5°	5859.9	3869.0	1835.7	769.5	751.9	822.5	960.2	1097.8	1263.8	1419.1	1465.0
70°	3191.2	1902.7	783.7	586.0	638.9	702.5	836.6	931.9	1090.8	1210.8	1288.5
72.5°	1023.7	579.0	391.8	434.2	487.2	561.3	642.5	759.0	871.9	942.5	1006.1
75°	247.1	243.6	278.9	303.6	353.0	409.5	476.5	536.6	624.8	691.9	748.4
77.5°	173.0	187.1	215.3	250.6	268.3	289.5	331.8	377.7	416.6	466.0	501.3
80°	134.1	144.7	165.9	183.5	201.2	218.8	240.1	257.7	282.4	314.1	331.8
82.5°	127.1	134.1	155.3	165.9	158.9	155.3	169.4	176.5	180.0	190.7	201.2
85°	10.6	0.0	7.0	24.7	60.0	88.2	95.3	95.3	91.8	98.8	98.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	14.1	10.6
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°	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3
2.5°	9545.2	9425.3	9471.2	9527.6	9446.4	9259.4	9308.8	9287.6	9478.2	9464.1	9654.7
5°	8002.7	7815.5	7836.7	8112.0	8023.8	8119.2	7928.5	7903.8	7939.1	7956.8	7988.6
7.5°	6124.6	6100.0	6311.8	6544.7	6654.2	6541.2	6354.1	6311.8	6272.9	6195.3	6371.7
10°	4998.6	5005.6	4991.5	5168.0	5291.6	5266.8	5153.9	5139.8	5065.6	5037.4	5136.2
12.5°	4462.0	4366.7	4320.8	4264.3	4359.6	4423.2	4373.8	4338.4	4342.0	4377.3	4391.4
15°	3943.1	3883.1	3784.2	3720.7	3766.5	3734.8	3717.1	3787.8	3770.1	3763.0	3847.7
17.5°	3360.6	3410.0	3403.0	3332.4	3392.3	3367.7	3364.2	3314.8	3247.6	3198.2	3226.5
20°	2975.9	3067.6	3138.2	3141.8	3173.5	3170.0	3117.0	2965.2	2915.8	2905.2	2912.3
22.5°	2838.1	2887.6	2972.3	3092.3	3092.3	3035.8	2972.3	2795.8	2749.9	2700.5	2679.3
25°	2728.8	2824.0	2933.5	2947.6	3004.1	2951.1	2848.8	2760.5	2665.2	2598.2	2598.2
27.5°	2672.2	2778.2	2859.4	2884.0	2961.7	2919.3	2813.5	2700.5	2587.5	2584.0	2524.0
30°	2647.6	2746.4	2799.3	2859.4	2894.7	2827.6	2795.8	2675.7	2562.8	2534.6	2435.8
32.5°	2573.4	2714.6	2813.5	2799.3	2827.6	2799.3	2753.4	2654.6	2527.5	2463.9	2453.4
35°	2488.7	2629.9	2735.8	2810.0	2827.6	2767.6	2739.3	2605.2	2432.2	2400.4	2291.0
37.5°	2442.8	2527.5	2658.1	2778.2	2802.8	2771.1	2675.7	2538.1	2365.1	2329.8	2234.5
40°	2386.3	2495.7	2598.2	2697.0	2771.1	2693.4	2584.0	2449.9	2372.2	2266.3	2238.0
42.5°	2344.0	2467.5	2552.3	2661.7	2746.4	2644.0	2517.0	2425.2	2315.7	2245.1	2163.9
44°	2329.8	2442.8	2499.3	2633.4	2704.0	2626.3	2520.5	2425.2	2298.1	2234.5	2163.9
45°	2280.4	2435.8	2495.7	2615.8	2675.7	2612.2	2478.1	2382.8	2291.0	2213.4	2139.2
47.5°	2231.0	2336.9	2439.3	2534.6	2576.9	2555.8	2442.8	2326.3	2216.9	2171.0	2100.4
50°	2216.9	2322.8	2418.1	2506.3	2555.8	2513.4	2411.0	2298.1	2171.0	2096.9	2036.8
52.5°	2146.3	2276.9	2382.8	2411.0	2474.6	2449.9	2372.2	2248.6	2128.6	2065.1	2015.7
55°	2043.9	2181.6	2326.3	2361.6	2453.4	2414.5	2298.1	2181.6	2079.2	1983.9	1920.4
57.5°	2005.1	2139.2	2280.4	2326.3	2382.8	2319.2	2291.0	2167.4	2005.1	1955.6	1856.8
60°	1906.2	2075.7	2192.2	2298.1	2301.6	2283.9	2234.5	2093.4	1959.1	1867.4	1796.8
62.5°	1828.5	1987.4	2079.2	2178.1	2238.0	2188.6	2139.2	2008.6	1863.9	1761.5	1680.3
65°	1715.6	1860.3	1938.0	1998.0	2065.1	2058.0	1973.3	1878.0	1726.2	1645.0	1567.3
67.5°	1542.7	1669.7	1775.6	1832.1	1874.4	1863.9	1800.4	1733.2	1577.9	1496.8	1440.3
70°	1334.4	1465.0	1532.0	1563.8	1606.2	1627.4	1577.9	1546.2	1408.5	1302.6	1249.7
72.5°	1073.1	1157.8	1256.7	1284.9	1302.6	1316.7	1316.7	1288.5	1147.3	1104.9	1013.1
75°	790.8	857.8	931.9	931.9	963.7	967.2	974.3	956.7	850.7	794.3	773.1
77.5°	536.6	586.0	646.0	670.7	691.9	688.3	684.8	635.4	579.0	554.2	533.1
80°	349.5	398.9	427.1	458.9	480.1	476.5	483.6	448.3	423.6	381.2	388.3
82.5°	208.3	247.1	275.4	314.1	314.1	324.8	324.8	314.1	289.5	268.3	268.3
85°	98.8	130.6	148.3	173.0	187.1	190.7	169.4	144.7	120.0	109.5	120.0
87.5°	17.6	24.7	35.3	31.8	38.8	35.3	35.3	35.3	35.3	28.3	31.8
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: P648160

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3	10784.3
2.5°	9584.1	9760.6	9884.1	10088.9	10441.9	10724.3	11013.8	11229.1	11253.8	11317.3
5°	8105.0	8200.4	8514.5	8924.0	9213.5	9690.0	9997.1	10554.8	10763.1	10985.6
7.5°	6329.4	6484.7	6904.8	7180.1	7815.5	8412.2	9029.9	9718.3	9993.6	10025.4
10°	5337.5	5563.4	5849.3	6290.5	6636.5	7300.1	8069.7	8835.8	9142.9	9195.8
12.5°	4687.9	4977.4	5358.6	5676.4	6008.2	6587.1	7324.9	8270.9	8669.8	8909.8
15°	4063.1	4363.2	4783.2	5224.5	5517.5	6209.3	7077.8	8143.8	8662.8	8874.6
17.5°	3420.6	3699.5	4045.4	4522.0	5111.5	5888.2	7038.9	8567.4	9135.8	9382.9
20°	2869.9	3025.3	3427.7	3918.4	4656.1	5559.8	7053.0	9192.3	10025.4	10134.8
22.5°	2654.6	2689.9	2848.8	3300.6	4108.9	5224.5	7303.7	10078.3	11024.4	11384.4
25°	2488.7	2481.6	2524.0	2827.6	3710.1	5093.9	7550.8	10893.7	12132.8	12524.6
27.5°	2396.9	2326.3	2329.8	2615.8	3427.7	4882.1	7868.5	11829.3	13389.5	13562.5
30°	2351.0	2336.9	2294.5	2411.0	3120.6	4564.3	7921.5	12750.5	14130.8	14381.4
32.5°	2322.8	2185.1	2132.2	2174.5	2831.1	4218.4	8119.2	13357.7	15048.6	14939.2
35°	2181.6	2058.0	2022.7	2065.1	2626.3	4024.2	7988.6	13887.2	15737.0	15920.6
37.5°	2128.6	2019.2	1948.6	1913.3	2435.8	3861.9	7921.5	14702.7	16404.2	16845.5
40°	2079.2	1962.7	1878.0	1842.7	2287.5	3646.6	7900.2	15331.1	17173.7	17438.5
42.5°	2022.7	1948.6	1853.3	1789.7	2107.4	3431.2	7656.7	15525.2	17410.2	17696.2
44°	2005.1	1892.1	1793.3	1772.1	2036.8	3321.8	7607.2	15701.7	17615.0	18049.2
45°	1987.4	1881.5	1768.6	1740.3	2012.2	3261.7	7540.2	15744.1	17953.9	18035.1
47.5°	1938.0	1870.9	1761.5	1683.8	1959.1	3131.1	7339.0	15504.0	17607.9	17622.0
50°	1899.2	1821.5	1708.6	1556.8	1888.6	3021.8	7430.7	15415.8	16774.8	16806.6
52.5°	1856.8	1740.3	1676.8	1415.6	1772.1	2930.0	7624.9	15814.6	16870.1	16863.1
55°	1807.4	1680.3	1525.0	1295.6	1577.9	2813.5	8094.4	16601.9	17752.6	17872.7
57.5°	1729.7	1620.3	1397.9	1189.6	1355.5	2591.0	7942.6	15094.5	16333.5	16354.8
60°	1627.4	1525.0	1267.3	1108.4	1111.9	2043.9	7102.4	11762.1	12888.3	13195.4
62.5°	1528.5	1472.0	1157.8	992.0	946.0	1627.4	6004.6	9774.7	11063.2	11317.3
65°	1412.0	1274.3	1062.5	903.7	811.9	1140.2	4253.7	7303.7	8631.0	8973.4
67.5°	1263.8	1115.5	935.5	794.3	695.4	762.5	2195.7	4151.3	5496.3	5697.5
70°	1104.9	967.2	787.2	670.7	561.3	525.9	967.2	1980.4	3004.1	3212.3
72.5°	907.3	780.2	628.4	529.5	420.1	363.6	324.8	529.5	1066.1	1239.0
75°	656.6	568.3	473.0	377.7	296.5	233.0	190.7	158.9	176.5	190.7
77.5°	483.6	413.0	349.5	268.3	208.3	165.9	130.6	98.8	95.3	91.8
80°	377.7	335.4	278.9	215.3	162.4	123.6	91.8	67.1	60.0	60.0
82.5°	296.5	275.4	229.4	176.5	134.1	98.8	67.1	45.9	38.8	38.8
85°	113.0	113.0	165.9	144.7	102.3	70.6	45.9	24.7	21.2	21.2
87.5°	28.3	28.3	28.3	28.3	24.7	21.2	21.2	10.6	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)