

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: P650858

Luminaire Tested: **GALN-SA4C-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12930.4 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 213
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

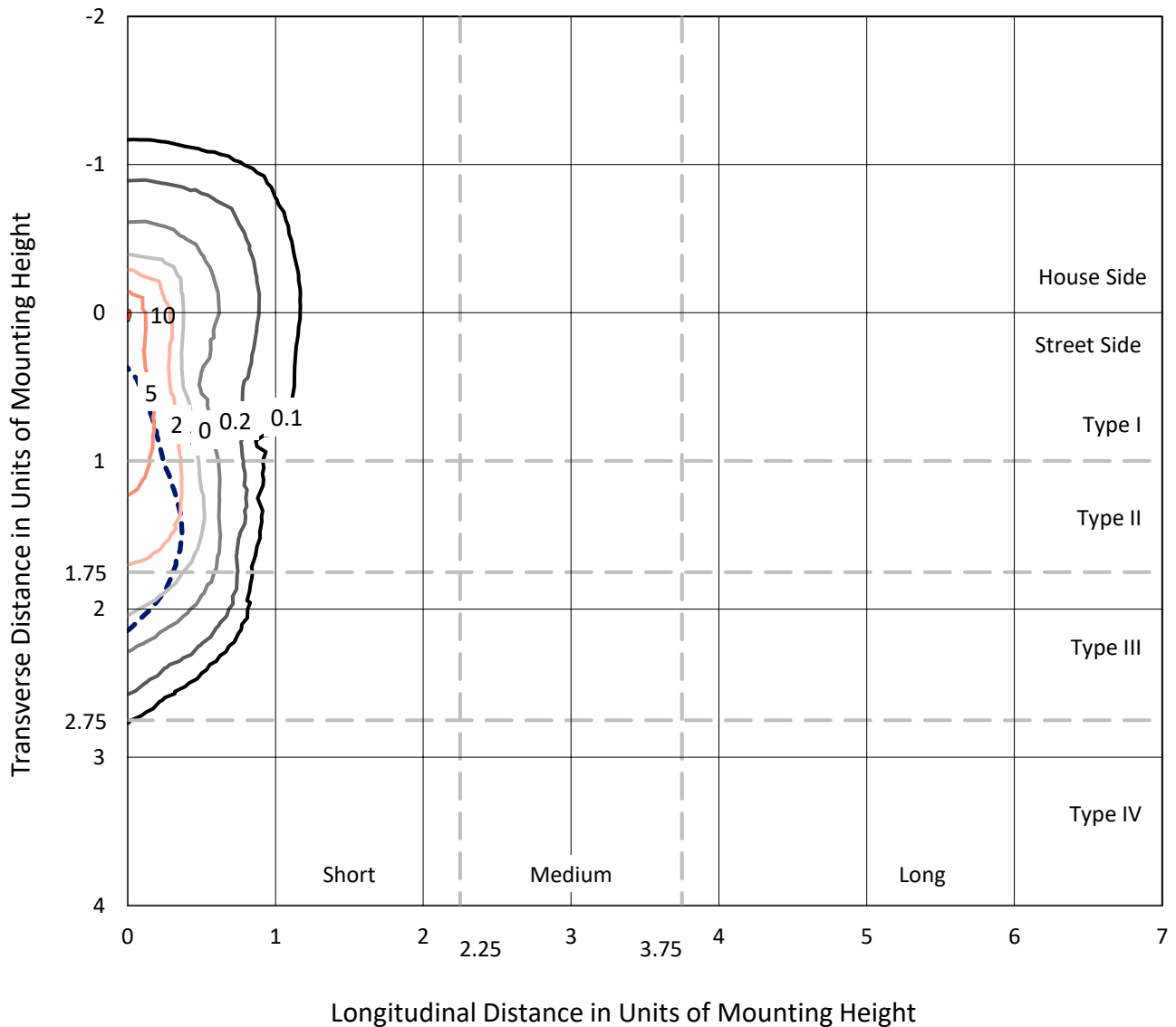




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Iso-Footcandle Lines of Horizontal Illumination

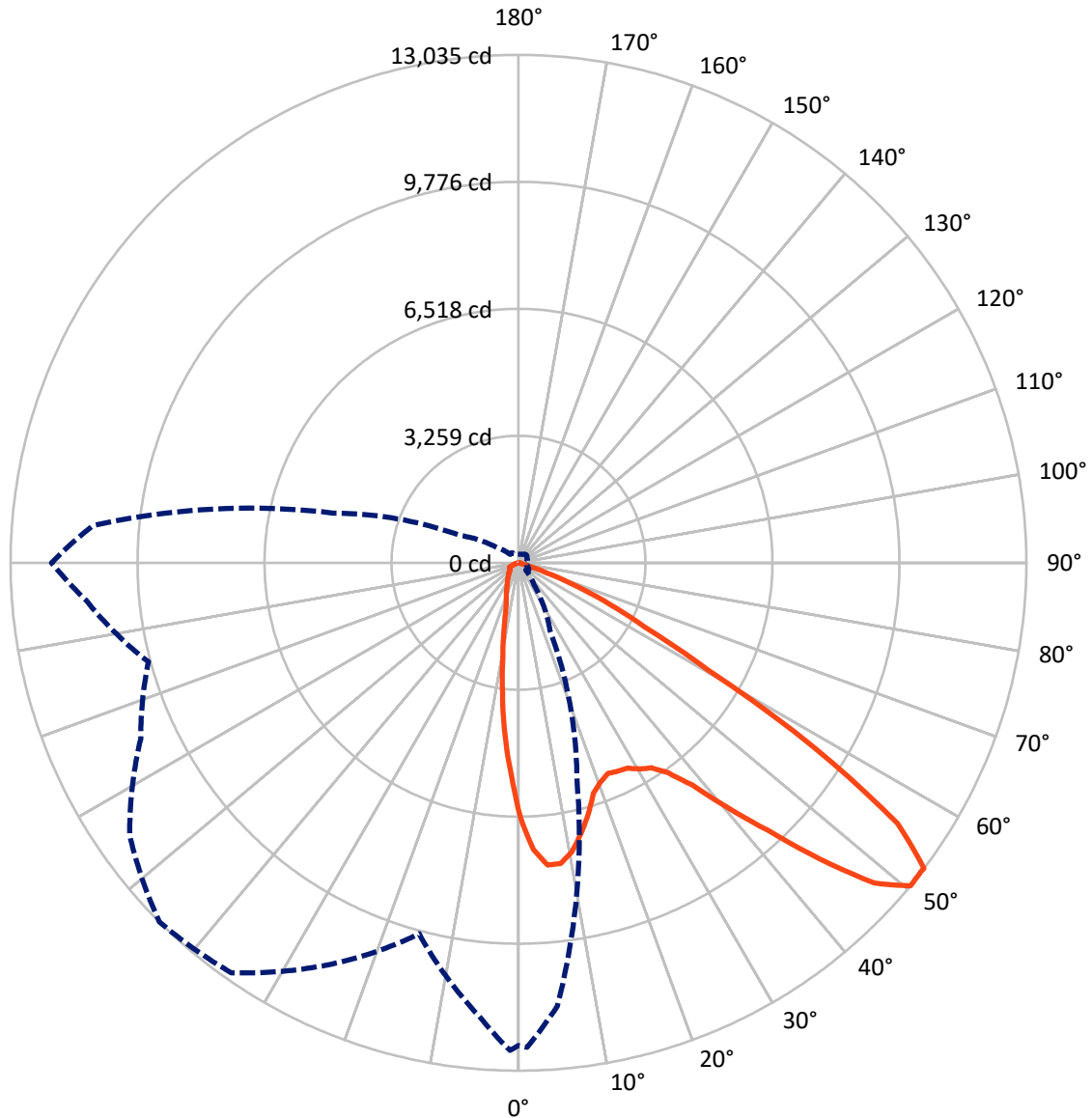
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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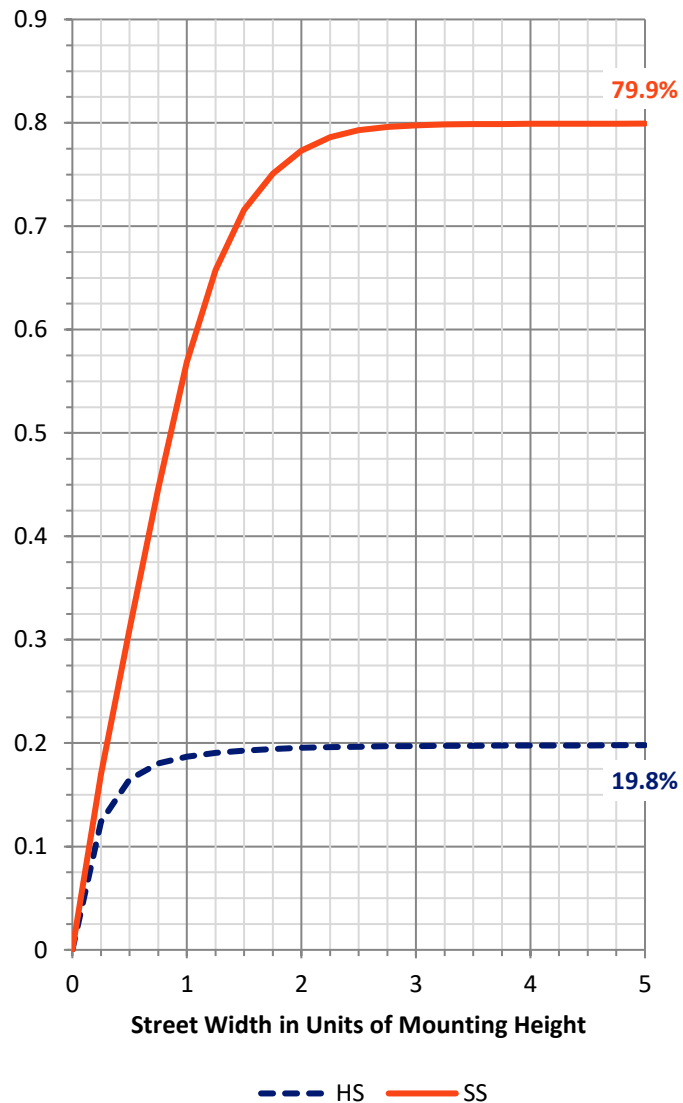
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2590.0	0.0	2590.0
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	10340.4	0.0	10340.4
	% Fixture	80.0	0.0	80.0
Total	Lumens	12930.4	0.0	12930.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	3.7
10°-20°	949.9	7.3
20°-30°	1427.1	11.0
30°-40°	2142.0	16.6
40°-50°	3010.4	23.3
50°-60°	3247.3	25.1
60°-70°	1507.7	11.7
70°-80°	141.9	1.1
80°-90°	26.2	0.2
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°	12930.4	100.0
0°-180°	12930.4	100.0

Coefficient of Utilization

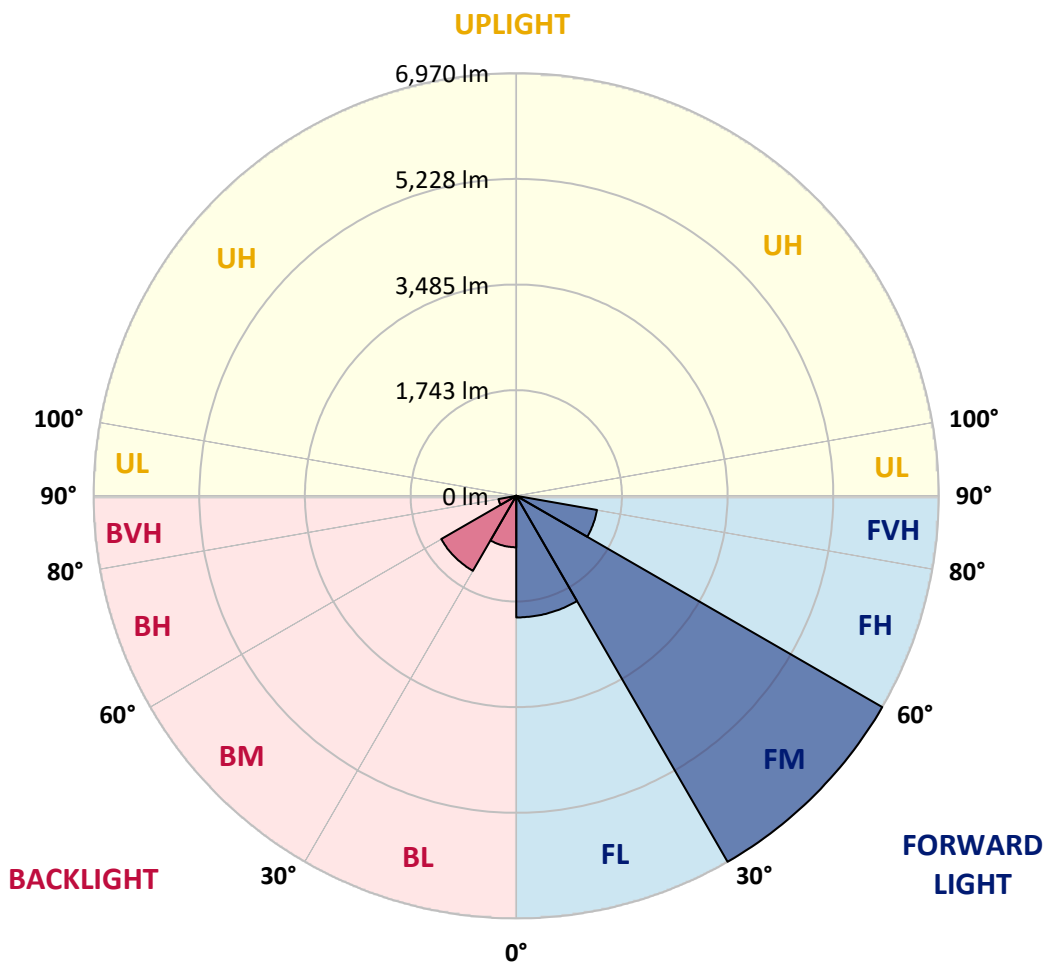


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2006.0	15.5			
FM (30°-60°)	6970.4	53.9			
FH (60°-80°)	1352.2	10.5			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	848.9	6.6	B2/1000		
BM (30°-60°)	1429.3	11.1	B2/2500		
BH (60°-80°)	297.4	2.3	B1/500		G1/500
BVH (80°-90°)	14.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4
2.5°	6816.5	6711.3	6577.9	6467.5	6303.4	5972.4	5882.6	5774.9	5685.1	5564.5	5395.2
5°	6198.2	6164.8	6103.2	5687.6	5387.4	4987.3	4658.9	4520.4	4338.2	4189.4	4081.6
7.5°	5726.1	5592.7	5397.7	4979.6	4499.9	4071.4	3707.1	3494.2	3253.0	3170.9	3024.7
10°	5220.8	5251.5	4964.2	4376.6	3796.9	3450.5	3224.8	3019.5	2801.5	2657.8	2450.0
12.5°	5059.1	4959.0	4738.4	4012.4	3517.2	3194.0	2919.5	2665.5	2434.6	2203.8	2003.6
15°	5164.2	5010.3	4702.5	3935.5	3301.8	2899.0	2555.2	2211.4	1998.5	1703.4	1495.6
17.5°	5541.4	5418.2	5005.2	4017.5	3191.4	2616.8	2106.3	1752.2	1426.4	1159.6	1054.4
20°	6169.9	5995.5	5477.3	4122.7	3027.3	2275.6	1708.6	1272.4	964.6	851.8	792.7
22.5°	6785.7	6690.7	6036.5	4325.3	2881.0	1972.8	1282.7	856.9	720.9	700.4	661.9
25°	7958.0	7673.3	6890.8	4692.3	2768.2	1688.1	967.2	690.1	610.6	595.2	600.3
27.5°	8655.9	8417.3	7681.0	4936.0	2642.4	1470.0	818.4	633.7	579.8	546.5	533.6
30°	9325.4	9048.4	8073.5	5079.6	2373.0	1239.1	726.0	608.0	595.2	546.5	531.1
32.5°	9841.1	9569.2	8640.5	5295.1	2262.7	1090.4	597.8	474.6	441.3	436.1	482.3
35°	10631.2	10341.4	9125.4	5413.1	2178.1	1013.3	518.2	423.3	384.8	369.5	372.0
37.5°	11367.5	11170.1	9574.3	5459.4	2088.3	990.3	464.3	379.7	346.3	336.1	333.5
40°	11983.3	11542.1	10000.2	5508.0	2049.8	946.6	431.0	346.3	323.3	307.9	307.9
42.5°	12265.5	11816.6	10477.3	5479.9	2039.5	877.4	431.0	318.2	300.2	284.8	282.2
45°	12203.9	12021.8	10690.3	5467.0	2039.5	808.1	392.5	310.4	284.8	264.2	259.1
47.5°	12363.0	12124.4	10957.1	5520.9	1998.5	759.3	330.9	325.8	269.4	243.7	238.6
50°	12391.2	12437.4	11421.5	5800.5	1908.7	697.8	259.1	320.7	259.1	220.6	215.5
52°	12575.9	12288.6	11562.6	5949.3	1813.8	651.6	218.1	274.5	248.9	205.2	200.1
52.5°	12321.9	12509.2	11595.9	6003.2	1824.0	620.8	210.3	269.4	243.7	205.2	192.4
55°	12037.1	12216.8	11460.0	6118.6	1672.7	487.4	164.2	194.9	220.6	179.6	171.9
57.5°	10462.0	10644.1	9959.1	5603.0	1362.3	343.8	136.0	146.2	194.9	166.8	159.0
60°	9299.8	9169.0	8358.3	4674.3	967.2	192.4	107.7	112.9	212.9	153.9	151.4
62.5°	8499.4	8219.8	6985.8	3609.6	590.0	128.3	84.7	87.2	164.2	143.6	143.6
65°	6288.0	5975.0	4640.9	2183.2	289.9	89.8	64.2	69.3	102.6	123.1	123.1
67.5°	3589.1	3468.5	2242.2	985.1	120.6	56.4	48.8	53.9	79.6	100.1	94.9
70°	1649.6	1480.2	862.0	207.8	56.4	38.5	38.5	43.6	64.2	74.4	69.3
72.5°	482.3	456.7	210.3	33.4	23.1	23.1	25.7	33.4	48.8	56.4	51.3
75°	35.9	23.1	15.4	10.3	10.3	15.4	20.5	33.4	48.8	53.9	43.6
77.5°	2.6	5.1	2.6	2.6	7.7	15.4	23.1	41.0	64.2	66.7	48.8
80°	2.6	2.6	0.0	2.6	7.7	15.4	25.7	46.2	71.8	77.0	41.0
82.5°	0.0	0.0	0.0	2.6	10.3	20.5	30.8	48.8	66.7	82.1	43.6
85°	0.0	0.0	0.0	2.6	15.4	28.3	35.9	12.9	7.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4
2.5°	5515.8	5449.0	5423.4	5446.5	5438.7	5431.1	5572.2	5541.4	5536.3	5582.5	5572.2
5°	4140.7	4022.7	4345.9	4215.1	4351.0	4433.2	4448.6	4456.2	4551.2	4451.1	4581.9
7.5°	2950.3	2981.1	2978.5	3065.7	3222.2	3360.7	3442.9	3378.7	3373.6	3360.7	3304.3
10°	2357.7	2303.8	2293.5	2273.0	2321.7	2439.7	2539.8	2460.3	2403.8	2480.8	2457.7
12.5°	1926.6	1852.3	1811.2	1729.1	1731.7	1811.2	1811.2	1811.2	1867.7	1911.3	1944.6
15°	1477.7	1416.2	1416.2	1334.1	1316.1	1318.7	1359.7	1364.9	1454.6	1480.2	1493.1
17.5°	1033.8	1000.5	1039.1	1072.4	1051.8	1057.0	1072.4	1077.5	1090.4	1080.1	1105.7
20°	795.3	790.2	800.5	859.4	903.1	928.7	910.7	885.1	869.7	833.8	833.8
22.5°	674.7	685.0	702.9	751.7	808.1	823.5	803.0	743.9	697.8	692.6	695.3
25°	600.3	610.6	638.8	669.6	700.4	726.0	705.5	661.9	636.2	613.2	613.2
27.5°	554.1	559.3	574.7	597.8	623.4	644.0	636.2	613.2	584.9	574.7	551.6
30°	518.2	526.0	543.9	549.0	572.1	582.4	569.5	564.4	546.5	533.6	526.0
32.5°	500.2	497.7	510.5	515.6	518.2	526.0	510.5	518.2	515.6	495.1	487.4
35°	377.1	397.6	431.0	459.2	466.9	477.2	474.6	464.3	436.1	413.0	384.8
37.5°	338.7	351.5	369.5	392.5	423.3	436.1	431.0	405.4	372.0	356.6	351.5
40°	313.0	320.7	336.1	351.5	382.2	405.4	387.4	364.3	338.7	325.8	318.2
42.5°	289.9	292.5	300.2	315.5	338.7	374.6	343.8	313.0	302.8	295.0	289.9
45°	264.2	264.2	274.5	282.2	307.9	341.2	310.4	282.2	277.1	272.0	269.4
47.5°	243.7	246.2	251.4	261.7	282.2	305.3	284.8	261.7	248.9	246.2	241.1
50°	218.1	220.6	230.9	241.1	266.8	279.6	266.8	241.1	228.3	220.6	220.6
52°	197.6	205.2	215.5	236.0	254.0	274.5	259.1	230.9	215.5	207.8	202.7
52.5°	194.9	200.1	210.3	233.5	254.0	272.0	256.5	228.3	210.3	205.2	200.1
55°	174.4	182.2	200.1	228.3	251.4	272.0	251.4	225.7	200.1	187.3	182.2
57.5°	166.8	171.9	194.9	230.9	248.9	272.0	251.4	225.7	200.1	177.0	171.9
60°	159.0	169.3	194.9	223.2	246.2	274.5	254.0	223.2	194.9	166.8	166.8
62.5°	151.4	159.0	192.4	218.1	236.0	264.2	243.7	218.1	187.3	159.0	156.5
65°	130.9	143.6	169.3	182.2	202.7	228.3	207.8	189.8	164.2	141.1	138.5
67.5°	100.1	105.2	125.7	141.1	153.9	177.0	166.8	143.6	125.7	107.7	107.7
70°	69.3	74.4	89.8	97.5	110.3	123.1	115.5	97.5	84.7	74.4	71.8
72.5°	48.8	51.3	56.4	61.6	66.7	71.8	69.3	56.4	48.8	46.2	43.6
75°	38.5	43.6	46.2	43.6	41.0	38.5	38.5	33.4	28.3	25.7	25.7
77.5°	38.5	41.0	38.5	33.4	28.3	25.7	23.1	20.5	15.4	12.9	15.4
80°	33.4	33.4	33.4	28.3	25.7	23.1	20.5	18.0	15.4	12.9	12.9
82.5°	35.9	35.9	33.4	28.3	28.3	23.1	23.1	20.5	18.0	12.9	12.9
85°	0.0	0.0	0.0	5.1	12.9	23.1	23.1	20.5	18.0	15.4	15.4
87.5°	0.0	0.0	0.0	0.0	2.6	5.1	10.3	12.9	15.4	15.4	15.4
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°	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4
2.5°	5664.6	5762.0	5946.7	6131.5	6244.3	6377.7	6618.9	6747.2	6913.9	6996.0	7157.7
5°	4563.9	4794.9	4877.0	5087.3	5313.1	5538.8	5898.0	6293.1	6621.4	6847.3	7139.7
7.5°	3329.9	3383.8	3702.0	3843.0	4212.5	4623.0	5112.9	5610.6	6026.3	6395.7	6618.9
10°	2496.2	2693.7	2893.9	3163.3	3460.8	3884.1	4353.6	4902.6	5441.4	5810.8	6093.0
12.5°	2006.2	2162.7	2429.5	2719.4	3086.2	3365.9	3837.9	4381.8	5079.6	5441.4	5813.3
15°	1518.8	1718.8	2021.6	2321.7	2709.1	3004.1	3481.3	4166.3	5064.2	5562.0	5882.6
17.5°	1126.3	1262.2	1534.2	1870.2	2265.3	2680.9	3324.8	4143.2	5236.2	5828.7	6159.7
20°	862.0	908.2	1080.1	1380.2	1808.7	2352.5	3070.8	4243.3	5744.1	6477.8	6813.9
22.5°	697.8	718.3	785.1	992.8	1408.4	2065.2	2950.3	4312.6	6316.2	7255.1	7704.1
25°	608.0	602.9	646.5	736.3	1100.6	1795.8	2796.3	4574.2	7016.5	8168.5	8571.2
27.5°	554.1	554.1	574.7	638.8	913.3	1621.4	2698.9	4761.5	7722.1	8971.5	9189.5
30°	526.0	531.1	590.0	610.6	759.3	1413.6	2537.2	4951.4	8396.8	9484.5	9784.7
32.5°	487.4	466.9	454.1	505.4	638.8	1226.3	2375.7	5030.9	8943.2	10113.0	10369.6
35°	374.6	364.3	379.7	418.1	549.0	1067.2	2196.0	5120.7	9571.8	10841.7	10893.0
37.5°	338.7	336.1	346.3	379.7	461.8	928.7	2067.8	5097.6	10051.5	11444.6	11306.0
40°	313.0	313.0	320.7	348.9	413.0	831.2	1934.4	5077.0	10515.9	12121.8	11716.5
42.5°	292.5	292.5	305.3	323.3	392.5	767.1	1834.3	5048.9	10905.8	12537.5	11957.7
45°	264.2	272.0	292.5	310.4	397.6	723.4	1759.9	4941.1	11039.2	12532.3	11842.2
47.5°	243.7	254.0	274.5	300.2	359.2	710.6	1708.6	4846.2	10993.0	12224.4	11480.5
50°	220.6	233.5	261.7	305.3	305.3	685.0	1654.8	4930.8	10959.7	11985.8	11134.1
52°	205.2	215.5	251.4	297.6	266.8	631.1	1621.4	5095.0	11095.6	11955.1	10980.2
52.5°	202.7	210.3	243.7	292.5	254.0	620.8	1598.3	5133.5	11139.2	11878.1	11085.4
55°	179.6	189.8	223.2	228.3	207.8	510.5	1523.9	5220.8	10923.7	11726.7	10985.3
57.5°	169.3	174.4	197.6	187.3	179.6	384.8	1311.0	5084.8	9702.6	10415.8	10220.8
60°	156.5	161.6	184.7	146.2	151.4	269.4	985.1	4415.2	7791.4	8679.0	9030.4
62.5°	151.4	148.8	174.4	118.0	128.3	194.9	695.3	3589.1	6003.2	7144.8	7752.8
65°	133.4	130.9	125.7	100.1	110.3	151.4	415.6	2342.3	4230.5	5405.4	5739.0
67.5°	102.6	107.7	92.3	79.6	92.3	118.0	230.9	1049.3	2219.1	3242.7	3512.1
70°	71.8	77.0	74.4	69.3	82.1	97.5	133.4	359.2	918.5	1703.4	1878.0
72.5°	43.6	53.9	56.4	59.0	71.8	84.7	94.9	115.5	243.7	602.9	749.1
75°	25.7	35.9	43.6	51.3	59.0	71.8	79.6	82.1	84.7	112.9	182.2
77.5°	18.0	25.7	38.5	48.8	59.0	71.8	84.7	89.8	84.7	79.6	84.7
80°	15.4	25.7	35.9	46.2	61.6	74.4	84.7	84.7	82.1	71.8	77.0
82.5°	15.4	25.7	38.5	48.8	59.0	71.8	82.1	84.7	77.0	71.8	74.4
85°	18.0	28.3	41.0	51.3	64.2	59.0	53.9	43.6	41.0	33.4	35.9
87.5°	18.0	25.7	25.7	28.3	30.8	30.8	30.8	28.3	23.1	20.5	20.5
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: P650858

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4	6557.4
2.5°	7165.3	7370.6	7362.9	7368.0	7337.2	7129.4	7029.4	6775.4	6847.3	6816.5
5°	7439.8	7642.5	7817.0	7796.5	7560.4	7278.3	6860.0	6464.9	6357.2	6198.2
7.5°	7165.3	7652.8	7814.4	7791.4	7442.4	7080.7	6413.6	6018.6	5831.3	5726.1
10°	6729.2	7293.7	7493.7	7534.8	7298.8	6749.8	6136.6	5502.9	5402.8	5220.8
12.5°	6480.3	6890.8	7014.0	7124.3	7042.2	6631.7	5926.2	5318.2	5179.6	5059.1
15°	6277.7	6521.5	6572.8	6698.4	6747.2	6526.6	6036.5	5518.3	5177.1	5164.2
17.5°	6464.9	6364.9	6177.6	6216.1	6370.1	6529.1	6321.3	5913.4	5582.5	5541.4
20°	6775.4	6334.2	5910.8	6005.7	6134.0	6621.4	6752.3	6464.9	6275.1	6169.9
22.5°	7132.0	6388.0	5826.2	5872.4	6116.1	6829.3	7450.1	7291.0	6937.0	6785.7
25°	7791.4	6536.8	5892.9	5923.7	6257.2	7119.1	8081.3	8199.2	7988.8	7958.0
27.5°	8435.2	6921.6	6039.1	5969.8	6329.0	7401.4	8463.5	9097.2	8727.7	8655.9
30°	8763.6	7234.6	6257.2	6139.1	6626.6	7573.3	8694.3	9682.1	9358.8	9325.4
32.5°	9266.5	7519.4	6426.5	6275.1	6793.3	7786.1	9125.4	10320.8	10007.9	9841.1
35°	9476.8	7829.8	6798.5	6621.4	7270.5	8083.8	9346.0	10890.4	10792.9	10631.2
37.5°	9882.2	8163.3	7237.1	7226.9	7847.8	8471.1	9743.7	11665.2	11647.2	11367.5
40°	9915.6	8527.6	7929.9	8253.1	8740.5	9145.9	10092.5	11880.6	12173.1	11983.3
42.5°	9966.9	9166.4	9128.0	9394.7	9812.9	9725.7	10105.4	11931.9	12378.3	12265.5
45°	9989.9	9805.2	10346.5	10839.1	11013.6	10485.1	9984.8	11834.5	12486.2	12203.9
47.5°	9805.2	10354.2	11331.6	12283.5	12334.8	10952.0	9933.5	11734.5	12550.2	12363.0
50°	9830.9	10698.0	12183.4	13035.2	12847.9	11365.0	9853.9	11672.8	12516.9	12391.2
52°	9769.3	10705.7	12304.0	13019.8	12888.9	11136.7	9718.0	11436.8	12486.2	12575.9
52.5°	9838.5	10659.5	12178.3	13030.0	12860.7	11249.6	9700.0	11567.7	12504.1	12321.9
55°	9599.9	10110.5	11442.0	11803.7	11778.0	10210.6	9148.5	11134.1	12034.6	12037.1
57.5°	8676.4	8763.6	8974.0	8966.3	8848.3	8027.3	7824.7	10238.8	10728.8	10462.0
60°	7645.1	6416.2	5849.2	5618.4	5487.5	5354.1	6921.6	9366.6	9412.7	9299.8
62.5°	6606.1	4448.6	3694.3	3630.1	3661.0	4148.3	6690.7	9020.1	8743.1	8499.4
65°	5331.0	3242.7	2683.5	2598.9	2899.0	3424.9	5415.7	6916.5	6490.7	6288.0
67.5°	3347.9	2365.4	1813.8	1654.8	2016.5	2357.7	3558.3	4345.9	3868.7	3589.1
70°	1985.7	1321.2	821.0	736.3	828.6	1257.0	1993.3	2167.8	1793.3	1649.6
72.5°	782.5	484.8	228.3	194.9	202.7	441.3	733.7	715.8	541.4	482.3
75°	210.3	146.2	79.6	64.2	53.9	82.1	118.0	77.0	28.3	35.9
77.5°	97.5	87.2	69.3	53.9	41.0	30.8	15.4	5.1	5.1	2.6
80°	84.7	74.4	64.2	53.9	41.0	25.7	12.9	2.6	2.6	2.6
82.5°	79.6	69.3	59.0	48.8	38.5	25.7	12.9	2.6	0.0	0.0
85°	33.4	43.6	48.8	46.2	41.0	25.7	12.9	2.6	0.0	0.0
87.5°	18.0	15.4	12.9	10.3	7.7	5.1	5.1	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

(END OF REPORT)