

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: P531224

Luminaire Tested: **GALN-SA6C-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32120 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 321
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

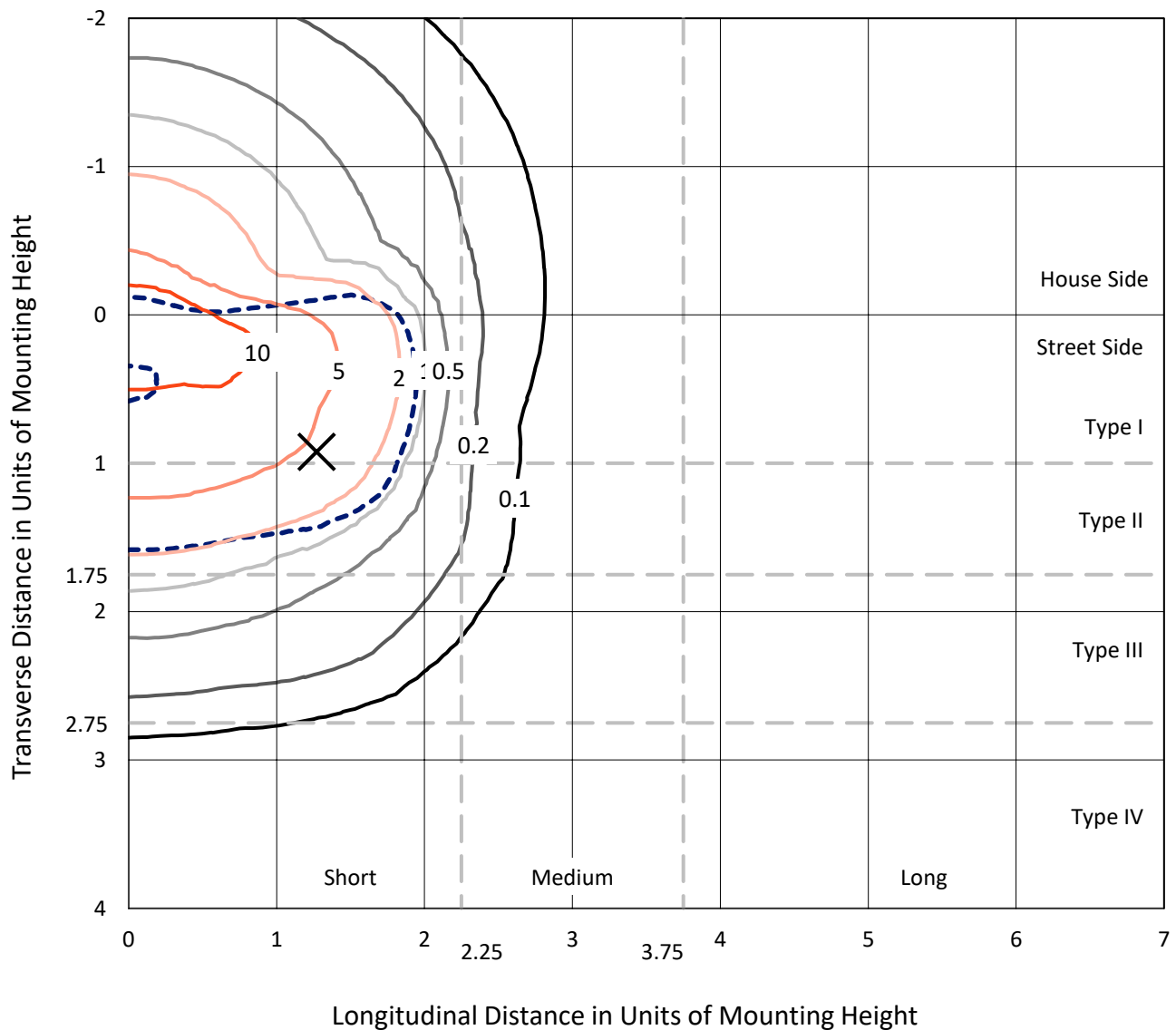


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Iso-Footcandle Lines of Horizontal Illumination

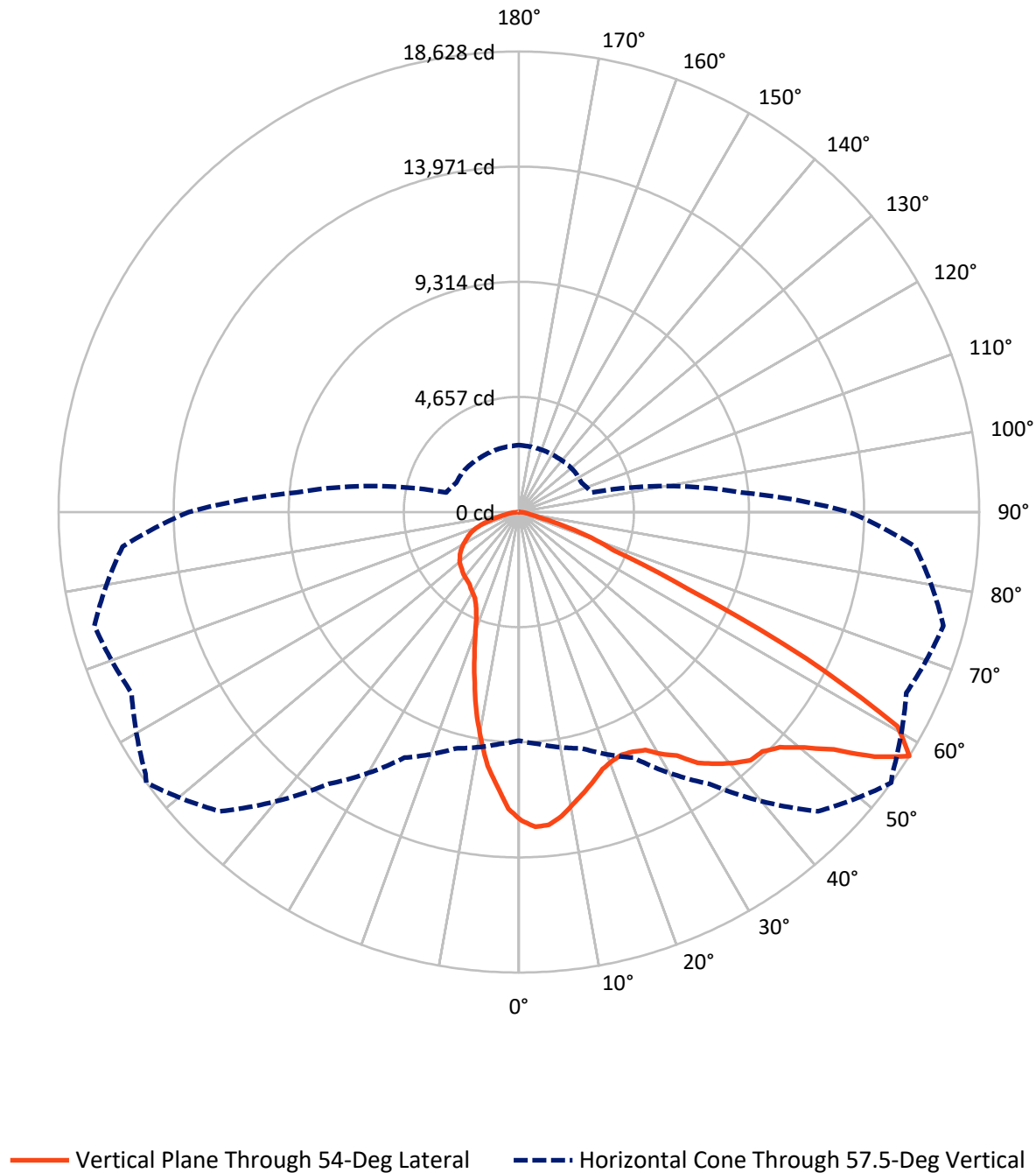
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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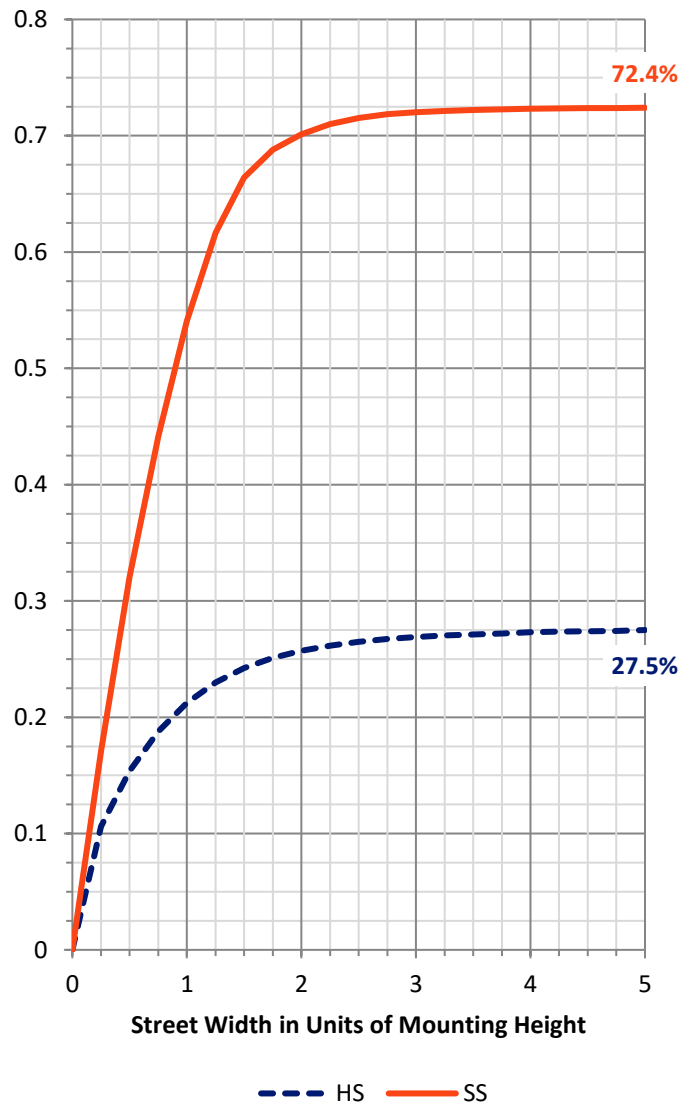
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8886.2	0.0	8886.2
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	23233.8	0.0	23233.8
	% Fixture	72.3	0.0	72.3
Total	Lumens	32120.0	0.0	32120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.7	3.4
10°-20°	2492.9	7.8
20°-30°	3502.6	10.9
30°-40°	4896.6	15.2
40°-50°	6629.1	20.6
50°-60°	8074.5	25.1
60°-70°	4205.6	13.1
70°-80°	1077.6	3.4
80°-90°	164.4	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°	32120.0	100.0
0°-180°	32120.0	100.0

Coefficient of Utilization



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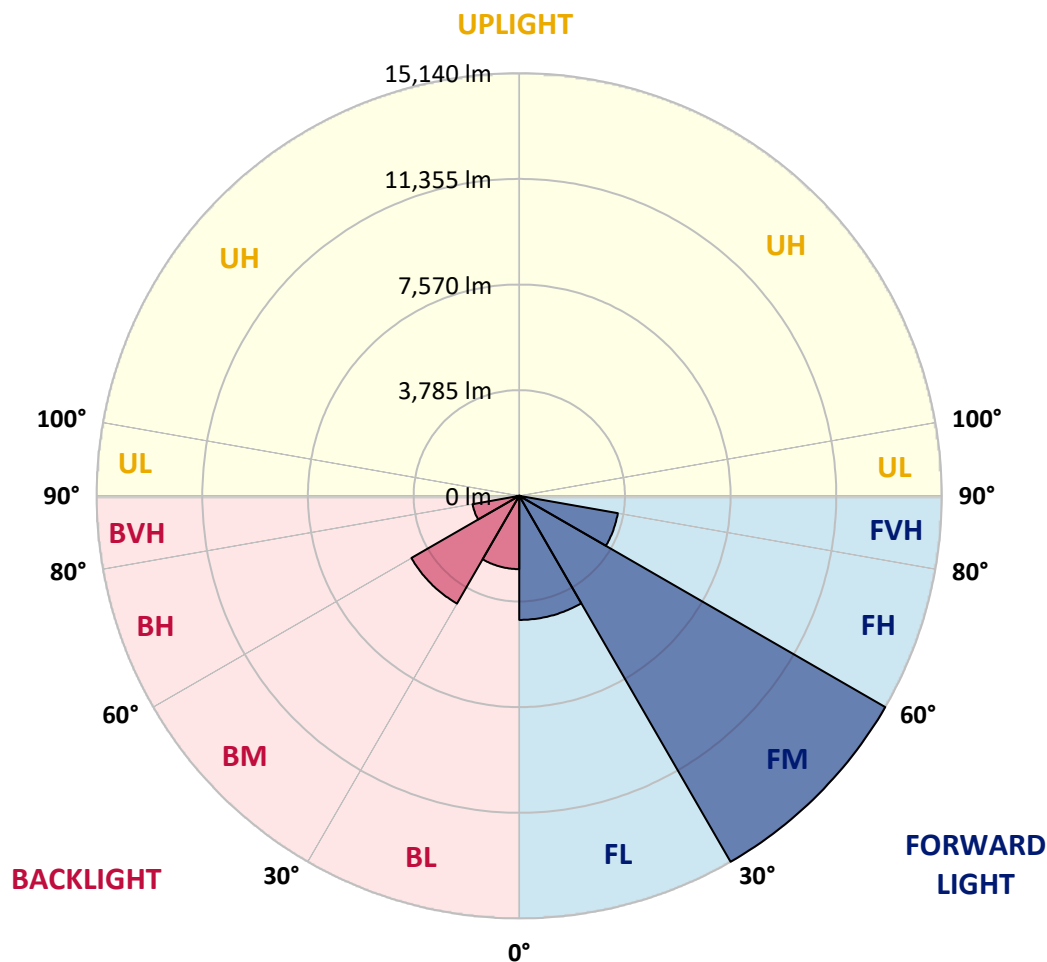
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4445.8	13.8			
FM	(30°-60°)	15140.4	47.1			
FH	(60°-80°)	3585.5	11.2			G2/5000
FVH	(80°-90°)	62.1	0.2			G1/100
BL	(0°-30°)	2626.3	8.2	B4/5000		
BM	(30°-60°)	4459.9	13.9	B3/5000		
BH	(60°-80°)	1697.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	102.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7
2.5°	12839.7	12790.2	12798.4	12864.5	12781.9	12748.9	12748.9	12587.9	12600.3	12488.8	12459.9
5°	12542.5	12426.9	12505.3	12604.4	12620.9	12653.9	12707.6	12666.3	12550.7	12431.0	12237.0
7.5°	11766.3	11869.5	11898.4	11968.6	12117.2	12253.5	12422.7	12307.1	12303.0	12183.3	12067.7
10°	11085.1	11023.2	11180.1	11283.3	11531.0	11758.1	12018.2	12005.8	12067.7	11931.5	11733.3
12.5°	10408.0	10358.5	10432.8	10668.1	11014.9	11345.2	11654.8	11539.2	11869.5	11844.8	11419.5
15°	9689.7	9726.8	9834.2	10053.0	10507.1	10903.4	11295.7	11299.8	11592.9	11692.0	11122.3
17.5°	9186.0	9144.7	9280.9	9607.1	10011.7	10486.5	10932.3	11023.2	11473.2	11531.0	11031.4
20°	8810.3	8868.1	9045.6	9210.8	9677.3	10251.1	10754.8	10787.9	11448.4	11605.3	10886.9
22.5°	8719.5	8686.4	8744.2	9012.6	9396.5	10019.9	10659.9	10783.7	11444.3	11580.5	10614.5
25°	8624.5	8731.8	8727.7	8996.1	9276.8	9834.2	10738.3	10874.5	11663.1	11708.5	10651.6
27.5°	8839.2	8826.8	8942.4	8963.0	9309.8	9883.7	10903.4	11006.7	12026.4	11989.3	10680.5
30°	9053.9	8991.9	9062.1	9305.7	9466.7	10168.6	11357.6	11349.3	12497.1	12472.3	10771.3
32.5°	9318.1	9289.2	9334.6	9549.3	9821.8	10548.4	11741.5	11985.1	12976.0	13132.9	11085.1
35°	9367.6	9487.4	9594.7	9883.7	10271.8	11163.5	12464.0	12666.3	13529.2	14020.5	11683.7
37.5°	9681.4	9726.8	9978.7	10490.6	10845.6	11985.1	12922.3	13050.3	14032.9	14590.2	12315.4
40°	10015.8	10069.5	10449.3	10986.0	11473.2	12521.8	13351.7	13393.0	14193.9	15027.9	12728.3
42.5°	10470.0	10519.5	10895.2	11568.1	12220.5	12980.1	13731.5	13776.9	14181.5	15531.5	13384.7
45°	10940.6	11060.3	11502.1	12265.9	12852.1	13516.8	13818.2	14004.0	14297.1	15981.5	13917.3
47.5°	11601.2	11712.6	12076.0	12823.2	13508.6	13987.5	14218.7	14400.3	14573.7	16373.8	14259.9
50°	12303.0	12323.7	12765.4	13442.5	13946.2	14520.0	14965.9	15027.9	14937.0	16827.9	14842.1
52.5°	12819.1	12885.1	13227.8	13888.4	14639.8	15345.7	15956.8	16022.8	15845.3	16997.2	15040.2
55°	11964.5	11927.3	12484.7	13364.1	15106.3	16576.0	17463.7	17513.2	16505.9	17521.5	15688.4
57.5°	9247.9	9425.4	9900.2	10961.2	13421.9	17121.0	18627.9	18450.4	17298.5	17785.7	16101.3
60°	6721.2	6680.0	6997.9	7708.0	10114.9	14755.4	17612.3	17794.0	16650.4	16031.1	13277.4
62.5°	5474.4	5416.6	5441.4	5466.2	6527.2	9792.9	13037.9	13033.8	12823.2	11522.7	8954.8
65°	4376.2	4512.5	4524.9	4710.7	4846.9	5850.1	7555.2	7959.8	6931.8	5685.0	4124.4
67.5°	3298.7	3249.2	3414.3	4074.9	4330.8	4223.5	4124.4	4169.8	2964.3	2138.6	2014.7
70°	1944.5	1923.9	2122.1	2840.4	3567.1	3356.5	3108.8	3112.9	2035.4	1494.5	1663.8
72.5°	1065.2	1061.0	1102.3	1440.9	2027.1	2105.6	1866.1	1923.9	1213.8	1209.7	1300.5
75°	594.5	582.1	569.7	635.8	730.7	772.0	788.5	796.8	834.0	933.0	970.2
77.5°	218.8	210.6	210.6	243.6	309.6	388.1	491.3	499.6	590.4	677.1	714.2
80°	74.3	82.6	111.5	152.8	206.4	276.6	334.4	342.7	417.0	474.8	487.2
82.5°	45.4	49.5	74.3	107.3	148.6	194.0	247.7	251.8	309.6	346.8	363.3
85°	20.6	24.8	41.3	66.1	95.0	128.0	132.1	132.1	128.0	132.1	123.9
87.5°	0.0	0.0	8.3	8.3	8.3	12.4	16.5	12.4	20.6	24.8	24.8
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°	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7	12484.7
2.5°	12373.2	12327.8	12187.4	12063.6	12026.4	11861.3	11617.7	11646.6	11469.1	11551.6	11464.9
5°	12203.9	12051.2	11692.0	11539.2	11138.8	10957.1	10833.3	10523.6	10379.1	10350.2	10226.4
7.5°	11770.4	11675.5	11225.5	10812.6	10387.4	10024.1	9557.5	9239.7	9012.6	8950.7	8769.0
10°	11427.8	11217.2	10593.8	9966.3	9359.4	8727.7	8120.8	7646.0	7414.8	7146.5	7055.7
12.5°	11089.2	10771.3	9929.1	9124.1	8339.6	7542.8	6807.9	6230.0	5726.3	5606.5	5565.3
15°	10878.7	10325.5	9334.6	8364.4	7249.7	6209.3	5474.4	5094.6	4785.0	4657.0	4747.8
17.5°	10602.1	9958.0	8764.9	7472.6	6246.5	5288.6	4673.5	4438.2	4326.7	4339.1	4301.9
20°	10255.3	9611.2	8017.6	6663.4	5350.6	4586.8	4235.9	4149.2	4165.7	4194.6	4182.2
22.5°	10007.6	9190.1	7476.8	5837.7	4624.0	4198.7	4054.2	3992.3	4046.0	4070.7	4050.1
25°	9817.6	8830.9	6820.3	5107.0	4202.8	3979.9	3913.8	3909.7	3992.3	4025.3	4004.7
27.5°	9644.2	8496.5	6168.0	4549.6	3922.1	3810.6	3790.0	3839.5	3893.2	3926.2	3955.1
30°	9541.0	8240.5	5557.0	4083.1	3781.7	3728.1	3690.9	3736.3	3765.2	3798.2	3781.7
32.5°	9640.1	8058.9	4966.6	3818.9	3666.1	3612.5	3662.0	3633.1	3682.6	3711.5	3666.1
35°	9949.8	7897.9	4545.5	3678.5	3534.0	3554.7	3562.9	3550.5	3571.2	3546.4	3600.1
37.5°	10255.3	7840.1	4157.4	3558.8	3472.1	3472.1	3463.8	3439.1	3480.4	3472.1	3496.9
40°	10643.4	7877.2	3827.1	3430.8	3414.3	3406.0	3373.0	3368.9	3352.4	3356.5	3364.8
42.5°	10981.9	7959.8	3637.2	3348.2	3360.6	3377.1	3315.2	3265.7	3286.3	3245.0	3245.0
45°	11341.1	8034.1	3468.0	3290.4	3278.1	3273.9	3224.4	3195.5	3179.0	3183.1	3220.3
47.5°	11906.7	8141.5	3340.0	3212.0	3220.3	3158.3	3145.9	3108.8	3125.3	3150.1	3154.2
50°	12307.1	8368.5	3240.9	3121.2	3150.1	3108.8	3034.5	3018.0	3018.0	3059.2	3051.0
52.5°	12587.9	8686.4	3145.9	3022.1	3034.5	3001.4	2976.7	2939.5	2914.7	2972.5	3001.4
55°	13446.6	9214.9	3121.2	2939.5	2935.4	2902.4	2856.9	2819.8	2807.4	2815.7	2873.5
57.5°	13364.1	9049.7	3042.7	2795.0	2786.8	2741.3	2695.9	2683.5	2679.4	2687.7	2704.2
60°	10849.8	6684.1	2716.6	2629.9	2617.5	2609.2	2563.8	2514.3	2489.5	2514.3	2493.6
62.5°	7179.5	4475.3	2394.5	2431.7	2440.0	2419.3	2345.0	2295.5	2303.7	2332.6	2287.2
65°	3525.8	2629.9	2171.6	2270.7	2278.9	2221.1	2151.0	2093.2	2064.3	2089.0	2068.4
67.5°	2014.7	2010.6	1990.0	2093.2	2089.0	2031.2	1919.8	1870.2	1820.7	1828.9	1816.6
70°	1709.2	1742.2	1783.5	1845.5	1841.3	1775.3	1643.2	1606.0	1535.8	1527.6	1506.9
72.5°	1345.9	1403.7	1494.5	1539.9	1502.8	1420.2	1333.5	1271.6	1209.7	1172.5	1184.9
75°	999.1	1081.7	1131.2	1160.1	1102.3	1056.9	986.7	912.4	838.1	805.1	792.7
77.5°	726.6	751.4	796.8	817.4	780.3	734.9	693.6	619.3	549.1	503.7	491.3
80°	507.8	524.3	557.4	557.4	557.4	536.7	483.0	408.7	363.3	322.0	313.8
82.5°	355.1	371.6	404.6	388.1	384.0	359.2	326.2	268.4	218.8	189.9	181.7
85°	123.9	136.2	165.1	198.2	210.6	206.4	185.8	148.6	115.6	95.0	86.7
87.5°	28.9	28.9	33.0	28.9	28.9	33.0	28.9	28.9	28.9	20.6	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)