

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: P454779

Luminaire Tested: **GALN-SA5D-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30729 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 309
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

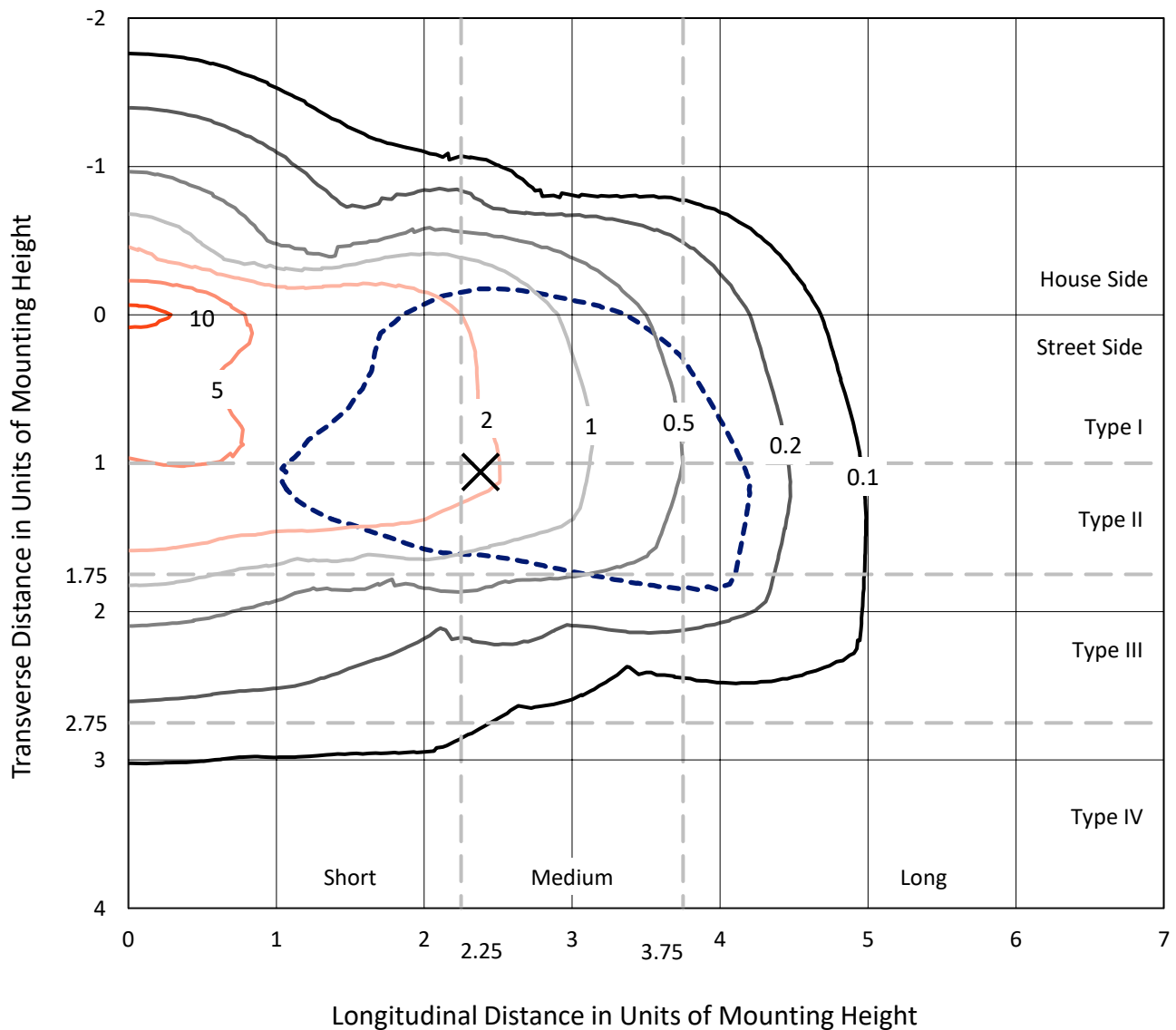


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

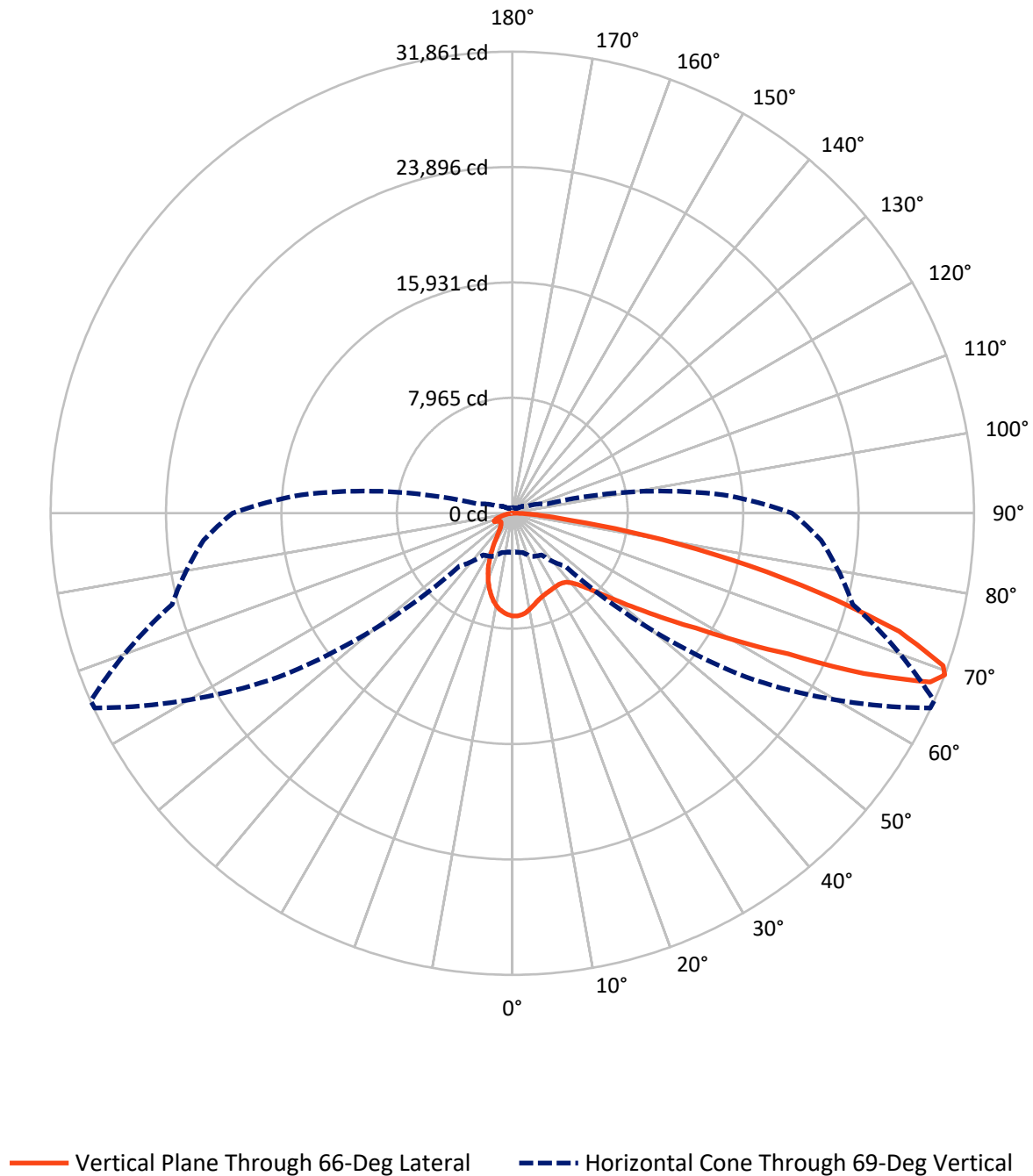


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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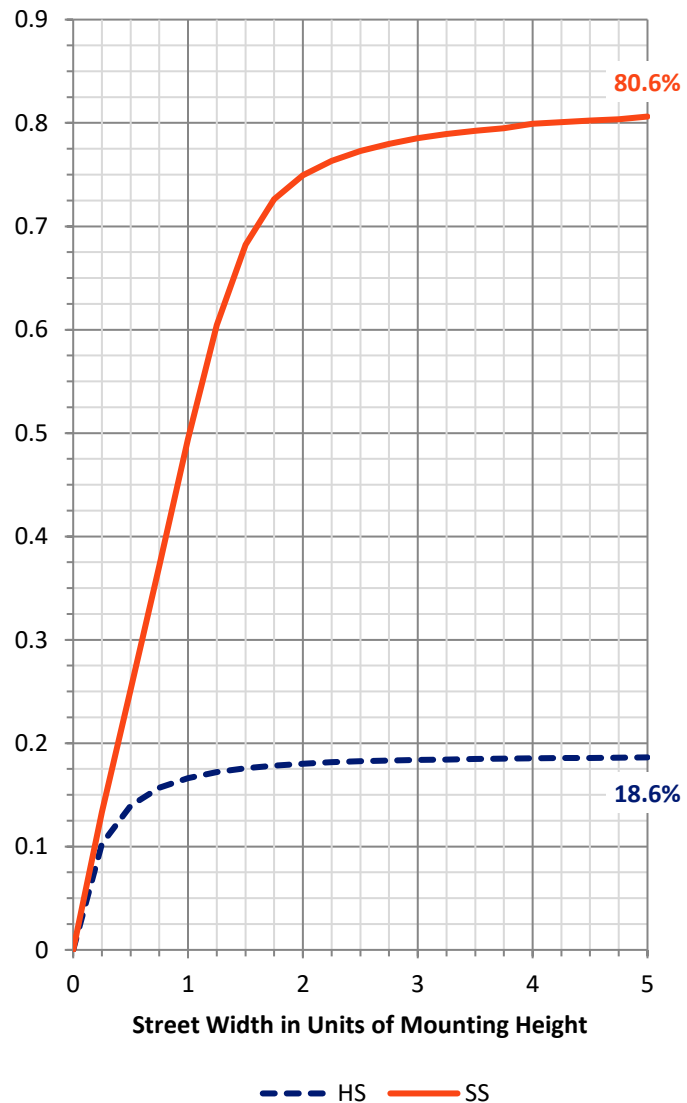
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5779.0	0.0	5779.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	24950.0	0.0	24950.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	30729.0	0.0	30729.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	616.2	2.0
10°-20°	1461.6	4.8
20°-30°	1989.8	6.5
30°-40°	2673.9	8.7
40°-50°	3992.6	13.0
50°-60°	6350.8	20.7
60°-70°	7811.2	25.4
70°-80°	5082.3	16.5
80°-90°	750.5	2.4
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°	30729.0	100.0
0°-180°	30729.0	100.0

Coefficient of Utilization



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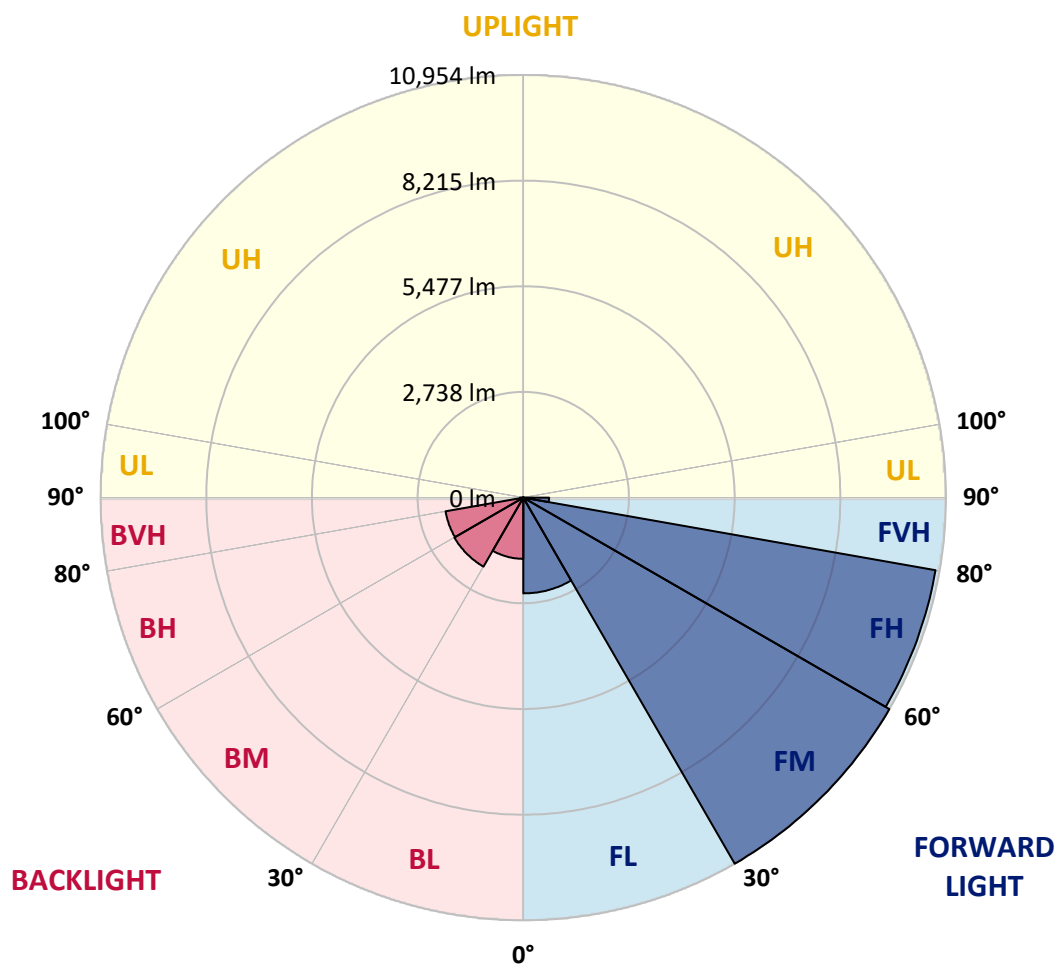
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2481.3	8.1			
FM	(30°-60°)	10954.0	35.6			
FH	(60°-80°)	10847.5	35.3			G4/12000
FVH	(80°-90°)	667.2	2.2			G4/750
BL	(0°-30°)	1586.3	5.2	B3/2500		
BM	(30°-60°)	2063.3	6.7	B2/2500		
BH	(60°-80°)	2046.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	83.3	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	6847.7	6875.0	6905.6	6939.6	7004.3	7040.0	7065.5	7094.5	7097.9	7113.2	7101.3
5°	6342.3	6374.6	6420.6	6485.3	6582.3	6733.7	6890.3	7017.9	7033.2	7104.7	7125.1
7.5°	5920.3	5939.0	5976.4	6080.3	6218.1	6386.6	6614.6	6873.3	6910.7	7080.9	7140.4
10°	5576.5	5595.3	5639.5	5746.7	5882.9	6093.9	6344.0	6684.4	6715.0	7007.7	7143.8
12.5°	5319.6	5336.6	5384.2	5489.8	5646.3	5843.7	6119.4	6480.2	6524.4	6910.7	7111.5
15°	5123.9	5156.2	5195.4	5282.1	5447.2	5637.8	5905.0	6293.0	6328.7	6808.6	7089.4
17.5°	5040.5	5055.8	5083.0	5163.0	5283.8	5471.0	5739.9	6146.6	6189.2	6737.1	7084.3
20°	5043.9	5059.2	5064.3	5108.6	5195.4	5357.0	5622.5	6030.9	6082.0	6674.2	7092.8
22.5°	5159.6	5161.3	5142.6	5127.3	5161.3	5295.8	5539.1	5944.1	6003.7	6646.9	7099.6
25°	5338.3	5368.9	5341.7	5270.2	5207.3	5271.9	5506.8	5896.5	5952.6	6607.8	7091.1
27.5°	5627.6	5632.7	5610.6	5513.6	5350.2	5302.6	5493.2	5860.7	5908.4	6578.9	7048.5
30°	6015.6	6000.3	5979.9	5872.6	5615.7	5420.0	5522.1	5828.4	5877.7	6536.3	6997.5
32.5°	6408.7	6456.3	6437.6	6311.7	5978.1	5648.0	5615.7	5825.0	5865.8	6504.0	6941.3
35°	6825.6	6847.7	6936.2	6871.6	6529.5	6017.3	5791.0	5877.7	5910.1	6505.7	6902.2
37.5°	7152.3	7211.9	7419.5	7475.7	7154.0	6505.7	6075.1	6027.5	6041.1	6589.1	6917.5
40°	7547.1	7649.2	7916.4	8146.1	7935.1	7140.4	6558.4	6304.9	6321.9	6789.9	7017.9
42.5°	8047.4	8118.9	8478.0	8789.4	8755.4	7979.4	7143.8	6759.2	6767.7	7189.8	7298.7
45°	8632.8	8734.9	9138.2	9606.2	9686.2	8928.9	7989.6	7446.7	7441.6	7810.9	7822.8
47.5°	9381.6	9444.6	9844.5	10355.0	10678.3	10121.8	9015.7	8433.7	8379.3	8716.2	8619.2
50°	10070.8	10169.5	10472.4	11030.6	11835.5	11519.0	10365.2	9713.4	9585.8	9900.6	9737.3
52.5°	10360.1	10463.9	10719.1	11411.7	12827.6	13326.2	12078.8	11239.9	11027.2	11268.8	11209.2
55°	9858.1	9992.5	10230.8	11073.1	13263.2	15410.8	14389.8	13004.6	12849.7	12745.9	12762.9
57.5°	8508.6	8636.2	8957.9	9887.0	12742.5	16923.6	17689.4	15273.0	14941.1	14462.9	14544.6
60°	6476.8	6556.7	6723.5	7753.0	11199.0	17316.7	21436.6	18140.4	17929.3	16173.2	16231.0
62.5°	4599.8	4689.9	4805.7	5319.6	8198.9	16208.9	24370.4	22144.5	21390.6	17944.7	17888.5
65°	3735.3	3674.0	3813.6	4053.5	4810.8	12562.1	25030.6	27702.3	26664.3	20277.7	19498.3
67.5°	3071.6	3006.9	3144.8	3571.9	3658.7	7291.9	22651.6	31310.0	31102.4	22815.0	21133.7
69°	2719.4	2685.3	2806.1	3292.8	3512.4	5178.3	19733.2	31812.0	31861.3	24310.8	21385.5
70°	2450.5	2464.1	2581.5	3151.6	3446.0	4269.6	16865.8	31119.4	31538.0	25057.9	21113.3
72.5°	1803.8	1832.8	1996.1	2610.4	3383.0	3623.0	10036.8	27181.6	27921.9	25102.1	19314.5
75°	1261.0	1247.4	1392.0	1965.5	3195.8	3590.6	5894.8	21021.4	21860.3	21697.0	16229.3
77.5°	825.3	847.5	963.2	1388.6	2688.7	3563.4	3842.5	14913.9	15458.4	14510.6	9599.4
80°	582.0	580.3	645.0	947.9	1994.4	3423.9	3146.5	9400.3	9262.5	5702.5	2847.0
82.5°	333.5	357.4	432.2	667.1	1334.1	3013.7	2894.6	4495.9	4104.6	1625.1	961.5
85°	185.5	194.0	257.0	403.3	779.4	2270.1	2527.1	2045.5	1929.8	679.0	413.5
87.5°	59.6	64.7	107.2	204.2	354.0	1072.1	1431.1	944.5	871.3	245.0	166.8
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°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	7106.4	7126.8	7072.4	7019.6	6972.0	6905.6	6846.0	6796.7	6762.6	6757.5	6740.5
5°	7130.2	7131.9	7028.1	6888.6	6752.4	6602.7	6447.8	6337.2	6233.4	6175.5	6146.6
7.5°	7147.2	7131.9	6944.7	6718.4	6456.3	6184.1	5911.8	5694.0	5525.5	5459.1	5484.6
10°	7140.4	7092.8	6818.8	6456.3	6075.1	5668.4	5277.0	4970.7	4689.9	4545.3	4548.7
12.5°	7103.0	7024.7	6631.6	6161.9	5602.1	5057.5	4458.5	4045.0	3720.0	3527.7	3468.1
15°	7070.7	6934.5	6412.1	5762.0	5066.0	4288.3	3558.3	3047.8	2775.5	2624.1	2622.4
17.5°	7036.6	6847.7	6172.1	5338.3	4450.0	3449.4	2683.6	2293.9	2166.3	2181.6	2156.1
20°	7000.9	6745.6	5922.0	4866.9	3699.5	2573.0	2009.7	1851.5	1887.2	1957.0	1967.2
22.5°	6960.0	6636.7	5653.1	4347.9	2909.9	1936.6	1630.2	1606.4	1698.3	1807.2	1822.5
25°	6897.1	6500.6	5314.5	3805.0	2244.6	1560.5	1427.7	1444.8	1535.0	1626.8	1637.1
27.5°	6808.6	6332.1	4972.4	3127.8	1686.4	1339.3	1305.2	1327.3	1371.6	1427.7	1441.4
30°	6689.5	6141.5	4579.3	2542.4	1351.2	1228.6	1215.0	1226.9	1252.5	1276.3	1283.1
32.5°	6570.3	5957.7	4182.8	1946.8	1204.8	1155.5	1141.9	1141.9	1141.9	1145.3	1147.0
35°	6459.7	5784.2	3757.4	1516.2	1128.2	1097.6	1078.9	1058.5	1055.1	1043.2	1043.2
37.5°	6398.5	5625.9	3304.7	1269.5	1072.1	1050.0	1024.4	990.4	971.7	973.4	970.0
40°	6410.4	5522.1	2892.9	1129.9	1026.1	1002.3	963.2	924.0	912.1	912.1	908.7
42.5°	6544.8	5488.1	2498.1	1056.8	981.9	954.7	905.3	869.6	862.8	861.1	864.5
45°	6854.5	5571.4	2144.2	1009.1	944.5	903.6	854.3	821.9	815.1	815.1	813.4
47.5°	7458.6	5842.0	1890.6	978.5	917.2	864.5	813.4	781.1	769.2	765.8	765.8
50°	8398.0	6429.1	1701.7	951.3	883.2	828.7	776.0	738.5	719.8	718.1	716.4
52.5°	9703.2	7344.6	1628.5	930.8	845.8	791.3	733.4	697.7	673.9	668.8	665.4
55°	11229.7	8622.6	1728.9	915.5	806.6	748.8	689.2	651.8	629.6	619.4	617.7
57.5°	12997.8	10157.6	2110.1	895.1	770.9	702.8	645.0	607.5	583.7	571.8	568.4
60°	14585.5	11735.1	2775.5	883.2	740.2	653.5	593.9	559.9	537.7	525.8	524.1
62.5°	16329.7	13239.4	3570.2	915.5	726.6	605.8	546.3	515.6	496.9	485.0	485.0
65°	18193.1	14745.4	4096.0	1024.4	747.1	568.4	495.2	469.7	452.7	444.1	442.4
67.5°	19449.0	15266.1	3374.5	1136.8	798.1	527.5	445.9	425.4	415.2	406.7	406.7
69°	19312.8	14607.6	2489.6	1165.7	813.4	507.1	418.6	403.3	389.7	386.3	382.9
70°	18882.3	13857.1	2086.3	1147.0	801.5	488.4	401.6	382.9	371.0	367.6	365.9
72.5°	16818.1	12017.6	1553.7	997.2	682.4	423.7	355.7	338.6	328.4	323.3	323.3
75°	13972.8	9822.3	1213.3	793.0	534.3	357.4	304.6	291.0	282.5	279.1	277.4
77.5°	7831.3	5484.6	871.3	621.1	405.0	289.3	255.3	243.3	234.8	231.4	231.4
80°	2181.6	1567.3	512.2	410.1	275.7	219.5	202.5	194.0	182.1	173.6	178.7
82.5°	821.9	679.0	292.7	246.7	175.3	146.3	141.2	134.4	129.3	117.4	117.4
85°	399.9	330.1	187.2	131.0	97.0	76.6	73.2	69.8	66.4	57.9	59.6
87.5°	137.8	146.3	81.7	47.6	28.9	18.7	15.3	8.5	8.5	8.5	8.5
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)