

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: P457100

Luminaire Tested: **GALN-SA8B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30204 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): 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

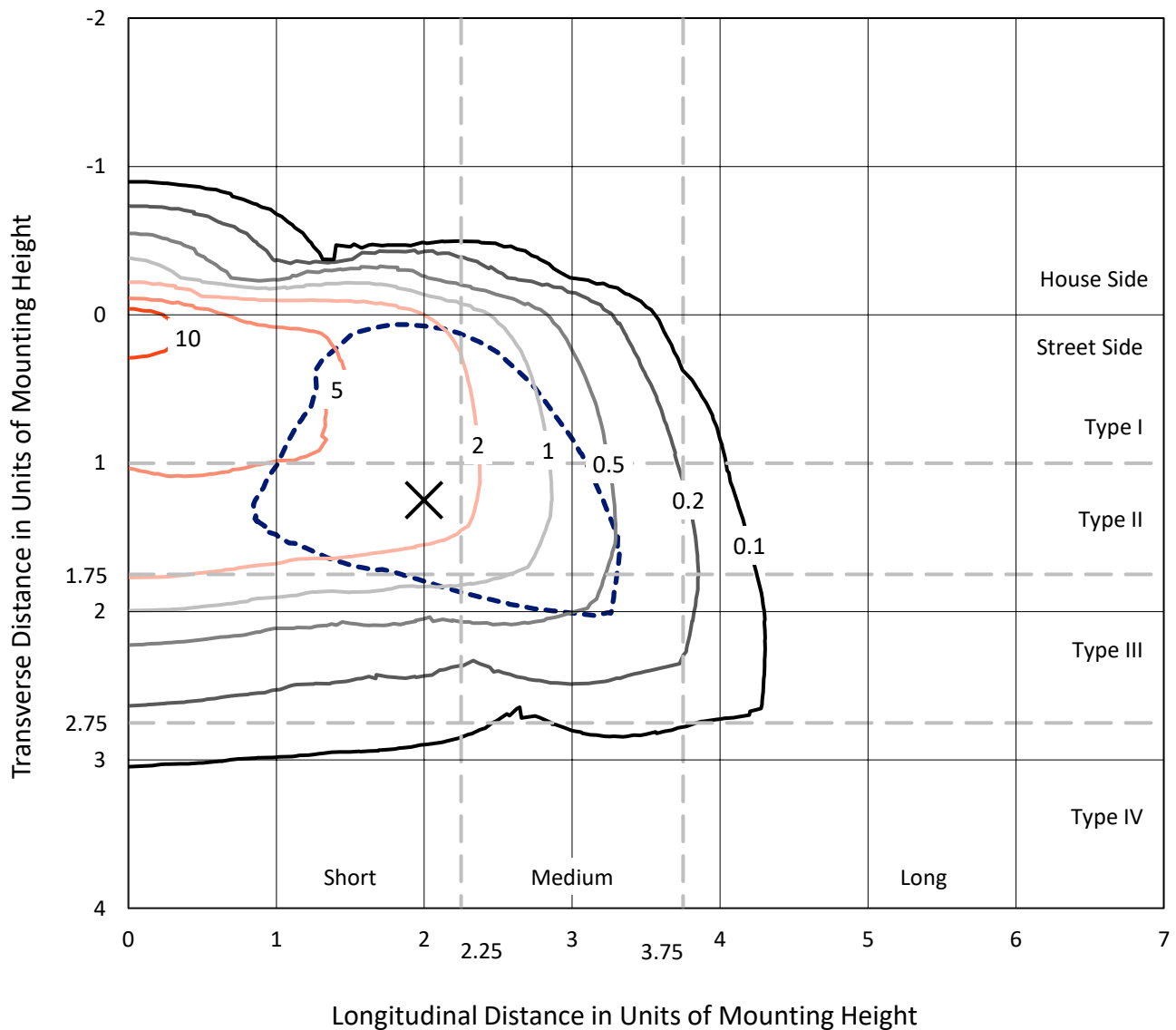


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

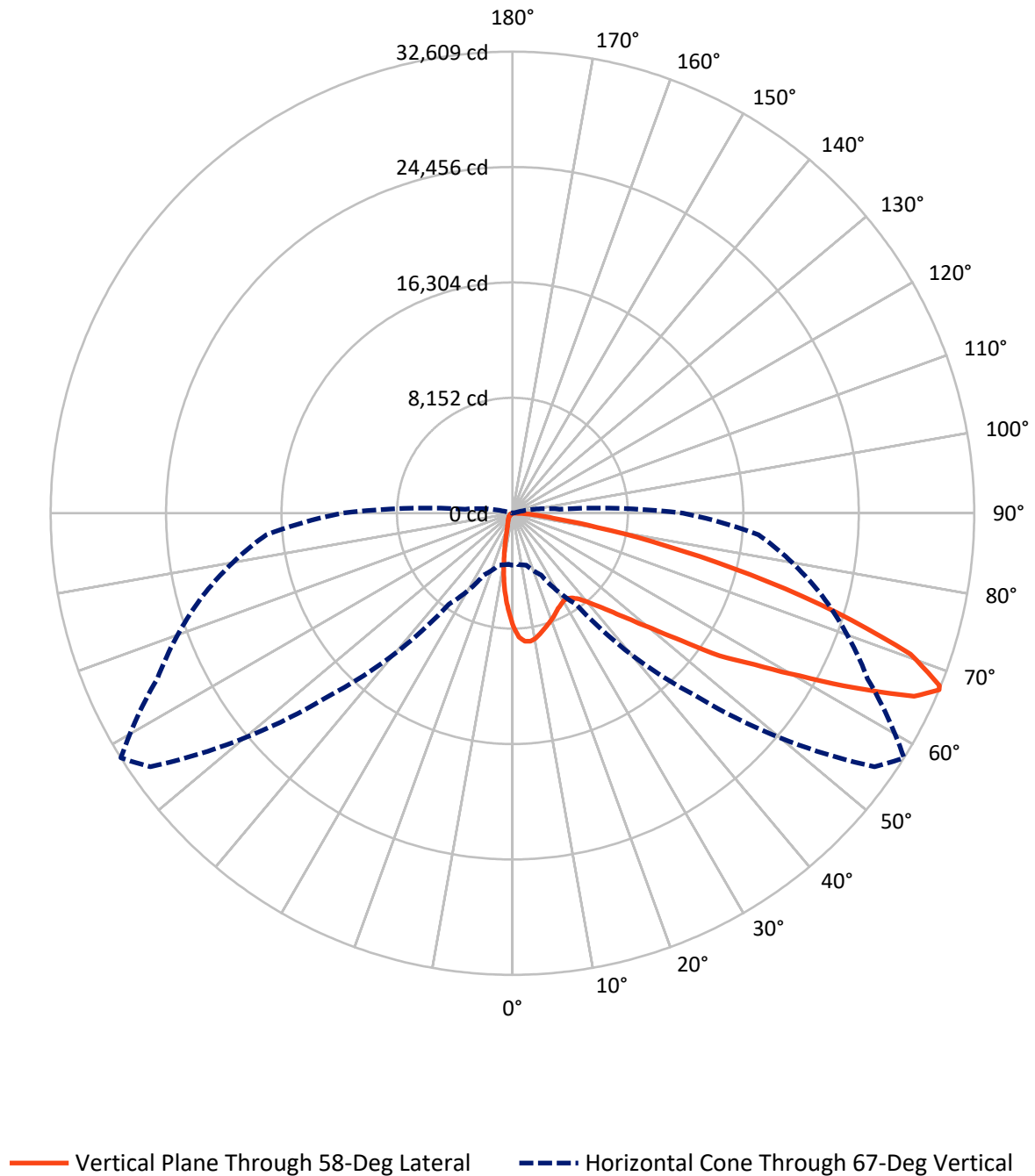


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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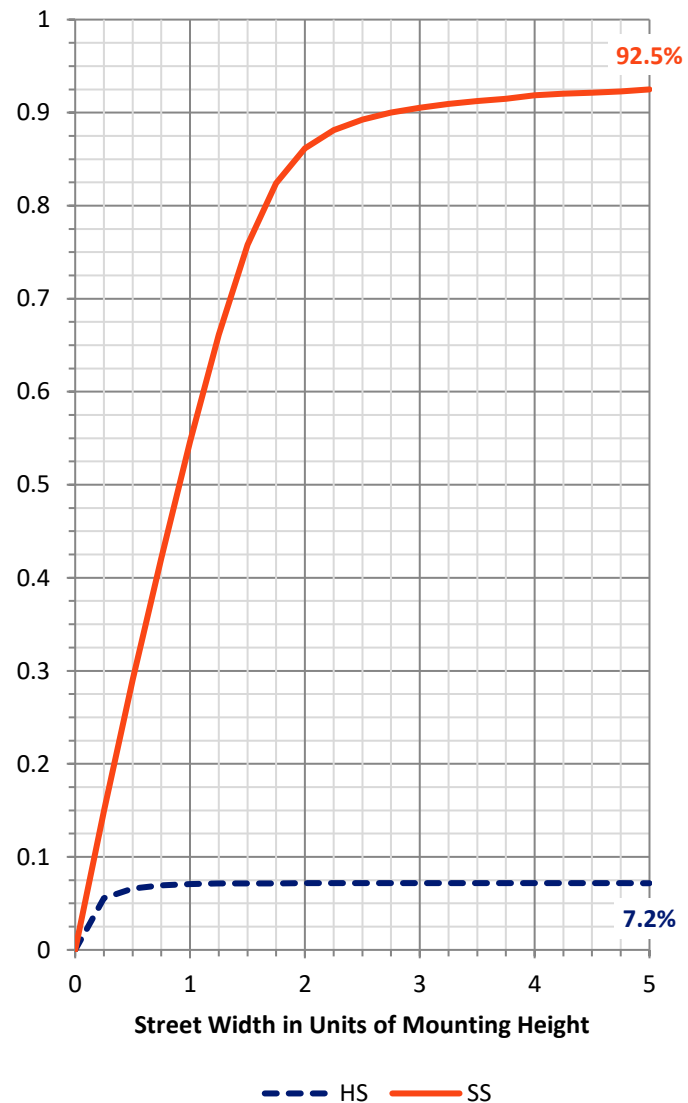
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2179.7	0.0	2179.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	28024.3	0.0	28024.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	30204.0	0.0	30204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.7	2.2
10°-20°	1403.3	4.6
20°-30°	1901.5	6.3
30°-40°	2637.3	8.7
40°-50°	4206.2	13.9
50°-60°	7270.8	24.1
60°-70°	8305.5	27.5
70°-80°	3462.6	11.5
80°-90°	367.1	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°	30204.0	100.0
0°-180°	30204.0	100.0

Coefficient of Utilization



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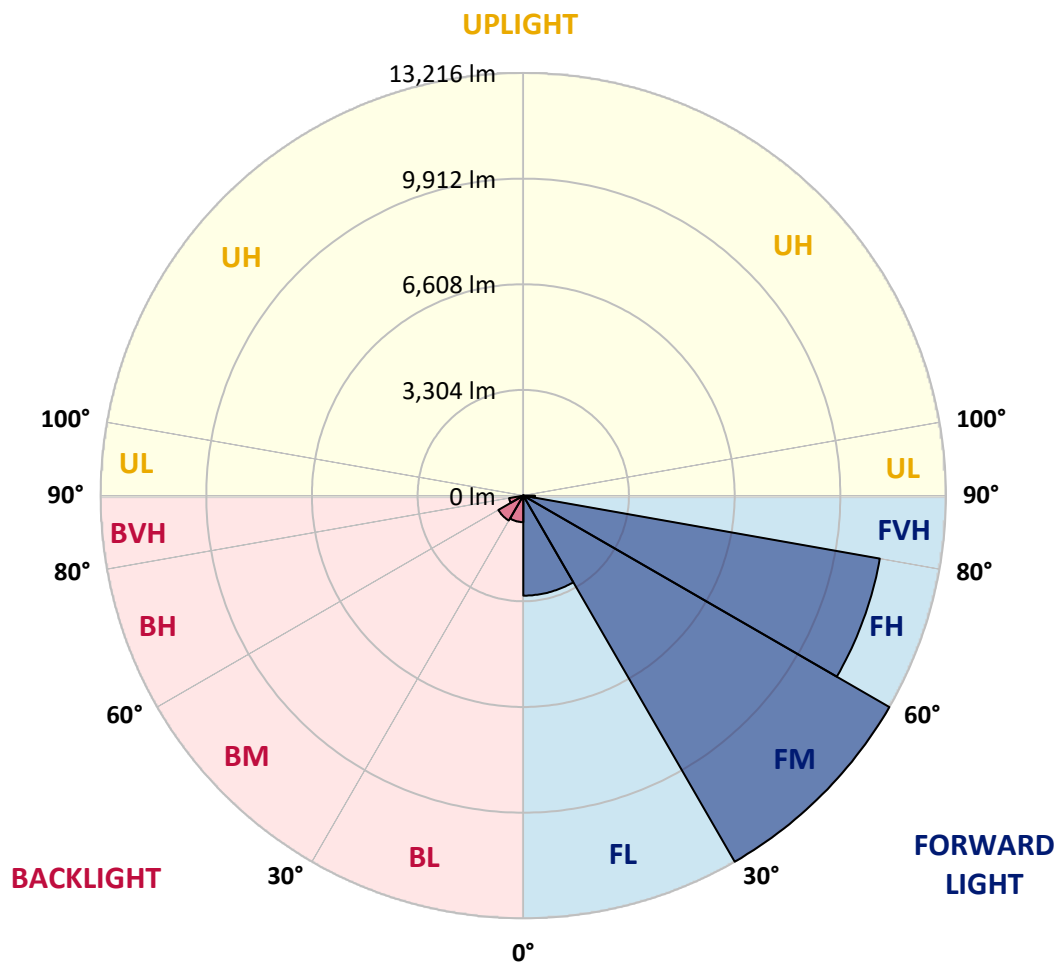
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3126.8	10.4			
FM	(30°-60°)	13215.5	43.8			
FH	(60°-80°)	11317.5	37.5			G4/12000
FVH	(80°-90°)	364.5	1.2			G3/500
BL	(0°-30°)	827.7	2.7	B2/1000		
BM	(30°-60°)	898.7	3.0	B1/1000		
BH	(60°-80°)	450.6	1.5	B1/500		G1/500
BVH	(80°-90°)	2.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8
2.5°	9292.5	9306.6	9254.1	9211.8	9102.8	8985.7	8830.3	8747.5	8606.3	8362.0	8091.6
5°	9510.5	9528.6	9520.6	9510.5	9468.1	9355.1	9157.3	9084.6	8876.7	8479.1	7990.7
7.5°	9026.1	9092.7	9100.7	9179.5	9254.1	9264.2	9189.6	9135.1	8943.3	8477.1	7811.0
10°	8384.2	8428.6	8493.2	8584.1	8763.7	8913.0	8985.7	8977.6	8866.6	8414.5	7601.1
12.5°	7736.3	7760.6	7859.5	8014.9	8234.9	8489.2	8683.0	8721.3	8723.3	8339.8	7425.5
15°	7179.3	7169.2	7245.9	7425.5	7734.3	8053.2	8400.4	8460.9	8557.8	8267.2	7262.0
17.5°	6702.9	6755.4	6767.5	6965.3	7249.9	7663.7	8105.7	8212.7	8406.4	8204.6	7126.8
20°	6408.3	6436.5	6462.8	6573.8	6830.1	7266.1	7829.2	7976.5	8265.2	8148.1	6975.4
22.5°	6321.5	6339.6	6317.4	6351.8	6533.4	6920.9	7528.5	7724.2	8129.9	8095.6	6852.3
25°	6388.1	6406.2	6353.8	6313.4	6376.0	6640.4	7237.8	7476.0	8020.9	8085.5	6759.5
27.5°	6549.6	6583.9	6511.2	6438.5	6402.2	6489.0	7009.7	7286.3	7946.3	8134.0	6717.1
30°	6801.8	6822.0	6767.5	6678.7	6596.0	6509.2	6890.7	7155.1	7926.1	8247.0	6713.0
32.5°	7076.3	7118.7	7088.5	7029.9	6922.9	6717.1	6925.0	7159.1	7974.5	8410.5	6763.5
35°	7415.4	7463.9	7492.1	7480.0	7342.8	7086.4	7142.9	7340.7	8103.7	8711.2	6900.7
37.5°	7748.5	7790.8	7950.3	8004.8	7883.7	7641.5	7566.8	7698.0	8388.3	9104.8	7149.0
40°	8129.9	8186.4	8410.5	8618.4	8559.8	8305.5	8168.3	8277.3	8824.2	9698.2	7619.3
42.5°	8495.2	8596.2	8937.3	9304.6	9359.1	9074.5	8983.7	9020.0	9470.1	10551.9	8275.2
45°	9014.0	9108.8	9548.8	10047.4	10303.7	10081.7	9988.8	9982.8	10356.2	11752.9	9338.9
47.5°	9762.8	9847.5	10366.3	10858.7	11314.9	11345.2	11169.6	11230.1	11470.3	13157.6	10642.8
50°	10681.1	10880.9	11222.0	11734.7	12344.2	12836.7	12891.2	12810.5	13016.4	14784.4	12209.0
52.5°	12015.3	12091.9	12404.8	12826.6	13541.1	14376.7	15024.6	14913.6	14849.0	16334.5	13791.4
55°	13010.3	13113.2	13599.7	14178.9	15226.4	16328.5	17733.2	17771.6	16956.2	17824.1	15339.5
57.5°	12709.6	12867.0	13603.7	14768.3	17071.2	19085.5	20131.0	20157.3	18905.9	19271.2	17087.4
60°	11165.5	11240.2	12295.8	13849.9	17228.7	22072.7	23532.0	23320.0	20889.9	20889.9	18631.4
62.5°	7918.0	8035.1	8890.8	11177.6	15559.5	23110.1	27605.0	27167.0	23622.8	22438.0	19551.8
65°	5060.0	4947.0	5514.1	7056.2	11591.4	21578.2	31151.2	31177.5	26194.2	23057.7	19049.2
67°	3665.3	3620.9	3784.4	4823.9	7859.5	18138.9	31225.9	32608.5	27671.6	22666.1	17442.6
67.5°	3352.5	3386.8	3505.9	4351.6	7140.9	16506.1	30886.8	32523.7	28004.6	22429.9	16861.3
70°	2541.1	2482.6	2611.7	3078.0	4280.9	10412.7	26569.6	29829.2	27590.9	20086.6	13472.5
72.5°	1869.0	1862.9	2042.6	2516.9	3296.0	5546.4	19945.4	23917.5	22541.0	15295.1	8483.1
75°	1261.5	1318.0	1604.6	2103.1	2987.2	3596.7	13597.6	17351.8	15648.3	8685.0	3467.5
77.5°	718.5	722.6	1033.4	1689.4	2682.4	2894.3	8057.3	11054.5	8283.3	2888.3	1029.4
80°	310.8	341.1	512.7	1227.2	2224.2	2563.3	4620.0	6075.2	3350.5	611.6	333.0
82.5°	115.0	135.2	226.1	754.9	1622.8	2111.2	2791.4	2900.4	1136.3	216.0	207.9
85°	0.0	4.0	82.8	353.2	845.7	942.6	1865.0	1719.6	502.6	102.9	135.2
87.5°	0.0	0.0	0.0	36.3	111.0	351.2	579.3	645.9	121.1	36.3	32.3
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°	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8	8006.8
2.5°	7946.3	7815.1	7486.1	7157.1	6912.9	6709.0	6402.2	6234.7	6145.9	6014.7	6022.8
5°	7746.4	7480.0	6900.7	6301.3	5816.9	5344.6	4779.5	4551.4	4359.6	4250.6	4178.0
7.5°	7449.7	7056.2	6198.4	5399.1	4654.3	3828.8	3209.2	2795.4	2516.9	2413.9	2315.0
10°	7124.8	6602.0	5485.9	4377.8	3344.4	2492.7	1967.9	1588.4	1453.2	1328.1	1340.2
12.5°	6824.0	6188.3	4831.9	3455.4	2343.3	1584.4	1235.2	1079.8	1035.4	1021.3	1021.3
15°	6577.8	5792.7	4129.5	2597.6	1606.6	1138.4	989.0	946.6	930.5	926.4	926.4
17.5°	6315.4	5417.3	3495.8	1919.5	1168.6	952.7	902.2	873.9	867.9	863.9	863.9
20°	6081.3	5039.8	2894.3	1429.0	944.6	857.8	825.5	807.3	801.3	797.2	799.3
22.5°	5859.3	4704.8	2329.2	1079.8	831.6	781.1	748.8	730.6	718.5	708.4	710.5
25°	5661.5	4381.8	1873.0	884.0	748.8	704.4	672.1	645.9	619.6	607.5	605.5
27.5°	5522.2	4099.3	1459.3	756.9	674.1	625.7	585.3	553.0	518.7	500.6	496.5
30°	5407.2	3812.7	1154.5	668.1	599.5	553.0	502.6	456.1	419.8	401.7	393.6
32.5°	5332.5	3540.2	910.3	595.4	536.9	480.4	423.9	377.4	337.1	318.9	314.9
35°	5320.4	3312.1	744.8	534.9	480.4	419.8	361.3	310.8	276.5	258.3	254.3
37.5°	5407.2	3136.5	623.7	486.4	433.9	367.3	302.8	256.3	226.1	211.9	209.9
40°	5639.3	3025.5	540.9	446.1	391.6	318.9	258.3	218.0	187.7	173.6	173.6
42.5°	6081.3	3029.5	486.4	407.7	349.2	272.5	220.0	181.7	155.4	143.3	139.3
45°	6771.6	3166.8	440.0	369.4	308.8	236.1	187.7	149.4	123.1	113.0	113.0
47.5°	7696.0	3439.3	399.6	331.0	272.5	201.8	159.4	121.1	98.9	88.8	88.8
50°	8905.0	3877.3	365.3	298.7	242.2	173.6	129.2	98.9	76.7	68.6	66.6
52.5°	10168.5	4418.2	325.0	270.5	207.9	147.3	105.0	76.7	58.5	52.5	50.5
55°	11563.1	4947.0	286.6	242.2	169.5	123.1	82.8	60.6	42.4	36.3	36.3
57.5°	12969.9	5465.7	240.2	201.8	133.2	90.8	64.6	44.4	28.3	22.2	22.2
60°	14160.8	5633.2	203.9	163.5	100.9	64.6	46.4	28.3	16.1	10.1	10.1
62.5°	14324.2	5068.1	171.6	125.1	72.7	44.4	24.2	16.1	6.1	4.0	4.0
65°	13436.2	4117.4	143.3	94.9	48.4	22.2	10.1	6.1	2.0	0.0	0.0
67°	12039.5	3338.4	117.1	70.6	34.3	14.1	6.1	2.0	0.0	0.0	0.0
67.5°	11682.2	3182.9	113.0	66.6	30.3	12.1	4.0	2.0	0.0	0.0	0.0
70°	9167.4	2383.7	80.7	40.4	18.2	8.1	0.0	0.0	0.0	0.0	0.0
72.5°	5697.8	1348.3	58.5	24.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0
75°	2153.6	472.3	40.4	16.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	670.1	179.6	24.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	226.1	68.6	16.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	139.3	28.3	10.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	86.8	12.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.1	4.0	2.0	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

(END OF REPORT)