

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: P458259

Luminaire Tested: **GALN-SA9C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458259
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-SA9C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 50554 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 481
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

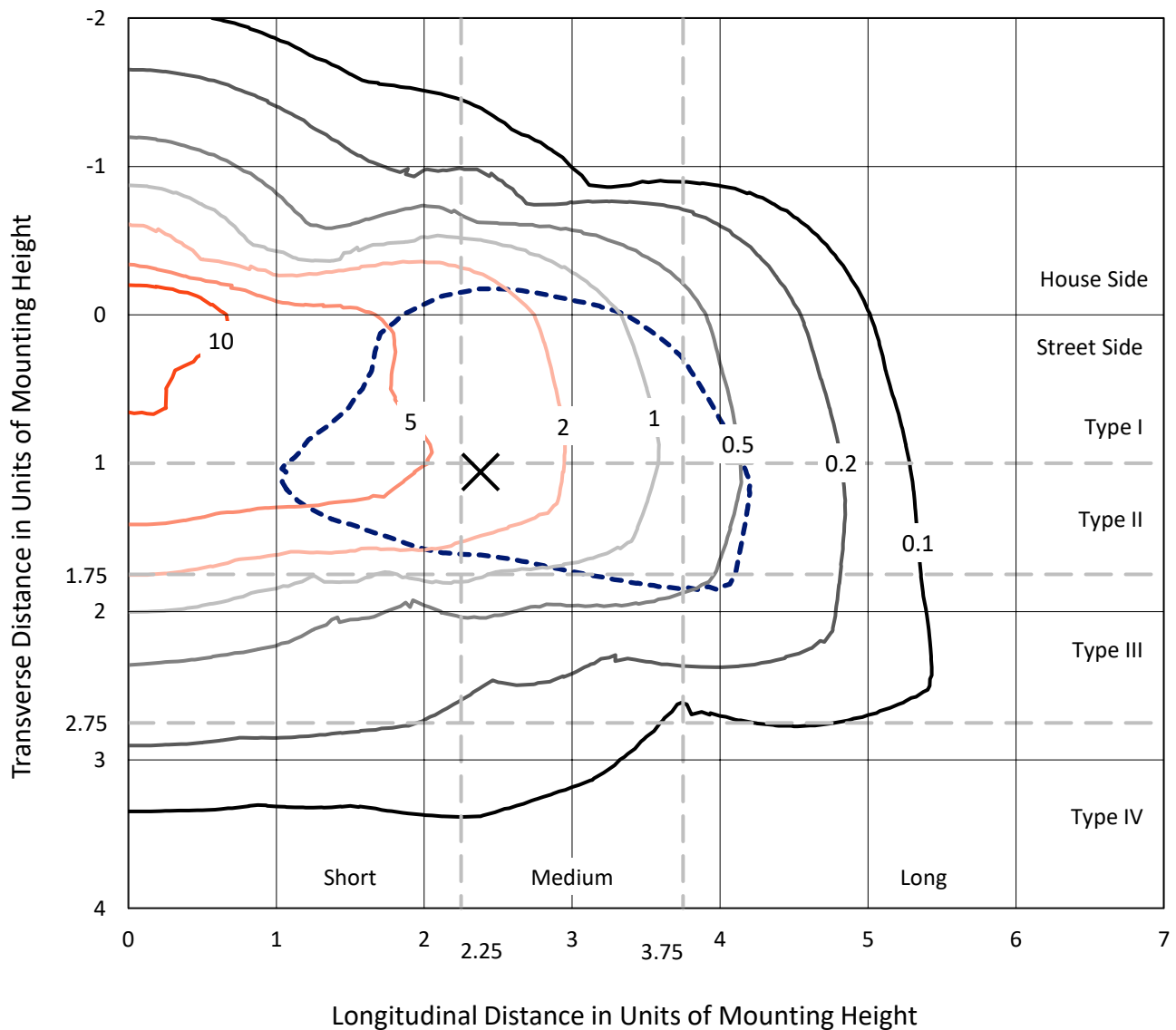


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

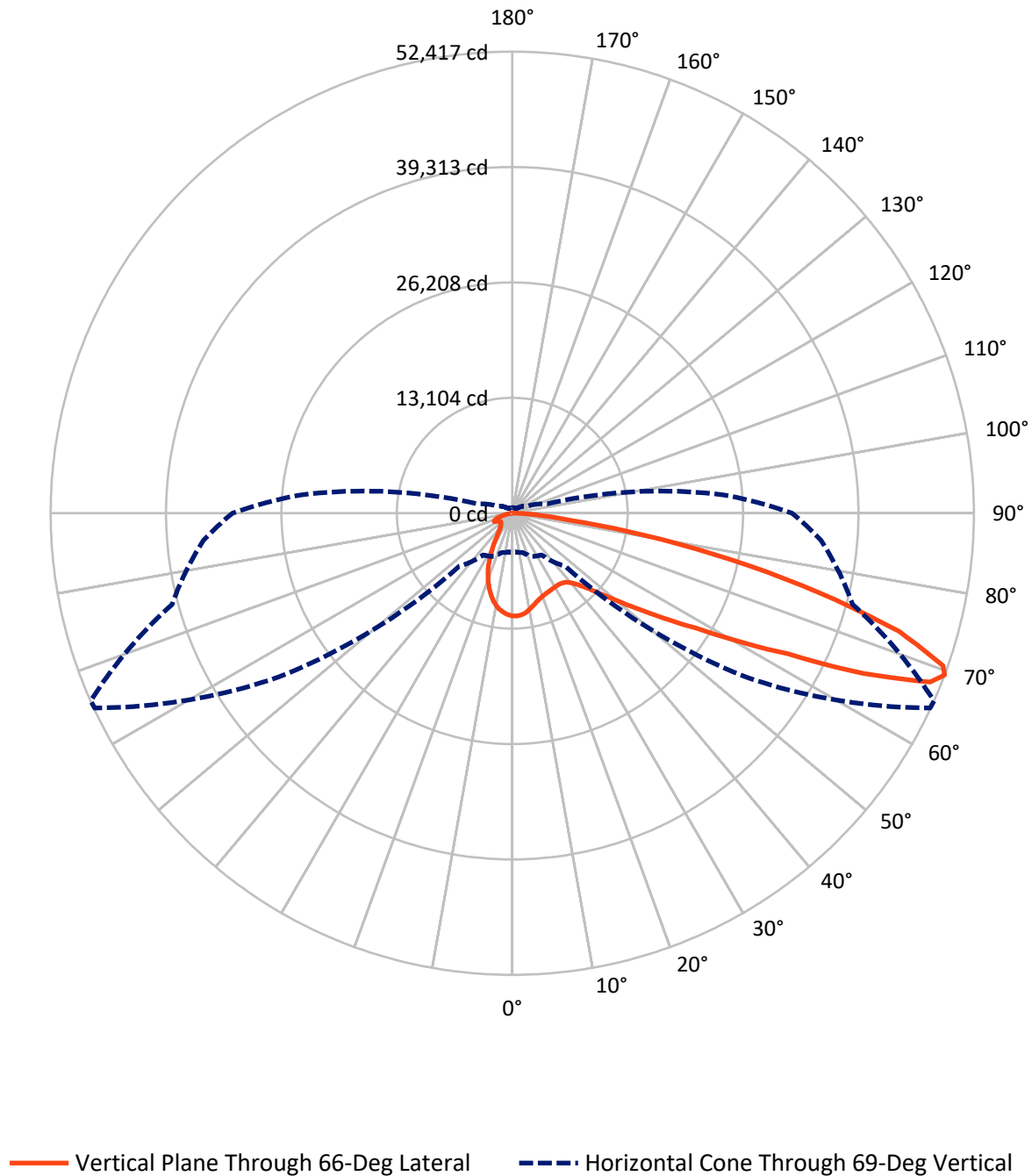


Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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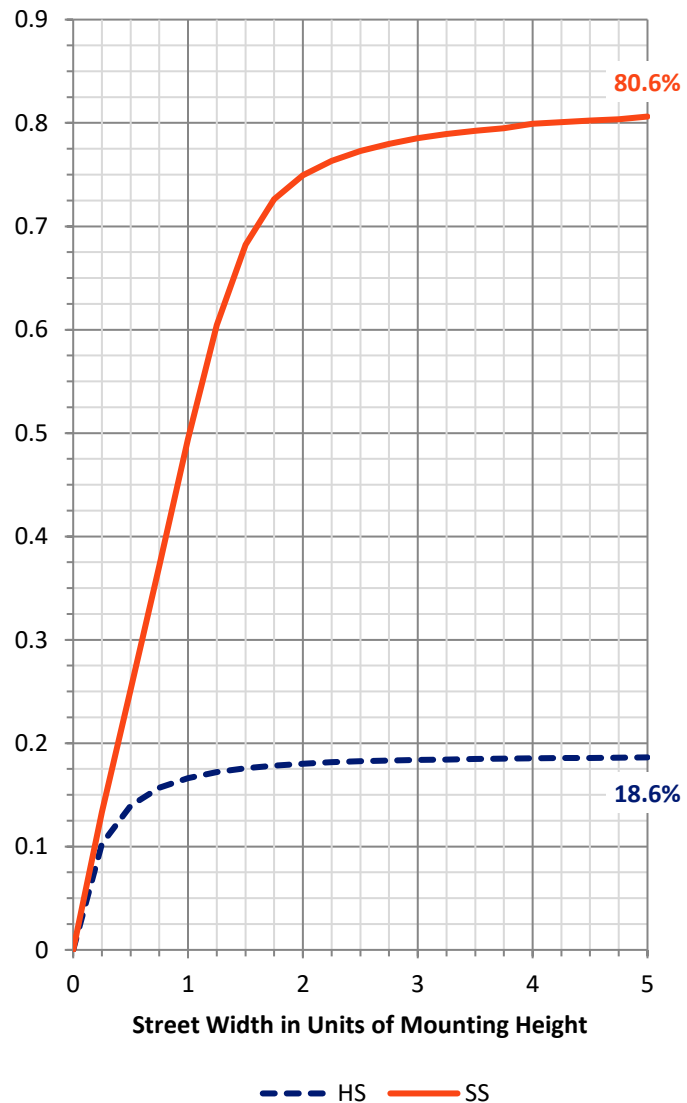
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9507.3	0.0	9507.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	41046.7	0.0	41046.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	50554.0	0.0	50554.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.8	2.0
10°-20°	2404.6	4.8
20°-30°	3273.6	6.5
30°-40°	4399.0	8.7
40°-50°	6568.4	13.0
50°-60°	10448.1	20.7
60°-70°	12850.6	25.4
70°-80°	8361.2	16.5
80°-90°	1234.7	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°	50554.0	100.0
0°-180°	50554.0	100.0

Coefficient of Utilization



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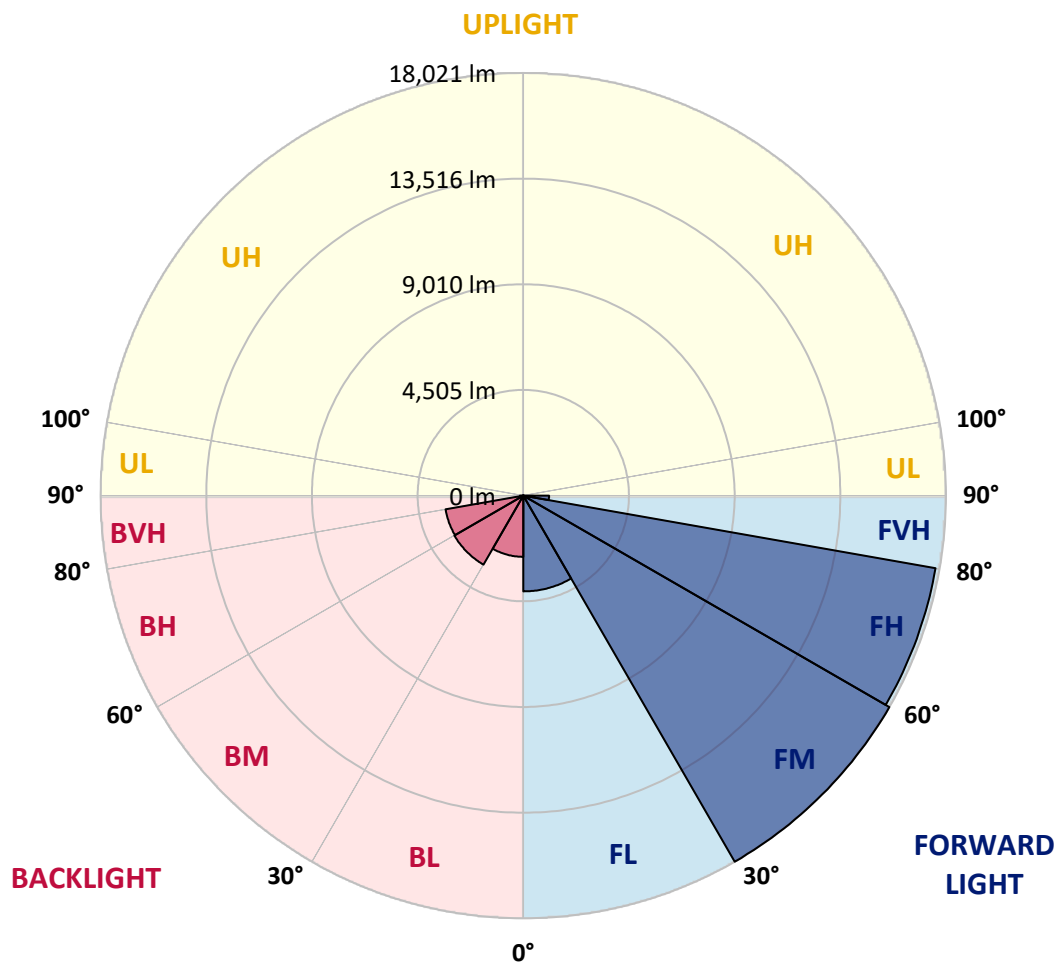
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4082.2	8.1			
FM	(30°-60°)	18021.0	35.6			
FH	(60°-80°)	17845.8	35.3			G5
FVH	(80°-90°)	1097.7	2.2			G5
BL	(0°-30°)	2609.8	5.2	B4/5000		
BM	(30°-60°)	3394.5	6.7	B3/5000		
BH	(60°-80°)	3366.0	6.7	B4/5000		G4/5000
BVH	(80°-90°)	137.0	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3
2.5°	11265.6	11310.4	11360.8	11416.8	11523.1	11581.9	11623.9	11671.5	11677.1	11702.3	11682.7
5°	10434.1	10487.3	10562.9	10669.3	10828.8	11078.0	11335.6	11545.5	11570.7	11688.3	11721.9
7.5°	9739.8	9770.6	9832.2	10003.0	10229.7	10506.9	10882.0	11307.6	11369.2	11649.1	11747.1
10°	9174.3	9205.1	9277.9	9454.2	9678.2	10025.4	10436.9	10996.8	11047.2	11528.7	11752.7
12.5°	8751.5	8779.5	8857.9	9031.5	9289.1	9613.8	10067.4	10660.9	10733.7	11369.2	11699.5
15°	8429.6	8482.8	8547.2	8690.0	8961.5	9275.1	9714.6	10352.9	10411.7	11201.2	11663.1
17.5°	8292.4	8317.6	8362.4	8494.0	8692.8	9000.7	9443.0	10112.1	10182.1	11083.6	11654.7
20°	8298.0	8323.2	8331.6	8404.4	8547.2	8813.1	9249.9	9921.8	10005.8	10980.0	11668.7
22.5°	8488.4	8491.2	8460.4	8435.2	8491.2	8712.3	9112.7	9779.0	9877.0	10935.2	11679.9
25°	8782.3	8832.7	8787.9	8670.4	8566.8	8673.2	9059.5	9700.6	9793.0	10870.8	11665.9
27.5°	9258.3	9266.7	9230.3	9070.7	8801.9	8723.5	9037.1	9641.8	9720.2	10823.2	11595.9
30°	9896.6	9871.4	9837.8	9661.4	9238.7	8916.7	9084.7	9588.6	9669.8	10753.3	11511.9
32.5°	10543.3	10621.7	10590.9	10383.7	9835.0	9291.9	9238.7	9583.0	9650.2	10700.1	11419.6
35°	11229.2	11265.6	11411.2	11304.8	10742.1	9899.4	9527.0	9669.8	9723.0	10702.9	11355.2
37.5°	11766.7	11864.7	12206.2	12298.6	11769.5	10702.9	9994.6	9916.2	9938.6	10840.0	11380.4
40°	12416.2	12584.2	13023.7	13401.7	13054.5	11747.1	10789.7	10372.5	10400.5	11170.4	11545.5
42.5°	13239.3	13356.9	13947.6	14459.9	14403.9	13127.3	11752.7	11120.0	11134.0	11828.3	12007.5
45°	14202.4	14370.3	15033.8	15803.7	15935.3	14689.5	13144.1	12251.0	12242.6	12850.2	12869.8
47.5°	15434.2	15537.8	16195.7	17035.6	17567.5	16652.0	14832.3	13874.8	13785.2	14339.5	14180.0
50°	16568.0	16730.4	17228.7	18147.0	19471.2	18950.5	17052.4	15980.1	15770.1	16288.1	16019.3
52.5°	17044.0	17214.7	17634.7	18774.1	21103.4	21923.7	19871.5	18491.3	18141.4	18538.9	18441.0
55°	16218.1	16439.2	16831.2	18217.0	21820.1	25353.2	23673.4	21394.5	21139.8	20969.0	20997.0
57.5°	13998.0	14208.0	14737.1	16265.7	20963.4	27842.0	29101.8	25126.4	24580.5	23793.8	23928.2
60°	10655.3	10786.9	11061.2	12755.0	18424.2	28488.7	35266.5	29843.7	29496.6	26607.4	26702.6
62.5°	7567.3	7715.7	7906.1	8751.5	13488.5	26666.2	40093.0	36431.2	35190.9	29521.8	29429.4
65°	6145.1	6044.3	6273.9	6668.6	7914.5	20666.6	41179.3	45574.7	43866.9	33360.0	32077.8
67.5°	5053.3	4946.9	5173.7	5876.4	6019.1	11996.3	37265.4	51509.8	51168.3	37534.2	34768.2
69°	4473.8	4417.8	4616.5	5417.2	5778.4	8519.2	32464.1	52335.7	52416.9	39995.1	35182.5
70°	4031.4	4053.8	4247.0	5184.9	5669.2	7024.2	27746.8	51196.2	51884.9	41224.1	34734.6
72.5°	2967.6	3015.2	3283.9	4294.6	5565.6	5960.3	16512.0	44718.0	45935.8	41296.9	31775.4
75°	2074.5	2052.1	2290.1	3233.5	5257.6	5907.2	9697.8	34583.4	35963.6	35694.9	26699.8
77.5°	1357.8	1394.2	1584.6	2284.5	4423.4	5862.4	6321.5	24535.7	25431.5	23872.2	15792.5
80°	957.5	954.7	1061.0	1559.4	3281.1	5632.8	5176.5	15465.0	15238.2	9381.5	4683.7
82.5°	548.7	587.9	711.1	1097.4	2194.9	4958.1	4762.1	7396.5	6752.6	2673.6	1581.8
85°	305.2	319.2	422.7	663.5	1282.2	3734.7	4157.4	3365.1	3174.7	1117.0	680.3
87.5°	98.0	106.4	176.4	336.0	582.3	1763.7	2354.5	1553.8	1433.4	403.1	274.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3	11674.3
2.5°	11691.1	11724.7	11635.1	11548.3	11470.0	11360.8	11262.8	11181.6	11125.6	11117.2	11089.2
5°	11730.3	11733.1	11562.3	11332.8	11108.8	10862.4	10607.7	10425.7	10254.9	10159.7	10112.1
7.5°	11758.3	11733.1	11425.2	11052.8	10621.7	10173.7	9725.8	9367.5	9090.3	8981.1	9023.1
10°	11747.1	11668.7	11218.0	10621.7	9994.6	9325.5	8681.6	8177.6	7715.7	7477.7	7483.3
12.5°	11685.5	11556.7	10910.0	10137.3	9216.3	8320.4	7334.9	6654.6	6119.9	5803.6	5705.6
15°	11632.3	11408.4	10548.9	9479.4	8334.4	7055.0	5854.0	5014.1	4566.1	4317.0	4314.2
17.5°	11576.3	11265.6	10154.1	8782.3	7320.9	5674.8	4415.0	3773.9	3563.9	3589.1	3547.1
20°	11517.5	11097.6	9742.6	8006.8	6086.3	4233.0	3306.3	3046.0	3104.8	3219.5	3236.3
22.5°	11450.4	10918.4	9300.3	7153.0	4787.3	3185.9	2682.0	2642.8	2794.0	2973.2	2998.4
25°	11346.8	10694.5	8743.1	6259.9	3692.7	2567.2	2348.9	2376.9	2525.2	2676.4	2693.2
27.5°	11201.2	10417.3	8180.4	5145.7	2774.4	2203.3	2147.3	2183.7	2256.5	2348.9	2371.3
30°	11005.2	10103.7	7533.7	4182.6	2222.9	2021.3	1998.9	2018.5	2060.5	2099.7	2110.9
32.5°	10809.2	9801.4	6881.4	3202.7	1982.1	1900.9	1878.5	1878.5	1878.5	1884.1	1886.9
35°	10627.3	9515.8	6181.5	2494.4	1856.1	1805.7	1774.9	1741.3	1735.8	1716.2	1716.2
37.5°	10526.5	9255.5	5436.8	2088.5	1763.7	1727.4	1685.4	1629.4	1598.6	1601.4	1595.8
40°	10546.1	9084.7	4759.3	1858.9	1688.2	1649.0	1584.6	1520.2	1500.6	1500.6	1495.0
42.5°	10767.3	9028.7	4109.8	1738.6	1615.4	1570.6	1489.4	1430.6	1419.4	1416.6	1422.2
45°	11276.8	9165.9	3527.5	1660.2	1553.8	1486.6	1405.4	1352.2	1341.0	1341.0	1338.2
47.5°	12270.6	9611.0	3110.4	1609.8	1509.0	1422.2	1338.2	1285.0	1265.4	1259.8	1259.8
50°	13816.0	10576.9	2799.6	1565.0	1453.0	1363.4	1276.6	1215.0	1184.2	1181.4	1178.6
52.5°	15963.3	12083.1	2679.2	1531.4	1391.4	1301.8	1206.6	1147.8	1108.6	1100.2	1094.6
55°	18474.5	14185.6	2844.4	1506.2	1327.0	1231.8	1133.8	1072.2	1035.9	1019.1	1016.3
57.5°	21383.3	16710.8	3471.5	1472.6	1268.2	1156.2	1061.0	999.5	960.3	940.7	935.1
60°	23995.4	19306.0	4566.1	1453.0	1217.8	1075.0	977.1	921.1	884.7	865.1	862.3
62.5°	26864.9	21780.9	5873.6	1506.2	1195.4	996.7	898.7	848.3	817.5	797.9	797.9
65°	29930.5	24258.5	6738.6	1685.4	1229.0	935.1	814.7	772.7	744.7	730.7	727.9
67.5°	31996.6	25115.2	5551.6	1870.1	1313.0	867.9	733.5	699.9	683.1	669.1	669.1
69°	31772.6	24031.7	4095.8	1917.7	1338.2	834.3	688.7	663.5	641.1	635.5	629.9
70°	31064.3	22797.1	3432.3	1886.9	1318.6	803.5	660.7	629.9	610.3	604.7	601.9
72.5°	27668.4	19770.8	2556.0	1640.6	1122.6	697.1	585.1	557.1	540.3	531.9	531.9
75°	22987.5	16159.3	1996.1	1304.6	879.1	587.9	501.1	478.7	464.7	459.1	456.3
77.5°	12883.7	9023.1	1433.4	1021.9	666.3	475.9	419.9	400.3	386.3	380.7	380.7
80°	3589.1	2578.4	842.7	674.7	453.5	361.1	333.2	319.2	299.6	285.6	294.0
82.5°	1352.2	1117.0	481.5	405.9	288.4	240.8	232.4	221.2	212.8	193.2	193.2
85°	657.9	543.1	308.0	215.6	159.6	126.0	120.4	114.8	109.2	95.2	98.0
87.5°	226.8	240.8	134.4	78.4	47.6	30.8	25.2	14.0	14.0	14.0	14.0
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)