

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: P457580

Luminaire Tested: **GALN-SA8D-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50798 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 493
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

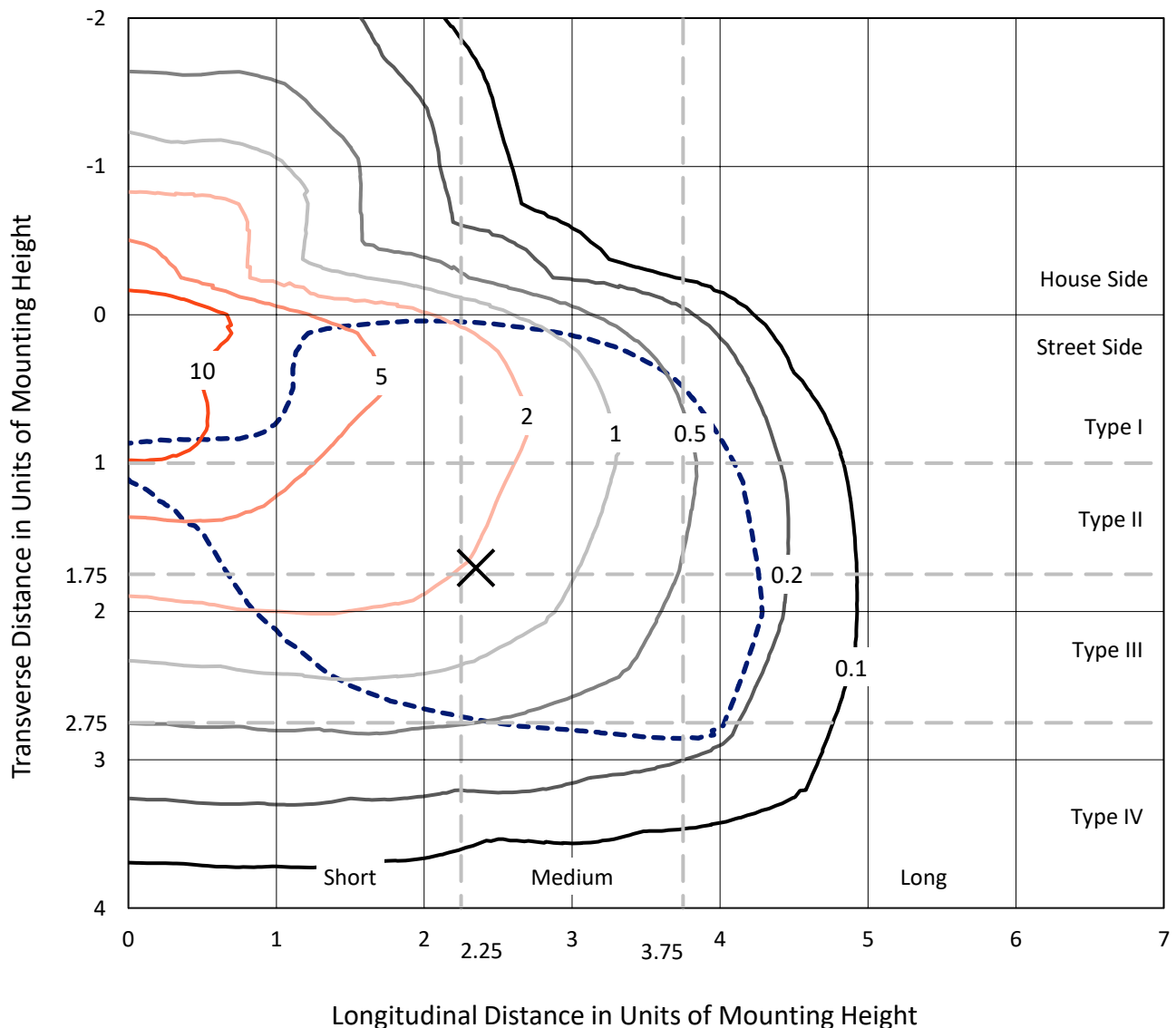


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

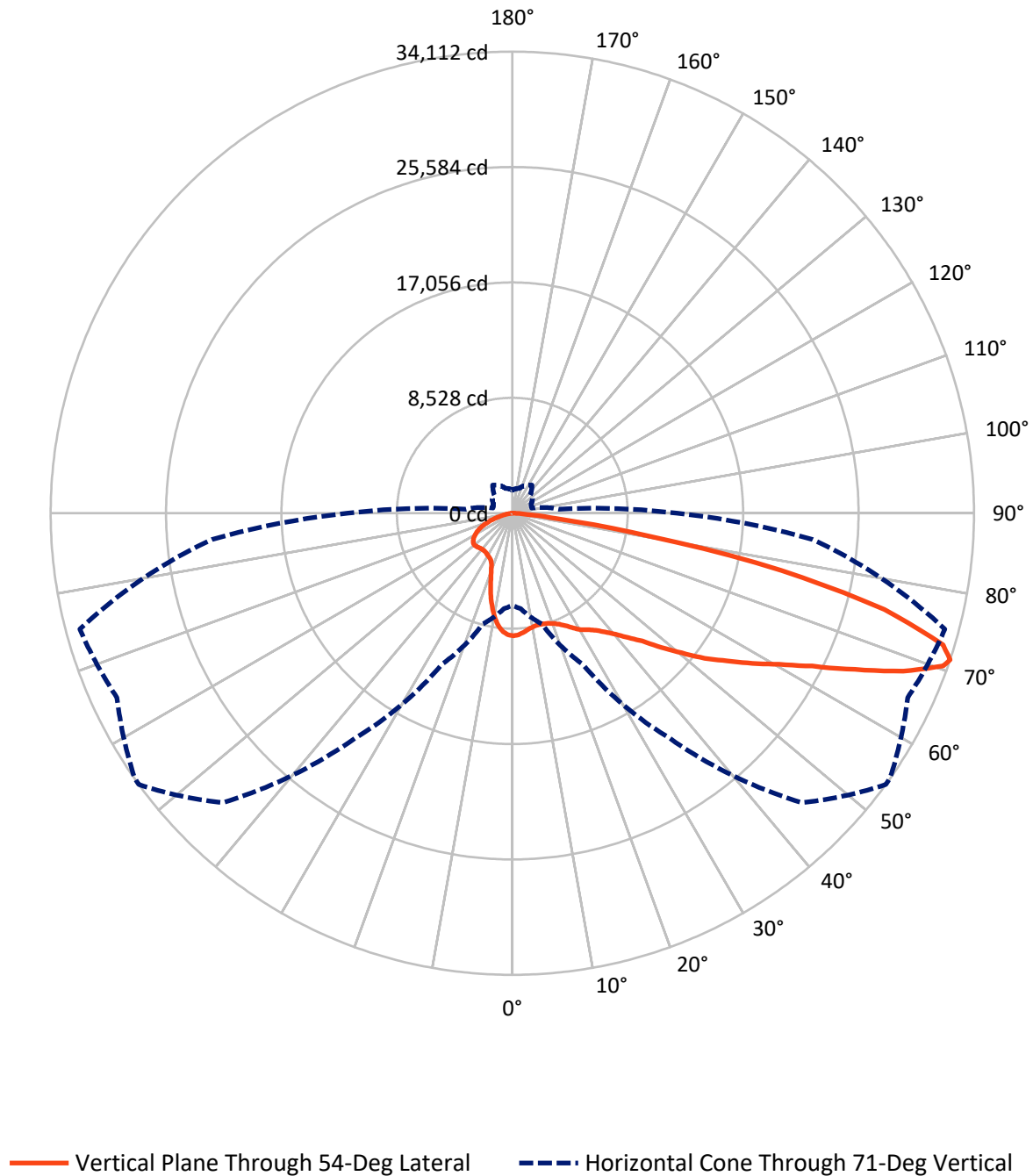


Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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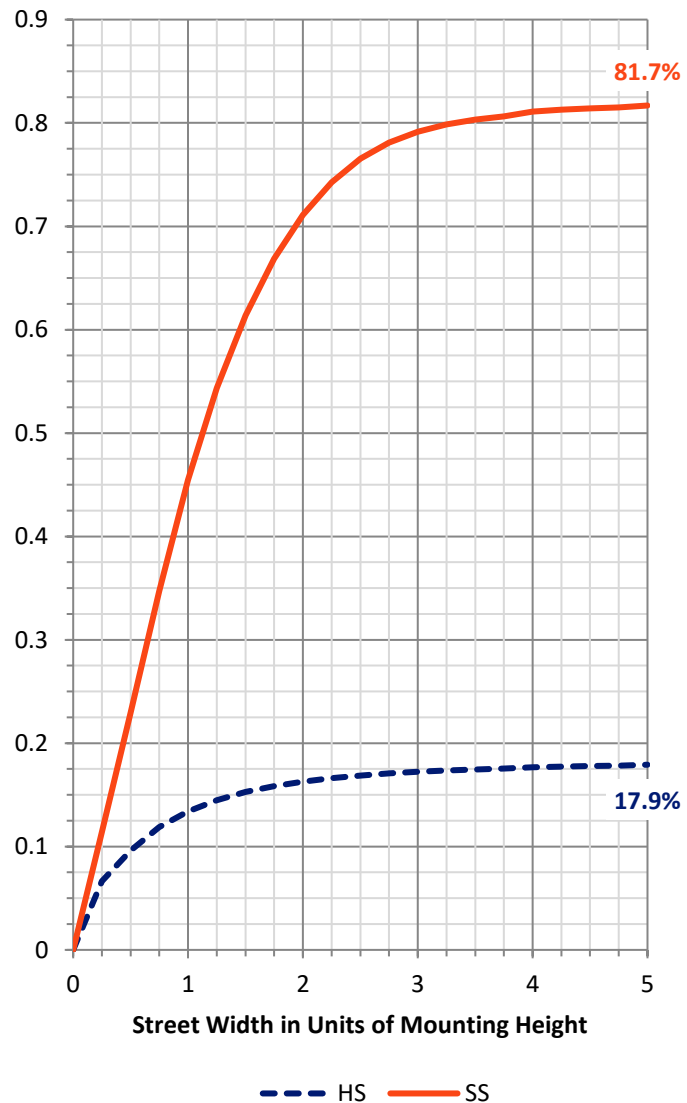
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9171.2	0.0	9171.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	41626.7	0.0	41626.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	50798.0	0.0	50798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	807.7	1.6
10°-20°	2132.6	4.2
20°-30°	3550.9	7.0
30°-40°	5250.6	10.3
40°-50°	7395.7	14.6
50°-60°	9903.2	19.5
60°-70°	12482.2	24.6
70°-80°	8525.3	16.8
80°-90°	749.7	1.5
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°	50798.0	100.0
0°-180°	50798.0	100.0

Coefficient of Utilization



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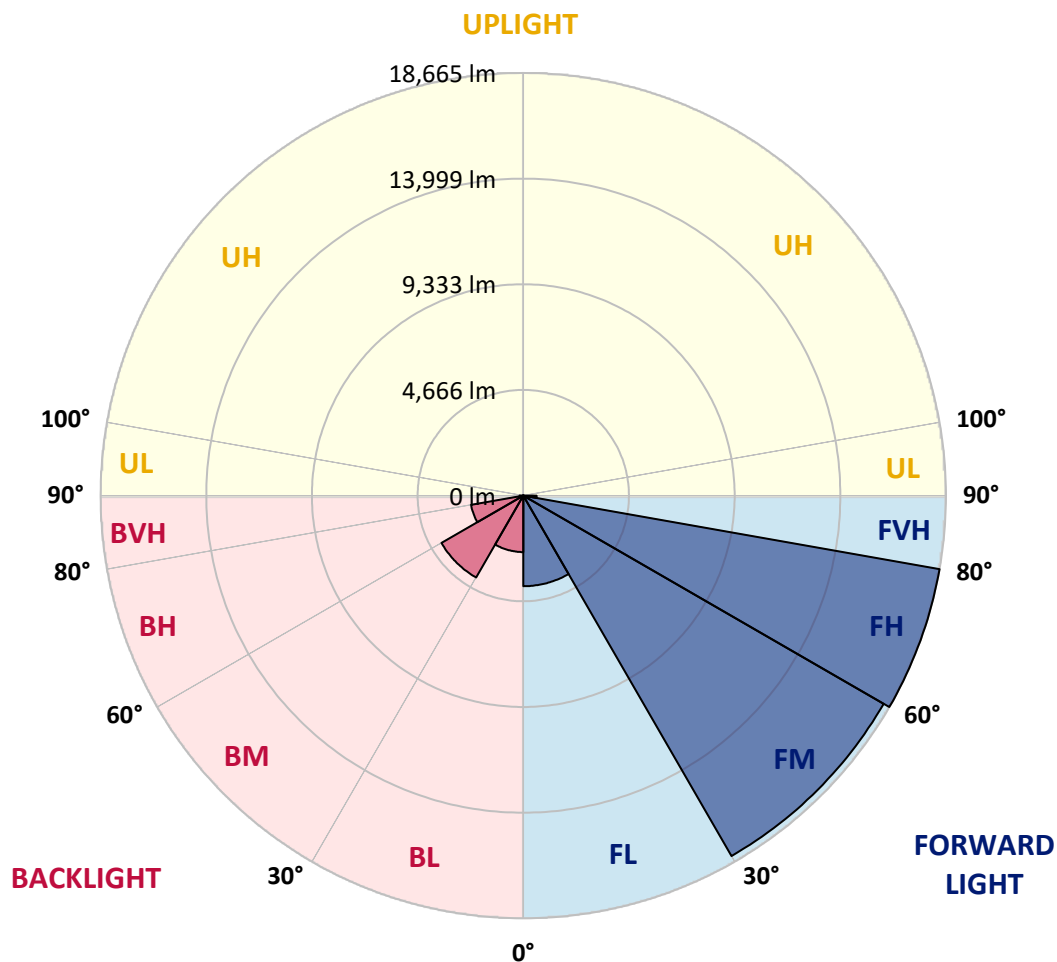
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3998.6	7.9			
FM	(30°-60°)	18376.9	36.2			
FH	(60°-80°)	18665.2	36.7			G5
FVH	(80°-90°)	586.0	1.2			G4/750
BL	(0°-30°)	2492.6	4.9	B3/2500		
BM	(30°-60°)	4172.7	8.2	B3/5000		
BH	(60°-80°)	2342.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	163.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1
2.5°	8755.8	8797.0	8807.9	8835.4	8893.0	8939.6	8986.3	8980.8	9046.7	9074.1	9098.8
5°	8366.2	8377.1	8418.3	8473.2	8574.7	8703.7	8829.9	8832.6	8994.5	9123.5	9186.6
7.5°	8080.8	8116.5	8143.9	8201.5	8308.5	8448.5	8648.8	8665.2	8953.4	9208.5	9343.0
10°	7894.2	7935.4	7965.6	8036.9	8143.9	8300.3	8517.1	8547.3	8923.2	9343.0	9579.0
12.5°	7724.1	7765.2	7792.7	7886.0	8025.9	8218.0	8462.2	8497.9	8934.2	9499.4	9836.9
15°	7828.4	7861.3	7850.3	7877.7	7971.0	8190.6	8484.2	8519.8	8975.3	9650.3	10092.1
17.5°	8292.1	8319.5	8229.0	8124.7	8080.8	8242.7	8552.7	8591.2	9057.6	9806.7	10352.8
20°	8975.3	9049.4	8851.8	8618.6	8407.3	8429.3	8695.4	8736.6	9172.9	9963.1	10618.9
22.5°	9864.3	9919.2	9677.7	9293.6	8904.0	8703.7	8909.5	8934.2	9345.7	10166.2	10909.8
25°	10909.8	10942.7	10607.9	10114.0	9551.5	9172.9	9203.1	9247.0	9631.1	10396.7	11167.7
27.5°	11925.0	12029.3	11642.4	11038.7	10297.9	9666.8	9606.4	9633.8	9941.2	10525.6	11346.0
30°	13129.6	13121.3	12712.5	12012.8	11063.4	10204.6	9987.8	9982.3	10108.5	10588.7	11475.0
32.5°	14089.9	14202.4	13801.8	13039.0	11938.7	10761.6	10251.2	10240.3	10237.5	10698.5	11667.1
35°	15182.0	15198.5	14830.8	14062.5	12885.4	11461.3	10618.9	10564.0	10500.9	10934.5	11927.8
37.5°	16158.9	16235.7	15898.2	15036.6	13815.6	12188.4	11123.8	11088.1	10896.0	11343.3	12344.8
40°	16921.7	16979.3	16776.2	15955.8	14732.0	12973.2	11765.9	11700.0	11466.8	12012.8	12901.8
42.5°	17171.4	17289.3	17368.9	16965.6	15785.7	13903.4	12556.1	12473.8	12295.4	13028.1	13543.9
45°	17190.6	17377.1	17797.0	17816.2	16844.8	15017.4	13478.1	13420.4	13406.7	14328.7	14446.7
47.5°	17045.1	17234.5	17939.6	18321.0	17788.7	16142.4	14808.9	14718.3	14726.5	15936.6	15459.2
50°	16693.9	16918.9	17775.0	18644.8	18526.8	17311.3	16213.7	16183.5	16353.7	17772.3	16510.1
52.5°	16032.6	16304.3	17604.9	18847.9	19075.6	18318.3	17810.7	17725.6	18156.4	19764.3	17659.8
55°	14202.4	14611.3	16982.0	18960.4	19597.0	19281.4	19248.5	19402.1	19972.9	21937.5	18924.7
57.5°	13247.6	13554.9	15629.3	18979.6	20255.5	20400.9	20927.8	20966.2	21965.0	24245.1	20354.3
60°	12726.2	12997.9	14888.4	18853.4	21174.7	21786.6	22645.4	22782.6	23910.4	26744.8	21836.0
62.5°	12270.7	12504.0	14443.9	18417.1	22211.9	23841.8	24870.7	24936.6	26119.2	29505.2	23298.5
65°	11197.9	11464.0	13549.4	17980.8	23106.4	26410.1	27823.2	27746.4	28470.7	31886.9	24215.0
67.5°	9751.8	10089.3	11878.4	16474.4	23548.2	29217.1	31148.8	31052.8	30792.1	33448.2	24478.4
70°	7905.2	8086.3	9740.9	13870.4	21783.9	30690.6	33774.7	33673.2	32229.9	33654.0	23232.6
71°	6802.1	7084.8	8481.4	12320.1	20315.9	30240.6	34112.2	34084.8	32232.6	33086.0	22294.2
72.5°	5309.5	5482.3	6717.1	9546.0	17267.4	27683.2	33278.1	33382.3	31532.9	31508.3	20359.8
75°	3358.5	3435.4	4214.6	5619.5	9474.7	19605.2	28407.6	28690.3	27998.8	25790.0	15140.9
77.5°	1950.9	2049.7	2524.4	3311.9	4093.9	10640.9	20326.8	20634.2	19454.3	14199.7	6198.5
80°	1136.0	1245.7	1662.8	1923.5	1879.6	3948.5	10350.0	10874.1	8423.8	3586.3	1739.6
82.5°	631.1	705.2	1168.9	1171.6	1001.5	1289.6	3257.0	3407.9	2403.7	1446.0	710.7
85°	458.2	518.6	754.6	683.2	480.2	554.3	1133.2	1188.1	971.3	609.1	230.5
87.5°	161.9	230.5	414.3	329.3	131.7	115.2	326.5	266.2	247.0	170.1	52.1
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°	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1	9063.1
2.5°	9112.5	9118.0	9090.6	9041.2	8991.8	8928.7	8857.3	8802.4	8777.7	8775.0	8772.3
5°	9211.3	9225.0	9120.7	8967.1	8797.0	8588.4	8410.1	8207.0	8154.9	8072.6	8097.3
7.5°	9370.4	9362.2	9156.4	8829.9	8432.0	7990.2	7617.1	7400.3	7175.3	7112.2	7114.9
10°	9598.2	9546.0	9156.4	8550.0	7886.0	7230.2	6708.8	6379.6	6201.2	6053.1	5998.2
12.5°	9839.6	9707.9	9068.6	8157.6	7183.5	6379.6	5819.8	5375.3	5260.1	5139.3	5142.1
15°	10070.1	9850.6	8895.7	7606.1	6426.2	5471.3	4928.1	4661.9	4626.2	4639.9	4637.2
17.5°	10278.7	9952.1	8632.3	6991.5	5542.7	4692.1	4404.0	4423.2	4519.2	4587.8	4596.0
20°	10489.9	10012.5	8239.9	6168.3	4708.5	4220.1	4231.1	4382.0	4527.4	4620.7	4634.5
22.5°	10690.3	10039.9	7779.0	5372.6	4104.9	4019.8	4181.7	4343.6	4486.3	4576.8	4590.6
25°	10822.0	9976.8	7125.9	4541.2	3808.5	3948.5	4118.6	4255.8	4376.5	4469.8	4491.8
27.5°	10857.6	9773.8	6316.5	3868.9	3671.3	3879.9	4036.3	4137.8	4231.1	4318.9	4335.4
30°	10838.4	9474.7	5427.4	3473.8	3591.8	3800.3	3921.0	3995.1	4107.6	4176.2	4189.9
32.5°	10808.2	9126.2	4500.0	3262.5	3525.9	3726.2	3797.6	3863.4	3860.7	3833.2	3852.4
35°	10819.2	8709.2	3748.2	3136.3	3468.3	3671.3	3731.7	3649.4	3413.4	3402.4	3391.5
37.5°	10876.8	8297.6	3202.1	3048.5	3438.1	3663.1	3696.0	3317.4	3108.8	3012.8	2988.1
40°	11025.0	7817.4	2842.7	2982.6	3435.4	3726.2	3534.1	3150.0	2749.4	2562.8	2549.1
42.5°	11222.6	7345.4	2623.2	2941.5	3468.3	3822.3	3468.3	2914.0	2477.7	2368.0	2351.5
45°	11516.2	6804.9	2502.4	2922.3	3517.7	3857.9	3446.3	2741.2	2368.0	2280.2	2280.2
47.5°	11848.2	6289.0	2436.6	2908.5	3580.8	3833.2	3251.5	2686.3	2315.9	2326.8	2379.0
50°	12177.4	5841.8	2387.2	2878.4	3635.7	3819.5	3172.0	2683.5	2329.6	2469.5	2562.8
52.5°	12558.8	5526.2	2326.8	2829.0	3635.7	3731.7	3147.3	2738.4	2368.0	2409.1	2450.3
55°	13019.8	5427.4	2250.0	2722.0	3569.8	3512.2	3133.5	2818.0	2395.4	2299.4	2315.9
57.5°	13629.0	5586.6	2175.9	2587.5	3418.9	3284.5	3128.1	2839.9	2332.3	2252.7	2236.3
60°	14336.9	5902.1	2154.0	2450.3	3213.1	3089.6	3095.1	2776.8	2244.5	2162.2	2175.9
62.5°	14833.5	6091.5	2140.2	2346.0	2988.1	2875.6	3015.6	2700.0	2206.1	2134.8	2148.5
65°	14833.5	5861.0	2014.0	2186.9	2697.3	2617.7	2919.5	2604.0	2156.7	2074.4	2060.7
67.5°	14271.0	5188.7	1822.0	1948.2	2376.2	2324.1	2785.1	2488.7	2082.6	2019.5	1986.6
70°	12805.8	3934.8	1580.5	1668.3	1970.1	2016.8	2612.2	2332.3	1959.1	1882.3	1832.9
71°	12161.0	3427.1	1479.0	1525.6	1813.7	1882.3	2529.9	2266.5	1904.3	1794.5	1706.7
72.5°	10918.0	2886.6	1325.3	1344.5	1550.3	1673.8	2357.0	2140.2	1800.0	1643.6	1544.8
75°	8294.8	2107.3	1067.4	1056.4	1147.0	1328.0	1994.8	1907.0	1577.7	1366.5	1308.8
77.5°	3583.5	1147.0	798.5	806.7	779.3	1007.0	1569.5	1638.1	1352.7	1111.3	1059.1
80°	1086.6	661.3	546.0	557.0	521.3	675.0	1105.8	1284.1	1086.6	864.3	793.0
82.5°	557.0	395.1	373.2	367.7	332.0	381.4	669.5	878.0	776.5	540.5	477.4
85°	241.5	211.3	183.8	178.4	156.4	137.2	238.7	439.0	411.6	301.8	288.1
87.5°	60.4	54.9	35.7	32.9	19.2	2.7	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)