

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: P457582

Luminaire Tested: **GALN-SA8D-830-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49530 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - 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

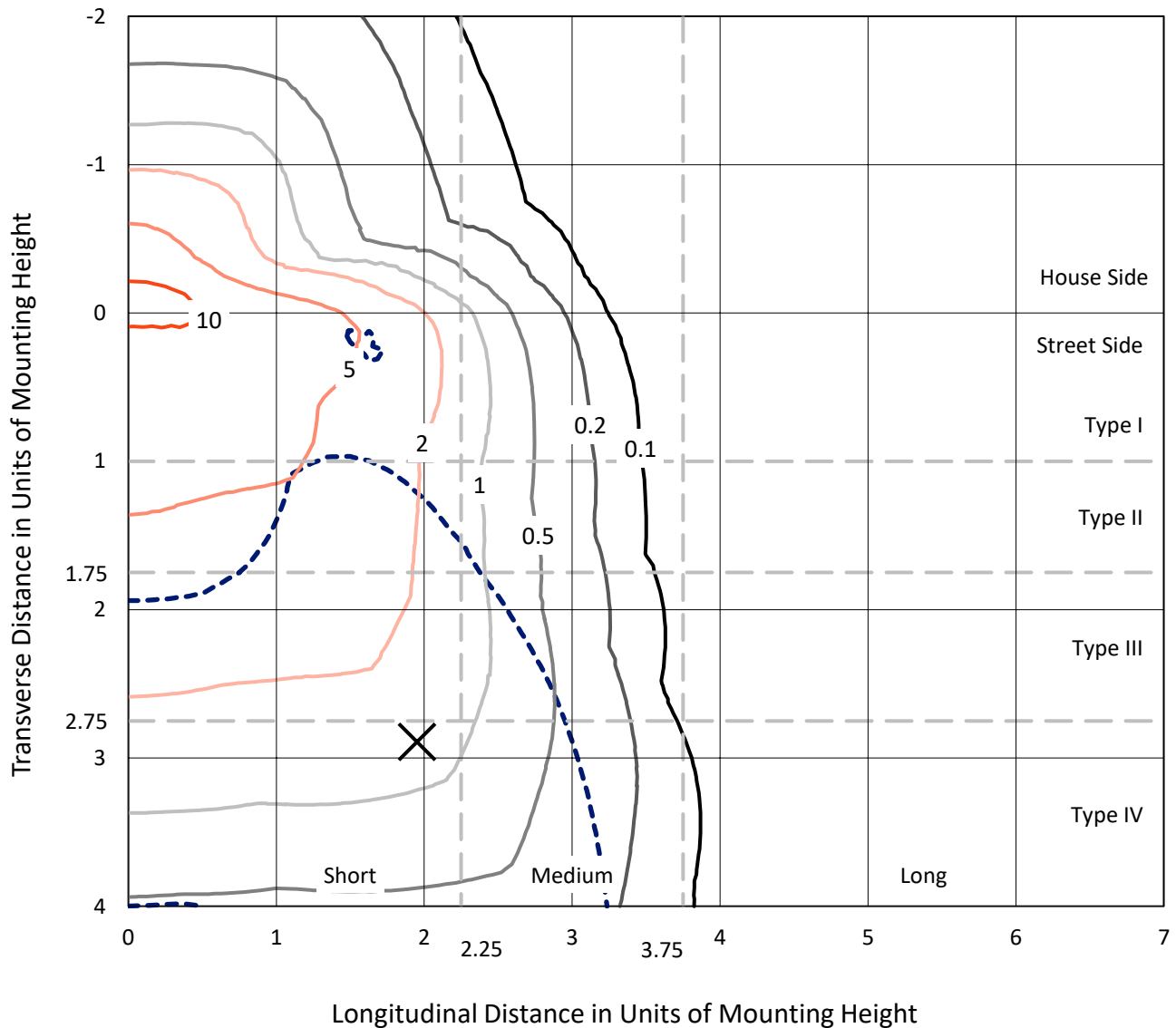


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

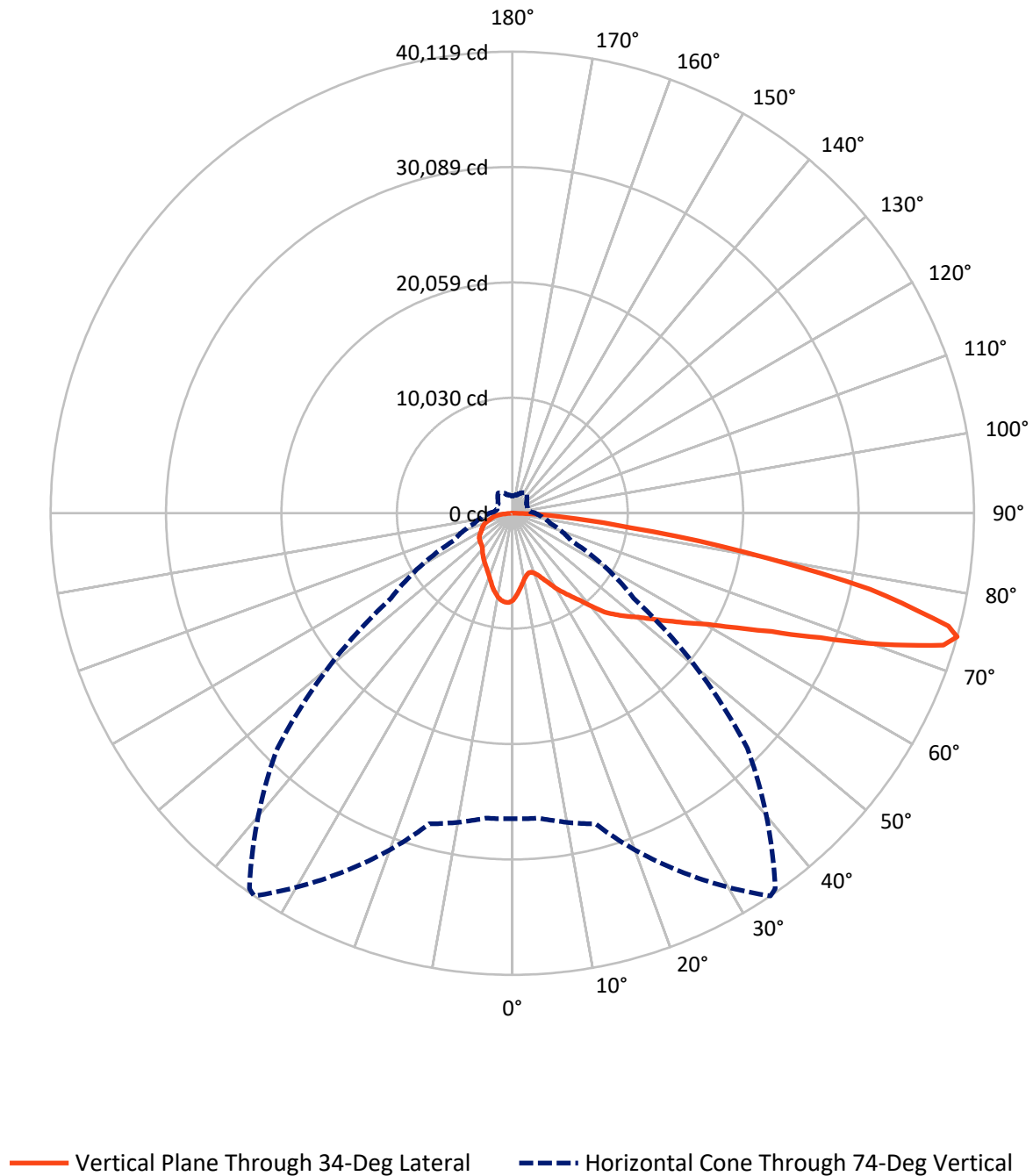


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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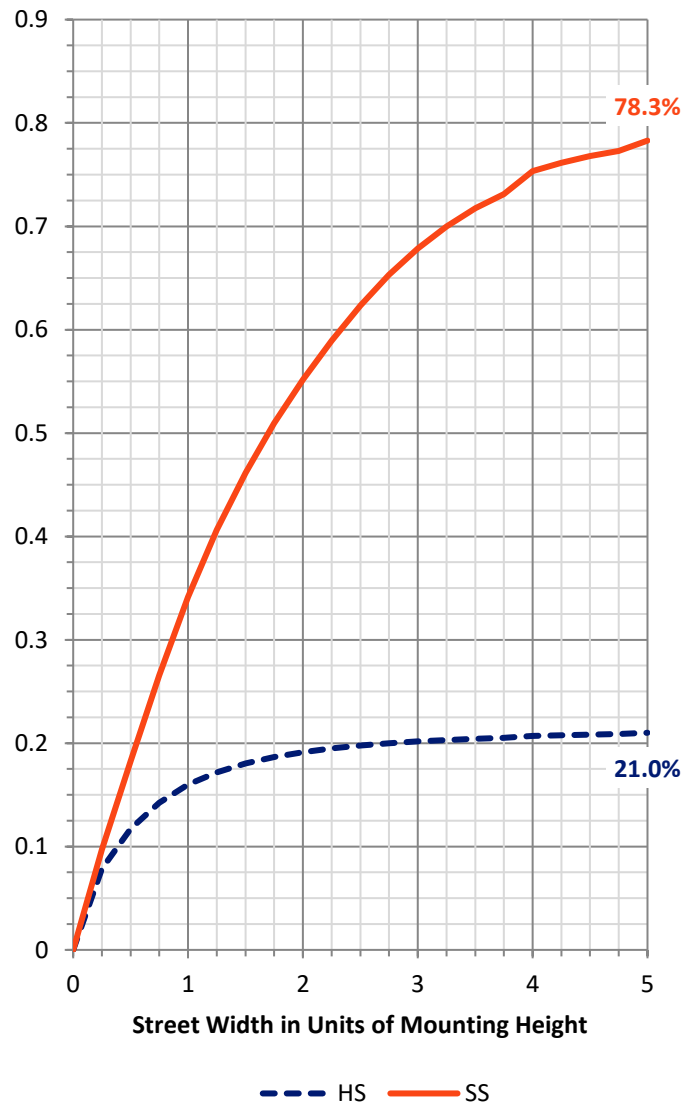
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10540.3	0.0	10540.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	38989.7	0.0	38989.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	49530.0	0.0	49530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.8	1.4
10°-20°	1882.7	3.8
20°-30°	3104.1	6.3
30°-40°	4649.6	9.4
40°-50°	6759.2	13.6
50°-60°	9441.0	19.1
60°-70°	11819.6	23.9
70°-80°	9773.9	19.7
80°-90°	1412.2	2.9
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°	49530.0	100.0
0°-180°	49530.0	100.0

Coefficient of Utilization



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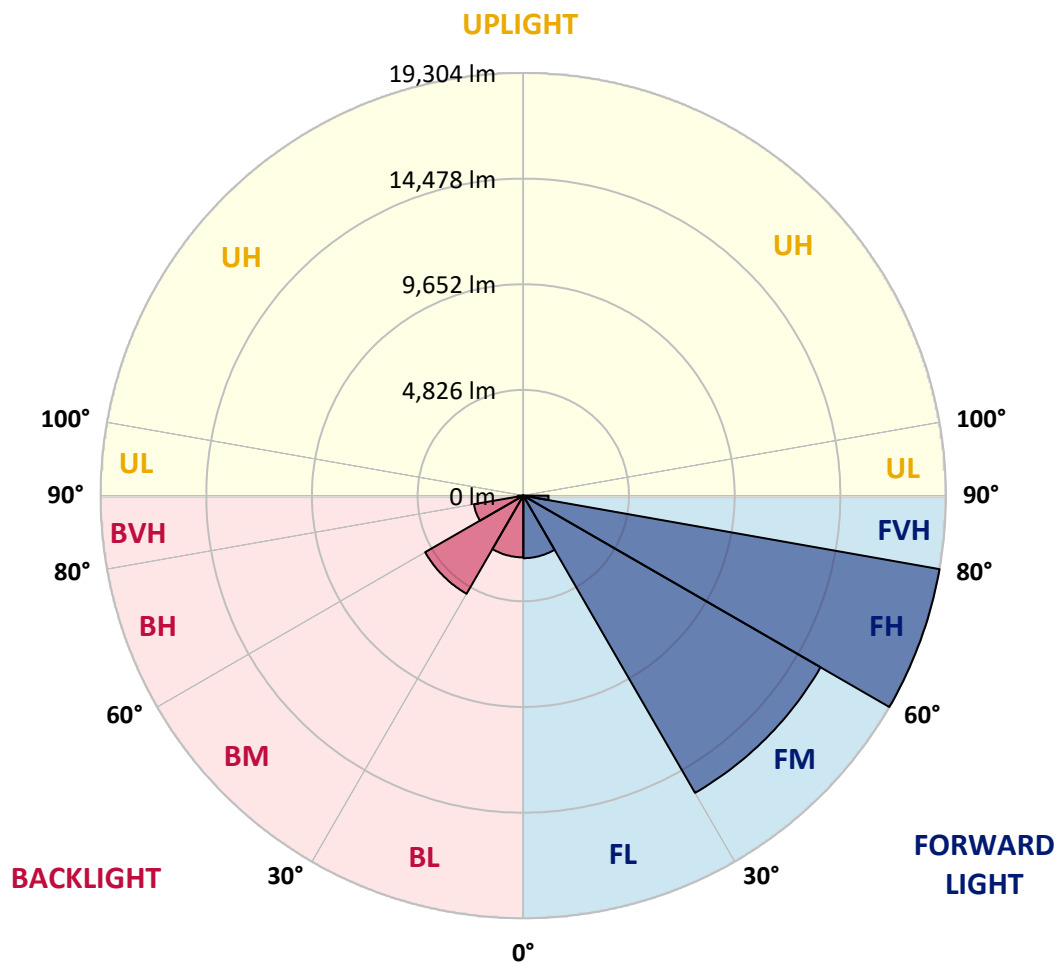
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2855.2	5.8			
FM	(30°-60°)	15673.3	31.6			
FH	(60°-80°)	19304.2	39.0			G5
FVH	(80°-90°)	1157.0	2.3			G5
BL	(0°-30°)	2819.4	5.7	B4/5000		
BM	(30°-60°)	5176.4	10.5	B4/8500		
BH	(60°-80°)	2289.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	255.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3
2.5°	6988.8	7024.4	7043.6	7112.2	7128.7	7150.7	7208.3	7285.1	7383.9	7471.7	7548.5
5°	6407.1	6461.9	6494.9	6555.2	6673.2	6684.2	6837.9	7013.5	7213.8	7400.4	7554.0
7.5°	5855.5	5915.9	5943.3	6053.1	6209.5	6234.2	6459.2	6736.3	7071.1	7353.7	7589.7
10°	5441.2	5471.4	5531.7	5614.1	5800.7	5817.1	6110.7	6481.1	6914.7	7331.8	7650.1
12.5°	5216.2	5232.7	5246.4	5334.2	5518.0	5542.7	5850.0	6269.9	6791.2	7348.2	7748.8
15°	5249.1	5254.6	5194.2	5210.7	5358.9	5394.6	5699.1	6129.9	6714.4	7389.4	7897.0
17.5°	5526.3	5507.1	5358.9	5282.1	5386.3	5402.8	5668.9	6075.0	6678.7	7466.2	8050.7
20°	5962.5	5935.1	5679.9	5509.8	5570.2	5583.9	5767.7	6116.2	6714.4	7592.4	8289.4
22.5°	6505.8	6494.9	6108.0	5902.2	5899.4	5899.4	5995.5	6264.4	6821.4	7765.3	8539.1
25°	7265.9	7208.3	6703.4	6437.2	6363.2	6357.7	6346.7	6508.6	6958.6	7949.1	8835.4
27.5°	8045.2	7946.4	7496.4	7087.6	6928.4	6909.2	6837.9	6854.3	7134.2	8157.7	9172.9
30°	8744.9	8681.8	8259.2	7806.5	7617.1	7573.2	7375.7	7285.1	7427.8	8533.6	9710.7
32.5°	9279.9	9241.5	8912.3	8500.7	8220.8	8212.6	7924.4	7850.4	7886.0	8989.1	10325.4
35°	9713.5	9727.2	9559.8	9203.1	8882.1	8835.4	8643.4	8550.1	8445.8	9647.6	11099.2
37.5°	10306.2	10336.4	10325.4	10018.1	9625.7	9636.7	9592.8	9439.1	9162.0	10383.0	11958.0
40°	10959.2	10981.2	10978.4	10860.4	10654.7	10665.6	10649.2	10473.6	10059.2	11318.7	12912.9
42.5°	11862.0	11757.7	11486.1	11604.0	11724.8	11776.9	11889.4	11722.0	11154.0	12317.5	13810.2
45°	12871.7	12674.2	12059.5	12114.4	12561.7	12660.5	13280.6	13050.1	12342.2	13464.4	14866.6
47.5°	13508.3	13313.5	12794.9	12783.9	13376.6	13472.7	14570.2	14485.2	13423.3	14701.9	16156.2
50°	14076.3	14048.9	13464.4	13604.4	14183.3	14326.0	15975.1	15895.5	14501.6	16161.7	17561.1
52.5°	14918.7	14696.5	14230.0	14518.1	15283.7	15470.2	17369.0	17135.8	15492.2	17451.3	18924.8
55°	15297.4	15245.2	15217.8	15467.5	16518.4	16652.9	18724.5	18189.5	16337.3	18543.4	19962.0
57.5°	16309.9	16213.8	16485.5	16655.6	17972.7	18178.5	20140.4	19289.8	17078.2	19410.5	20466.9
60°	17621.5	17569.3	17819.0	18126.4	19597.1	19909.9	21753.8	20228.2	17673.6	19846.8	20189.8
62.5°	19580.6	19575.1	19528.5	20187.0	21899.2	22187.4	23606.0	21141.9	17766.9	19520.3	18757.5
65°	22390.4	22291.6	21885.5	22604.4	24763.9	25101.4	25534.9	21652.3	17204.4	17843.7	15794.0
67.5°	25329.2	25323.7	24994.4	25927.3	28877.0	29225.5	27946.9	21539.8	15643.1	14455.0	11217.2
70°	27765.8	27647.8	28067.6	30553.6	34131.7	34535.0	30056.9	20214.5	12460.2	9546.1	6665.0
72.5°	28350.2	28355.7	29228.3	34120.7	39177.7	39240.8	30817.0	16384.0	8338.8	5265.6	3333.9
74°	26550.2	26596.8	27949.6	34299.0	40118.9	39833.5	28874.3	12877.2	5638.8	3438.1	2403.7
75°	24234.3	23940.7	25897.1	33110.9	39142.1	38834.7	26599.6	10333.6	4302.5	2746.7	2104.6
77.5°	12956.8	13255.9	16274.2	24709.0	31799.3	31445.4	18035.8	4955.5	2324.1	1912.5	1514.6
80°	4612.5	5087.2	7150.7	12929.4	20387.3	20497.1	8607.7	2272.0	1635.4	1410.4	1070.1
82.5°	1882.3	1934.5	3070.4	5737.5	10352.8	10451.6	3515.0	1350.0	1168.9	971.3	639.3
85°	735.4	757.3	1358.2	2579.3	4417.7	4705.8	1215.6	713.4	718.9	557.0	326.5
87.5°	247.0	279.9	557.0	858.8	1500.9	1470.7	354.0	211.3	257.9	241.5	101.5
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°	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3	7562.3
2.5°	7586.9	7639.1	7674.8	7713.2	7748.8	7759.8	7751.6	7776.3	7779.0	7781.8	7784.5
5°	7630.8	7702.2	7770.8	7809.2	7825.7	7811.9	7765.3	7740.6	7718.7	7702.2	7707.7
7.5°	7691.2	7792.7	7855.9	7872.3	7828.4	7765.3	7650.1	7559.5	7501.9	7463.5	7460.7
10°	7784.5	7883.3	7935.4	7888.8	7768.0	7614.4	7433.3	7263.2	7134.2	7095.8	7093.0
12.5°	7902.5	8015.0	8012.3	7875.1	7663.8	7389.4	7095.8	6898.2	6722.6	6634.8	6670.5
15°	8056.2	8141.2	8061.6	7814.7	7479.9	7104.0	6741.8	6472.9	6275.4	6182.1	6187.5
17.5°	8234.5	8308.6	8097.3	7707.7	7222.0	6739.1	6319.3	6064.1	5907.7	5839.1	5833.6
20°	8456.8	8478.7	8097.3	7521.1	6890.0	6313.8	5913.2	5734.8	5647.0	5611.3	5622.3
22.5°	8695.5	8651.6	8053.4	7257.7	6453.7	5869.3	5600.3	5520.8	5476.9	5471.4	5476.9
25°	8964.4	8840.9	7962.9	6901.0	5998.2	5485.1	5328.7	5342.4	5350.6	5350.6	5369.9
27.5°	9293.7	9046.7	7811.9	6451.0	5465.9	5128.4	5084.5	5180.5	5224.4	5232.7	5246.4
30°	9727.2	9271.7	7562.3	5888.5	5013.1	4807.4	4884.2	5013.1	5062.5	5092.7	5087.2
32.5°	10243.1	9518.7	7224.7	5326.0	4648.2	4582.4	4675.6	4807.4	4862.2	4878.7	4856.7
35°	10849.5	9798.5	6780.2	4799.1	4329.9	4368.3	4478.1	4519.2	4568.6	4568.6	4579.6
37.5°	11502.5	10023.6	6236.9	4316.2	4083.0	4222.9	4302.5	4264.1	4242.1	4214.7	4228.4
40°	12166.6	10190.9	5531.7	3838.7	3836.0	4072.0	4093.9	3984.2	3896.4	3868.9	3855.2
42.5°	12745.5	10295.2	4895.2	3468.3	3602.8	3923.8	3940.3	3764.7	3624.7	3542.4	3515.0
45°	13428.8	10415.9	4272.3	3161.0	3386.0	3805.8	3847.0	3611.0	3405.2	3232.3	3188.4
47.5°	14364.4	10690.3	3781.1	2922.3	3229.6	3731.7	3789.4	3484.8	3213.1	2988.1	2952.5
50°	15420.8	11066.2	3399.7	2760.4	3108.9	3665.9	3737.2	3355.8	3034.8	2785.1	2757.6
52.5°	16389.5	11269.3	3070.4	2615.0	2990.9	3545.1	3668.6	3262.5	2859.2	2582.0	2557.3
55°	16919.0	10940.0	2746.7	2472.3	2829.0	3388.7	3572.6	3133.6	2689.0	2475.0	2439.3
57.5°	16990.4	10259.5	2453.1	2318.6	2658.9	3196.7	3394.2	2977.2	2579.3	2400.9	2370.7
60°	16438.8	9244.3	2225.3	2192.4	2486.0	2979.9	3193.9	2840.0	2466.8	2318.6	2288.4
62.5°	15066.9	8141.2	2066.2	2077.1	2310.4	2752.2	3045.8	2708.3	2359.8	2228.1	2200.6
65°	12707.1	6719.9	1912.5	1959.2	2154.0	2573.8	2911.3	2598.5	2252.8	2159.5	2134.8
67.5°	8827.2	4851.3	1786.3	1835.7	2005.8	2392.7	2754.9	2480.5	2132.0	2082.6	2044.2
70°	4886.9	2985.4	1638.1	1695.7	1852.1	2189.7	2579.3	2302.2	1956.4	1934.5	1879.6
72.5°	2568.3	1901.5	1470.7	1533.9	1643.6	1929.0	2310.4	2107.3	1783.5	1690.3	1618.9
74°	2005.8	1558.5	1358.2	1424.1	1498.2	1775.3	2151.2	1967.4	1660.1	1550.3	1495.4
75°	1747.9	1388.4	1262.2	1347.3	1413.1	1671.0	2027.8	1868.6	1591.5	1487.2	1437.8
77.5°	1234.8	1039.9	1031.7	1133.2	1168.9	1465.3	1827.5	1701.2	1418.6	1308.9	1262.2
80°	867.1	779.3	817.7	880.8	930.2	1295.1	1695.7	1470.7	1163.4	1034.5	1018.0
82.5°	565.2	510.4	584.5	642.1	658.5	954.9	1369.2	1116.8	847.9	688.7	639.3
85°	260.7	255.2	334.8	326.5	323.8	466.5	812.2	653.1	488.4	364.9	343.0
87.5°	65.9	63.1	82.3	68.6	82.3	71.3	74.1	19.2	2.7	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)