

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: P456509

Luminaire Tested: **GALN-SA7D-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456509
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-SA7D-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 48963 lumens
Efficiency: N/A
Efficacy: 113.1 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): 433
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

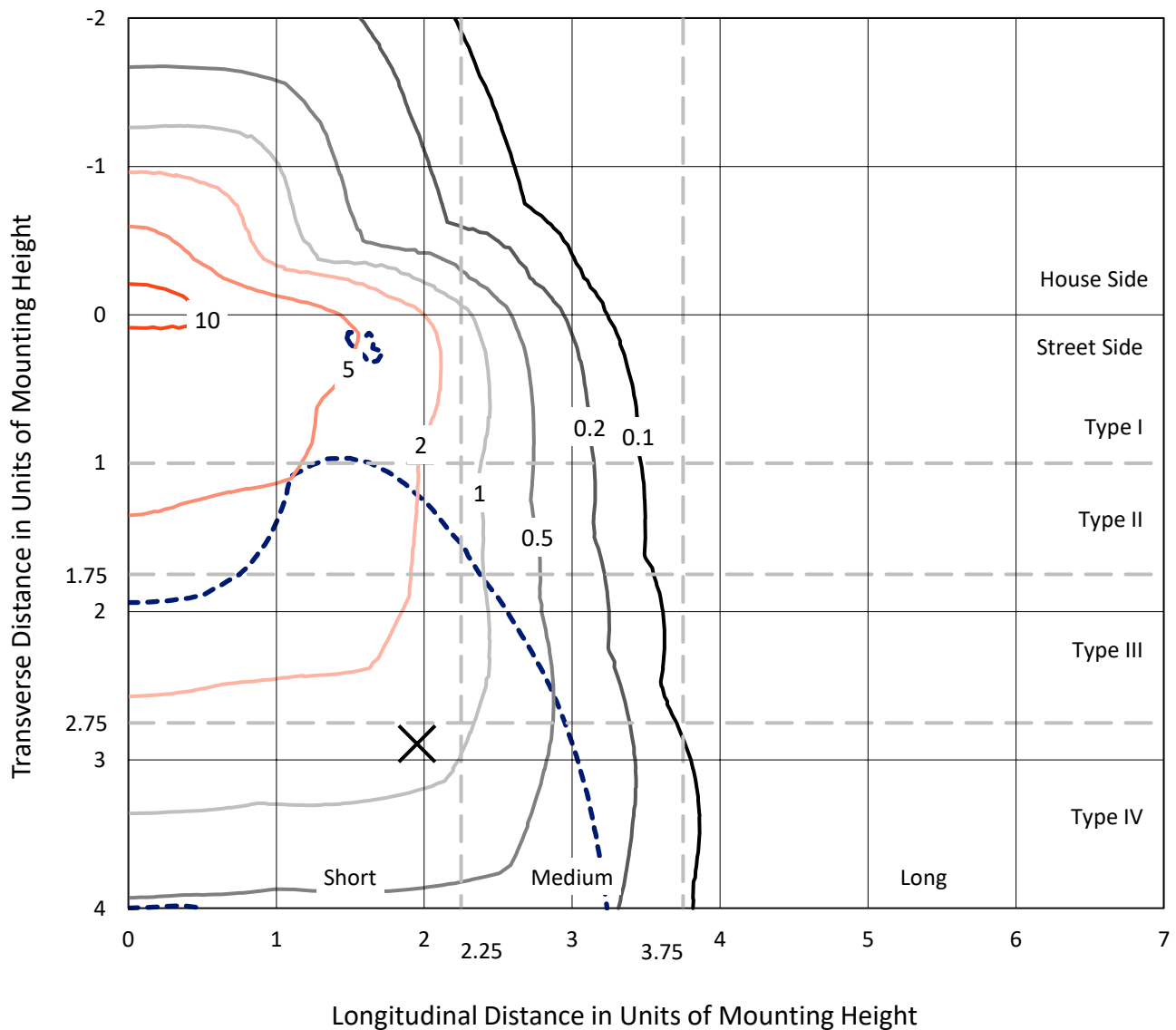


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

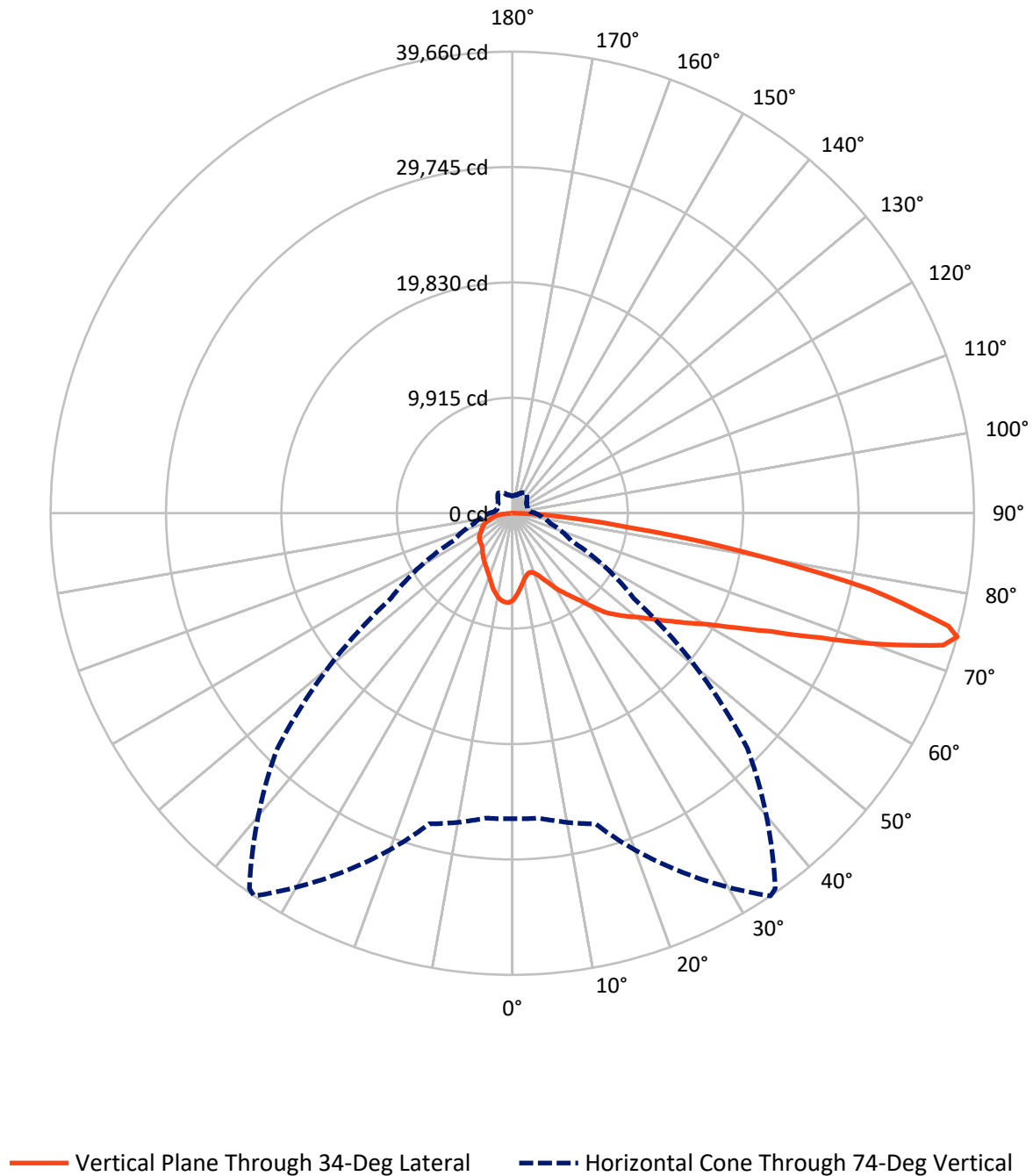


Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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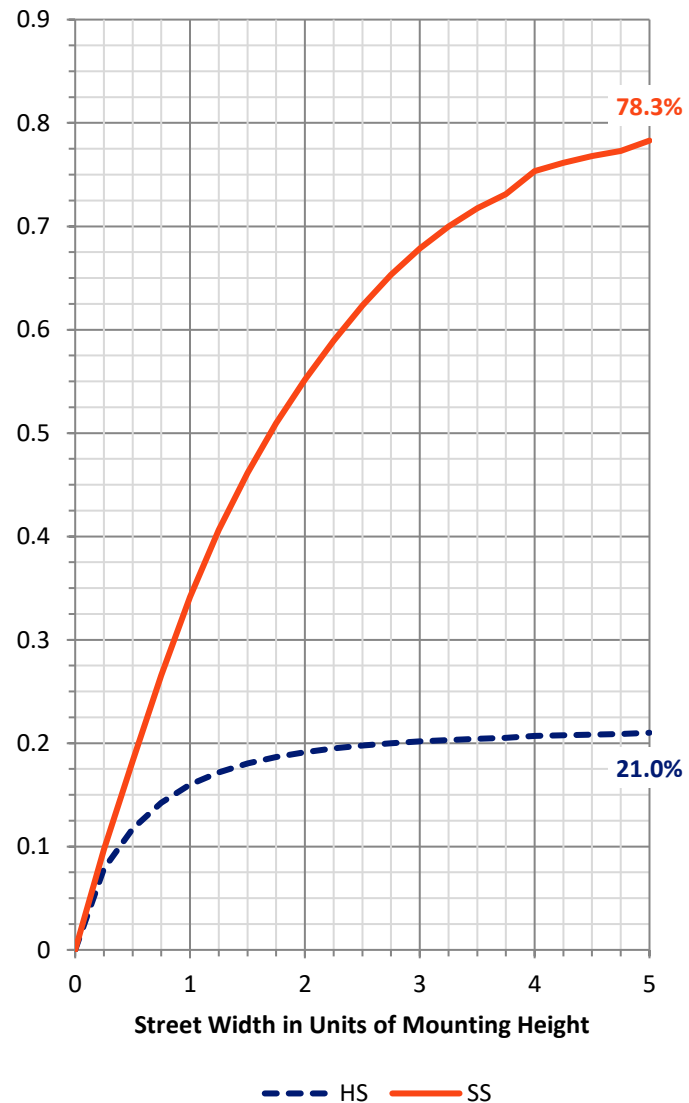
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10419.7	0.0	10419.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	38543.3	0.0	38543.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	48963.0	0.0	48963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.9	1.4
10°-20°	1861.1	3.8
20°-30°	3068.5	6.3
30°-40°	4596.3	9.4
40°-50°	6681.8	13.6
50°-60°	9332.9	19.1
60°-70°	11684.3	23.9
70°-80°	9662.0	19.7
80°-90°	1396.1	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°	48963.0	100.0
0°-180°	48963.0	100.0

Coefficient of Utilization



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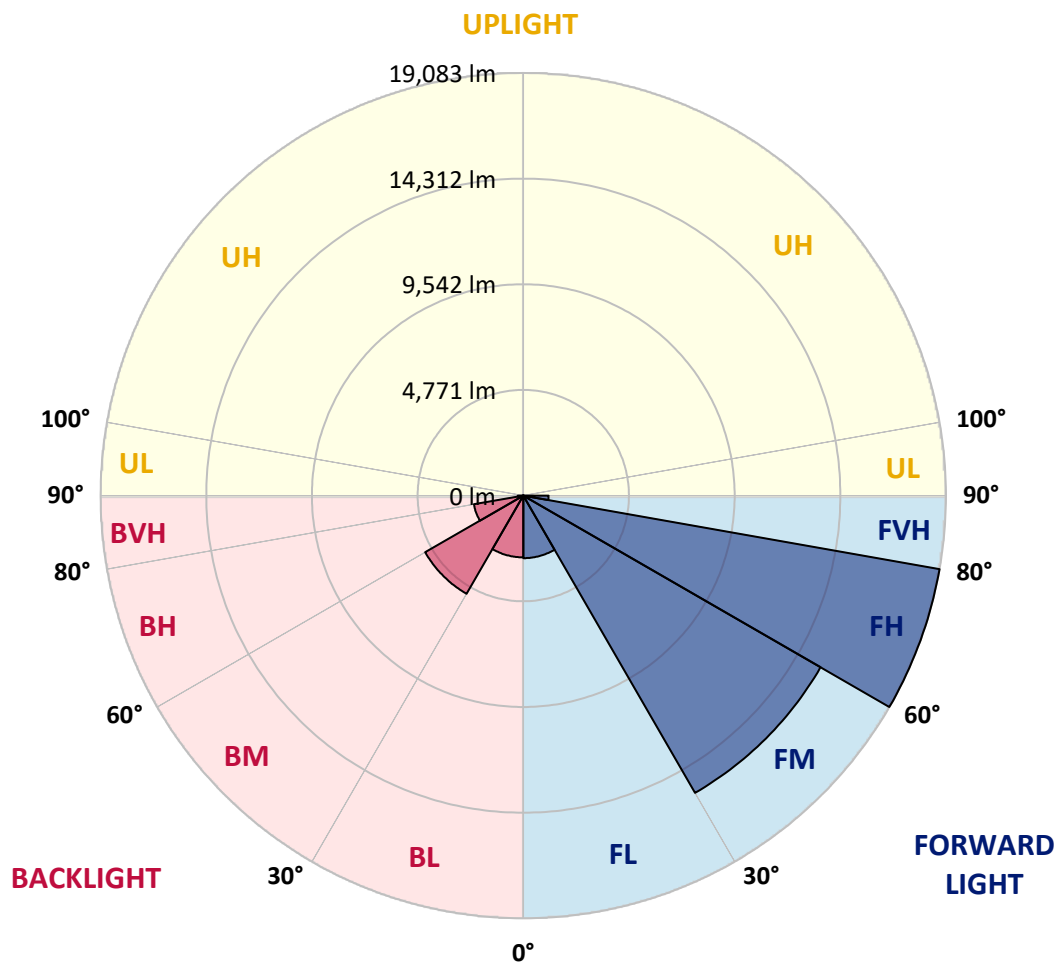
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2822.5	5.8			
FM	(30°-60°)	15493.9	31.6			
FH	(60°-80°)	19083.2	39.0			G5
FVH	(80°-90°)	1143.7	2.3			G5
BL	(0°-30°)	2787.1	5.7	B4/5000		
BM	(30°-60°)	5117.1	10.5	B4/8500		
BH	(60°-80°)	2263.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	252.4	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°	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7
2.5°	6908.8	6944.0	6963.0	7030.8	7047.1	7068.8	7125.8	7201.7	7299.4	7386.2	7462.1
5°	6333.7	6388.0	6420.5	6480.2	6596.8	6607.7	6759.6	6933.2	7131.2	7315.6	7467.5
7.5°	5788.5	5848.2	5875.3	5983.8	6138.4	6162.8	6385.3	6659.2	6990.1	7269.5	7502.8
10°	5378.9	5408.7	5468.4	5549.8	5734.2	5750.5	6040.8	6407.0	6835.5	7247.8	7562.5
12.5°	5156.5	5172.8	5186.3	5273.1	5454.9	5479.3	5783.1	6198.1	6713.5	7264.1	7660.1
15°	5189.0	5194.5	5134.8	5151.1	5297.5	5332.8	5633.9	6059.8	6637.5	7304.8	7806.6
17.5°	5463.0	5444.0	5297.5	5221.6	5324.7	5340.9	5604.0	6005.5	6602.3	7380.7	7958.5
20°	5894.3	5867.2	5614.9	5446.7	5506.4	5520.0	5701.7	6046.2	6637.5	7505.5	8194.5
22.5°	6431.4	6420.5	6038.1	5834.6	5831.9	5831.9	5926.8	6192.7	6743.3	7676.4	8441.3
25°	7182.7	7125.8	6626.7	6363.6	6290.3	6284.9	6274.0	6434.1	6878.9	7858.1	8734.3
27.5°	7953.1	7855.4	7410.6	7006.4	6849.1	6830.1	6759.6	6775.9	7052.5	8064.3	9067.9
30°	8644.8	8582.4	8164.7	7717.1	7529.9	7486.5	7291.2	7201.7	7342.8	8435.9	9599.6
32.5°	9173.7	9135.7	8810.2	8403.4	8126.7	8118.5	7833.7	7760.5	7795.8	8886.2	10207.2
35°	9602.3	9615.9	9450.4	9097.8	8780.4	8734.3	8544.4	8452.2	8349.1	9537.2	10972.1
37.5°	10188.2	10218.0	10207.2	9903.4	9515.5	9526.3	9482.9	9331.0	9057.1	10264.1	11821.1
40°	10833.8	10855.5	10852.8	10736.1	10532.7	10543.5	10527.3	10353.7	9944.1	11189.1	12765.1
42.5°	11726.2	11623.1	11354.6	11471.2	11590.6	11642.1	11753.3	11587.8	11026.4	12176.5	13652.1
45°	12724.4	12529.1	11921.5	11975.7	12417.9	12515.5	13128.6	12900.7	12200.9	13310.3	14696.4
47.5°	13353.7	13161.1	12648.4	12637.6	13223.5	13318.4	14403.4	14319.3	13269.6	14533.6	15971.3
50°	13915.2	13888.1	13310.3	13448.6	14021.0	14162.0	15792.2	15713.6	14335.6	15976.7	17360.1
52.5°	14747.9	14528.2	14067.1	14351.9	15108.7	15293.1	17170.2	16939.6	15314.8	17251.6	18708.2
55°	15122.3	15070.7	15043.6	15290.4	16329.3	16462.2	18510.2	17981.2	16150.3	18331.2	19733.5
57.5°	16123.2	16028.2	16296.8	16464.9	17767.0	17970.4	19909.8	19069.0	16882.7	19188.3	20232.6
60°	17419.7	17368.2	17615.0	17918.9	19372.8	19682.0	21504.8	19996.6	17471.3	19619.6	19958.7
62.5°	19356.5	19351.1	19304.9	19955.9	21648.6	21933.4	23335.7	20899.9	17563.5	19296.8	18542.7
65°	22134.1	22036.4	21635.0	22345.7	24480.4	24814.1	25242.6	21404.4	17007.4	17639.5	15613.2
67.5°	25039.2	25033.8	24708.3	25630.5	28546.5	28891.0	27626.9	21293.2	15464.0	14289.5	11088.7
70°	27447.9	27331.3	27746.3	30203.8	33740.9	34139.7	29712.9	19983.1	12317.5	9436.8	6588.7
72.5°	28025.7	28031.1	28893.7	33730.1	38729.2	38791.6	30464.2	16196.4	8243.3	5205.3	3295.7
74°	26246.3	26292.4	27629.6	33906.4	39659.6	39377.5	28543.8	12729.8	5574.2	3398.8	2376.2
75°	23956.9	23666.7	25600.7	32731.9	38694.0	38390.2	26295.1	10215.3	4253.2	2715.2	2080.5
77.5°	12808.5	13104.1	16087.9	24426.2	31435.3	31085.4	17829.3	4898.8	2297.5	1890.6	1497.3
80°	4559.7	5029.0	7068.8	12781.4	20154.0	20262.5	8509.1	2246.0	1616.7	1394.2	1057.9
82.5°	1860.8	1912.3	3035.3	5671.9	10234.3	10332.0	3474.7	1334.6	1155.5	960.2	632.0
85°	727.0	748.7	1342.7	2549.8	4367.1	4652.0	1201.6	705.3	710.7	550.6	322.8
87.5°	244.1	276.7	550.6	849.0	1483.7	1453.9	349.9	208.9	255.0	238.7	100.4
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°	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7	7475.7
2.5°	7500.1	7551.6	7586.9	7624.9	7660.1	7671.0	7662.8	7687.3	7690.0	7692.7	7695.4
5°	7543.5	7614.0	7681.8	7719.8	7736.1	7722.5	7676.4	7652.0	7630.3	7614.0	7619.4
7.5°	7603.2	7703.5	7765.9	7782.2	7738.8	7676.4	7562.5	7473.0	7416.0	7378.0	7375.3
10°	7695.4	7793.0	7844.6	7798.5	7679.1	7527.2	7348.2	7180.0	7052.5	7014.6	7011.8
12.5°	7812.0	7923.2	7920.5	7784.9	7576.0	7304.8	7014.6	6819.3	6645.7	6558.9	6594.1
15°	7963.9	8048.0	7969.4	7725.2	7394.3	7022.7	6664.6	6398.8	6203.5	6111.3	6116.7
17.5°	8140.2	8213.5	8004.6	7619.4	7139.3	6661.9	6246.9	5994.7	5840.0	5772.2	5766.8
20°	8360.0	8381.7	8004.6	7435.0	6811.1	6241.5	5845.5	5669.1	5582.3	5547.1	5557.9
22.5°	8595.9	8552.5	7961.2	7174.6	6379.8	5802.1	5536.2	5457.6	5414.2	5408.7	5414.2
25°	8861.8	8739.7	7871.7	6822.0	5929.6	5422.3	5267.7	5281.3	5289.4	5289.4	5308.4
27.5°	9187.3	8943.2	7722.5	6377.1	5403.3	5069.7	5026.3	5121.2	5164.6	5172.8	5186.3
30°	9615.9	9165.6	7475.7	5821.0	4955.8	4752.3	4828.3	4955.8	5004.6	5034.4	5029.0
32.5°	10125.8	9409.7	7142.0	5265.0	4595.0	4529.9	4622.1	4752.3	4806.6	4822.8	4801.1
35°	10725.3	9686.4	6702.6	4744.2	4280.3	4318.3	4426.8	4467.5	4516.3	4516.3	4527.2
37.5°	11370.8	9908.8	6165.5	4266.8	4036.2	4174.6	4253.2	4215.2	4193.5	4166.4	4180.0
40°	12027.3	10074.3	5468.4	3794.8	3792.1	4025.4	4047.1	3938.6	3851.8	3824.6	3811.1
42.5°	12599.6	10177.3	4839.1	3428.6	3561.5	3878.9	3895.2	3721.6	3583.2	3501.9	3474.7
45°	13275.0	10296.7	4223.4	3124.8	3347.2	3762.3	3802.9	3569.7	3366.2	3195.3	3151.9
47.5°	14200.0	10567.9	3737.8	2888.8	3192.6	3689.0	3746.0	3444.9	3176.4	2953.9	2918.7
50°	15244.3	10939.6	3360.8	2728.8	3073.3	3623.9	3694.4	3317.4	3000.0	2753.2	2726.1
52.5°	16201.8	11140.3	3035.3	2585.0	2956.6	3504.6	3626.6	3225.2	2826.4	2552.5	2528.1
55°	16725.3	10814.8	2715.2	2444.0	2796.6	3350.0	3531.7	3097.7	2658.3	2446.7	2411.4
57.5°	16795.9	10142.1	2425.0	2292.1	2628.4	3160.1	3355.4	2943.1	2549.8	2373.4	2343.6
60°	16250.7	9138.5	2199.8	2167.3	2457.5	2945.8	3157.4	2807.4	2438.5	2292.1	2262.2
62.5°	14894.4	8048.0	2042.5	2053.4	2283.9	2720.6	3010.9	2677.2	2332.8	2202.6	2175.4
65°	12561.6	6642.9	1890.6	1936.7	2129.3	2544.3	2878.0	2568.7	2227.0	2134.7	2110.3
67.5°	8726.1	4795.7	1765.8	1814.7	1982.8	2365.3	2723.4	2452.1	2107.6	2058.8	2020.8
70°	4831.0	2951.2	1619.4	1676.3	1830.9	2164.6	2549.8	2275.8	1934.0	1912.3	1858.1
72.5°	2538.9	1879.8	1453.9	1516.3	1624.8	1906.9	2283.9	2083.2	1763.1	1670.9	1600.4
74°	1982.8	1540.7	1342.7	1407.8	1481.0	1755.0	2126.6	1944.9	1641.1	1532.6	1478.3
75°	1727.9	1372.5	1247.8	1331.8	1396.9	1651.9	2004.5	1847.2	1573.3	1470.2	1421.4
77.5°	1220.6	1028.0	1019.9	1120.3	1155.5	1448.5	1806.5	1681.8	1402.4	1293.9	1247.8
80°	857.2	770.4	808.3	870.7	919.5	1280.3	1676.3	1453.9	1150.1	1022.6	1006.3
82.5°	558.8	504.5	577.8	634.7	651.0	944.0	1353.5	1104.0	838.2	680.8	632.0
85°	257.7	252.3	330.9	322.8	320.1	461.1	802.9	645.6	482.8	360.8	339.1
87.5°	65.1	62.4	81.4	67.8	81.4	70.5	73.2	19.0	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)