

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: P193328

Luminaire Tested: **GLEON-AF-10-LED-E1-T4W-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-T4W-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62072.4 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 640
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: 25 FT

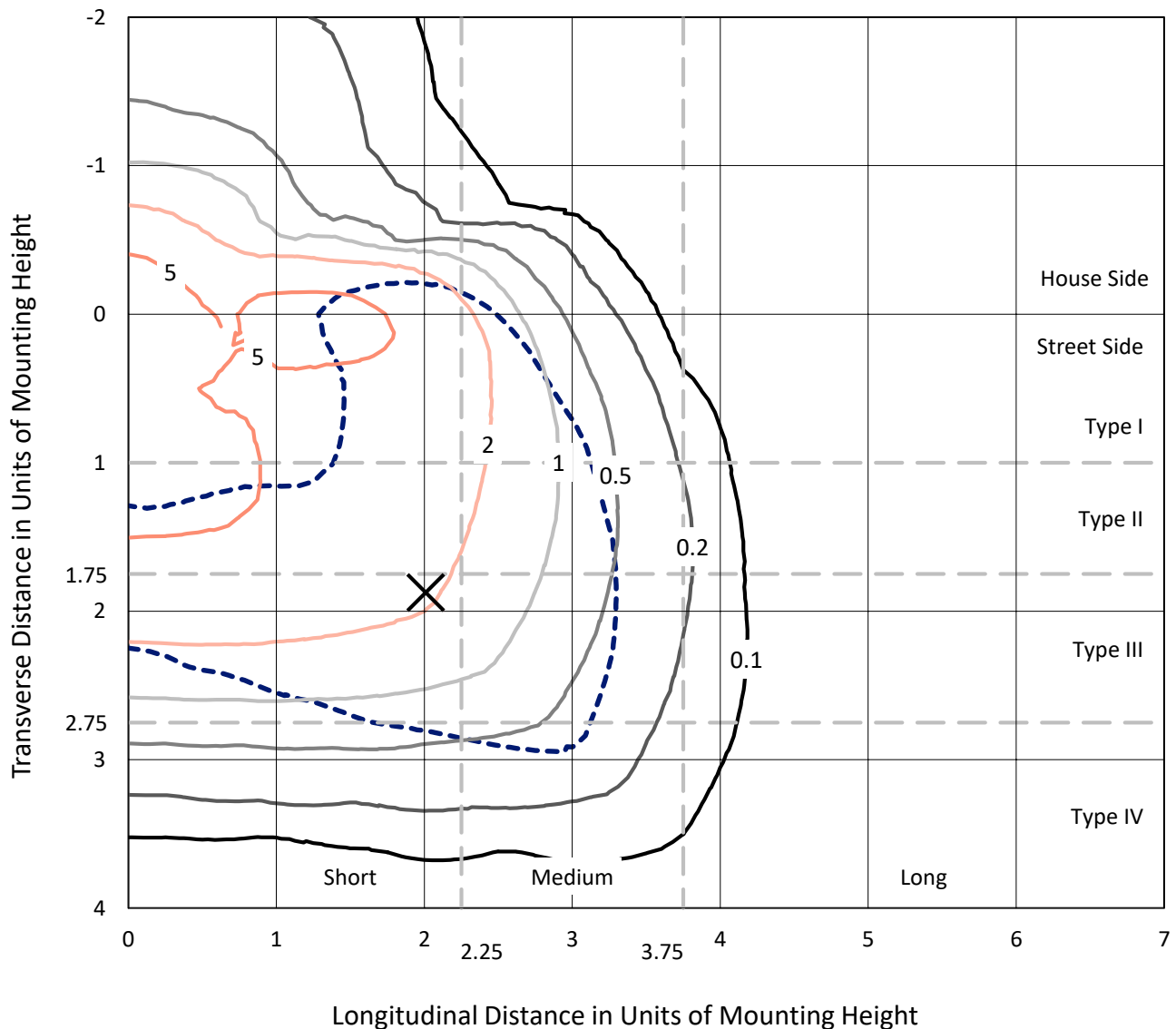


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

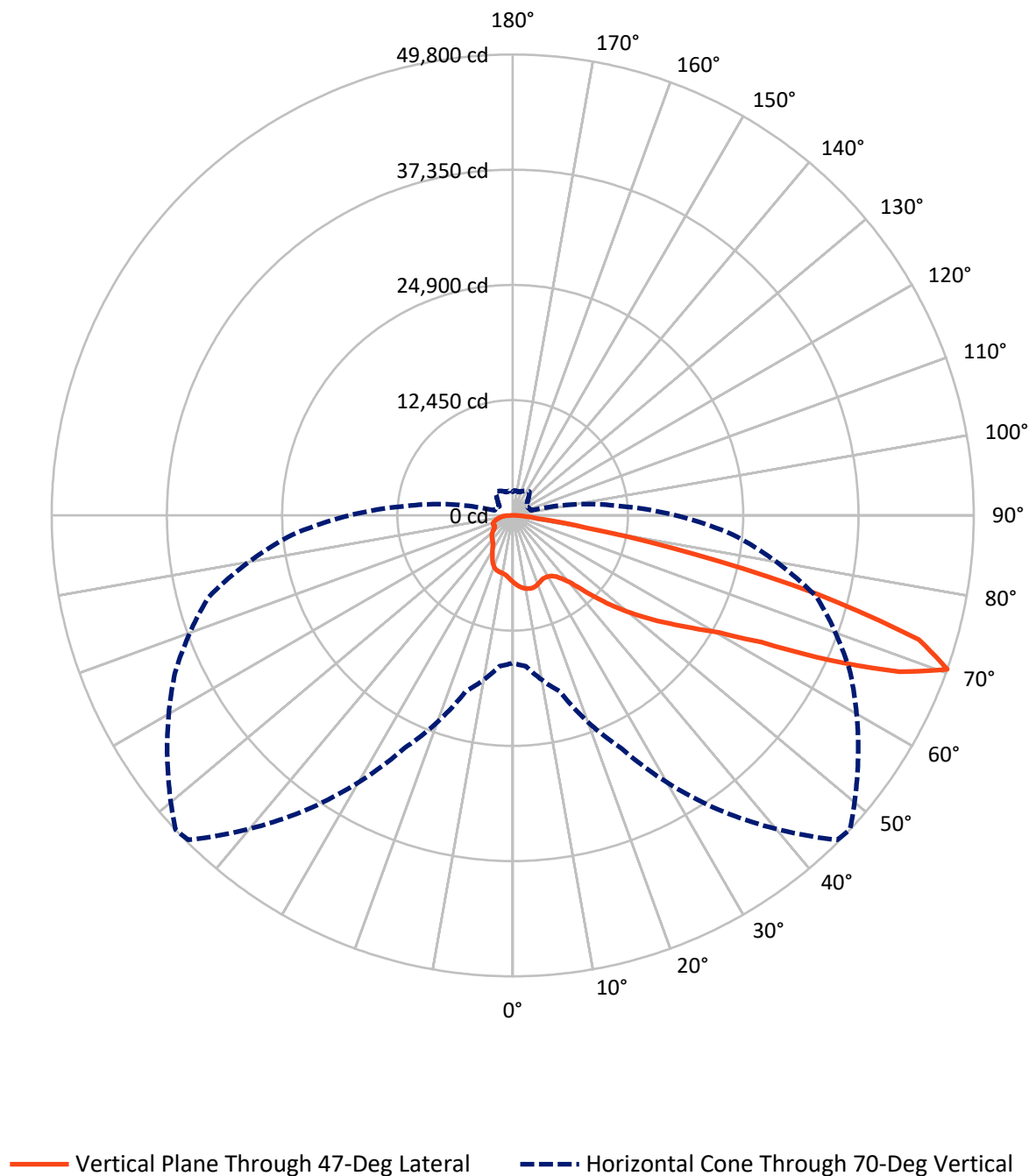


Based on 30 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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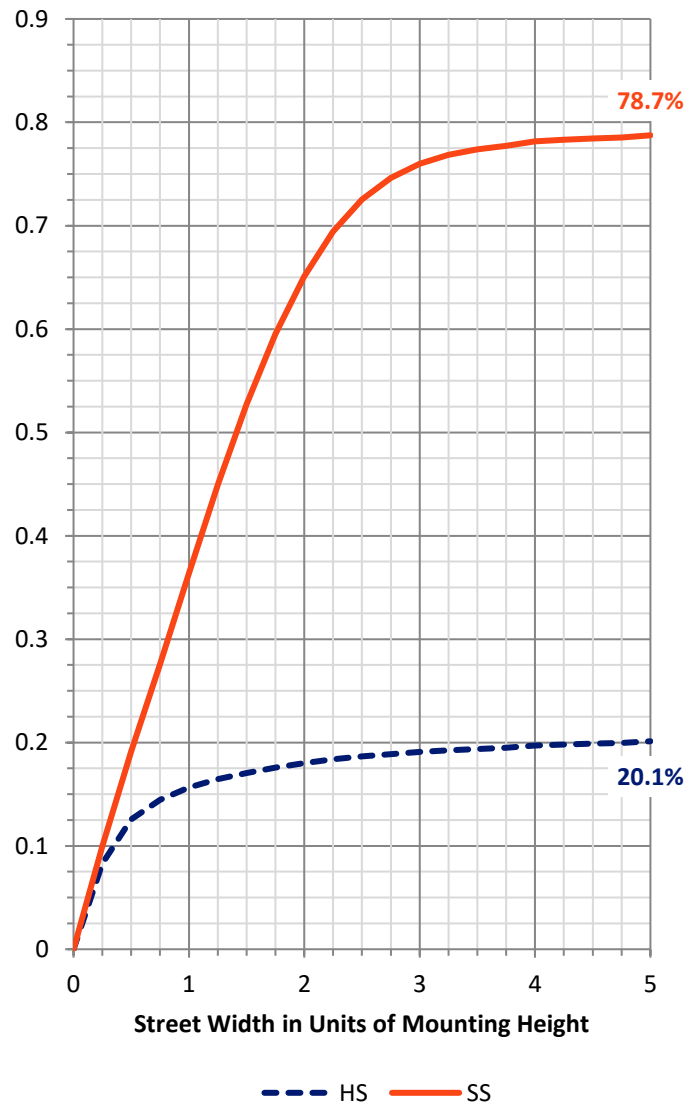
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12949.5	0.0	12949.5
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	49122.9	0.0	49122.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	62072.4	0.0	62072.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.1	1.1
10°-20°	2024.6	3.3
20°-30°	2989.8	4.8
30°-40°	4345.6	7.0
40°-50°	7820.5	12.6
50°-60°	13548.2	21.8
60°-70°	19337.2	31.2
70°-80°	9926.7	16.0
80°-90°	1389.8	2.2
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°	62072.4	100.0
0°-180°	62072.4	100.0

Coefficient of Utilization



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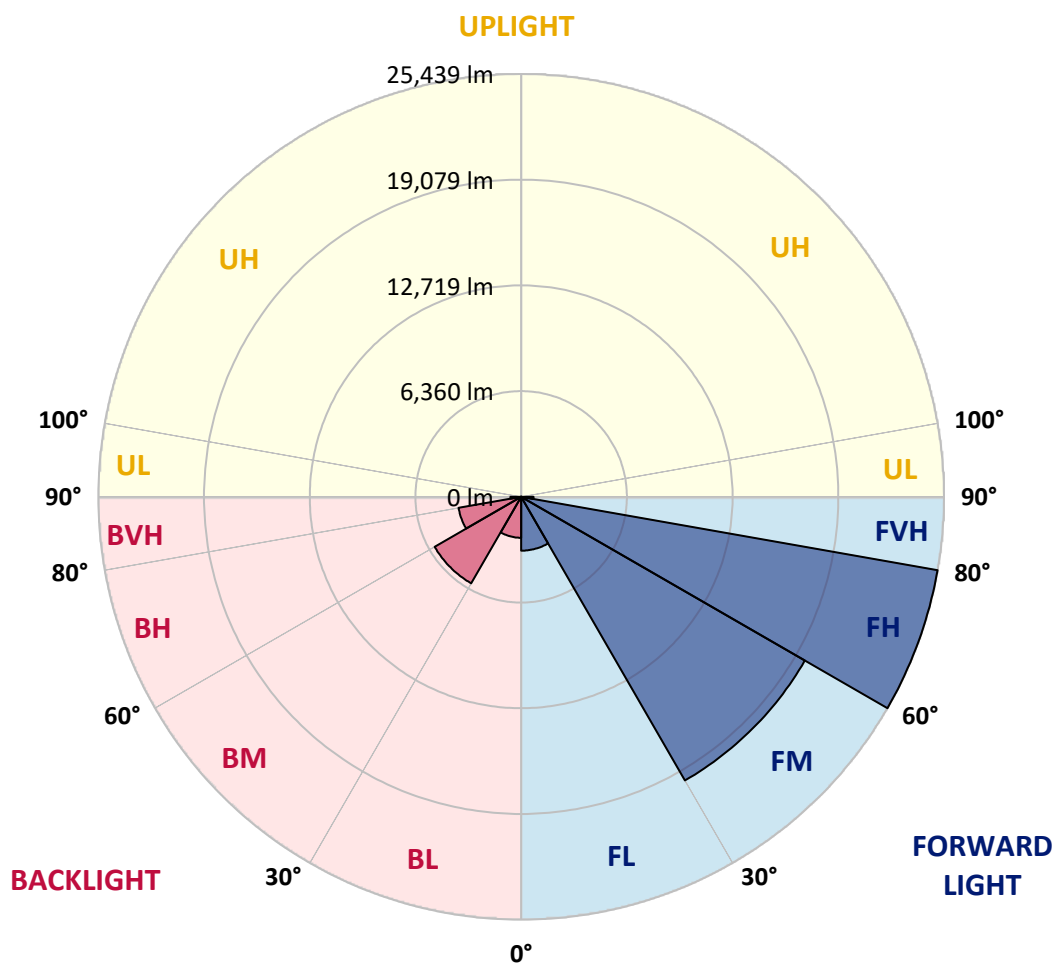
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3238.8	5.2			
FM	(30°-60°)	19703.5	31.7			
FH	(60°-80°)	25439.0	41.0			G5
FVH	(80°-90°)	741.6	1.2			G4/750
BL	(0°-30°)	2465.7	4.0	B3/2500		
BM	(30°-60°)	6010.8	9.7	B4/8500		
BH	(60°-80°)	3824.9	6.2	B4/5000		G4/5000
BVH	(80°-90°)	648.2	1.0			G4/750
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°	35°	45°	47°	55°	65°	75°	85°
0°	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4
2.5°	7625.1	7610.0	7604.0	7591.9	7576.8	7501.3	7486.2	7431.9	7356.3	7277.9	7196.3
5°	8126.3	8123.4	8090.2	8029.8	7933.1	7767.0	7727.8	7594.9	7416.7	7244.7	7072.5
7.5°	8567.3	8540.1	8476.7	8355.9	8186.8	7960.3	7906.0	7721.8	7477.1	7241.6	7009.1
10°	8890.4	8875.3	8736.4	8570.3	8349.9	8099.2	8035.8	7830.5	7561.8	7262.7	6972.8
12.5°	9074.6	9044.5	8884.4	8685.0	8422.4	8177.7	8114.3	7906.0	7604.0	7262.7	6921.5
15°	9062.5	9041.4	8881.3	8663.9	8398.2	8183.7	8126.3	7918.0	7594.9	7232.5	6855.0
17.5°	8820.9	8830.0	8694.1	8479.7	8262.3	8099.2	8047.9	7854.6	7534.5	7172.1	6776.5
20°	8398.2	8440.5	8349.9	8159.6	8038.9	7927.1	7893.9	7730.7	7440.9	7084.6	6692.0
22.5°	7975.4	8014.7	7978.4	7818.4	7800.2	7733.8	7715.7	7597.9	7359.3	7030.2	6640.7
25°	7664.3	7700.6	7694.6	7555.6	7610.0	7606.9	7591.9	7534.5	7341.2	7030.2	6649.7
27.5°	7579.9	7591.9	7579.9	7453.0	7528.5	7588.8	7576.8	7567.8	7395.6	7117.8	6764.5
30°	7869.7	7851.6	7758.0	7501.3	7570.8	7655.2	7643.2	7649.2	7558.7	7347.2	7021.1
32.5°	9026.4	8944.7	8648.9	7927.1	7742.8	7788.2	7794.2	7893.9	7908.9	7700.6	7419.8
35°	10756.7	10666.1	10282.6	9068.6	8277.4	8120.3	8120.3	8271.4	8361.9	8207.9	8038.9
37.5°	12589.7	12490.1	12284.7	10651.0	9400.7	8697.1	8682.1	8787.7	8917.6	8953.8	8996.1
40°	14673.4	14567.7	14625.1	12426.7	10968.1	9696.8	9482.3	9406.7	9757.1	9989.7	10327.8
42.5°	16953.4	16905.1	16926.2	14404.6	12752.8	11191.5	10886.5	10497.0	10919.8	11333.5	12043.1
45°	19064.3	19106.6	19085.4	16521.5	14739.8	13015.5	12692.4	11937.4	12351.2	13060.9	14217.5
47.5°	20912.4	20737.3	21009.0	18834.7	16965.4	15056.9	14658.3	13646.7	14066.5	14942.2	16899.0
50°	23156.2	23132.1	22733.3	21921.0	19656.2	17107.4	16585.0	15413.3	16065.6	17282.5	20278.3
52.5°	25514.7	25076.7	24711.3	24321.8	22509.9	19209.2	18569.0	17173.8	18415.0	19946.1	24397.3
55°	25997.8	25801.6	26254.6	26909.8	25261.0	21392.5	20646.7	19381.4	21060.4	22990.2	29147.5
57.5°	27030.6	27027.6	27963.7	29132.5	28093.7	23708.8	22956.9	22047.9	24035.0	26478.0	34190.7
60°	27728.3	27924.5	29663.9	31931.8	30874.9	26384.4	25692.9	25125.1	27417.2	30376.6	38889.5
62.5°	28093.7	28359.4	30733.0	33067.4	34806.7	30838.7	30147.2	29328.7	31892.6	34652.6	41637.6
65°	26574.6	27097.1	30566.8	34048.8	38249.4	38059.1	37748.1	36310.5	37488.4	38031.9	40644.1
67.5°	22371.1	22905.5	26946.1	33133.8	40707.5	45022.9	45089.3	42634.2	40930.9	38321.8	34172.6
70°	15938.7	16358.6	19701.4	27779.5	38835.2	49573.7	49800.3	45548.3	40245.4	33985.3	23874.9
72.5°	7567.8	7824.4	10989.2	18079.7	30817.5	45421.5	45859.4	41827.8	34220.9	25161.4	13024.6
75°	2781.3	2859.8	3714.4	7691.6	17874.5	33496.1	34012.5	29984.0	22685.1	12526.3	4961.6
77.5°	1667.0	1718.3	2083.7	3246.3	7030.2	19145.8	19909.9	16307.2	9914.1	4662.6	2440.1
80°	1165.7	1201.9	1494.7	2020.3	3321.8	7295.9	7975.4	6655.7	3949.9	2950.4	1775.7
82.5°	788.2	806.4	1050.8	1364.9	2207.5	2606.2	2811.5	2959.4	2663.5	2195.4	1126.4
85°	516.4	534.5	712.7	899.9	1404.2	1346.8	1377.0	1742.4	1944.9	1491.8	625.1
87.5°	296.0	308.0	428.9	480.2	688.6	570.8	576.8	918.0	1244.1	1005.6	380.6
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°	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4	7202.4
2.5°	7175.2	7135.9	7048.4	6993.9	6942.7	6930.6	6909.4	6906.4	6903.3	6903.3	6894.3
5°	7015.1	6948.7	6812.8	6737.3	6673.9	6667.8	6664.9	6679.9	6685.9	6692.0	6683.0
7.5°	6912.4	6821.8	6652.7	6544.0	6468.4	6450.3	6480.6	6550.1	6595.3	6613.5	6604.4
10°	6849.0	6737.3	6541.1	6423.3	6359.8	6350.7	6390.0	6471.5	6565.2	6601.3	6598.3
12.5°	6776.5	6649.7	6441.4	6317.5	6281.4	6299.4	6350.7	6426.2	6522.9	6580.2	6583.3
15°	6704.0	6556.1	6341.6	6232.9	6217.8	6242.0	6290.4	6347.8	6423.3	6480.6	6486.6
17.5°	6616.5	6462.4	6248.1	6136.3	6124.2	6136.3	6139.4	6169.6	6217.8	6272.2	6287.4
20°	6522.9	6365.9	6142.3	6030.7	5976.3	5928.0	5873.6	5879.7	5894.7	5949.0	5961.1
22.5°	6456.4	6299.4	6060.8	5906.8	5761.9	5616.9	5508.2	5493.1	5499.1	5544.5	5559.5
25°	6462.4	6296.4	6039.7	5774.0	5456.9	5224.3	5079.4	5055.2	5052.1	5085.4	5106.6
27.5°	6580.2	6414.2	6118.2	5638.0	5124.7	4780.4	4626.4	4608.2	4584.1	4593.2	4617.3
30°	6843.0	6689.0	6308.4	5499.1	4765.4	4345.6	4185.5	4167.3	4134.2	4119.1	4137.2
32.5°	7271.7	7144.9	6586.2	5366.3	4406.0	3974.1	3811.1	3771.7	3750.7	3732.6	3747.6
35°	7984.4	7930.1	6957.7	5221.3	4088.9	3687.3	3539.2	3478.9	3448.7	3481.9	3506.0
37.5°	9101.9	9132.0	7444.0	4994.8	3844.3	3497.0	3373.2	3303.7	3258.4	3285.7	3312.7
40°	10684.3	10705.3	7981.5	4674.7	3632.9	3385.3	3252.3	3189.0	3125.6	3077.2	3074.2
42.5°	12761.8	12547.5	8509.8	4327.4	3388.2	3315.8	3167.9	3089.3	2992.6	2859.8	2832.6
45°	15226.1	14474.1	8911.5	3928.9	3113.5	3231.3	3074.2	2965.6	2814.5	2669.5	2654.5
47.5°	18064.7	16542.7	9107.9	3515.1	2856.8	3107.5	2959.4	2787.3	2597.1	2524.6	2515.4
50°	21531.5	18997.9	9201.5	3113.5	2633.2	2944.3	2793.3	2591.0	2431.0	2415.8	2406.8
52.5°	25478.3	21951.3	9231.7	2784.3	2449.0	2733.0	2657.5	2461.2	2334.4	2346.5	2346.5
55°	29609.6	25001.2	8820.9	2545.7	2280.0	2515.4	2566.8	2409.8	2304.2	2352.5	2370.6
57.5°	33402.5	27704.0	7528.5	2361.5	2119.9	2349.4	2533.6	2458.2	2385.6	2582.1	2594.1
60°	36313.6	29301.5	5622.9	2195.4	2002.1	2292.0	2621.2	2642.3	2660.5	3128.5	3192.0
62.5°	36923.6	28770.0	3865.4	2065.5	1947.8	2340.4	2781.3	2784.3	2763.1	3089.3	3128.5
65°	34124.2	25409.0	2811.5	1993.1	1902.5	2428.0	2917.2	2853.8	2714.9	2962.4	2890.0
67.5°	27100.1	19142.8	2340.4	1938.7	1836.1	2422.0	3062.1	2917.2	2687.7	2902.0	2784.3
70°	17590.6	11575.0	2083.7	1893.5	1757.6	2307.1	3146.6	2911.1	2609.1	2699.7	2560.8
72.5°	8582.5	5176.0	1911.6	1827.1	1676.0	2147.2	3143.6	2856.8	2527.6	2521.6	2446.1
75°	3358.1	2370.6	1754.4	1727.4	1537.1	1965.9	3059.2	2778.3	2431.0	2334.4	2307.1
77.5°	1965.9	1691.2	1555.2	1579.4	1370.9	1784.7	2935.2	2642.3	2298.0	2183.3	2153.2
80°	1431.4	1265.3	1325.8	1364.9	1171.7	1603.5	2769.1	2476.3	2150.1	2207.5	2165.2
82.5°	918.0	815.4	1075.1	1114.3	975.3	1419.3	2588.1	2301.1	1941.7	1763.6	1721.3
85°	468.0	516.4	800.3	848.6	751.9	1165.7	2367.5	2068.6	1706.2	1467.7	1491.8
87.5°	262.8	353.4	510.4	570.8	531.5	896.9	1920.7	1706.2	1392.2	1132.5	996.6
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)