

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: P193286

Luminaire Tested: **GLEON-AF-08-LED-E1-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T4FT-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 50917 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
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



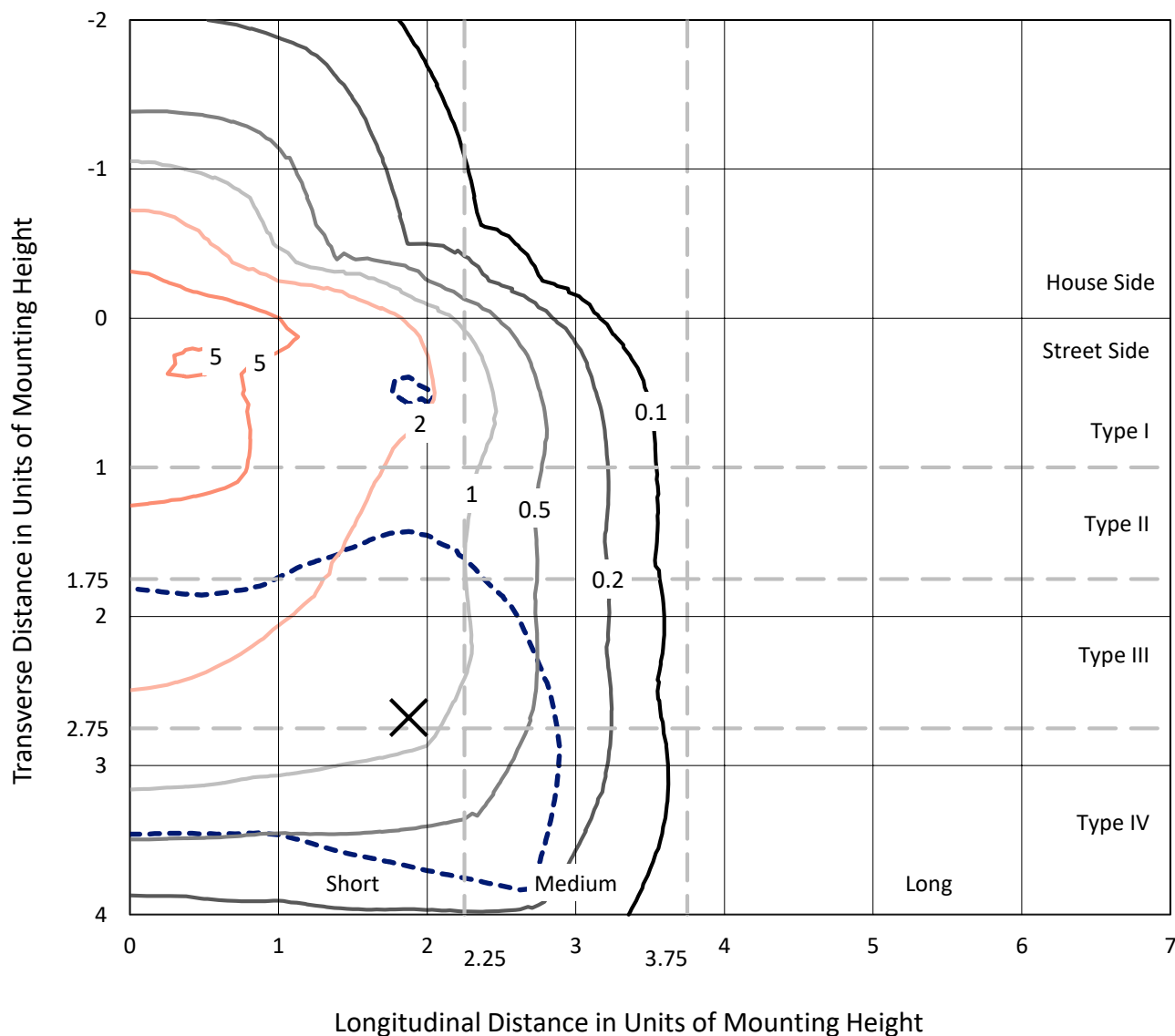
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

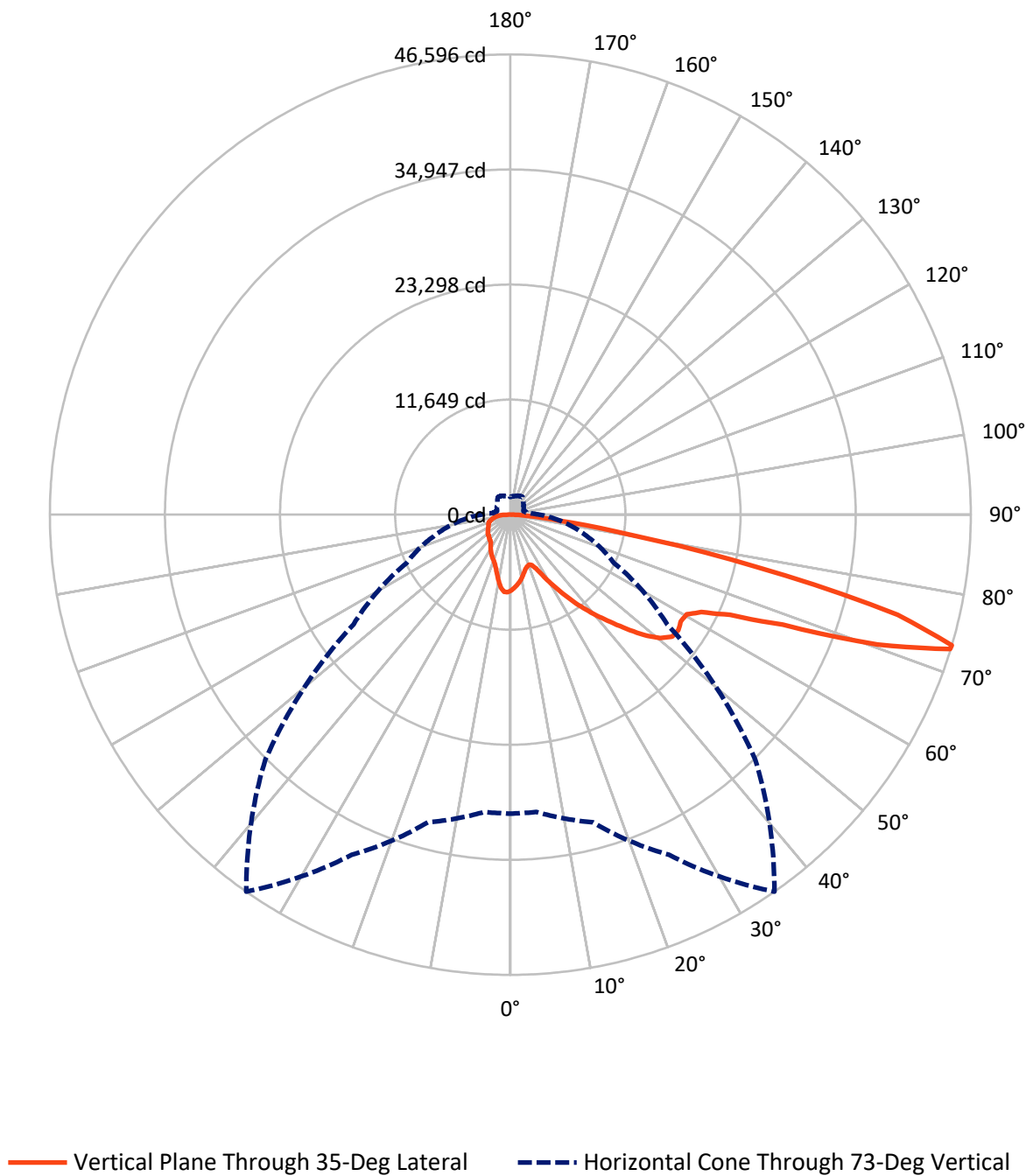


Based on 30 foot mounting height. Maximum calculated value = 8.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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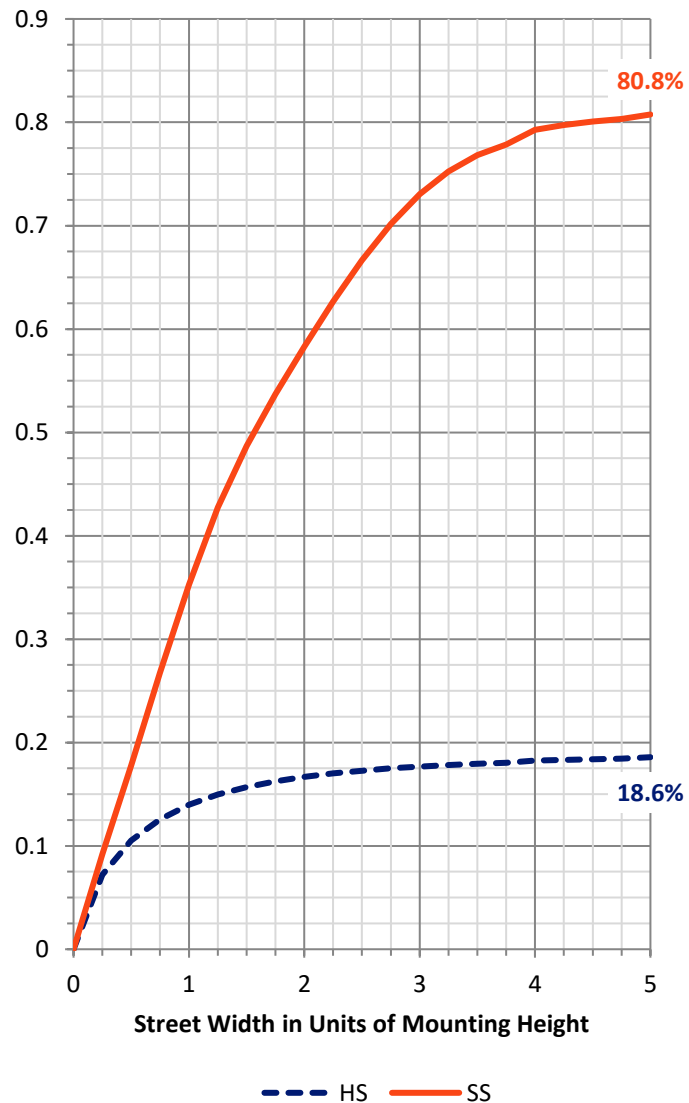
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9711.3	0.0	9711.3
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	41205.7	0.0	41205.7
	% Fixture	80.9	0.0	80.9
Total	Lumens	50917.0	0.0	50917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	695.7	1.4
10°-20°	1736.4	3.4
20°-30°	2807.1	5.5
30°-40°	4707.1	9.2
40°-50°	7255.8	14.3
50°-60°	9734.5	19.1
60°-70°	12968.3	25.5
70°-80°	9890.9	19.4
80°-90°	1121.1	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°	50917.0	100.0
0°-180°	50917.0	100.0

Coefficient of Utilization



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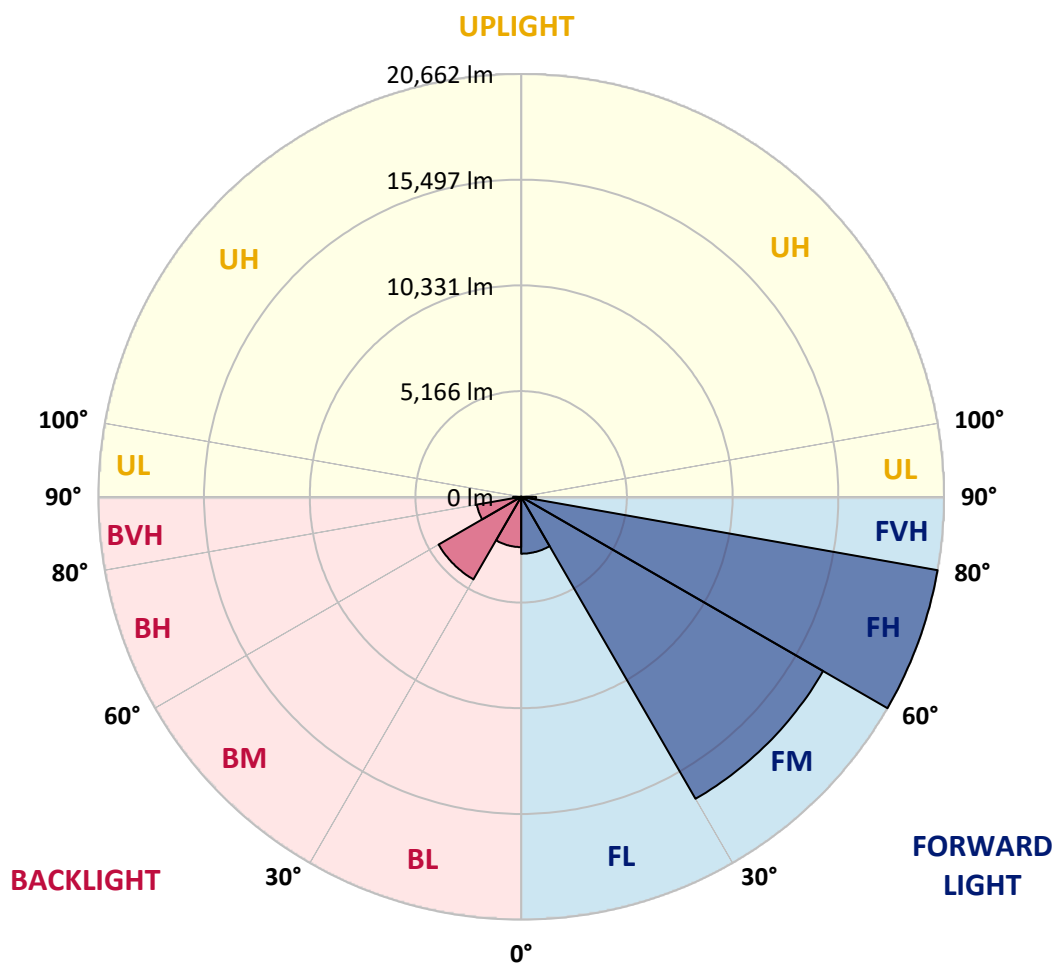
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2781.8	5.5			
FM	(30°-60°)	17037.2	33.5			
FH	(60°-80°)	20662.1	40.6			G5
FVH	(80°-90°)	724.7	1.4			G4/750
BL	(0°-30°)	2457.4	4.8	B3/2500		
BM	(30°-60°)	4660.3	9.2	B3/5000		
BH	(60°-80°)	2197.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	396.4	0.8			G3/500
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0
2.5°	7381.8	7396.5	7379.4	7401.3	7438.1	7477.1	7504.0	7543.2	7587.2	7648.2	7662.9
5°	7034.5	7056.6	7056.6	7095.8	7166.7	7230.1	7288.9	7352.4	7445.4	7550.5	7592.0
7.5°	6653.2	6665.4	6687.3	6746.0	6848.7	6939.2	7022.3	7125.1	7252.2	7391.5	7464.9
10°	6193.5	6210.6	6244.8	6328.0	6467.3	6592.0	6711.8	6853.7	7015.0	7188.6	7281.5
12.5°	5868.2	5863.4	5878.0	5939.2	6061.3	6213.0	6386.6	6567.6	6765.6	6968.5	7081.0
15°	5758.2	5731.3	5675.0	5660.4	5726.4	5878.0	6078.5	6301.0	6538.2	6782.7	6922.1
17.5°	5826.7	5780.3	5626.2	5513.7	5503.9	5618.8	5831.6	6081.0	6354.8	6653.2	6826.7
20°	6257.1	6147.0	5768.1	5506.3	5415.9	5472.1	5658.0	5922.1	6244.8	6640.9	6863.4
22.5°	7286.4	7125.1	6320.5	5834.0	5528.4	5459.9	5599.3	5880.5	6257.1	6792.5	7076.1
25°	8785.2	8555.4	7269.2	6650.7	6019.8	5655.5	5687.3	5975.8	6430.7	7144.6	7486.9
27.5°	9968.7	9819.5	8509.0	7802.3	6914.8	6183.6	5973.4	6215.4	6785.1	7721.7	8071.3
30°	10672.9	10582.5	9834.2	9108.0	8056.6	7024.9	6521.1	6665.4	7340.1	8521.1	8809.7
32.5°	11489.4	11435.7	11068.9	10401.5	9288.9	8130.0	7389.1	7337.8	8083.5	9482.1	9614.2
35°	12335.6	12318.4	12103.3	11624.0	10611.7	9587.3	8540.8	8193.6	8892.8	10479.7	10396.6
37.5°	13122.9	13093.5	12968.8	12690.1	11995.7	11152.1	9714.4	9071.4	9765.7	11433.3	11064.1
40°	14572.8	14343.0	13915.0	13704.8	13394.3	12470.0	10646.0	9890.4	10670.5	12342.9	11641.1
42.5°	16340.6	15966.5	15169.4	14880.9	14836.9	13509.2	11281.7	10685.1	11582.5	13245.2	12208.4
45°	17731.9	17379.8	16692.7	16328.4	16489.7	14450.5	11919.8	11533.5	12521.3	14191.3	12792.7
47.5°	19216.1	18663.4	17753.9	17863.9	18216.0	15340.5	12570.3	12445.6	13550.8	15250.1	13518.9
50°	19269.8	18846.9	18448.3	19106.0	19653.8	16159.7	13384.5	13401.6	14810.0	16582.8	14484.8
52.5°	18152.5	18061.9	18695.3	19729.5	20519.3	16807.7	14311.3	14389.5	16421.3	18113.3	15546.0
55°	17761.1	17658.5	18389.7	19511.9	20636.7	17343.2	15316.1	15457.9	18370.1	19727.1	16580.2
57.5°	18714.8	18487.4	18536.3	19409.3	20350.6	17930.0	16411.5	16697.6	20487.5	21138.0	17245.3
60°	21380.0	20893.4	19969.2	19947.1	20504.5	18810.2	17678.0	18027.8	22688.1	21812.7	16986.1
62.5°	25118.4	24632.0	22900.8	21773.6	21690.4	20262.5	19233.1	19326.1	23959.6	20898.2	15404.1
65°	29165.2	28729.9	26795.9	25204.2	24436.4	22668.6	21040.0	19905.6	23543.8	18382.4	12636.3
67.5°	34077.4	33610.4	31947.7	30478.2	29739.9	26551.4	22309.1	19350.6	20905.6	14240.3	9083.6
70°	37512.7	37035.9	36380.7	37571.4	39378.3	32153.2	22473.0	17093.7	15614.5	9465.0	5467.3
72.5°	33030.9	32808.4	34004.0	39019.0	46545.0	35551.8	20313.9	12445.6	9068.8	5024.8	3163.9
73°	30263.0	30214.1	32253.4	38004.2	46596.4	35028.5	19367.7	11567.9	7777.8	4445.2	2892.5
75°	13665.7	14059.4	18529.0	29028.2	40483.7	28864.4	13631.4	6636.0	4393.9	3071.1	2183.4
77.5°	3283.8	3420.7	5797.3	13785.5	25566.0	17201.3	6176.3	3281.3	2809.4	2168.8	1594.2
80°	1398.6	1445.1	2232.3	5093.1	12037.2	6926.9	2846.1	2198.2	1943.8	1513.6	1117.4
82.5°	777.5	826.4	1266.6	2310.7	4858.4	2361.9	1736.0	1530.6	1278.8	912.0	726.2
85°	440.1	467.0	740.9	1291.0	2058.8	948.7	1039.2	1017.2	721.3	469.5	356.9
87.5°	207.8	225.0	356.9	599.1	806.9	371.7	528.2	582.0	452.4	286.0	185.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0	7685.0
2.5°	7680.1	7724.1	7775.4	7802.3	7826.8	7856.1	7885.5	7885.5	7890.3	7892.8
5°	7626.3	7716.8	7797.4	7831.7	7839.1	7839.1	7831.7	7792.6	7758.3	7773.0
7.5°	7513.8	7645.9	7714.2	7702.1	7609.2	7501.5	7411.0	7301.0	7244.9	7235.0
10°	7352.4	7504.0	7516.3	7394.0	7164.1	6934.3	6743.6	6557.7	6469.8	6447.7
12.5°	7174.0	7313.3	7235.0	6983.2	6614.0	6279.0	6037.0	5848.6	5765.5	5743.5
15°	7029.6	7125.1	6926.9	6530.9	6066.3	5711.7	5511.2	5371.8	5313.2	5296.2
17.5°	6954.0	6973.5	6611.6	6076.1	5582.2	5286.3	5161.6	5095.7	5073.6	5061.3
20°	6990.5	6853.7	6310.9	5653.1	5186.1	4978.2	4948.9	4931.8	4926.8	4919.5
22.5°	7174.0	6816.9	6034.5	5252.1	4838.9	4748.4	4772.9	4770.4	4765.5	4760.7
25°	7501.5	6848.7	5765.5	4870.7	4547.9	4528.4	4572.4	4572.4	4552.9	4552.9
27.5°	7934.4	6914.8	5464.8	4508.8	4283.8	4286.2	4320.5	4310.8	4288.8	4274.0
30°	8462.4	6956.3	5112.7	4183.5	4036.9	4027.1	4036.9	3995.3	3929.3	3924.4
32.5°	9002.9	6904.9	4704.3	3895.1	3775.2	3753.3	3745.9	3687.2	3611.4	3589.3
35°	9491.9	6716.7	4288.8	3665.2	3525.8	3476.9	3511.1	3491.6	3423.1	3406.0
37.5°	9848.8	6367.1	3914.6	3462.3	3347.3	3335.1	3357.1	3364.4	3283.8	3266.7
40°	10088.5	5892.7	3594.3	3291.1	3313.1	3266.7	3193.3	3142.0	3117.5	3110.2
42.5°	10281.7	5398.8	3325.3	3210.5	3320.5	3186.0	3027.0	2943.9	2987.9	3007.5
45°	10504.1	4917.1	3100.3	3110.2	3283.8	3093.0	2912.1	2831.5	2848.5	2853.5
47.5°	10809.8	4330.3	2858.3	2948.8	3161.5	3029.4	2841.2	2726.2	2645.6	2608.9
50°	11232.8	3635.8	2606.5	2767.9	3041.7	2983.0	2731.2	2608.9	2459.8	2425.5
52.5°	11526.2	2987.9	2398.7	2616.2	2934.1	2890.1	2643.2	2484.2	2327.8	2298.4
55°	11367.4	2481.9	2217.8	2447.5	2792.3	2775.1	2569.8	2357.0	2234.8	2210.5
57.5°	10572.6	2161.4	2078.3	2288.7	2618.7	2677.4	2472.0	2249.5	2161.4	2144.3
60°	9056.6	1960.9	1990.2	2181.1	2476.9	2579.6	2374.2	2190.7	2132.0	2119.9
62.5°	7027.2	1826.5	1924.3	2102.8	2366.9	2511.1	2320.4	2183.4	2161.4	2146.8
65°	5034.4	1718.8	1853.4	2024.6	2266.6	2447.5	2300.9	2173.7	2178.6	2166.4
67.5°	3420.7	1623.6	1767.9	1936.5	2168.8	2391.3	2273.9	2139.6	2200.6	2186.0
70°	2393.8	1530.6	1667.6	1824.1	2046.5	2313.0	2225.1	2088.2	2083.2	2024.6
72.5°	1868.0	1408.4	1530.6	1667.6	1890.0	2203.0	2127.3	1973.2	1892.5	1831.4
73°	1782.4	1379.1	1496.5	1633.3	1855.9	2176.1	2100.3	1941.4	1851.0	1794.7
75°	1474.4	1251.9	1359.5	1481.8	1709.2	2049.0	1968.3	1797.1	1682.3	1647.9
77.5°	1159.0	1071.0	1173.7	1283.7	1506.1	1863.2	1772.7	1608.9	1545.3	1516.0
80°	858.2	887.6	978.1	1075.8	1305.6	1665.1	1584.5	1420.6	1704.2	1633.3
82.5°	603.9	672.4	755.5	843.6	1095.5	1471.9	1374.2	1205.4	1246.9	1036.8
85°	356.9	440.1	518.3	594.2	789.7	1220.1	1134.5	960.9	787.3	750.6
87.5°	207.8	244.5	266.5	344.7	542.8	919.3	799.6	711.5	408.3	276.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)