

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: P193278

Luminaire Tested: **GLEON-AF-10-LED-E1-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193278
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-10-LED-E1-T4FT-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA 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: 57325 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 558
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

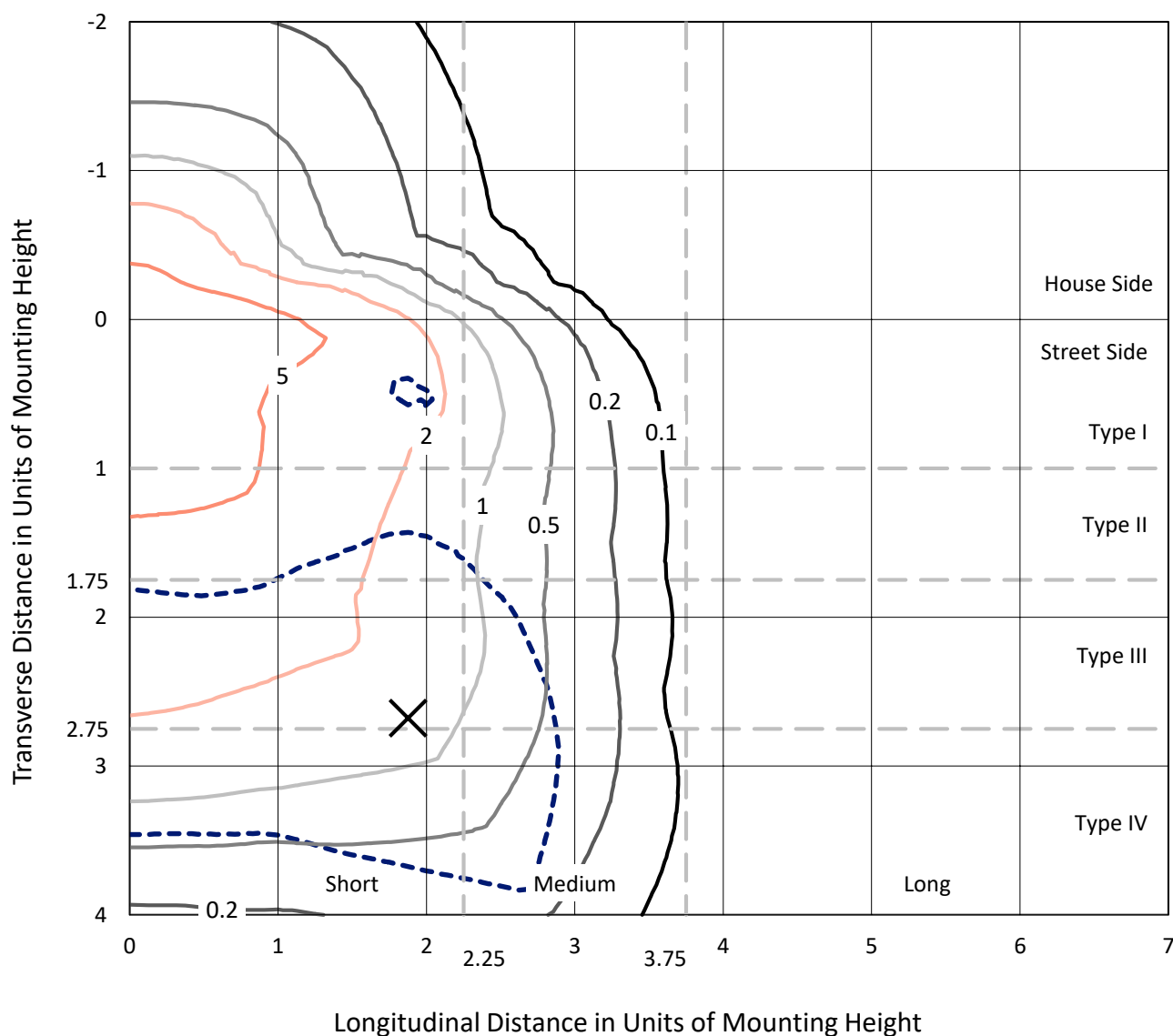


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

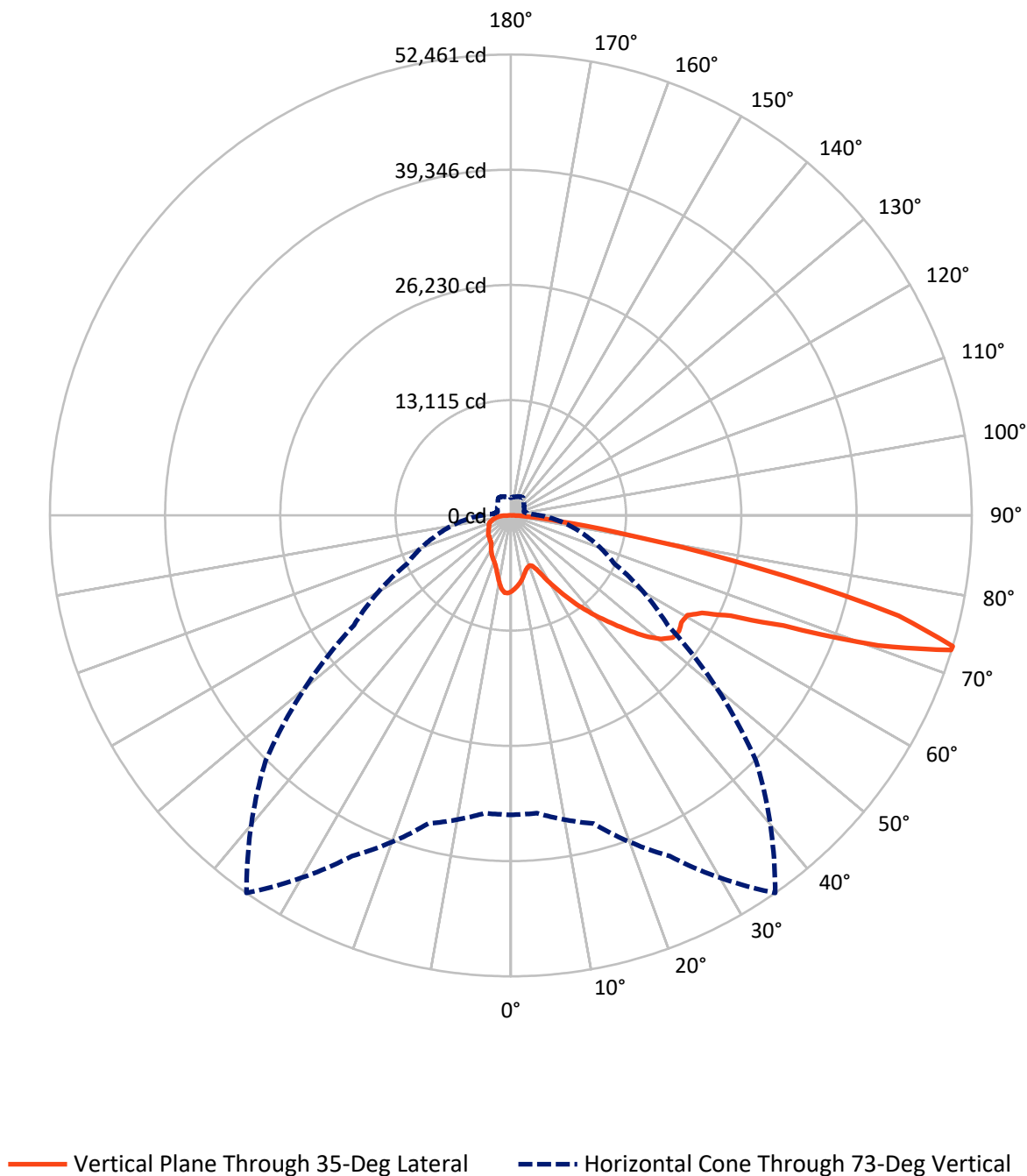


Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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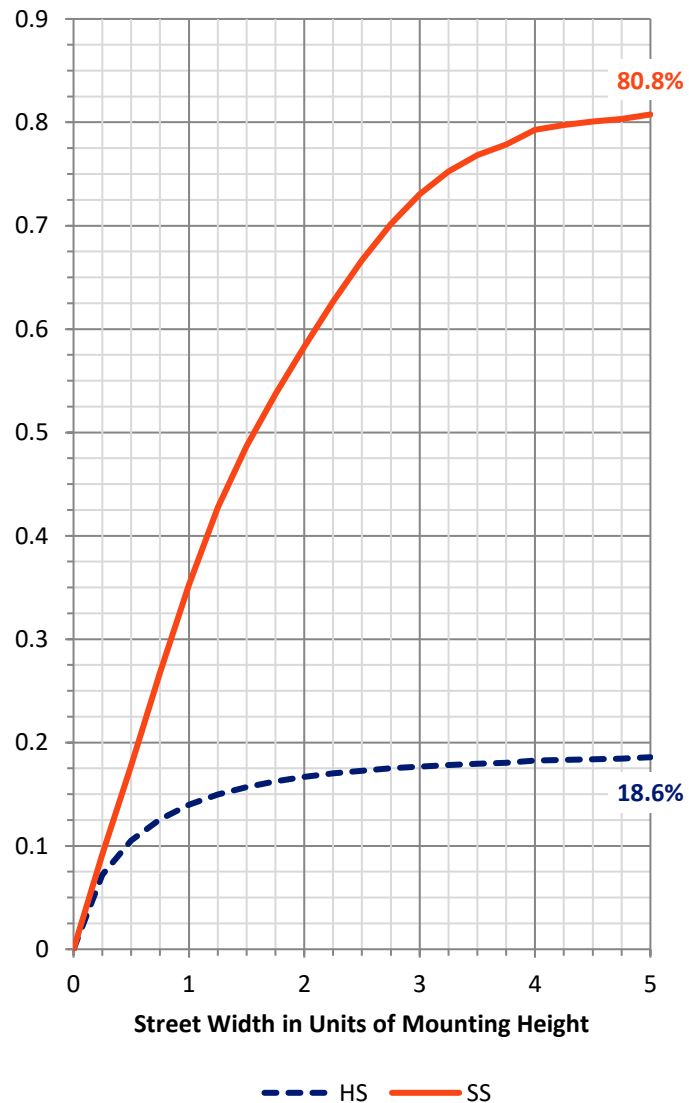
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10933.5	0.0	10933.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	46391.6	0.0	46391.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	57325.0	0.0	57325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.3	1.4
10°-20°	1954.9	3.4
20°-30°	3160.4	5.5
30°-40°	5299.6	9.2
40°-50°	8169.0	14.3
50°-60°	10959.6	19.1
60°-70°	14600.4	25.5
70°-80°	11135.7	19.4
80°-90°	1262.2	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°	57325.0	100.0
0°-180°	57325.0	100.0

Coefficient of Utilization



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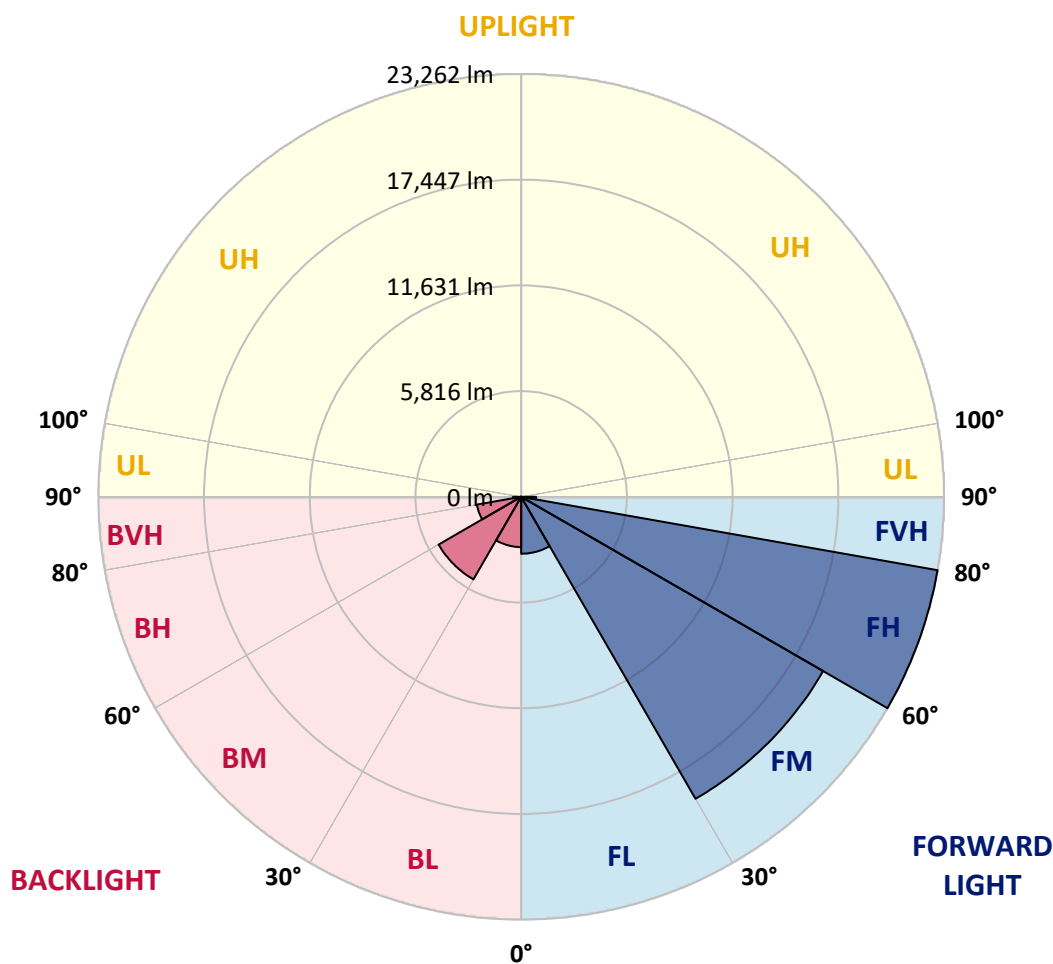
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3131.9	5.5			
FM	(30°-60°)	19181.3	33.5			
FH	(60°-80°)	23262.5	40.6			G5
FVH	(80°-90°)	815.9	1.4			G5
BL	(0°-30°)	2766.7	4.8	B4/5000		
BM	(30°-60°)	5246.8	9.2	B4/8500		
BH	(60°-80°)	2473.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	446.3	0.8			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°	35°	45°	55°	65°	75°	85°	90°
0°	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1
2.5°	8310.8	8327.3	8308.1	8332.7	8374.0	8418.1	8448.5	8492.5	8542.0	8610.8	8627.3
5°	7919.8	7944.7	7944.7	7988.7	8068.6	8140.2	8206.1	8277.7	8382.4	8500.7	8547.6
7.5°	7490.5	7504.3	7528.9	7595.0	7710.7	7812.5	7906.1	8021.7	8164.8	8321.8	8404.3
10°	6972.9	6992.1	7030.8	7124.4	7281.2	7421.7	7556.5	7716.2	7897.8	8093.3	8197.9
12.5°	6606.8	6601.2	6617.9	6686.6	6824.3	6994.9	7190.4	7394.1	7617.1	7845.6	7972.2
15°	6482.9	6452.7	6389.3	6372.8	6447.2	6617.9	6843.6	7093.9	7361.1	7636.3	7793.3
17.5°	6560.0	6507.7	6334.3	6207.7	6196.6	6326.0	6565.5	6846.3	7154.7	7490.5	7685.9
20°	7044.5	6920.6	6494.0	6199.4	6097.5	6160.8	6370.1	6667.3	7030.8	7476.7	7727.2
22.5°	8203.4	8021.7	7116.0	6568.2	6224.2	6147.0	6303.9	6620.6	7044.5	7647.4	7966.6
25°	9890.9	9632.2	8184.2	7487.6	6777.5	6367.3	6403.0	6727.8	7239.9	8043.7	8429.2
27.5°	11223.2	11055.4	9579.9	8784.2	7784.9	6961.9	6725.1	6997.7	7639.1	8693.4	9087.1
30°	12016.2	11914.1	11071.9	10254.3	9070.6	7908.8	7341.7	7504.3	8264.0	9593.6	9918.4
32.5°	12935.5	12875.0	12462.0	11710.5	10458.0	9153.2	8319.0	8261.2	9100.9	10675.5	10824.1
35°	13888.1	13868.8	13626.5	13087.0	11947.3	10793.8	9615.6	9224.8	10012.1	11798.6	11705.1
37.5°	14774.4	14741.4	14601.0	14287.2	13505.3	12555.6	10937.0	10213.0	10994.8	12872.2	12456.5
40°	16406.8	16148.1	15666.3	15429.6	15080.0	14039.4	11985.8	11135.1	12013.4	13896.2	13106.2
42.5°	18397.2	17976.0	17078.6	16753.7	16704.1	15209.3	12701.5	12029.9	13040.1	14912.0	13744.9
45°	19963.6	19567.1	18793.5	18383.4	18565.0	16269.2	13420.0	12985.0	14097.1	15977.4	14402.8
47.5°	21634.4	21012.3	19988.2	20112.1	20508.5	17271.2	14152.3	14011.9	15256.2	17169.3	15220.4
50°	21695.1	21218.8	20770.0	21510.6	22127.1	18193.5	15068.9	15088.2	16673.8	18669.6	16307.7
52.5°	20437.0	20335.2	21048.1	22212.5	23101.7	18922.9	16112.3	16200.4	18488.0	20392.9	17502.5
55°	19996.5	19881.0	20704.0	21967.5	23233.9	19525.8	17243.8	17403.4	20682.0	22209.7	18667.0
57.5°	21070.1	20814.1	20869.2	21852.0	22911.7	20186.5	18477.0	18799.0	23065.9	23798.2	19415.7
60°	24070.7	23522.9	22482.3	22457.5	23085.2	21177.5	19902.8	20296.5	25543.5	24557.9	19123.8
62.5°	28279.8	27731.9	25783.0	24514.0	24420.3	22812.7	21653.8	21758.3	26974.9	23528.4	17342.8
65°	32835.6	32345.6	30168.2	28376.2	27511.7	25521.5	23688.1	22410.7	26507.0	20695.8	14226.6
67.5°	38366.2	37840.3	35968.4	34314.0	33482.6	29892.9	25116.7	21785.9	23536.6	16032.4	10226.7
70°	42233.8	41697.0	40959.3	42299.9	44334.2	36199.7	25301.2	19245.0	17579.6	10656.2	6155.3
72.5°	37187.9	36937.4	38283.6	43929.6	52402.8	40026.0	22870.4	14011.9	10210.3	5657.0	3562.2
73°	34071.7	34016.7	36312.6	42787.1	52460.7	39437.0	21805.1	13023.6	8756.7	5004.6	3256.6
75°	15385.6	15828.7	20860.9	32681.5	45578.5	32497.1	15347.0	7471.1	4946.8	3457.5	2458.3
77.5°	3697.0	3851.2	6526.9	15520.4	28783.6	19366.1	6953.6	3694.3	3162.9	2441.7	1794.8
80°	1574.7	1626.9	2513.3	5734.2	13552.2	7798.7	3204.2	2474.8	2188.5	1704.0	1258.0
82.5°	875.3	930.5	1426.0	2601.5	5469.8	2659.3	1954.5	1723.2	1439.7	1026.8	817.6
85°	495.5	525.7	834.0	1453.4	2317.8	1068.1	1169.9	1145.1	812.2	528.6	402.0
87.5°	234.1	253.3	402.0	674.4	908.4	418.5	594.6	655.1	509.2	322.1	209.2
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°	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1	8652.1
2.5°	8646.7	8696.2	8754.0	8784.2	8811.8	8844.9	8877.9	8877.9	8883.4	8886.2
5°	8586.0	8688.0	8778.8	8817.3	8825.5	8825.5	8817.3	8773.3	8734.7	8751.2
7.5°	8459.4	8608.1	8685.1	8671.4	8566.8	8445.6	8343.8	8219.9	8156.6	8145.6
10°	8277.7	8448.5	8462.2	8324.6	8065.7	7807.0	7592.3	7383.0	7284.0	7259.1
12.5°	8076.8	8233.7	8145.6	7862.1	7446.3	7069.3	6796.7	6584.7	6491.2	6466.4
15°	7914.4	8021.7	7798.7	7352.8	6829.8	6430.6	6204.9	6047.9	5982.0	5962.6
17.5°	7829.1	7851.1	7443.7	6840.7	6284.7	5951.6	5811.2	5736.8	5712.1	5698.3
20°	7870.4	7716.2	7105.0	6364.6	5838.7	5604.8	5571.6	5552.4	5547.0	5538.7
22.5°	8076.8	7674.9	6794.0	5913.1	5447.8	5345.9	5373.5	5370.7	5365.2	5359.7
25°	8445.6	7710.7	6491.2	5483.6	5120.2	5098.2	5147.8	5147.8	5125.8	5125.8
27.5°	8932.9	7784.9	6152.6	5076.1	4822.9	4825.7	4864.2	4853.2	4828.5	4811.9
30°	9527.5	7831.8	5756.1	4710.0	4544.9	4533.9	4544.9	4498.1	4423.8	4418.3
32.5°	10135.9	7774.1	5296.5	4385.2	4250.4	4225.6	4217.3	4151.3	4066.0	4041.2
35°	10686.4	7562.1	4828.5	4126.5	3969.6	3914.5	3953.1	3931.0	3853.9	3834.7
37.5°	11088.4	7168.4	4407.3	3898.1	3768.6	3754.8	3779.6	3787.9	3697.0	3677.7
40°	11358.1	6634.3	4046.6	3705.3	3730.1	3677.7	3595.1	3537.4	3509.9	3501.5
42.5°	11575.6	6078.2	3743.9	3614.6	3738.3	3587.0	3408.1	3314.4	3364.0	3386.0
45°	11826.1	5535.9	3490.7	3501.5	3697.0	3482.3	3278.7	3187.7	3207.1	3212.5
47.5°	12170.3	4875.2	3218.0	3320.0	3559.4	3410.7	3198.8	3069.4	2978.5	2937.2
50°	12646.4	4093.4	2934.4	3116.2	3424.5	3358.4	3074.9	2937.2	2769.4	2730.8
52.5°	12976.8	3364.0	2700.6	2945.5	3303.4	3253.8	2975.7	2796.8	2620.7	2587.7
55°	12797.9	2794.1	2496.8	2755.6	3143.7	3124.5	2893.1	2653.7	2516.1	2488.6
57.5°	11903.2	2433.5	2339.9	2576.7	2948.3	3014.4	2783.2	2532.6	2433.5	2414.2
60°	10196.5	2207.8	2240.8	2455.5	2788.7	2904.2	2673.0	2466.5	2400.4	2386.7
62.5°	7911.6	2056.4	2166.5	2367.4	2664.8	2827.2	2612.4	2458.3	2433.5	2417.1
65°	5668.1	1935.2	2086.7	2279.3	2551.9	2755.6	2590.4	2447.3	2452.8	2439.0
67.5°	3851.2	1827.9	1990.2	2180.3	2441.7	2692.2	2560.2	2408.7	2477.6	2461.1
70°	2695.0	1723.2	1877.4	2053.6	2304.2	2604.2	2505.1	2350.9	2345.4	2279.3
72.5°	2103.1	1585.7	1723.2	1877.4	2128.0	2480.3	2395.0	2221.6	2130.7	2061.8
73°	2006.8	1552.6	1684.8	1838.9	2089.4	2450.0	2364.7	2185.7	2083.9	2020.5
75°	1659.9	1409.5	1530.6	1668.2	1924.3	2306.9	2216.0	2023.4	1893.9	1855.4
77.5°	1304.9	1205.7	1321.4	1445.3	1695.7	2097.7	1995.8	1811.4	1739.7	1706.7
80°	966.3	999.2	1101.2	1211.2	1470.0	1874.7	1783.8	1599.4	1918.7	1838.9
82.5°	679.9	757.0	850.6	949.7	1233.3	1657.3	1547.1	1357.1	1404.0	1167.2
85°	402.0	495.5	583.6	668.8	889.2	1373.6	1277.4	1081.8	886.4	845.1
87.5°	234.1	275.4	300.0	388.2	611.1	1035.0	900.2	801.1	459.8	311.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)