

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: P192973

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-SL4-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18014.7 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 162
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

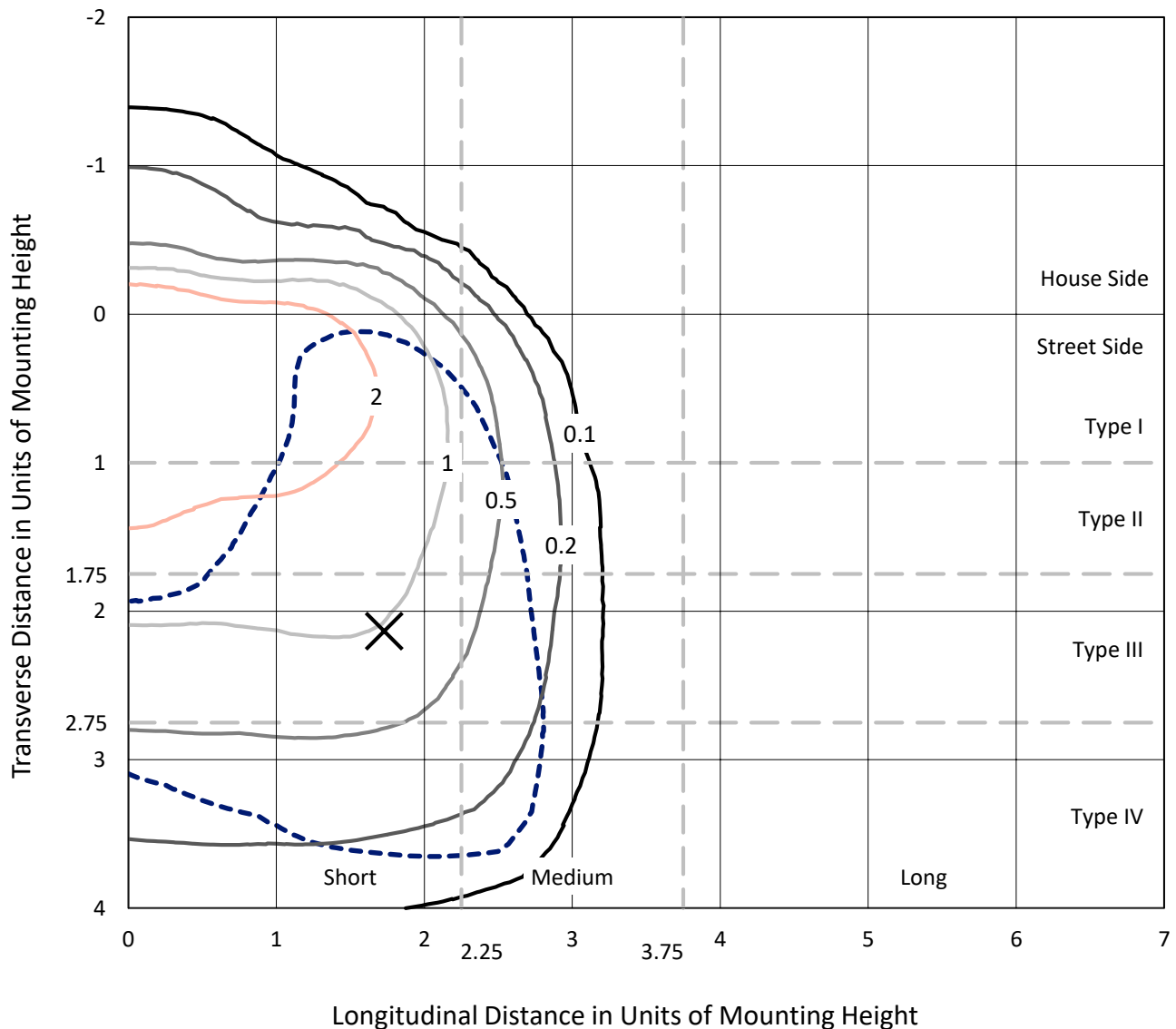


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

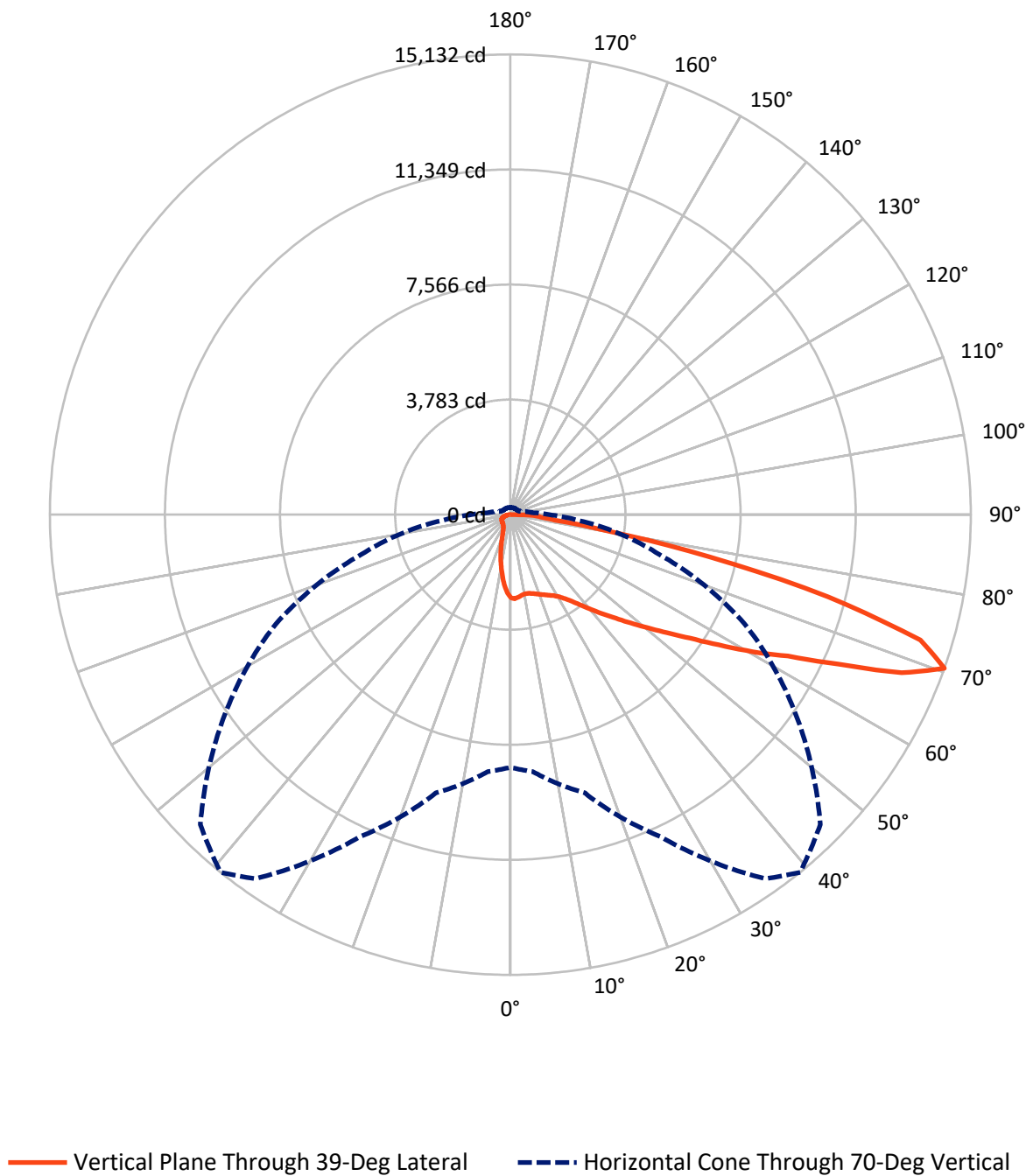


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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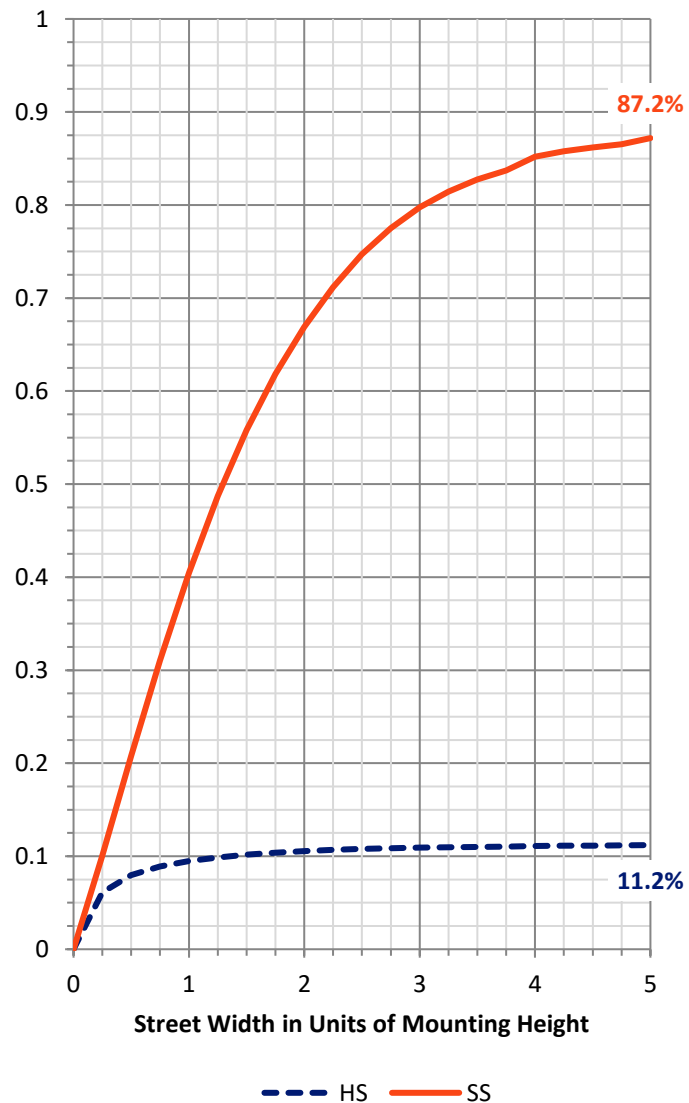
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2048.9	0.0	2048.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	15965.8	0.0	15965.8
	% Fixture	88.6	0.0	88.6
Total	Lumens	18014.7	0.0	18014.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	1.3
10°-20°	586.7	3.3
20°-30°	913.5	5.1
30°-40°	1423.0	7.9
40°-50°	2389.0	13.3
50°-60°	3795.2	21.1
60°-70°	5062.3	28.1
70°-80°	3057.0	17.0
80°-90°	553.3	3.1
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°	18014.7	100.0
0°-180°	18014.7	100.0

Coefficient of Utilization



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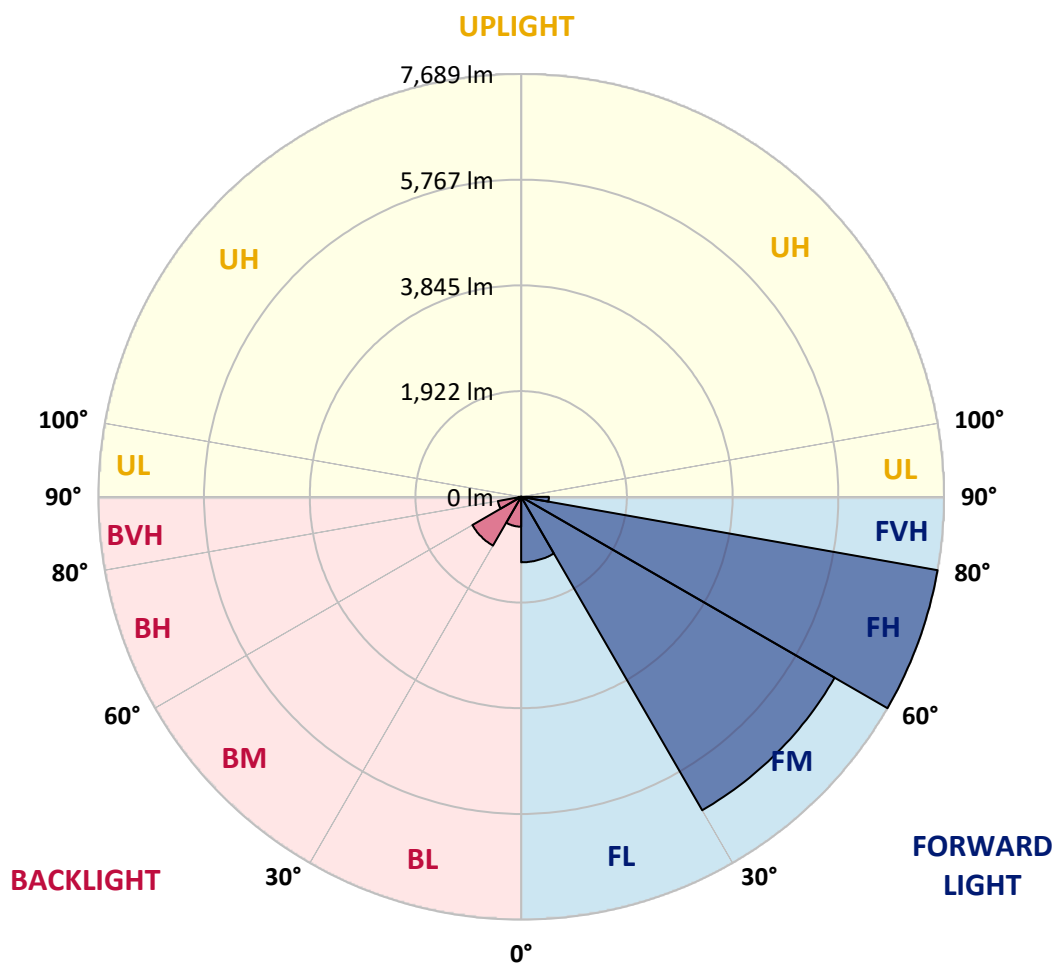
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.3	6.6			
FM	(30°-60°)	6581.9	36.5			
FH	(60°-80°)	7689.2	42.7			G4/12000
FVH	(80°-90°)	503.4	2.8			G4/750
BL	(0°-30°)	543.5	3.0	B2/1000		
BM	(30°-60°)	1025.3	5.7	B2/2500		
BH	(60°-80°)	430.1	2.4	B1/500		G1/500
BVH	(80°-90°)	49.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9
2.5°	2788.1	2787.1	2779.8	2774.3	2769.7	2767.9	2771.6	2757.8	2745.9	2731.3	2715.6
5°	2767.0	2766.0	2754.1	2743.2	2732.1	2728.5	2727.5	2702.8	2688.3	2666.3	2636.9
7.5°	2744.0	2739.4	2724.0	2705.6	2686.3	2677.2	2668.0	2636.0	2619.5	2597.5	2563.7
10°	2720.2	2714.8	2700.2	2681.8	2663.4	2649.7	2634.1	2603.0	2585.6	2569.1	2529.8
12.5°	2695.5	2690.9	2687.2	2679.0	2666.3	2654.4	2642.4	2615.8	2597.5	2578.3	2532.5
15°	2691.8	2690.1	2698.2	2703.7	2696.4	2689.1	2676.3	2653.4	2634.1	2614.9	2555.3
17.5°	2721.2	2720.2	2741.4	2755.9	2752.3	2739.4	2722.0	2696.4	2680.9	2664.4	2590.2
20°	2785.2	2789.8	2815.5	2834.7	2816.3	2798.1	2769.7	2734.0	2725.8	2718.4	2625.9
22.5°	2906.2	2910.7	2929.1	2936.5	2888.9	2862.3	2822.8	2777.1	2771.6	2777.1	2668.9
25°	3094.9	3090.3	3087.5	3060.1	2973.1	2931.9	2881.5	2833.8	2836.6	2861.3	2729.4
27.5°	3344.9	3320.2	3281.7	3199.2	3061.0	3015.2	2953.9	2909.8	2927.3	2974.9	2820.1
30°	3604.1	3576.6	3487.8	3353.1	3176.3	3126.0	3057.3	3007.8	3053.7	3128.7	2940.9
32.5°	3844.1	3840.4	3710.3	3537.3	3335.8	3291.8	3223.0	3167.2	3241.4	3355.9	3122.3
35°	4106.1	4114.2	3958.6	3750.7	3551.0	3505.1	3455.8	3413.6	3512.4	3670.0	3385.2
37.5°	4386.3	4402.8	4218.7	3984.2	3796.4	3777.2	3747.9	3729.6	3882.5	4100.5	3752.5
40°	4760.9	4744.4	4488.9	4248.0	4097.8	4096.9	4087.7	4109.7	4364.4	4662.8	4224.2
42.5°	5162.1	5113.6	4775.5	4531.0	4428.4	4459.5	4477.9	4567.7	4944.1	5346.2	4799.3
45°	5594.4	5485.4	5073.2	4830.5	4795.7	4861.6	4923.9	5119.1	5626.5	6123.8	5429.5
47.5°	5939.7	5834.3	5381.0	5144.7	5220.7	5320.5	5440.4	5749.1	6390.2	6927.0	6051.5
50°	6211.7	6143.0	5691.5	5511.0	5688.7	5842.6	6038.5	6462.6	7185.3	7709.3	6627.5
52.5°	6475.5	6424.2	6004.7	5886.6	6238.2	6450.7	6717.3	7228.4	8000.5	8478.6	7112.0
55°	6713.7	6677.0	6341.7	6354.6	6884.9	7161.5	7496.8	8100.3	8888.9	9164.5	7522.4
57.5°	6982.0	6935.2	6726.4	6941.7	7715.7	8074.7	8510.6	9080.3	9722.3	9774.6	7834.7
60°	7252.2	7211.8	7153.2	7619.4	8770.8	9148.1	9561.2	10030.1	10567.8	10248.1	7816.4
62.5°	7486.7	7491.3	7594.7	8331.1	9804.0	10240.8	10744.5	11208.1	11332.6	10330.6	7238.4
65°	7884.1	7956.5	8265.1	9338.6	11258.4	11842.7	12460.9	12386.7	11544.2	9560.3	5999.2
67.5°	8356.8	8484.1	9109.6	10681.3	13096.6	13872.3	14111.4	12653.4	10696.9	7771.5	4276.4
70°	8309.1	8484.1	9474.2	11682.4	14611.5	15131.8	14406.4	11451.6	8494.2	5076.8	2271.5
72.5°	7378.6	7628.6	8731.4	11223.5	14134.4	14088.6	12506.8	8537.2	5046.6	2038.8	887.5
75°	5623.7	5876.5	6825.3	8866.9	11171.3	10786.6	8874.2	4716.0	1915.2	809.6	559.6
77.5°	3234.9	3431.0	4163.8	5437.8	7087.3	6692.5	4939.5	2097.4	932.4	564.3	436.9
80°	1806.2	1915.2	2360.3	2758.7	3473.2	3183.7	2210.1	1303.4	696.1	409.4	337.1
82.5°	1427.9	1525.0	1908.8	1740.3	1586.3	1463.6	1269.5	1160.5	555.9	258.3	201.5
85°	1247.5	1339.9	1615.6	1370.2	1083.6	993.7	1031.3	1142.1	432.3	155.7	172.2
87.5°	1155.9	1279.5	1439.8	1056.0	843.6	747.4	951.6	1252.0	139.2	97.1	69.6
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°	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9	2734.9
2.5°	2702.0	2687.2	2663.4	2642.4	2609.4	2592.0	2572.8	2559.1	2548.0	2538.8	2553.6
5°	2618.6	2591.1	2540.8	2486.7	2422.6	2372.2	2330.1	2290.7	2263.2	2244.8	2257.8
7.5°	2539.8	2494.9	2416.2	2318.2	2208.2	2114.8	2037.9	1970.2	1923.4	1893.1	1905.1
10°	2494.9	2439.1	2317.3	2163.4	2001.3	1855.7	1734.7	1630.3	1557.9	1516.7	1523.2
12.5°	2483.9	2411.6	2243.1	2031.4	1809.9	1607.4	1437.1	1292.3	1190.7	1137.6	1139.3
15°	2492.2	2399.7	2173.5	1905.1	1624.8	1369.2	1156.8	980.9	862.8	802.3	801.4
17.5°	2506.0	2390.5	2100.2	1768.6	1437.1	1140.3	903.1	731.0	626.5	578.0	574.2
20°	2520.6	2375.9	2017.8	1621.2	1242.0	927.8	707.1	572.4	506.5	479.9	478.1
22.5°	2541.7	2363.1	1932.6	1465.5	1050.5	755.6	581.6	490.9	456.1	442.4	440.6
25°	2575.6	2356.6	1841.9	1303.4	878.3	631.9	506.5	450.5	430.5	421.3	420.4
27.5°	2632.3	2365.8	1756.7	1145.8	738.3	548.6	464.4	430.5	415.8	407.5	406.7
30°	2705.6	2394.2	1667.0	996.6	629.3	491.8	438.6	416.8	404.8	396.6	396.6
32.5°	2827.4	2441.8	1572.6	867.4	551.4	452.5	419.4	404.8	394.8	388.3	387.5
35°	3007.0	2531.5	1484.8	760.2	495.5	424.0	402.9	392.0	384.7	381.0	381.0
37.5°	3268.0	2673.6	1406.8	683.3	461.6	404.8	387.5	379.2	374.6	374.6	374.6
40°	3618.7	2869.5	1343.7	631.9	442.4	391.0	375.6	369.1	366.3	367.3	367.3
42.5°	4052.0	3124.2	1301.5	596.2	433.2	382.9	367.3	361.7	359.0	358.2	359.0
45°	4545.6	3413.6	1296.9	569.7	424.0	377.4	361.7	356.3	350.8	347.1	347.1
47.5°	5025.6	3707.6	1334.5	560.5	414.0	370.9	357.2	351.7	343.5	335.2	335.2
50°	5449.7	3957.7	1384.9	564.3	410.4	361.7	349.8	347.1	334.4	325.1	324.3
52.5°	5786.7	4150.0	1426.1	575.1	414.0	355.4	340.7	341.7	327.9	317.8	316.9
55°	6056.9	4276.4	1415.1	586.1	422.3	351.7	332.4	334.4	323.3	313.2	313.2
57.5°	6175.2	4229.7	1293.3	577.0	428.7	352.6	326.0	333.3	324.3	315.1	315.1
60°	5921.3	3814.8	1065.2	536.7	420.4	349.8	323.3	337.1	336.2	327.0	326.0
62.5°	5153.9	3072.0	826.1	477.1	392.0	336.2	316.0	336.2	346.3	343.5	342.5
65°	3972.3	2188.1	631.1	413.1	353.6	313.2	296.7	315.1	328.8	332.4	331.6
67.5°	2578.3	1340.9	486.3	352.6	310.6	286.7	272.0	280.2	283.0	283.0	281.3
70°	1267.6	721.7	387.5	296.7	266.5	258.3	250.1	245.5	240.9	237.2	237.2
72.5°	625.6	471.7	318.7	251.0	229.9	226.2	224.4	218.9	215.2	210.7	208.8
75°	462.5	383.7	271.1	211.5	197.9	194.2	197.9	193.3	192.3	188.7	186.9
77.5°	380.1	327.0	233.6	181.4	169.5	163.1	168.5	169.5	170.3	164.9	163.1
80°	308.6	276.7	195.1	150.2	139.2	134.6	138.3	145.7	147.5	139.2	135.6
82.5°	222.6	226.2	157.6	117.2	108.0	104.5	111.8	121.0	122.7	110.8	108.0
85°	186.9	188.7	121.0	83.4	74.2	68.8	80.7	89.8	96.1	84.2	81.5
87.5°	77.9	110.8	69.6	46.8	41.2	35.7	43.0	47.6	57.7	53.1	52.2
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)