

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: P193231

Luminaire Tested: **GLEON-AF-03-LED-E1-T3R-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T3R-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17969.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 166
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



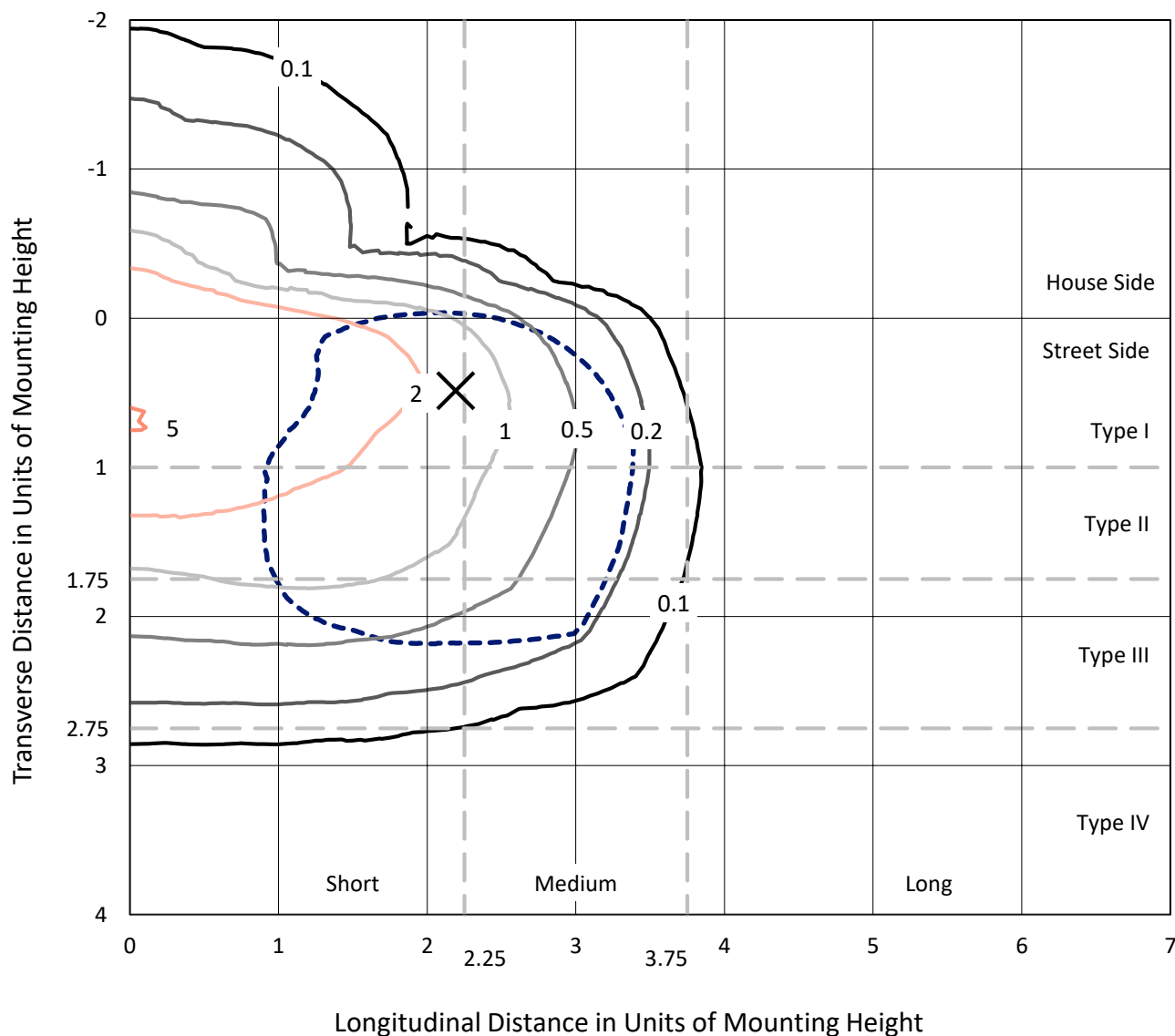
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

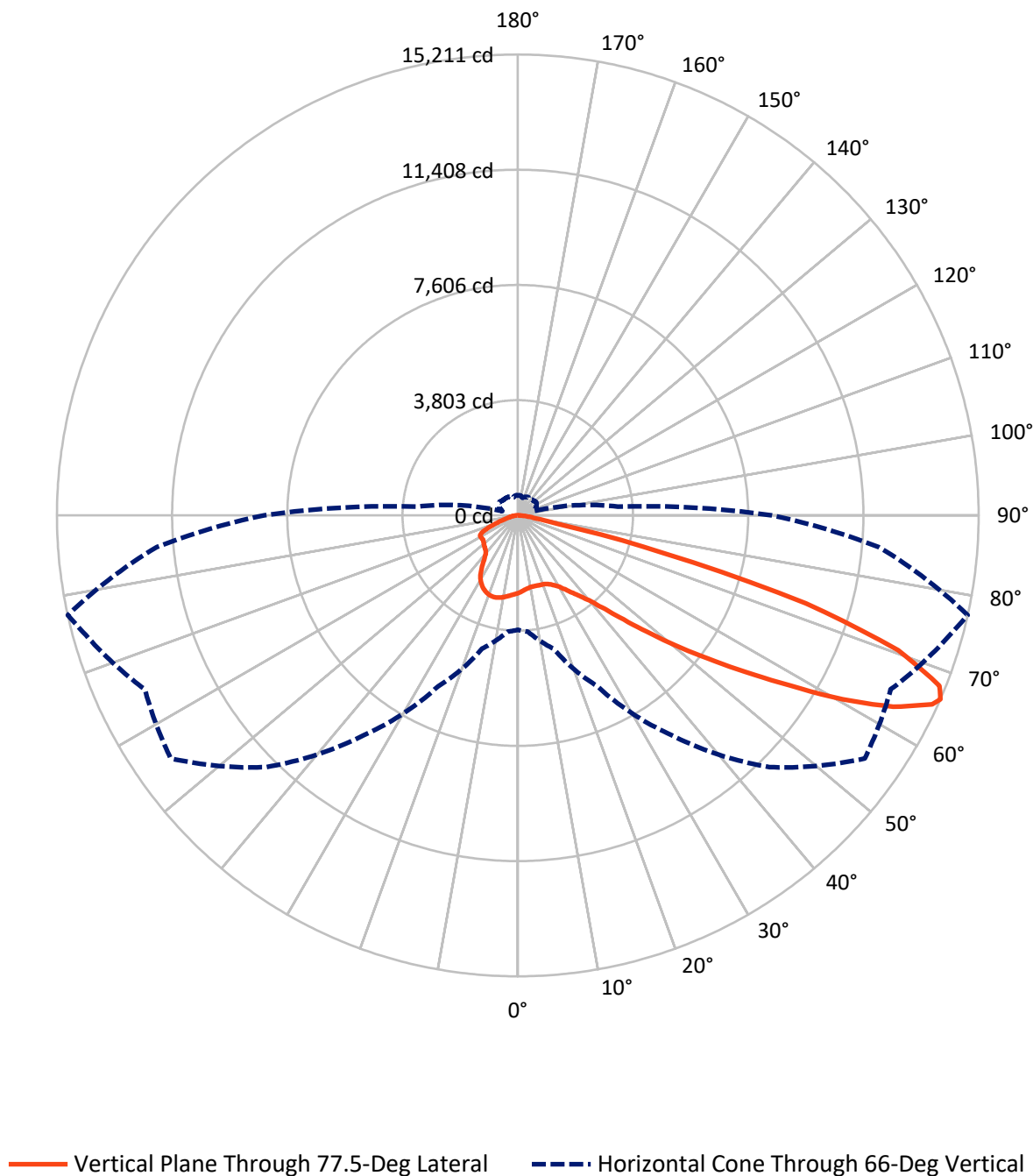


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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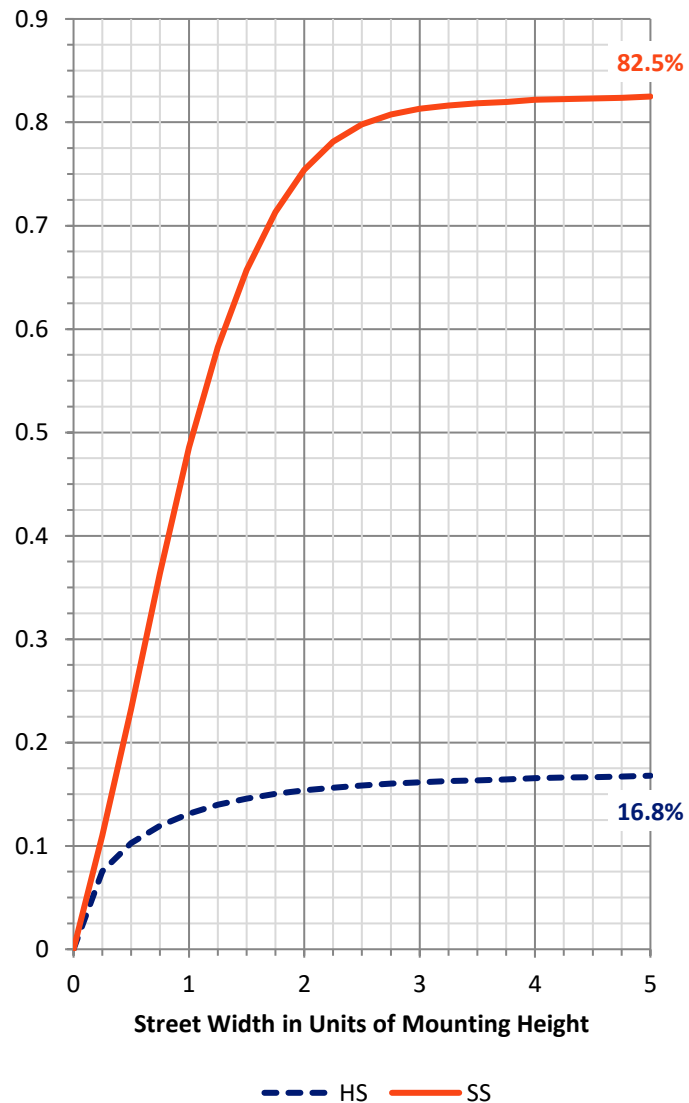
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3070.0	0.0	3070.0
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	14899.8	0.0	14899.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	17969.9	0.0	17969.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.8	1.3
10°-20°	645.4	3.6
20°-30°	1101.5	6.1
30°-40°	1763.4	9.8
40°-50°	2724.3	15.2
50°-60°	3863.9	21.5
60°-70°	5168.9	28.8
70°-80°	2244.8	12.5
80°-90°	228.9	1.3
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°	17969.9	100.0
0°-180°	17969.9	100.0

Coefficient of Utilization



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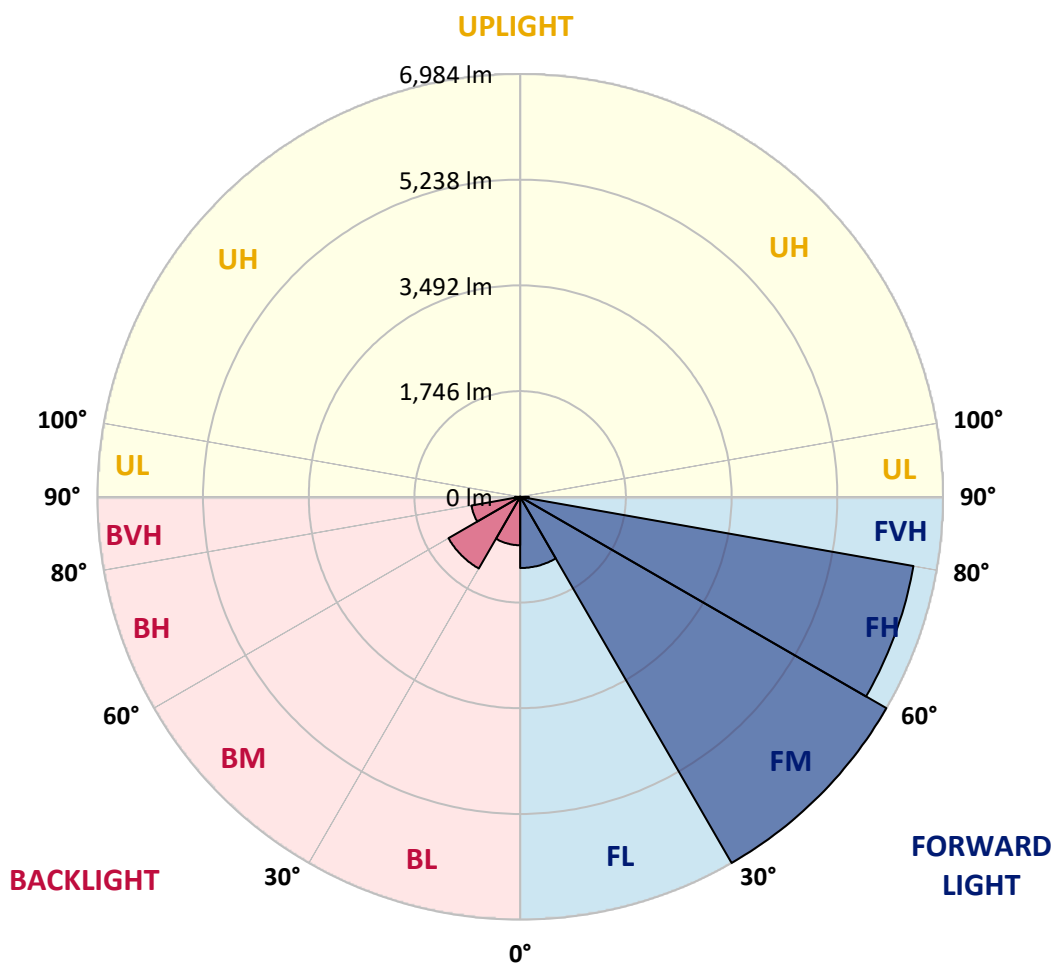
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1176.2	6.5			
FM	(30°-60°)	6984.0	38.9			
FH	(60°-80°)	6596.0	36.7			G3/7500
FVH	(80°-90°)	143.6	0.8			G2/225
BL	(0°-30°)	799.6	4.4	B2/1000		
BM	(30°-60°)	1367.5	7.6	B2/2500		
BH	(60°-80°)	817.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	85.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8
2.5°	2265.3	2280.6	2293.4	2305.3	2329.0	2368.0	2413.1	2449.6	2502.2	2512.4	2540.4
5°	2057.3	2057.3	2067.5	2085.3	2117.6	2176.1	2237.3	2318.8	2433.4	2460.6	2535.4
7.5°	1956.3	1957.1	1963.1	1978.3	2006.3	2059.9	2127.0	2222.9	2378.2	2423.3	2550.6
10°	1993.7	1985.1	1972.3	1964.7	1969.0	2000.4	2064.1	2171.1	2344.2	2402.1	2584.5
12.5°	2202.4	2186.4	2142.2	2083.6	2027.6	2004.7	2042.0	2146.4	2329.9	2396.9	2629.6
15°	2543.8	2537.0	2454.6	2333.2	2197.4	2083.6	2058.1	2137.1	2331.6	2402.8	2683.1
17.5°	2971.8	2962.4	2853.8	2677.1	2455.5	2234.0	2115.0	2144.8	2337.5	2413.1	2734.9
20°	3403.9	3375.0	3257.9	3047.3	2762.8	2438.5	2209.3	2164.3	2345.1	2424.1	2789.2
22.5°	3726.7	3702.8	3597.5	3392.8	3065.2	2675.4	2335.8	2198.2	2369.8	2456.3	2856.2
25°	4010.2	4011.9	3907.4	3709.6	3370.7	2926.7	2498.8	2289.1	2432.5	2522.6	2948.0
27.5°	4360.9	4340.5	4242.7	4046.6	3673.1	3180.6	2695.8	2413.9	2526.0	2616.9	3068.5
30°	4780.3	4765.8	4653.0	4430.5	4008.5	3453.1	2920.8	2559.1	2646.6	2740.8	3226.4
32.5°	5273.6	5266.8	5149.6	4863.4	4395.6	3774.2	3184.9	2750.9	2826.5	2924.3	3453.1
35°	5852.6	5853.4	5715.2	5371.1	4819.3	4147.7	3484.6	2998.1	3045.6	3147.5	3723.1
37.5°	6209.2	6252.6	6200.8	5850.1	5299.1	4565.4	3873.5	3325.9	3295.3	3398.0	4012.6
40°	6285.6	6338.3	6502.1	6323.8	5835.6	5025.6	4218.2	3640.8	3602.6	3728.3	4385.4
42.5°	6178.7	6251.7	6598.1	6723.9	6405.4	5592.8	4681.8	4108.7	4060.3	4229.2	4849.0
45°	6115.0	6169.4	6570.1	6931.9	6899.5	6233.9	5271.9	4696.2	4678.4	4899.9	5384.0
47.5°	6004.6	6053.8	6439.3	6980.2	7190.0	6821.4	5980.9	5414.6	5449.3	5739.7	5987.6
50°	6064.0	6084.4	6293.4	6857.1	7273.9	7251.9	6773.0	6246.6	6365.5	6728.0	6671.2
52.5°	6055.5	6108.2	6276.3	6655.0	7285.0	7517.7	7553.3	7174.6	7425.2	7841.1	7429.3
55°	4895.7	4992.5	6076.8	6604.0	7324.0	7778.2	8247.9	8152.7	8619.8	9104.6	8285.2
57.5°	4674.9	4736.1	5337.2	6711.0	7531.2	8275.9	9020.6	9229.3	10010.6	10573.4	9327.9
60°	4631.7	4707.2	5329.5	6841.9	7951.6	9086.8	10165.9	10532.7	11702.8	12319.1	10537.0
62.5°	4496.7	4578.2	5279.5	6824.8	8548.5	10208.3	11632.3	11918.3	13307.4	13906.8	11548.1
65°	4068.7	4145.2	4871.1	6550.5	8950.8	11405.6	13367.8	13188.5	14574.3	15025.2	12052.5
66°	3775.8	3850.6	4549.3	6227.9	8857.5	11745.2	13982.5	13581.7	14857.8	15211.1	11954.0
67.5°	3240.1	3298.6	3924.4	5505.3	8360.7	11840.3	14499.6	13877.2	14887.5	15012.4	11391.2
70°	2047.1	2064.1	2550.6	3800.5	6329.0	10268.6	13712.5	13143.6	13659.8	13321.9	9549.5
72.5°	888.2	882.2	1224.4	1933.4	3583.0	6890.2	11092.2	10845.2	10715.3	9944.3	6684.7
75°	494.2	501.0	636.0	897.4	1456.2	3384.5	7256.1	6943.7	5862.9	5002.8	3031.2
77.5°	396.5	405.9	527.2	636.8	653.8	1180.2	3395.4	2762.8	1663.4	1334.7	842.3
80°	313.3	330.3	460.2	495.8	440.7	486.5	1097.0	877.2	658.1	603.6	436.4
82.5°	247.9	259.8	394.9	375.3	308.2	327.8	525.5	512.0	428.0	389.7	252.2
85°	178.3	200.4	324.4	282.8	202.1	220.7	349.0	334.6	245.4	200.4	111.2
87.5°	72.9	95.0	229.2	187.6	113.0	102.7	174.0	163.9	116.4	84.9	55.1
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°	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8	2560.8
2.5°	2558.2	2578.6	2605.0	2621.1	2629.6	2635.6	2644.8	2644.0	2646.6	2647.4	2650.7
5°	2575.2	2609.2	2647.4	2657.6	2657.6	2648.2	2638.9	2623.7	2617.7	2616.0	2617.7
7.5°	2619.4	2656.7	2689.9	2678.0	2652.5	2615.1	2566.7	2524.3	2501.4	2493.8	2491.9
10°	2675.4	2720.4	2734.0	2689.0	2614.2	2524.3	2428.3	2358.7	2318.8	2307.8	2304.4
12.5°	2743.4	2785.8	2767.1	2672.1	2533.6	2388.4	2255.9	2144.8	2061.5	2035.2	2033.6
15°	2818.1	2851.1	2785.8	2619.4	2413.1	2199.1	1963.1	1771.2	1667.7	1634.4	1631.9
17.5°	2887.7	2904.6	2774.7	2527.7	2235.6	1889.2	1575.8	1428.1	1392.5	1400.9	1402.7
20°	2947.2	2947.2	2737.4	2396.0	1956.3	1480.8	1282.9	1280.4	1305.8	1331.4	1336.5
22.5°	3012.5	2973.5	2672.1	2210.1	1560.5	1211.5	1182.7	1206.5	1235.4	1263.4	1267.6
25°	3093.1	2994.7	2581.1	1928.2	1226.9	1100.4	1111.3	1131.0	1145.4	1163.2	1165.8
27.5°	3183.2	3021.8	2461.5	1540.2	1064.7	1030.8	1039.3	1046.0	1044.4	1051.2	1052.8
30°	3291.0	3053.2	2297.6	1203.9	997.6	971.4	956.0	950.1	950.1	961.2	965.5
32.5°	3435.3	3099.9	2062.4	1031.6	965.5	928.9	879.6	857.5	866.1	903.3	911.9
35°	3594.1	3150.1	1744.0	973.1	958.6	909.4	832.9	792.1	793.0	827.8	838.9
37.5°	3767.4	3213.8	1395.0	962.0	973.8	910.2	808.3	752.2	729.3	729.3	733.5
40°	3988.9	3279.1	1129.3	969.6	1006.2	920.4	795.6	720.9	656.3	658.1	661.4
42.5°	4277.6	3335.1	986.6	985.7	1045.2	933.9	794.8	679.3	623.3	661.4	696.2
45°	4598.5	3363.1	923.8	1000.2	1076.6	942.5	781.1	672.5	627.4	741.3	807.4
47.5°	4967.9	3347.0	889.0	1005.3	1084.3	942.5	765.9	688.6	657.2	858.4	935.7
50°	5373.0	3300.2	855.1	995.2	1081.6	940.7	780.3	704.7	668.2	878.8	932.3
52.5°	5849.2	3261.3	819.3	973.1	1063.8	931.4	797.3	697.9	633.3	799.0	836.4
55°	6392.6	3272.4	779.4	941.6	1035.9	913.6	791.4	670.8	596.9	703.8	726.8
57.5°	7087.2	3403.9	731.9	901.7	997.6	883.9	770.1	658.1	585.8	638.5	652.1
60°	7862.4	3633.2	672.5	861.8	950.1	836.4	754.0	664.0	591.0	633.3	640.1
62.5°	8431.2	3766.5	621.4	803.2	885.5	783.7	733.5	671.6	604.5	651.1	649.5
65°	8585.8	3547.4	557.9	717.5	798.1	728.5	708.1	680.1	610.4	665.7	658.1
66°	8369.3	3311.3	529.8	677.5	754.0	701.3	695.4	679.3	607.9	667.3	654.7
67.5°	7843.7	2827.4	481.4	619.0	683.5	660.6	675.0	671.6	601.2	665.7	647.8
70°	6396.9	1929.1	411.8	515.3	568.9	581.6	636.0	644.4	579.1	636.0	596.9
72.5°	4469.5	1175.1	364.3	399.9	460.2	495.8	582.5	607.1	549.3	555.2	517.9
75°	2160.0	624.1	330.3	309.9	357.5	414.3	517.9	556.1	502.7	464.5	450.8
77.5°	673.4	381.2	280.1	249.6	280.1	334.6	433.0	487.4	447.4	388.9	383.8
80°	361.7	280.1	215.7	200.4	221.6	262.3	340.5	406.7	384.6	349.0	311.6
82.5°	238.6	181.7	159.6	155.3	169.0	200.4	253.1	337.1	337.1	298.9	217.3
85°	123.1	111.2	109.5	109.5	118.0	133.3	172.4	259.8	276.8	157.9	130.8
87.5°	61.1	63.7	59.4	62.0	66.2	65.3	82.4	130.8	156.2	95.9	79.8
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)