

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: P192910

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-02-LED-E1-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11780.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 113
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

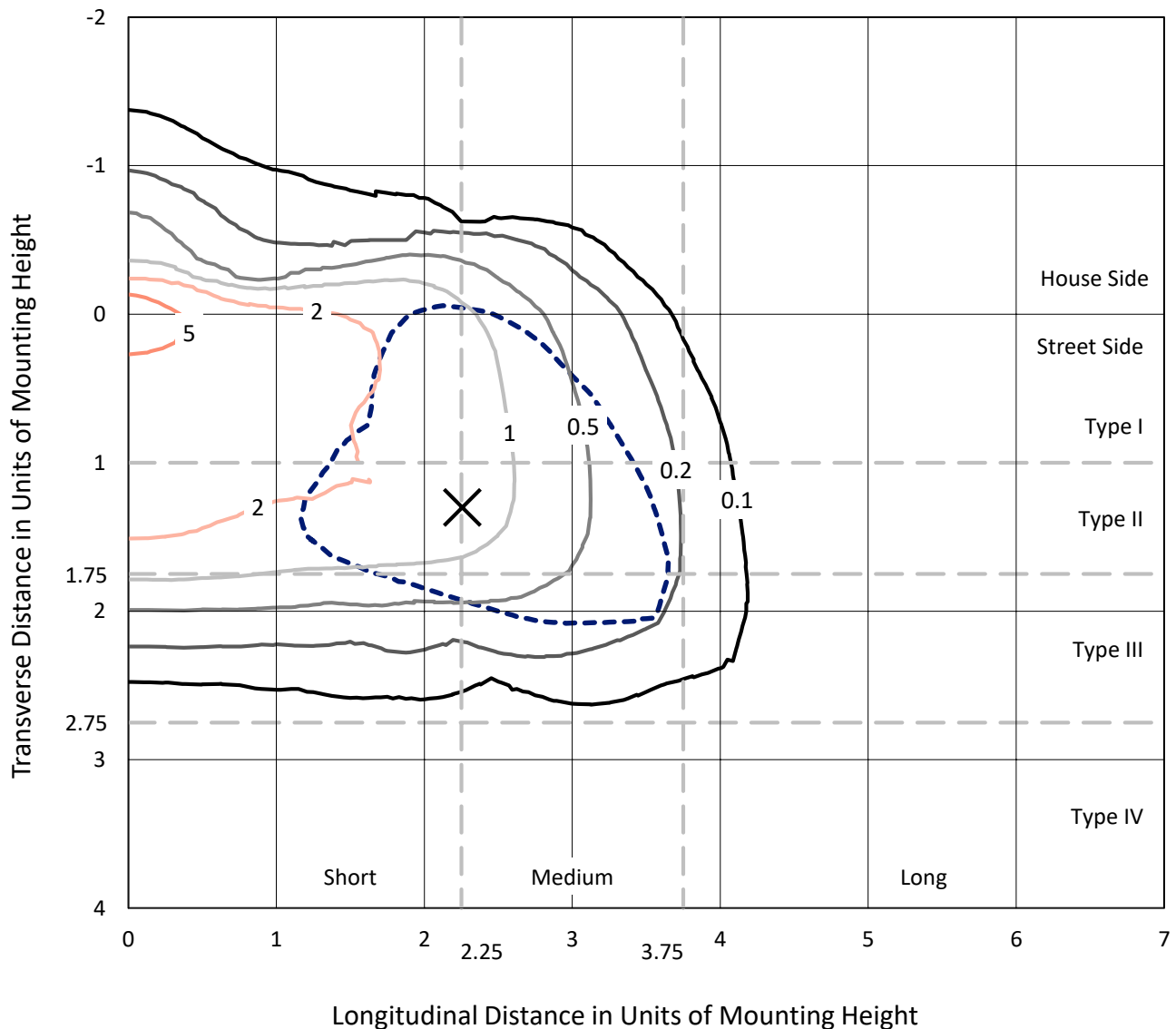


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

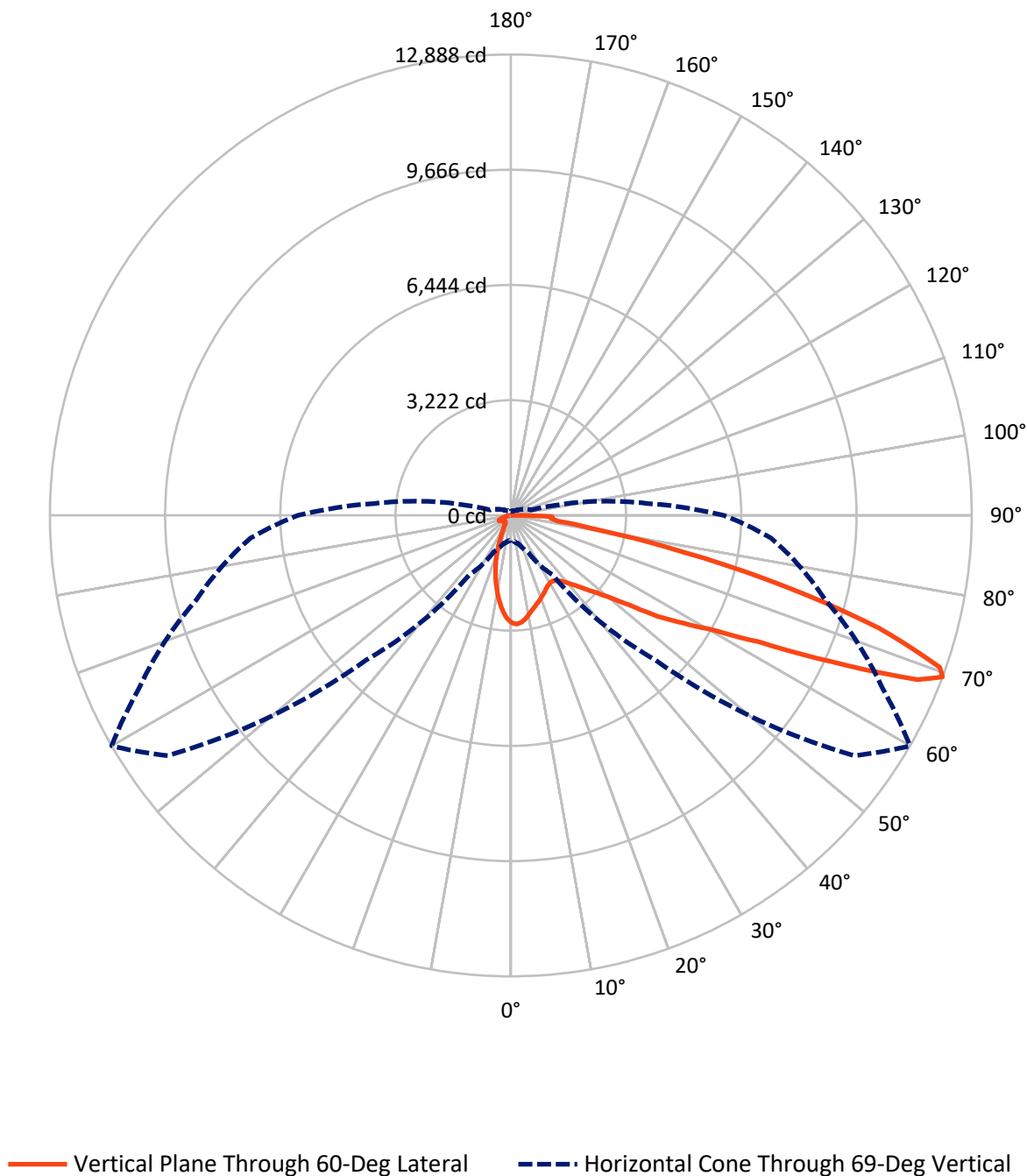


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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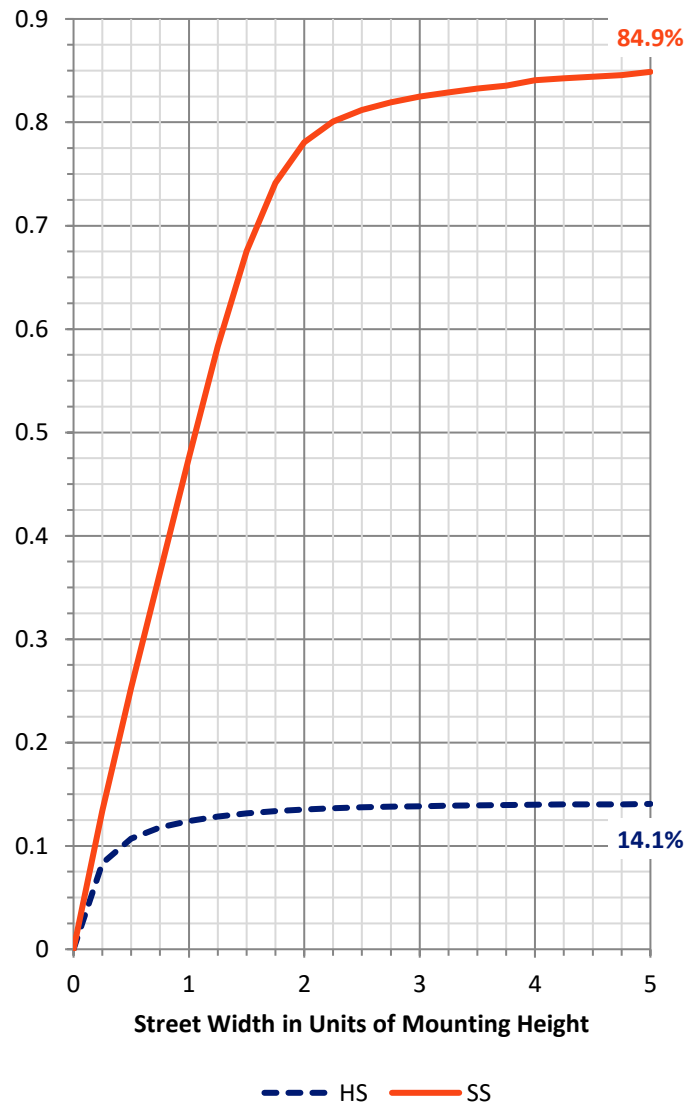
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.0	0.0	1676.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10104.4	0.0	10104.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	11780.3	0.0	11780.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.8	2.2
10°-20°	540.8	4.6
20°-30°	689.0	5.8
30°-40°	947.2	8.0
40°-50°	1537.0	13.0
50°-60°	2464.9	20.9
60°-70°	3280.7	27.8
70°-80°	1771.3	15.0
80°-90°	295.6	2.5
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°	11780.3	100.0
0°-180°	11780.3	100.0

Coefficient of Utilization



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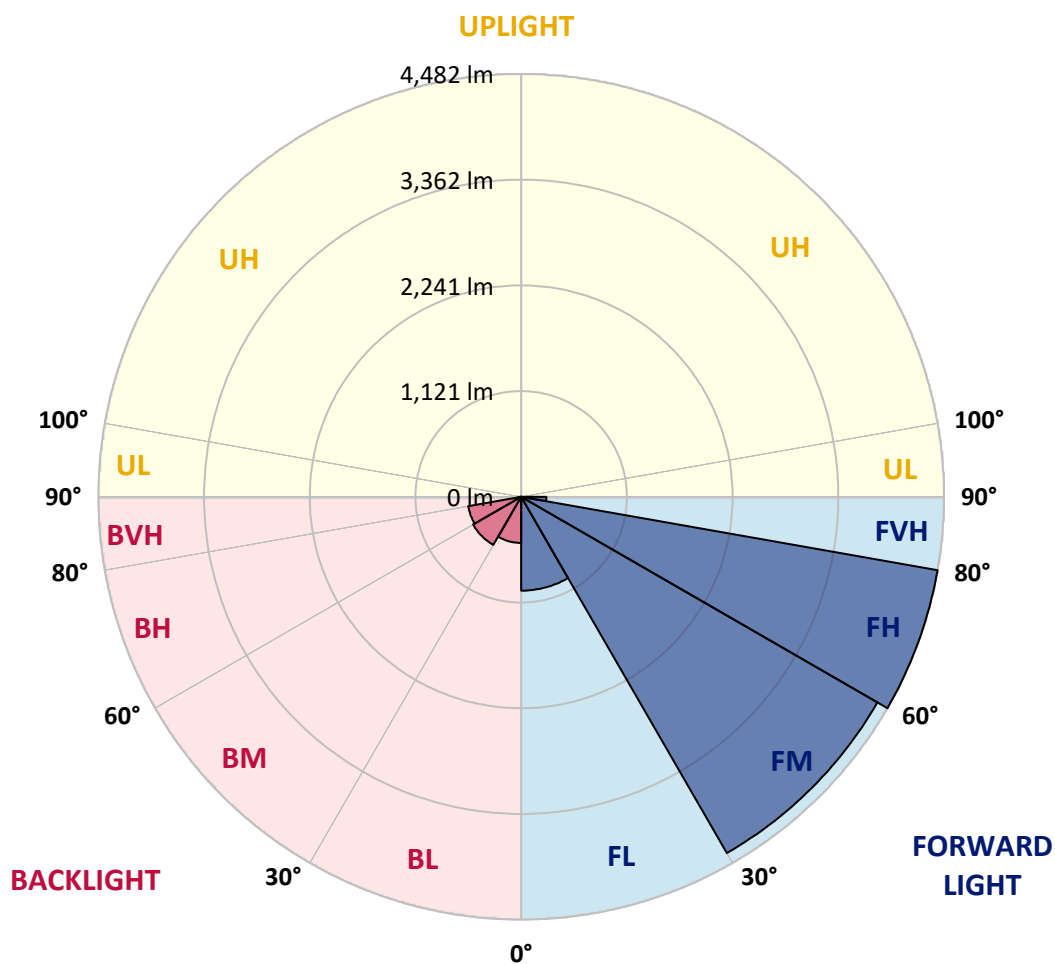
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	994.7	8.4			
FM	(30°-60°)	4360.4	37.0			
FH	(60°-80°)	4482.2	38.0			G2/5000
FVH	(80°-90°)	267.1	2.3			G3/500
BL	(0°-30°)	488.9	4.2	B1/500		
BM	(30°-60°)	588.8	5.0	B1/1000		
BH	(60°-80°)	569.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	28.5	0.2			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8
2.5°	3063.3	3070.0	3067.2	3065.6	3070.6	3062.6	3046.1	3041.1	3033.1	3014.4	2982.4
5°	2948.4	2968.8	2967.7	2983.0	3008.7	3015.4	3008.0	3009.2	2994.4	2971.1	2918.2
7.5°	2749.7	2758.2	2762.8	2796.4	2843.0	2880.6	2912.5	2922.6	2915.9	2895.9	2827.6
10°	2544.8	2551.6	2562.4	2601.8	2660.9	2712.7	2773.0	2807.8	2822.6	2819.1	2742.9
12.5°	2369.0	2375.9	2390.0	2434.4	2505.0	2568.8	2656.4	2699.7	2734.9	2755.9	2674.0
15°	2211.4	2226.1	2239.9	2291.0	2370.2	2453.9	2552.9	2607.5	2662.1	2709.3	2613.2
17.5°	2088.5	2103.2	2111.2	2157.9	2242.1	2344.6	2460.6	2525.0	2593.3	2670.7	2552.9
20°	2017.4	2024.1	2020.7	2047.0	2122.6	2231.3	2369.0	2443.6	2526.1	2634.2	2492.5
22.5°	1997.4	1998.1	1985.5	1982.6	2031.5	2123.1	2271.2	2361.6	2462.9	2610.3	2440.8
25°	2045.8	2044.0	2010.0	1982.1	1987.2	2040.6	2176.7	2282.0	2409.9	2605.2	2400.9
27.5°	2153.3	2158.4	2107.8	2055.5	2003.7	2001.9	2105.0	2215.9	2366.8	2628.4	2383.8
30°	2304.2	2312.7	2258.6	2192.1	2094.7	2014.5	2077.1	2176.7	2340.0	2676.9	2381.0
32.5°	2469.2	2478.2	2437.2	2367.3	2239.9	2091.9	2096.4	2180.0	2338.8	2744.6	2400.3
35°	2645.0	2655.2	2634.2	2575.0	2433.3	2234.7	2170.4	2235.2	2375.9	2848.2	2452.1
37.5°	2841.3	2857.2	2862.9	2806.7	2655.2	2423.1	2291.6	2340.0	2459.5	2992.2	2547.2
40°	3124.2	3146.3	3144.6	3063.8	2909.6	2677.4	2478.9	2491.3	2589.8	3184.5	2699.0
42.5°	3665.8	3670.4	3528.7	3352.9	3189.6	2944.9	2699.7	2689.4	2769.6	3428.0	2922.6
45°	4355.1	4336.3	4021.0	3681.3	3482.1	3252.2	2987.0	2936.9	2997.8	3725.0	3202.7
47.5°	4926.9	4883.7	4485.3	4016.5	3791.7	3586.2	3324.4	3236.8	3270.4	4061.9	3564.6
50°	5125.6	5093.1	4763.0	4295.3	4084.7	3993.7	3739.8	3615.8	3624.9	4463.7	3988.5
52.5°	5082.8	5078.4	4858.1	4479.1	4359.0	4421.6	4328.3	4160.4	4071.6	4909.9	4446.1
55°	4982.1	4991.8	4912.2	4693.0	4672.6	4834.7	5097.1	4973.1	4697.0	5360.0	4919.0
57.5°	4632.1	4657.1	4832.5	4962.2	5177.4	5418.6	5716.2	5680.9	5370.2	5846.6	5481.2
60°	3732.0	3789.9	4260.0	4909.9	5696.9	6451.4	6584.6	6502.7	6064.6	6450.3	6223.9
62.5°	2614.8	2675.2	3234.0	4250.9	5611.5	7618.1	8137.1	7783.6	7061.5	7339.8	7185.0
65°	1399.9	1428.9	1855.8	2949.5	4737.5	7858.8	10405.9	9868.1	8640.1	8436.4	8007.3
67.5°	772.3	788.2	951.4	1489.2	3034.2	6920.4	11851.4	12257.6	10613.0	9166.5	7857.6
69°	698.2	713.0	820.0	1127.9	2030.4	5721.9	11710.2	12887.5	11478.0	9094.2	7304.5
70°	682.9	696.5	792.6	1039.7	1643.5	4716.4	11237.4	12726.5	11683.9	8835.2	6821.9
72.5°	614.6	629.4	722.8	933.8	1404.4	2351.4	8901.3	10760.4	10607.9	7660.7	5174.5
75°	573.1	586.7	744.9	914.5	1344.7	1488.1	5868.2	7930.5	7797.9	5358.8	2790.2
77.5°	245.3	244.0	345.4	773.9	1364.6	1440.9	3153.2	4954.3	4520.0	2290.5	801.2
80°	163.9	161.0	163.9	227.6	1251.3	1448.9	1652.0	2514.7	1899.6	583.9	395.0
82.5°	141.2	138.9	144.0	138.9	439.9	1653.7	1404.4	1337.4	903.1	331.7	195.8
85°	95.0	91.0	124.0	124.7	207.7	1469.3	1582.0	1129.6	730.7	196.8	96.7
87.5°	45.6	44.4	72.2	88.2	121.9	597.0	1774.9	1157.5	737.0	100.7	46.1
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°	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8	3001.8
2.5°	2972.8	2949.5	2926.7	2899.4	2870.9	2839.1	2823.2	2807.2	2803.1	2798.6	2782.8
5°	2890.9	2857.7	2801.0	2738.4	2672.4	2608.0	2559.1	2528.4	2505.0	2493.1	2472.0
7.5°	2785.0	2736.6	2637.1	2529.0	2417.9	2316.7	2229.0	2173.8	2121.5	2097.0	2069.2
10°	2684.3	2612.0	2457.2	2297.8	2138.5	1985.5	1841.4	1739.6	1649.2	1598.5	1562.6
12.5°	2597.7	2498.8	2284.2	2068.5	1850.0	1632.2	1416.4	1246.8	1105.1	1030.6	992.4
15°	2513.5	2394.1	2119.7	1846.1	1565.4	1269.0	985.6	793.2	676.1	629.4	613.5
17.5°	2437.2	2284.2	1954.7	1621.9	1271.9	913.3	662.4	556.5	511.6	496.2	491.1
20°	2354.7	2173.2	1783.4	1387.4	965.8	638.5	517.3	470.6	452.5	447.9	445.6
22.5°	2275.1	2064.0	1619.5	1136.4	693.7	492.8	444.4	425.1	422.3	426.2	426.2
25°	2207.4	1966.1	1442.5	874.1	509.2	414.8	397.8	393.3	404.0	418.8	421.6
27.5°	2156.8	1886.0	1254.2	645.2	405.8	360.8	360.2	367.6	394.3	422.9	428.6
30°	2122.1	1809.7	1052.7	465.5	340.4	317.5	326.6	342.5	381.9	422.3	433.1
32.5°	2104.5	1753.3	842.8	360.2	291.4	278.8	294.2	313.6	352.3	389.8	404.0
35°	2118.1	1711.8	644.7	300.5	257.2	247.6	263.5	282.2	305.1	321.0	331.7
37.5°	2169.3	1695.2	486.5	269.3	234.0	224.7	237.3	248.1	257.2	261.7	266.9
40°	2279.7	1712.8	389.8	253.3	220.8	209.4	214.5	218.5	224.2	228.8	231.1
42.5°	2442.4	1765.8	349.4	246.9	213.9	197.4	196.3	198.1	205.4	213.9	215.7
45°	2670.1	1859.1	346.6	251.0	210.6	187.8	182.7	184.9	196.3	209.4	211.8
47.5°	2960.8	2001.4	369.3	262.9	213.4	182.7	174.2	177.0	191.2	208.8	211.8
50°	3313.1	2200.1	407.4	280.6	225.9	183.8	171.3	172.9	187.8	207.1	210.0
52.5°	3729.0	2481.8	448.9	297.6	239.1	191.2	173.6	169.6	183.2	200.3	203.8
55°	4191.7	2843.0	491.6	313.0	245.9	200.3	178.1	165.0	174.7	188.9	191.7
57.5°	4759.7	3348.4	565.6	327.8	250.4	206.6	182.7	160.5	163.9	174.2	176.5
60°	5528.4	4063.2	696.0	352.3	260.6	208.8	182.1	156.5	153.1	158.8	159.9
62.5°	6449.8	4839.3	804.7	383.0	277.7	210.6	178.6	153.6	144.0	144.0	145.1
65°	6996.6	5047.0	744.4	408.6	291.9	208.8	174.7	150.8	137.1	130.9	131.4
67.5°	6532.8	4438.6	638.0	413.6	291.4	200.9	168.5	145.7	130.3	120.6	120.0
69°	5951.8	3829.7	590.1	400.0	277.7	190.6	160.5	140.0	125.2	114.9	114.4
70°	5483.5	3458.2	558.9	385.2	262.9	183.2	154.2	134.8	121.2	111.6	110.4
72.5°	3986.9	2266.0	477.5	331.2	216.8	153.6	133.2	118.3	108.1	102.4	101.3
75°	1992.4	1080.7	387.6	268.6	166.2	122.9	109.3	99.0	93.9	92.8	92.3
77.5°	654.5	495.1	277.1	200.3	123.5	96.1	88.2	80.9	79.6	83.0	82.0
80°	359.7	287.9	175.8	132.6	84.2	70.6	69.4	65.4	67.2	72.8	71.7
82.5°	183.2	149.6	108.7	79.6	57.0	50.7	55.1	52.9	55.1	60.3	59.8
85°	90.4	82.0	68.9	48.4	37.5	32.4	39.3	41.0	42.1	46.1	46.1
87.5°	52.3	48.4	36.4	22.7	18.8	17.1	22.7	22.2	26.2	28.4	27.9
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)