

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: P193742

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-04-LED-E1-SL4-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12848 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 171  
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

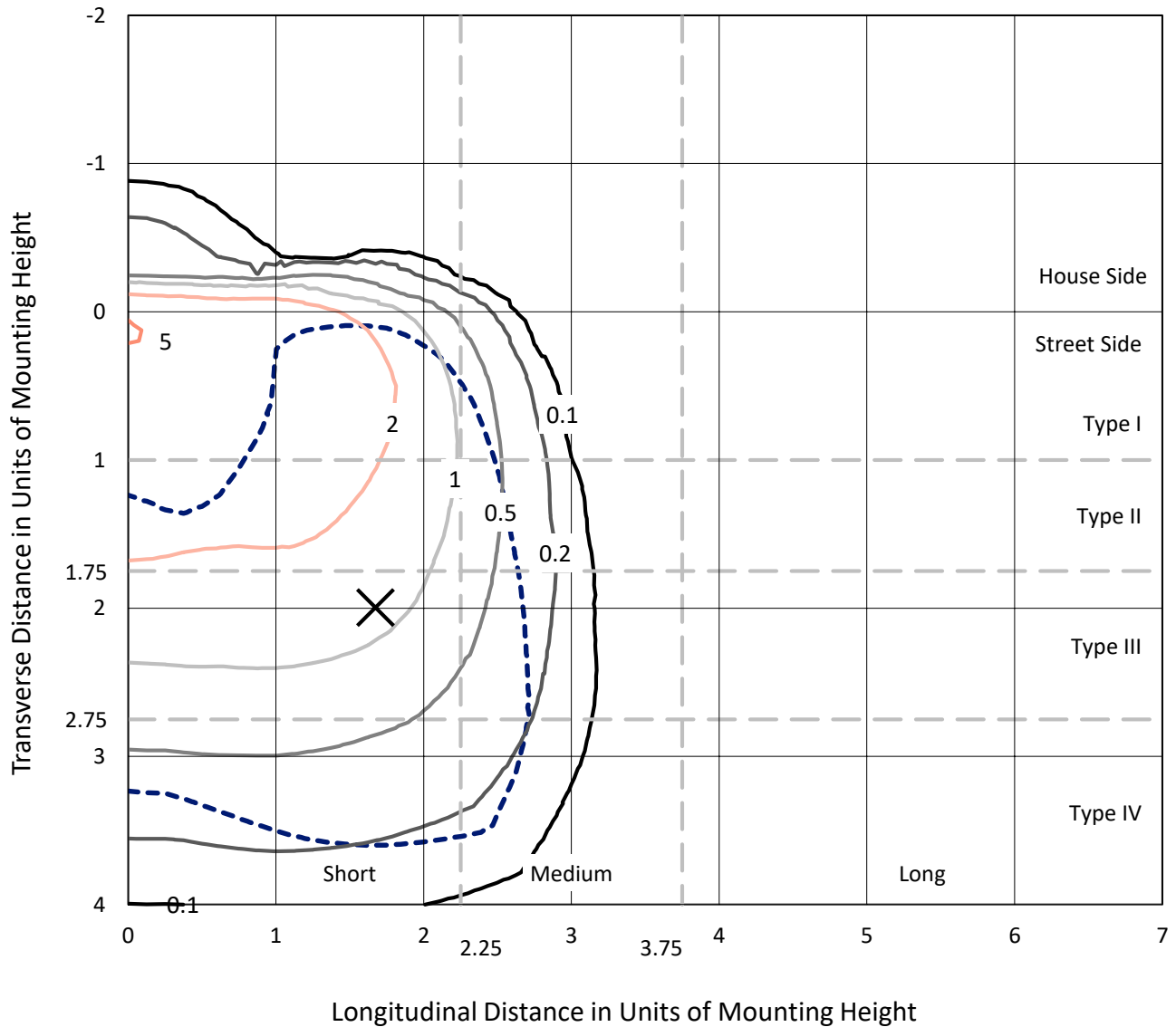


REPORT NUMBER: P193742

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL4-8030-800-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

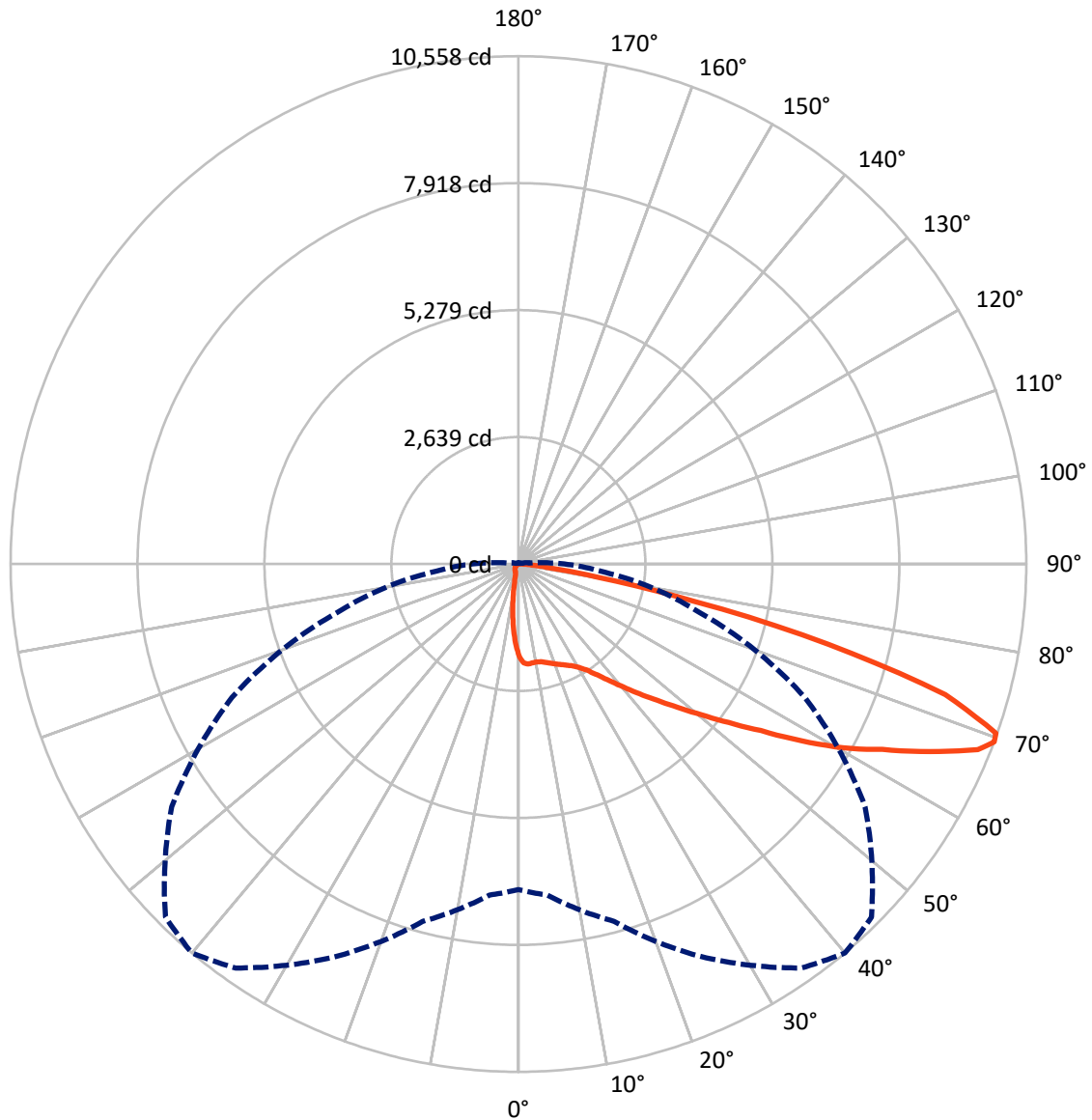


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P193742

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL4-8030-800-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P193742

CATALOG NUMBER: GLEON-AF-04-LED-E1-SL4-8030-800-HSS

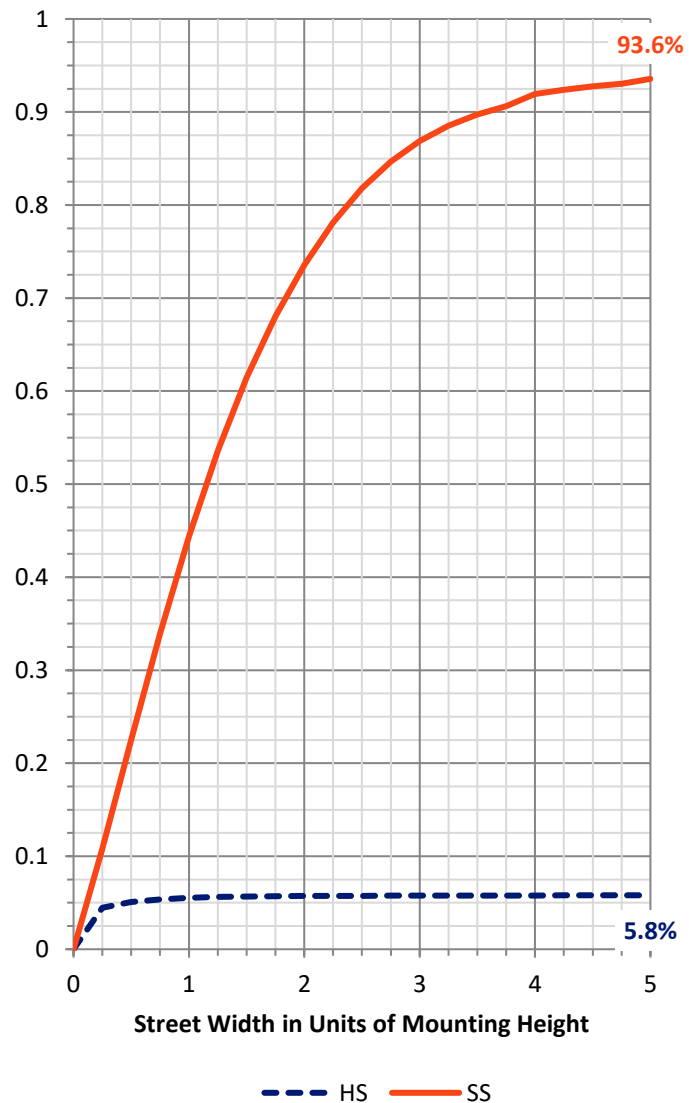
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	751.7	0.0	751.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	12096.3	0.0	12096.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	12848.0	0.0	12848.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	155.6	1.2
10°-20°	382.7	3.0
20°-30°	644.7	5.0
30°-40°	1055.3	8.2
40°-50°	1827.3	14.2
50°-60°	2878.2	22.4
60°-70°	3758.8	29.3
70°-80°	1935.9	15.1
80°-90°	209.4	1.6
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°	12848.0	100.0
0°-180°	12848.0	100.0



REPORT NUMBER: P193742

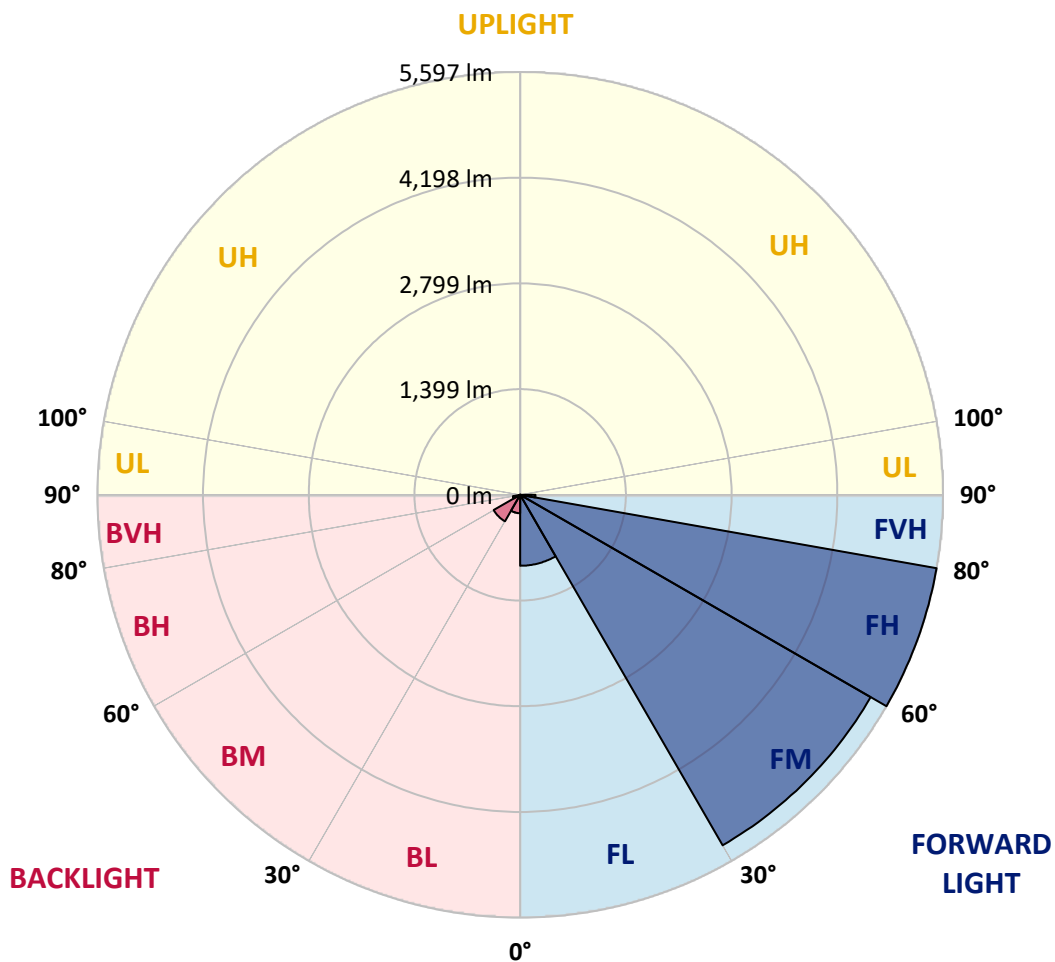
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	939.6	7.3			
FM	(30°-60°)	5356.8	41.7			
FH	(60°-80°)	5597.1	43.6			G3/7500
FVH	(80°-90°)	202.8	1.6			G2/225
BL	(0°-30°)	243.5	1.9	B1/500		
BM	(30°-60°)	404.0	3.1	B1/1000		
BH	(60°-80°)	97.6	0.8	B0/110		G0/110
BVH	(80°-90°)	6.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P193742

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6
2.5°	2107.7	2096.2	2089.3	2080.2	2068.7	2058.7	2054.9	2026.6	1999.9	1963.1	1921.1
5°	2146.7	2142.9	2130.6	2118.4	2104.6	2089.3	2080.9	2047.3	2009.0	1955.5	1882.1
7.5°	2150.5	2145.9	2130.6	2113.8	2094.7	2076.3	2061.8	2028.2	1993.0	1938.7	1849.2
10°	2144.4	2139.0	2127.6	2109.2	2085.5	2067.9	2053.4	2021.3	1991.4	1942.5	1843.1
12.5°	2137.5	2132.2	2126.8	2117.6	2097.0	2084.7	2072.5	2041.9	2015.2	1973.9	1865.3
15°	2144.4	2141.3	2147.5	2143.6	2132.2	2121.5	2109.2	2081.7	2057.2	2022.8	1905.8
17.5°	2173.5	2173.5	2192.6	2194.9	2184.2	2168.9	2151.3	2123.7	2103.1	2074.0	1954.0
20°	2241.5	2239.2	2263.7	2268.3	2242.3	2218.6	2192.6	2158.9	2142.9	2124.5	2001.4
22.5°	2358.5	2347.8	2362.4	2357.8	2306.5	2269.8	2237.7	2196.4	2188.0	2179.6	2054.2
25°	2510.7	2504.6	2514.5	2469.4	2379.2	2329.5	2291.2	2244.6	2244.6	2253.0	2113.8
27.5°	2731.7	2708.8	2675.1	2595.6	2460.2	2396.8	2355.5	2305.8	2318.8	2350.1	2192.6
30°	2958.1	2932.9	2855.6	2733.3	2558.9	2492.4	2444.2	2392.2	2422.8	2480.1	2298.1
32.5°	3181.4	3153.1	3043.8	2889.3	2700.4	2633.8	2587.2	2529.8	2581.1	2677.4	2452.6
35°	3397.8	3372.6	3246.4	3064.4	2888.5	2833.5	2790.6	2740.9	2806.7	2941.3	2670.6
37.5°	3641.0	3613.5	3459.8	3262.5	3117.2	3077.4	3046.1	2996.3	3111.1	3308.4	2974.2
40°	3940.1	3893.4	3686.2	3489.6	3381.8	3362.7	3341.3	3334.4	3512.6	3785.6	3378.7
42.5°	4282.7	4206.2	3923.2	3729.0	3672.4	3686.2	3680.8	3711.4	4015.0	4379.0	3871.2
45°	4625.3	4526.6	4187.1	3984.4	3992.1	4040.2	4070.1	4192.4	4644.4	5059.7	4401.2
47.5°	4915.9	4818.8	4440.2	4260.5	4352.3	4447.1	4528.2	4759.9	5291.4	5729.6	4813.4
50°	5164.5	5072.7	4708.7	4564.1	4770.6	4923.5	5055.1	5398.5	5987.3	6239.7	5102.5
52.5°	5367.9	5306.7	4987.0	4912.1	5248.6	5472.7	5665.4	6076.8	6603.7	6654.2	5327.3
55°	5566.0	5522.4	5286.0	5325.8	5809.9	6115.1	6359.0	6796.5	7134.5	6999.9	5543.0
57.5°	5793.9	5754.1	5627.1	5850.4	6547.9	6931.8	7198.0	7434.3	7601.8	7353.2	5746.4
60°	6026.3	6003.4	6006.5	6433.2	7395.3	7763.9	7910.7	7971.9	8060.6	7685.9	5757.9
62.5°	6248.1	6291.7	6440.1	7081.7	8206.7	8489.6	8563.8	8624.2	8520.2	7738.6	5319.7
65°	6623.6	6694.7	7048.8	7949.7	9099.2	9402.0	9478.5	9271.2	8592.9	7056.5	4327.0
67.5°	6807.2	6937.2	7568.9	8758.8	9964.9	10301.4	10273.1	9313.3	7711.1	5380.9	2776.9
69°	6768.9	6907.3	7688.9	9006.6	10252.4	10557.6	10377.8	8798.6	6569.3	3898.0	1704.7
70°	6617.5	6757.5	7627.0	8997.4	10289.1	10530.8	10183.6	8163.1	5554.5	2850.3	1066.1
72.5°	5526.2	5647.0	6771.2	8132.5	9478.5	9281.9	8519.5	5655.4	2706.5	776.2	240.1
75°	3401.7	3469.0	4858.5	6126.5	7159.0	6654.2	5676.1	2813.6	806.8	219.5	133.1
77.5°	1797.2	1827.8	2659.8	3611.2	4538.1	3755.0	2909.2	1097.4	371.7	137.7	96.4
80°	1062.3	1085.2	1432.4	1651.1	1963.9	1640.4	1163.2	673.8	266.1	86.4	85.7
82.5°	608.0	622.5	1038.5	917.7	773.9	660.8	578.9	638.6	159.8	58.1	88.7
85°	223.3	226.4	584.3	698.2	460.4	273.8	287.6	529.2	42.8	36.7	69.6
87.5°	104.0	101.7	300.6	427.5	269.2	173.6	224.1	116.2	16.8	23.7	19.1
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°	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6	1919.6
2.5°	1896.6	1868.3	1817.1	1764.3	1710.8	1669.5	1628.9	1596.8	1586.1	1566.2	1567.8
5°	1838.5	1786.5	1679.4	1570.8	1457.6	1364.3	1276.4	1205.3	1170.9	1135.7	1135.7
7.5°	1788.0	1712.3	1544.8	1368.2	1185.4	1031.7	893.2	789.2	731.9	686.0	685.2
10°	1768.9	1666.4	1432.4	1179.3	924.6	715.1	550.6	445.1	390.8	355.6	354.1
12.5°	1777.3	1650.4	1346.0	1004.9	685.2	459.6	318.9	250.8	227.9	217.2	217.2
15°	1801.8	1645.8	1259.6	834.4	484.1	287.6	211.8	193.5	192.0	192.0	192.0
17.5°	1831.6	1647.3	1170.9	668.4	329.6	205.7	182.8	180.5	182.0	182.0	182.0
20°	1862.2	1648.1	1075.3	514.7	232.5	179.0	172.1	171.3	172.8	172.8	173.6
22.5°	1899.7	1651.9	979.7	384.7	192.0	169.0	163.7	163.7	164.4	164.4	163.7
25°	1942.5	1659.5	880.2	285.3	175.1	162.1	157.5	156.8	157.5	156.8	156.0
27.5°	1996.0	1670.2	769.4	223.3	167.5	155.2	151.4	151.4	150.7	149.9	149.1
30°	2063.3	1682.5	644.7	189.7	159.8	149.1	145.3	144.5	143.8	142.2	142.2
32.5°	2165.8	1709.2	521.6	172.1	151.4	140.7	137.7	137.7	136.1	134.6	133.8
35°	2323.4	1762.0	411.4	161.4	142.2	131.5	127.7	127.7	126.2	125.4	124.7
37.5°	2541.3	1842.3	319.7	151.4	133.1	121.6	117.8	117.0	115.5	113.9	113.2
40°	2831.2	1941.7	251.6	142.2	123.9	111.7	108.6	107.1	104.0	101.7	101.7
42.5°	3195.2	2054.9	204.2	132.3	113.2	102.5	100.2	97.9	92.5	90.2	89.5
45°	3576.0	2156.6	172.8	120.8	102.5	93.3	91.8	87.9	81.1	78.8	78.8
47.5°	3850.6	2180.3	152.2	110.1	92.5	83.4	82.6	75.7	69.6	68.1	67.3
50°	4021.9	2133.7	135.4	99.4	83.4	74.2	71.9	63.5	59.7	58.1	57.4
52.5°	4137.4	2050.3	121.6	90.2	74.9	65.8	60.4	54.3	51.2	49.7	49.7
55°	4229.9	1932.6	107.8	81.8	68.1	58.9	51.2	46.7	43.6	42.1	42.1
57.5°	4255.9	1772.7	94.1	74.9	61.2	52.0	43.6	40.5	36.7	35.9	35.9
60°	4067.0	1484.4	83.4	66.5	55.1	45.1	38.2	34.4	30.6	29.8	29.1
62.5°	3569.2	1148.7	73.4	58.9	48.2	39.0	32.9	28.3	25.2	25.2	25.2
65°	2722.6	770.1	64.2	51.2	42.1	32.9	28.3	22.9	21.4	21.4	22.2
67.5°	1629.7	419.1	55.1	43.6	35.9	27.5	23.7	19.9	19.1	19.9	19.9
69°	955.2	246.3	49.7	39.0	31.4	24.5	20.6	17.6	19.1	19.9	19.9
70°	589.6	166.0	45.9	35.2	28.3	22.2	19.1	16.8	18.4	19.1	19.1
72.5°	164.4	85.7	36.7	27.5	22.9	18.4	15.3	15.3	17.6	18.4	18.4
75°	107.1	63.5	28.3	20.6	17.6	14.5	13.0	14.5	16.8	17.6	17.6
77.5°	88.7	52.0	22.9	16.8	14.5	13.8	12.2	13.0	15.3	16.1	16.1
80°	81.1	36.7	18.4	15.3	13.0	12.2	11.5	10.7	13.8	14.5	14.5
82.5°	77.2	29.1	16.1	13.8	12.2	10.7	9.9	10.7	12.2	13.0	13.8
85°	48.2	19.1	14.5	13.0	10.7	9.9	9.9	9.9	11.5	12.2	12.2
87.5°	17.6	15.3	13.0	10.7	9.2	9.2	9.2	9.2	9.9	11.5	11.5
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)