

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: P269323

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269323  
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-05-LED-E1-SL4-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 615mA 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: 13822.2 lumens  
Efficiency: N/A  
Efficacy: 85.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

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

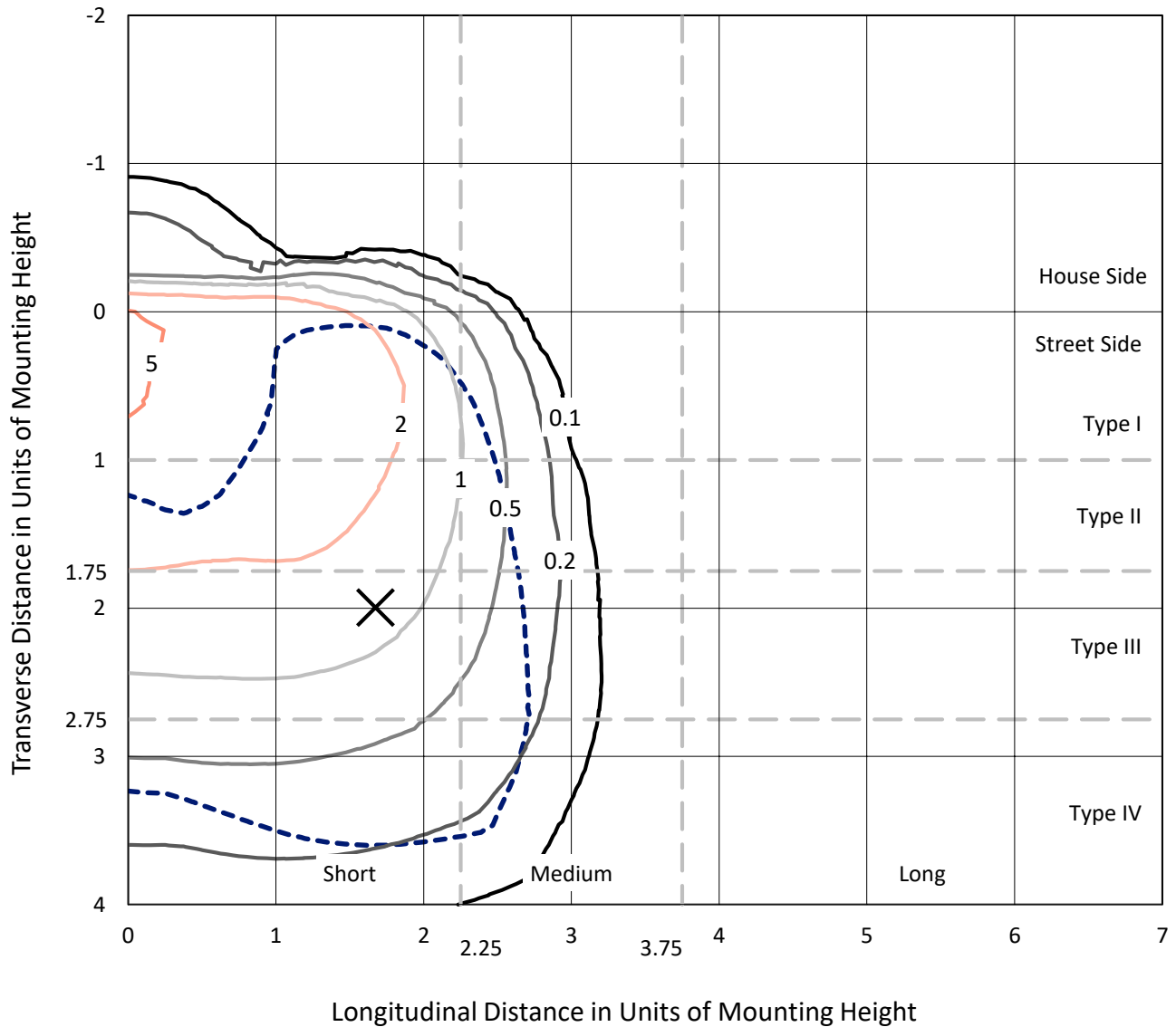


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

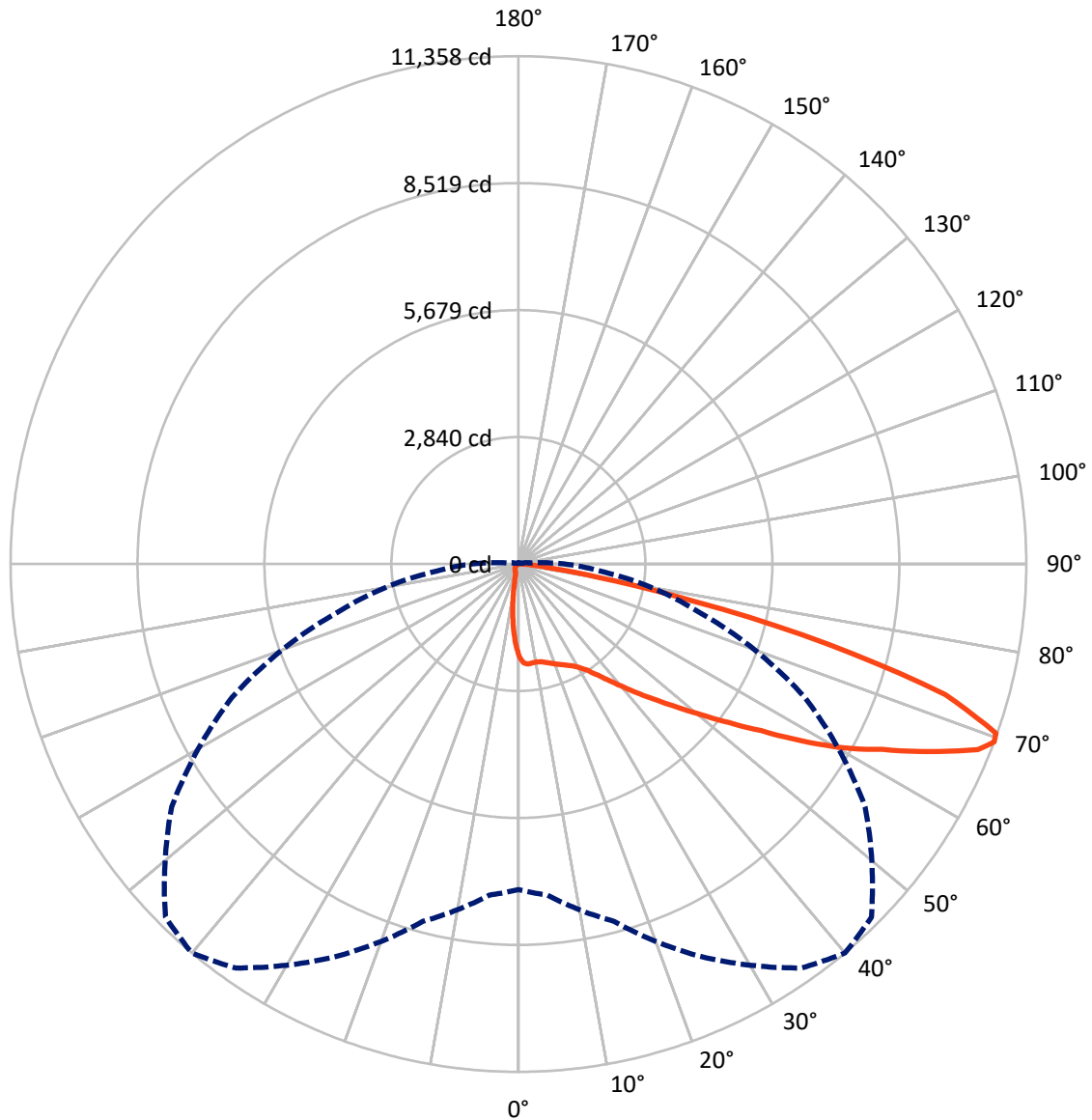


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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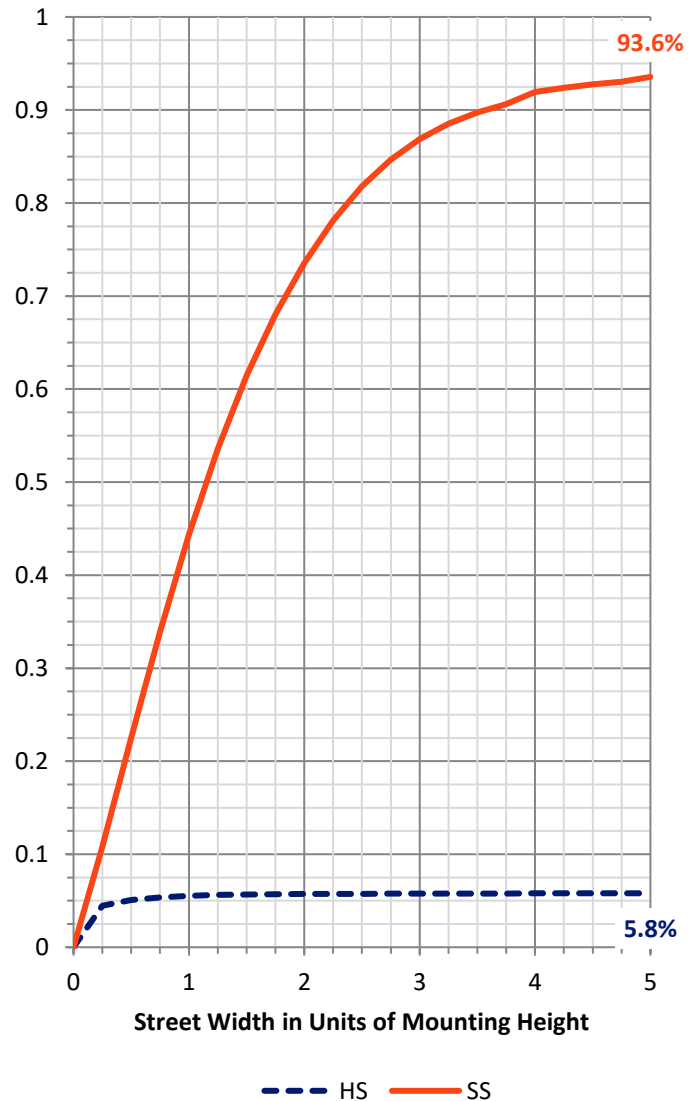
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	808.7	0.0	808.7
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	13013.5	0.0	13013.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	13822.2	0.0	13822.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.4	1.2
10°-20°	411.8	3.0
20°-30°	693.6	5.0
30°-40°	1135.4	8.2
40°-50°	1965.8	14.2
50°-60°	3096.4	22.4
60°-70°	4043.8	29.3
70°-80°	2082.7	15.1
80°-90°	225.3	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°	13822.2	100.0
0°-180°	13822.2	100.0



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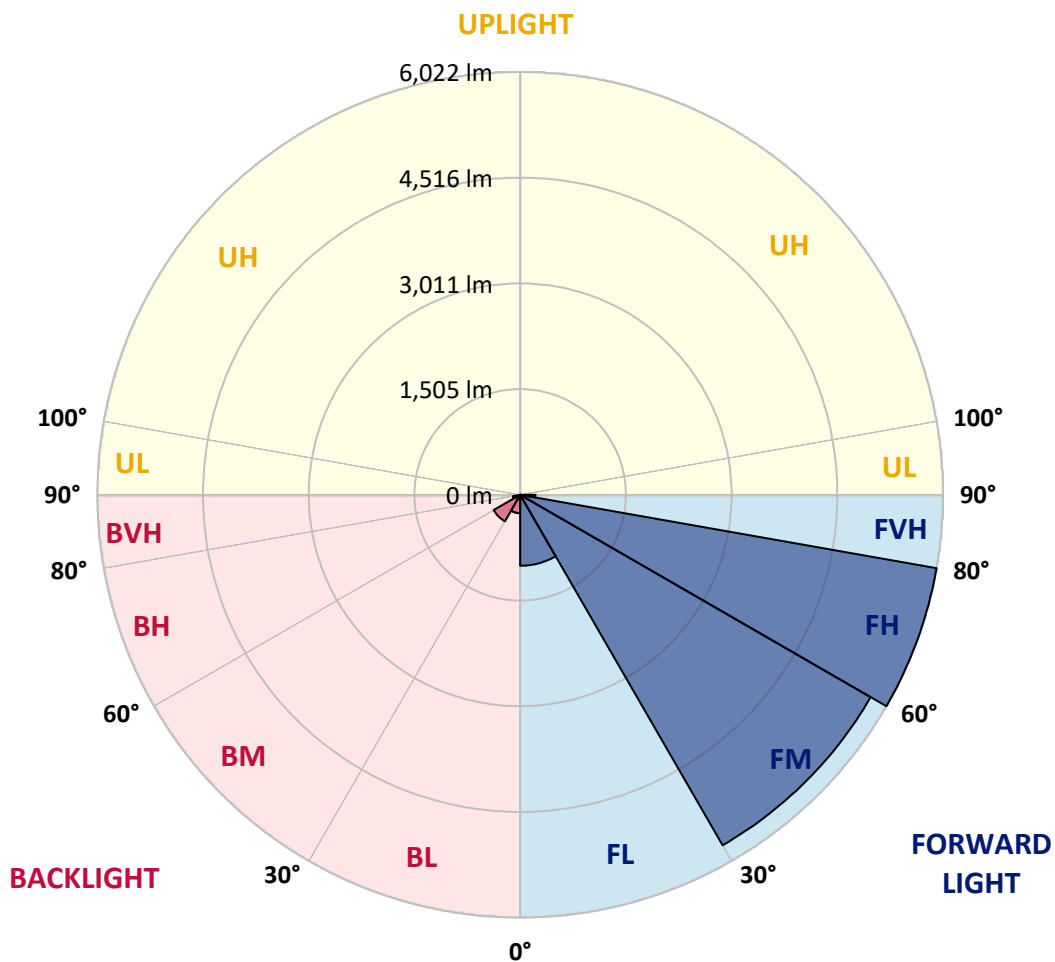
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1010.8	7.3			
FM	(30°-60°)	5763.0	41.7			
FH	(60°-80°)	6021.5	43.6			G3/7500
FVH	(80°-90°)	218.2	1.6			G2/225
BL	(0°-30°)	262.0	1.9	B1/500		
BM	(30°-60°)	434.6	3.1	B1/1000		
BH	(60°-80°)	105.0	0.8	B0/110		G0/110
BVH	(80°-90°)	7.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2
2.5°	2267.5	2255.1	2247.7	2237.9	2225.6	2214.9	2210.6	2180.2	2151.5	2112.1	2066.7
5°	2309.5	2305.3	2292.1	2279.0	2264.2	2247.7	2238.7	2202.6	2161.4	2103.8	2024.8
7.5°	2313.6	2308.6	2292.1	2274.1	2253.5	2233.7	2218.2	2182.0	2144.1	2085.7	1989.4
10°	2306.9	2301.3	2288.9	2269.2	2243.6	2224.7	2209.1	2174.5	2142.5	2089.7	1982.7
12.5°	2299.7	2293.8	2288.1	2278.2	2256.1	2242.8	2229.7	2196.7	2168.0	2123.6	2006.8
15°	2306.9	2303.8	2310.4	2306.2	2293.8	2282.4	2269.2	2239.6	2213.2	2176.1	2050.3
17.5°	2338.3	2338.3	2358.8	2361.4	2349.7	2333.3	2314.5	2284.7	2262.7	2231.3	2102.2
20°	2411.5	2409.1	2435.3	2440.2	2412.3	2386.7	2358.8	2322.7	2305.3	2285.6	2153.1
22.5°	2537.4	2525.9	2541.5	2536.5	2481.4	2442.0	2407.4	2362.9	2353.9	2344.8	2209.9
25°	2701.2	2694.6	2705.2	2656.6	2559.6	2506.1	2464.9	2414.7	2414.7	2423.8	2274.1
27.5°	2938.8	2914.2	2878.0	2792.4	2646.8	2578.6	2534.1	2480.6	2494.7	2528.3	2358.8
30°	3182.4	3155.2	3072.2	2940.5	2752.9	2681.4	2629.5	2573.6	2606.5	2668.1	2472.3
32.5°	3422.6	3392.2	3274.5	3108.3	2905.2	2833.6	2783.4	2721.7	2776.8	2880.4	2638.6
35°	3655.6	3628.3	3492.6	3296.8	3107.5	3048.3	3002.2	2948.7	3019.6	3164.3	2873.0
37.5°	3917.1	3887.5	3722.1	3509.9	3353.6	3310.8	3277.0	3223.6	3346.9	3559.3	3199.8
40°	4238.8	4188.6	3965.7	3754.2	3638.2	3617.7	3594.6	3587.2	3778.9	4072.6	3634.9
42.5°	4607.3	4525.1	4220.7	4011.7	3950.8	3965.7	3959.9	3992.8	4319.4	4711.2	4164.8
45°	4976.0	4869.9	4504.6	4286.5	4294.7	4346.5	4378.7	4510.3	4996.6	5443.3	4735.0
47.5°	5288.6	5184.2	4776.8	4583.5	4682.2	4784.4	4871.5	5120.8	5692.6	6164.1	5178.4
50°	5556.0	5457.4	5065.7	4910.1	5132.3	5296.9	5438.3	5807.8	6441.3	6712.9	5489.5
52.5°	5774.9	5709.1	5365.1	5284.5	5646.6	5887.6	6094.9	6537.5	7104.4	7158.8	5731.2
55°	5988.0	5941.1	5686.9	5729.7	6250.4	6578.7	6841.2	7311.8	7675.5	7530.6	5963.3
57.5°	6233.2	6190.4	6053.8	6294.1	7044.4	7457.4	7743.7	7998.0	8178.2	7910.7	6182.1
60°	6483.2	6458.6	6461.9	6921.0	7956.0	8352.6	8510.5	8576.4	8671.8	8268.7	6194.5
62.5°	6721.8	6768.8	6928.4	7618.6	8828.9	9133.3	9213.1	9278.1	9166.2	8325.4	5723.0
65°	7125.9	7202.4	7583.3	8552.6	9789.1	10114.9	10197.2	9974.2	9244.5	7591.5	4655.1
67.5°	7323.3	7463.2	8142.7	9423.0	10720.5	11082.5	11052.0	10019.4	8295.8	5788.9	2987.5
69°	7282.2	7431.0	8272.0	9689.6	11029.7	11358.1	11164.8	9465.8	7067.4	4193.6	1833.9
70°	7119.2	7269.9	8205.3	9679.6	11069.4	11329.3	10955.8	8782.1	5975.6	3066.5	1147.0
72.5°	5945.3	6075.1	7284.6	8749.1	10197.2	9985.7	9165.4	6084.3	2911.8	835.2	258.4
75°	3659.7	3732.0	5227.0	6591.0	7701.8	7158.8	6106.5	3026.8	868.0	236.2	143.2
77.5°	1933.4	1966.4	2861.6	3885.0	4882.2	4039.7	3129.8	1180.6	399.8	148.1	103.7
80°	1142.9	1167.4	1541.0	1776.3	2112.9	1764.8	1251.3	724.8	286.3	93.0	92.2
82.5°	654.1	669.7	1117.3	987.2	832.5	710.9	622.9	687.1	171.9	62.5	95.4
85°	240.2	243.5	628.5	751.2	495.2	294.6	309.3	569.3	46.1	39.4	74.9
87.5°	111.8	109.5	323.3	459.9	289.7	186.8	241.0	125.0	18.1	25.5	20.7
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°	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2	2065.2
2.5°	2040.4	2010.0	1954.8	1898.1	1840.4	1796.2	1752.5	1717.9	1706.4	1685.0	1686.7
5°	1977.9	1922.0	1806.9	1689.9	1568.3	1467.8	1373.1	1296.7	1259.7	1221.8	1221.8
7.5°	1923.6	1842.2	1662.0	1472.0	1275.2	1109.9	960.9	849.1	787.4	738.0	737.1
10°	1903.0	1792.7	1541.0	1268.6	994.8	769.3	592.4	478.8	420.4	382.6	380.9
12.5°	1912.1	1775.5	1448.1	1081.1	737.1	494.4	343.2	269.9	245.1	233.6	233.6
15°	1938.5	1770.6	1355.1	897.6	520.7	309.3	227.9	208.1	206.5	206.5	206.5
17.5°	1970.5	1772.1	1259.7	719.2	354.7	221.3	196.5	194.2	195.8	195.8	195.8
20°	2003.4	1773.1	1156.7	553.7	250.1	192.5	185.1	184.3	185.9	185.9	186.8
22.5°	2043.7	1777.1	1053.9	413.8	206.5	181.8	176.1	176.1	176.8	176.8	176.1
25°	2089.7	1785.4	947.1	307.0	188.5	174.5	169.5	168.6	169.5	168.6	167.9
27.5°	2147.4	1796.9	827.7	240.2	180.2	167.1	163.0	163.0	162.1	161.2	160.4
30°	2219.8	1810.1	693.6	204.1	171.9	160.4	156.3	155.4	154.7	153.0	153.0
32.5°	2330.1	1838.8	561.1	185.1	163.0	151.4	148.1	148.1	146.5	144.7	144.0
35°	2499.5	1895.7	442.7	173.6	153.0	141.6	137.4	137.4	135.7	134.9	134.0
37.5°	2734.0	1982.0	344.0	163.0	143.2	130.9	126.8	125.9	124.2	122.6	121.8
40°	3045.9	2089.0	270.7	153.0	133.3	120.2	116.8	115.3	111.8	109.5	109.5
42.5°	3437.5	2210.6	219.6	142.3	121.8	110.2	107.7	105.3	99.5	97.0	96.3
45°	3847.3	2320.1	185.9	130.0	110.2	100.4	98.8	94.6	87.2	84.7	84.7
47.5°	4142.5	2345.7	163.8	118.4	99.5	89.7	88.8	81.4	74.9	73.2	72.5
50°	4326.9	2295.4	145.6	107.0	89.7	79.8	77.3	68.4	64.1	62.5	61.8
52.5°	4451.1	2205.8	130.9	97.0	80.7	70.7	64.9	58.4	55.2	53.4	53.4
55°	4550.6	2079.0	116.1	88.0	73.2	63.3	55.2	50.1	46.9	45.3	45.3
57.5°	4578.7	1907.1	101.1	80.7	65.8	56.0	46.9	43.6	39.4	38.6	38.6
60°	4375.5	1596.9	89.7	71.5	59.3	48.6	41.1	37.0	32.9	32.1	31.4
62.5°	3839.7	1235.8	79.1	63.3	51.8	42.0	35.4	30.5	27.2	27.2	27.2
65°	2929.1	828.4	69.1	55.2	45.3	35.4	30.5	24.7	23.0	23.0	23.9
67.5°	1753.3	450.9	59.3	46.9	38.6	29.6	25.5	21.4	20.7	21.4	21.4
69°	1027.7	264.9	53.4	42.0	33.7	26.3	22.2	19.0	20.7	21.4	21.4
70°	634.4	178.6	49.3	37.9	30.5	23.9	20.7	18.1	19.8	20.7	20.7
72.5°	176.8	92.2	39.4	29.6	24.7	19.8	16.4	16.4	19.0	19.8	19.8
75°	115.3	68.4	30.5	22.2	19.0	15.6	14.1	15.6	18.1	19.0	19.0
77.5°	95.4	56.0	24.7	18.1	15.6	14.8	13.1	14.1	16.4	17.2	17.2
80°	87.2	39.4	19.8	16.4	14.1	13.1	12.3	11.5	14.8	15.6	15.6
82.5°	83.2	31.4	17.2	14.8	13.1	11.5	10.7	11.5	13.1	14.1	14.8
85°	51.8	20.7	15.6	14.1	11.5	10.7	10.7	10.7	12.3	13.1	13.1
87.5°	19.0	16.4	14.1	11.5	9.9	9.9	9.9	9.9	10.7	12.3	12.3
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)