

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: P269167

Luminaire Tested: **GLEON-AF-03-LED-E1-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269167  
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-03-LED-E1-SL4-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA 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: 14057.7 lumens  
Efficiency: N/A  
Efficacy: 73.6 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): 191  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

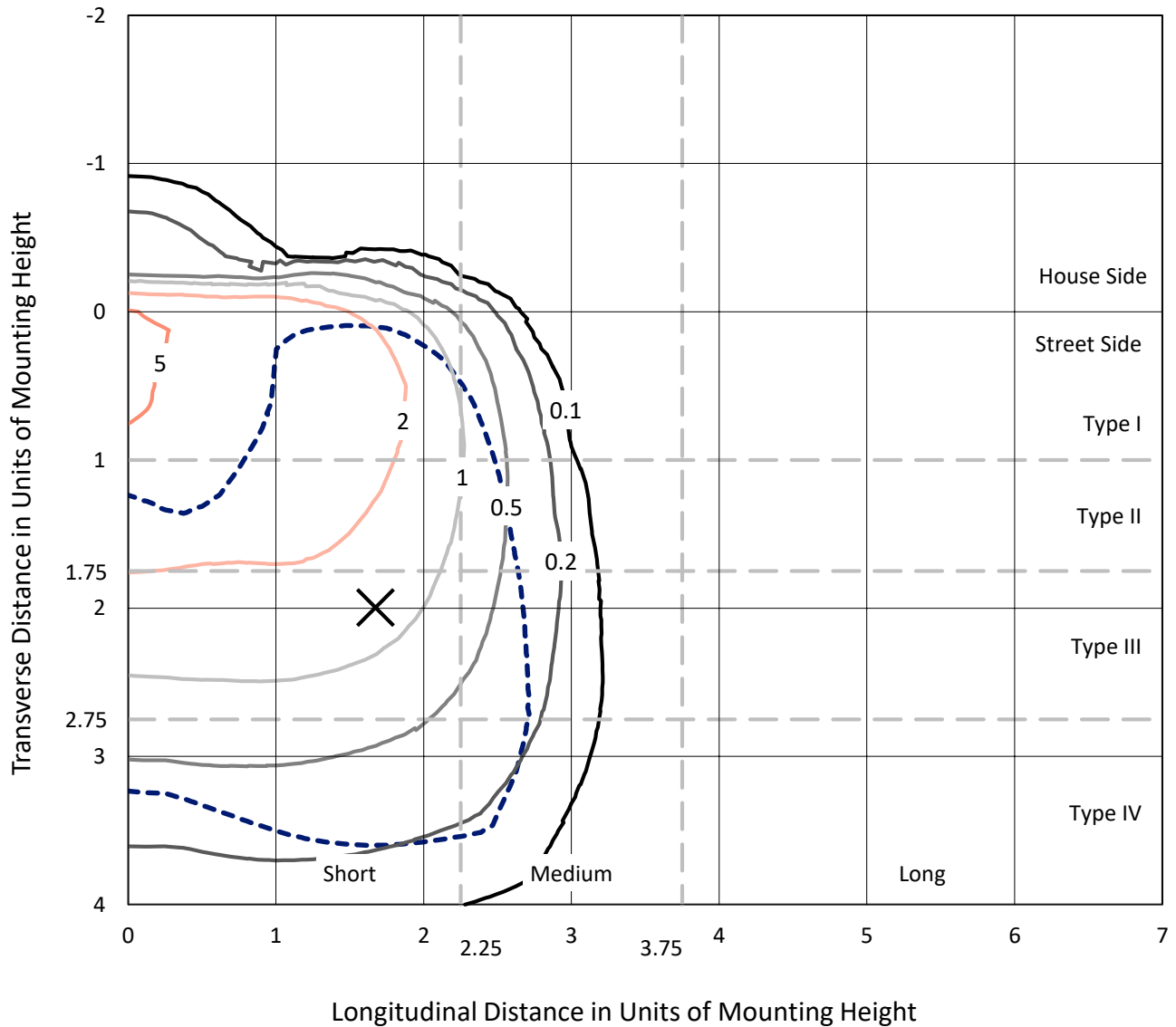


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

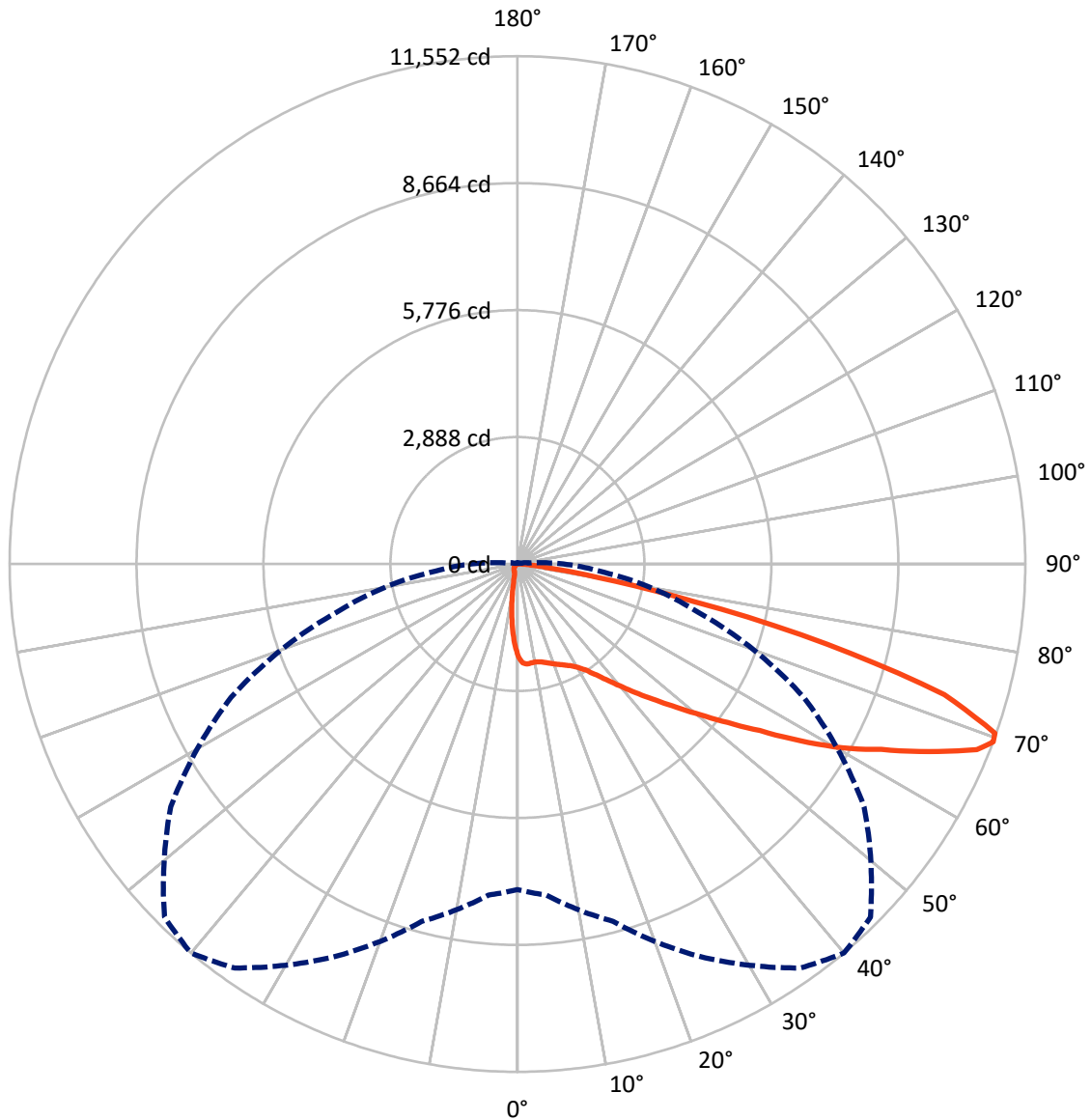


Based on 20 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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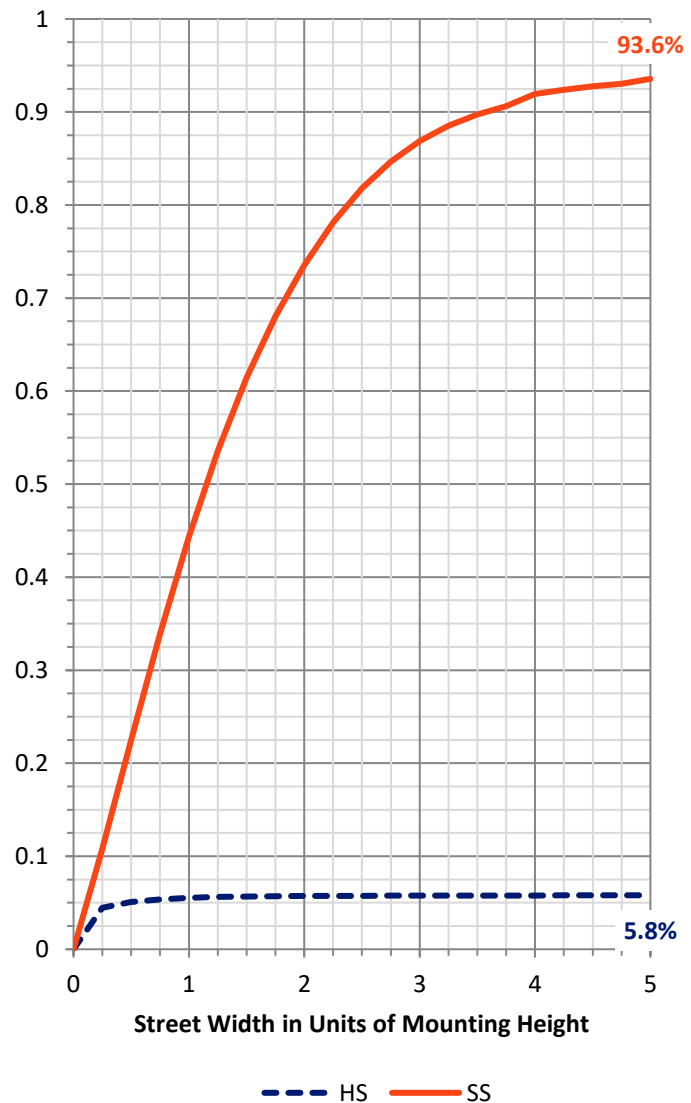
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	822.5	0.0	822.5
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	13235.3	0.0	13235.3
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	14057.7	0.0	14057.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.3	1.2
10°-20°	418.8	3.0
20°-30°	705.4	5.0
30°-40°	1154.7	8.2
40°-50°	1999.4	14.2
50°-60°	3149.2	22.4
60°-70°	4112.7	29.3
70°-80°	2118.2	15.1
80°-90°	229.1	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°	14057.7	100.0
0°-180°	14057.7	100.0



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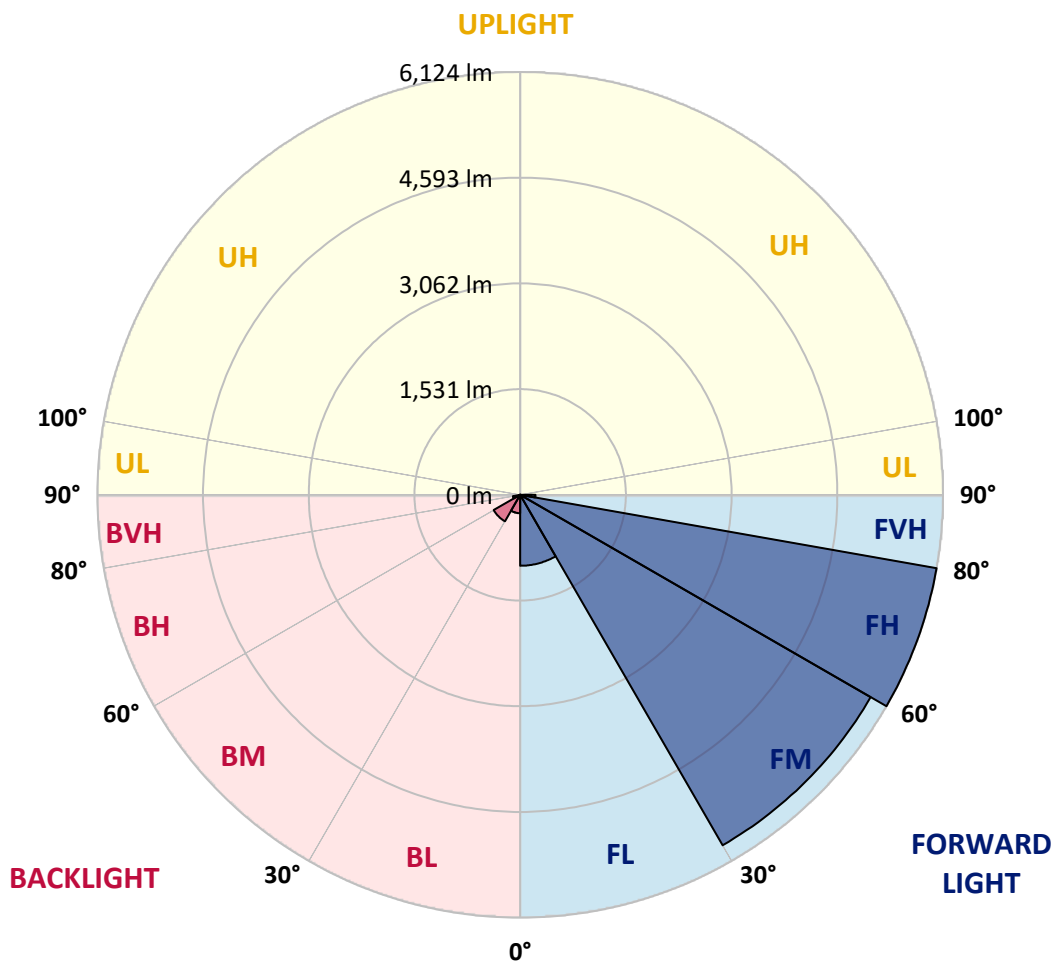
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1028.0	7.3			
FM	(30°-60°)	5861.2	41.7			
FH	(60°-80°)	6124.1	43.6			G3/7500
FVH	(80°-90°)	221.9	1.6			G2/225
BL	(0°-30°)	266.4	1.9	B1/500		
BM	(30°-60°)	442.0	3.1	B1/1000		
BH	(60°-80°)	106.8	0.8	B0/110		G0/110
BVH	(80°-90°)	7.2	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°	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2
2.5°	2306.2	2293.6	2286.0	2276.0	2263.5	2252.6	2248.4	2217.5	2188.1	2147.9	2101.9
5°	2348.8	2344.7	2331.2	2317.8	2302.7	2286.0	2276.8	2240.1	2198.2	2139.7	2059.4
7.5°	2353.0	2348.0	2331.2	2312.9	2291.9	2271.9	2256.0	2219.2	2180.6	2121.2	2023.3
10°	2346.4	2340.4	2327.9	2307.8	2281.9	2262.7	2246.8	2211.5	2179.0	2125.4	2016.7
12.5°	2338.7	2332.9	2327.1	2317.0	2294.5	2281.1	2267.6	2234.2	2204.9	2159.7	2040.9
15°	2346.4	2343.0	2349.6	2345.5	2332.9	2321.2	2307.8	2277.7	2251.0	2213.2	2085.2
17.5°	2378.2	2378.2	2399.1	2401.6	2389.9	2373.1	2353.9	2323.7	2301.1	2269.3	2138.0
20°	2452.6	2450.0	2476.8	2481.8	2453.5	2427.5	2399.1	2362.3	2344.7	2324.5	2189.9
22.5°	2580.7	2569.0	2584.9	2579.8	2523.7	2483.5	2448.4	2403.2	2394.1	2384.8	2247.6
25°	2747.1	2740.4	2751.2	2701.9	2603.2	2548.9	2507.0	2456.0	2456.0	2465.0	2312.9
27.5°	2989.0	2963.9	2927.0	2840.0	2692.0	2622.4	2577.2	2522.9	2537.2	2571.4	2399.1
30°	3236.7	3209.0	3124.6	2990.6	2799.8	2727.1	2674.3	2617.4	2650.9	2713.7	2514.4
32.5°	3481.0	3450.0	3330.3	3161.3	2954.6	2881.9	2830.7	2768.0	2824.1	2929.6	2683.5
35°	3717.7	3690.1	3552.1	3353.0	3160.4	3100.2	3053.3	2999.0	3070.9	3218.3	2921.9
37.5°	3983.9	3953.8	3785.5	3569.7	3410.7	3367.1	3332.9	3278.5	3403.9	3619.9	3254.2
40°	4311.1	4260.0	4033.2	3818.2	3700.2	3679.3	3655.8	3648.3	3843.3	4142.1	3696.9
42.5°	4685.9	4602.2	4292.6	4080.1	4018.2	4033.2	4027.5	4060.9	4393.0	4791.4	4235.8
45°	5060.8	4952.9	4581.4	4359.6	4368.0	4420.6	4453.3	4587.1	5081.7	5536.1	4815.6
47.5°	5378.8	5272.5	4858.4	4661.7	4762.1	4865.8	4954.5	5208.1	5789.7	6269.1	5266.7
50°	5650.7	5550.3	5152.0	4993.9	5219.8	5387.1	5531.0	5906.7	6551.1	6827.3	5583.0
52.5°	5873.3	5806.4	5456.7	5374.6	5742.8	5987.9	6198.8	6649.1	7225.5	7280.8	5828.9
55°	6090.0	6042.3	5783.7	5827.2	6356.9	6690.8	6957.8	7436.3	7806.2	7658.9	6064.9
57.5°	6339.3	6296.0	6157.0	6401.3	7164.4	7584.5	7875.7	8134.3	8317.5	8045.6	6287.4
60°	6593.7	6568.6	6572.0	7038.8	8091.7	8494.9	8655.6	8722.5	8819.6	8409.6	6300.1
62.5°	6836.5	6884.2	7046.5	7748.5	8979.4	9289.1	9370.2	9436.2	9322.5	8467.3	5820.6
65°	7247.3	7325.0	7712.6	8698.3	9955.9	10287.3	10370.9	10144.2	9402.0	7720.9	4734.4
67.5°	7448.1	7590.4	8281.6	9583.6	10903.2	11271.4	11240.4	10190.3	8437.2	5887.5	3038.3
69°	7406.3	7557.7	8412.9	9854.6	11217.8	11551.7	11355.0	9627.0	7187.9	4265.1	1865.2
70°	7240.6	7393.7	8345.2	9844.6	11258.0	11522.4	11142.4	8931.7	6077.6	3118.6	1166.4
72.5°	6046.5	6178.7	7408.9	8898.3	10370.9	10155.9	9321.6	6188.0	2961.4	849.3	262.8
75°	3721.9	3795.6	5316.0	6703.4	7833.0	7280.8	6210.5	3078.5	882.9	240.1	145.5
77.5°	1966.4	1999.8	2910.2	3951.3	4965.4	4108.6	3183.1	1200.8	406.7	150.6	105.5
80°	1162.2	1187.4	1567.3	1806.6	2148.8	1794.9	1272.7	737.1	291.2	94.5	93.8
82.5°	665.3	681.2	1136.4	1004.1	846.8	723.0	633.5	698.7	174.9	63.6	97.0
85°	244.2	247.8	639.4	764.0	503.7	299.6	314.6	579.0	46.8	40.2	76.1
87.5°	113.7	111.3	328.9	467.7	294.6	189.9	245.1	127.2	18.4	26.0	20.9
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°	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2	2100.2
2.5°	2075.3	2044.3	1988.2	1930.5	1871.9	1826.7	1782.3	1747.2	1735.4	1713.6	1715.5
5°	2011.7	1954.7	1837.6	1718.7	1594.9	1492.9	1396.5	1318.7	1281.2	1242.6	1242.6
7.5°	1956.4	1873.5	1690.3	1496.9	1297.1	1128.8	977.4	863.5	800.7	750.5	749.7
10°	1935.5	1823.3	1567.3	1290.3	1011.6	782.3	602.5	487.1	427.7	389.1	387.3
12.5°	1944.7	1805.8	1472.7	1099.5	749.7	503.0	348.9	274.4	249.4	237.6	237.6
15°	1971.4	1800.7	1378.2	912.9	529.7	314.6	231.9	211.7	210.1	210.1	210.1
17.5°	2004.1	1802.4	1281.2	731.3	360.7	225.0	200.1	197.4	199.2	199.2	199.2
20°	2037.5	1803.3	1176.5	563.1	254.4	195.8	188.3	187.4	189.2	189.2	189.9
22.5°	2078.6	1807.4	1071.9	420.9	210.1	185.0	179.0	179.0	179.9	179.9	179.0
25°	2125.4	1815.8	963.2	312.2	191.6	177.3	172.4	171.5	172.4	171.5	170.7
27.5°	2184.0	1827.5	841.8	244.2	183.3	169.9	165.6	165.6	164.8	164.0	163.1
30°	2257.6	1840.8	705.3	207.5	174.9	163.1	159.0	158.1	157.4	155.6	155.6
32.5°	2369.8	1870.2	570.7	188.3	165.6	154.0	150.6	150.6	148.9	147.3	146.5
35°	2542.2	1927.9	450.2	176.5	155.6	143.9	139.7	139.7	138.1	137.3	136.5
37.5°	2780.7	2015.7	349.8	165.6	145.5	133.0	128.8	128.0	126.3	124.7	123.8
40°	3097.7	2124.6	275.3	155.6	135.6	122.2	118.8	117.1	113.7	111.3	111.3
42.5°	3496.1	2248.4	223.4	144.7	123.8	112.1	109.7	107.1	101.2	98.8	97.8
45°	3912.7	2359.7	189.2	132.2	112.1	102.0	100.4	96.2	88.8	86.1	86.1
47.5°	4213.1	2385.7	166.5	120.6	101.2	91.2	90.4	82.9	76.1	74.5	73.7
50°	4400.5	2334.5	148.1	108.8	91.2	81.1	78.6	69.4	65.2	63.6	62.7
52.5°	4527.0	2243.3	133.0	98.8	82.0	72.0	66.1	59.4	56.1	54.3	54.3
55°	4628.2	2114.5	117.9	89.6	74.5	64.4	56.1	51.1	47.7	46.1	46.1
57.5°	4656.6	1939.6	102.9	82.0	67.0	57.0	47.7	44.3	40.2	39.3	39.3
60°	4449.9	1624.1	91.2	72.9	60.2	49.3	41.9	37.6	33.4	32.6	31.8
62.5°	3905.2	1256.8	80.3	64.4	52.7	42.7	36.0	30.9	27.6	27.6	27.6
65°	2978.9	842.6	70.2	56.1	46.1	36.0	30.9	25.2	23.4	23.4	24.3
67.5°	1783.1	458.6	60.2	47.7	39.3	30.2	26.0	21.7	20.9	21.7	21.7
69°	1045.1	269.4	54.3	42.7	34.3	26.8	22.5	19.3	20.9	21.7	21.7
70°	645.2	181.5	50.2	38.4	30.9	24.3	20.9	18.4	20.1	20.9	20.9
72.5°	179.9	93.8	40.2	30.2	25.2	20.1	16.8	16.8	19.3	20.1	20.1
75°	117.1	69.4	30.9	22.5	19.3	15.9	14.3	15.9	18.4	19.3	19.3
77.5°	97.0	57.0	25.2	18.4	15.9	15.0	13.4	14.3	16.8	17.5	17.5
80°	88.8	40.2	20.1	16.8	14.3	13.4	12.5	11.7	15.0	15.9	15.9
82.5°	84.5	31.8	17.5	15.0	13.4	11.7	10.9	11.7	13.4	14.3	15.0
85°	52.7	20.9	15.9	14.3	11.7	10.9	10.9	10.9	12.5	13.4	13.4
87.5°	19.3	16.8	14.3	11.7	10.1	10.1	10.1	10.1	10.9	12.5	12.5
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)