

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: P193733

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193733  
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-SL4-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 12982 lumens  
Efficiency: N/A  
Efficacy: 80.1 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

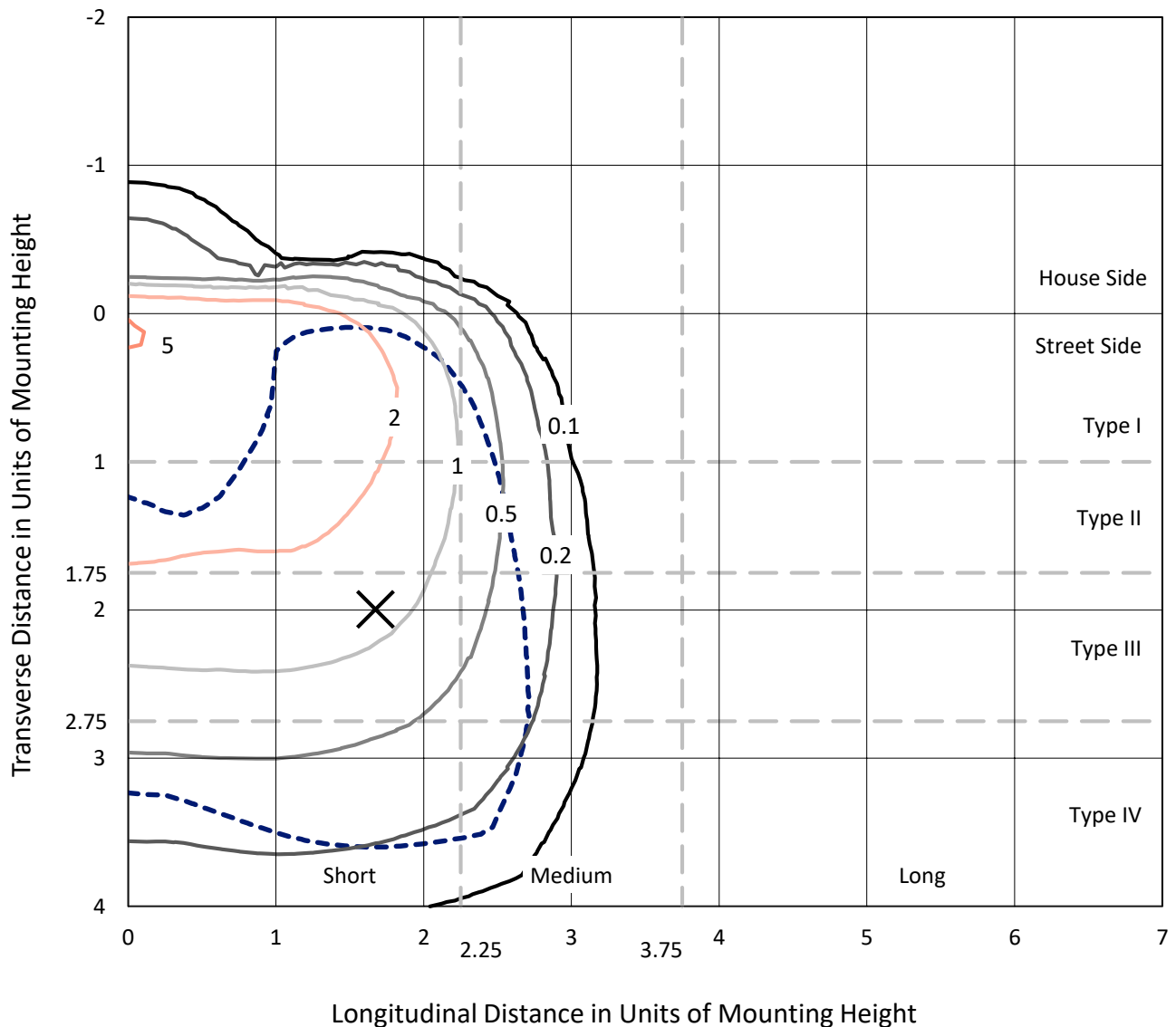


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

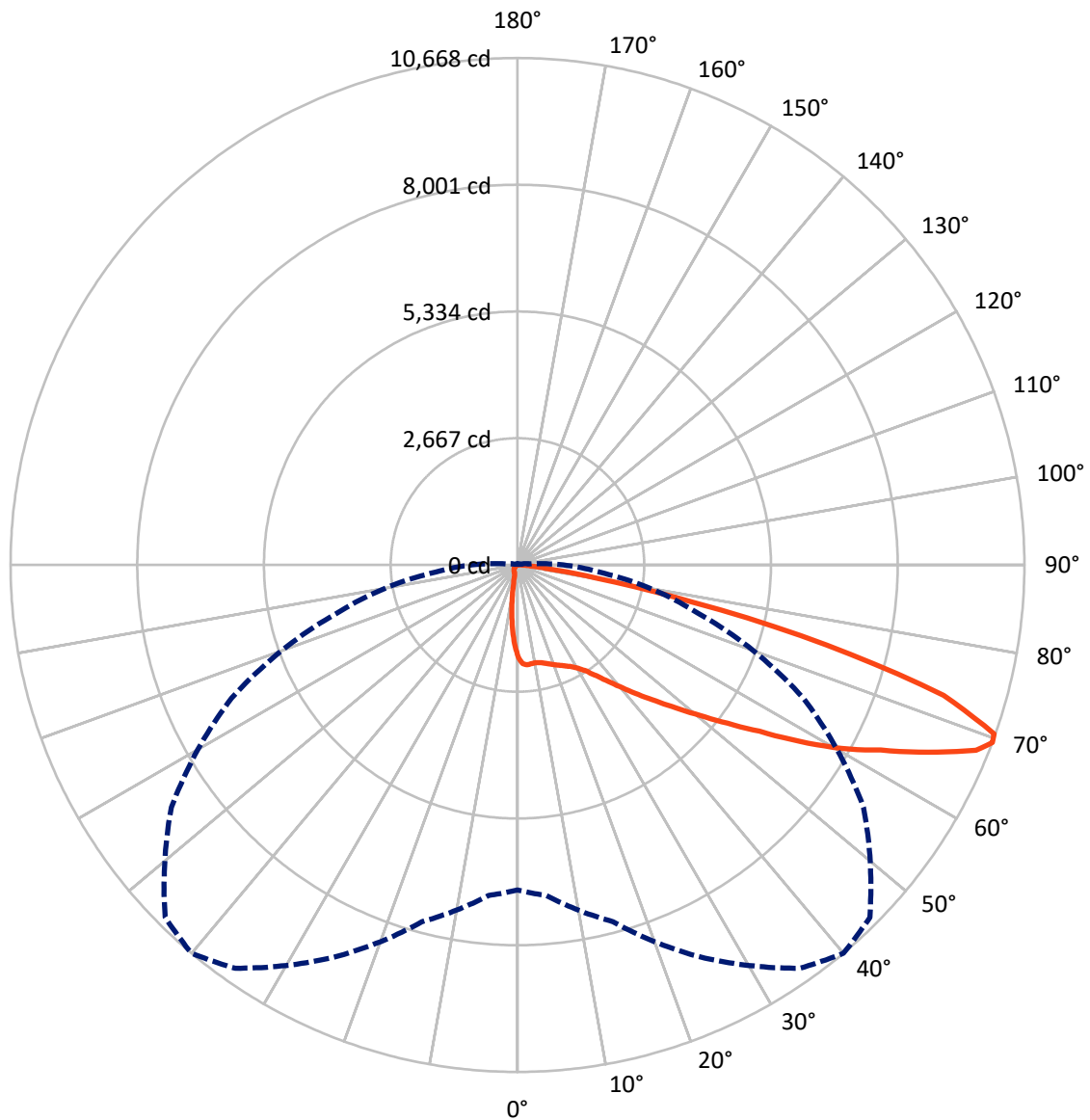


Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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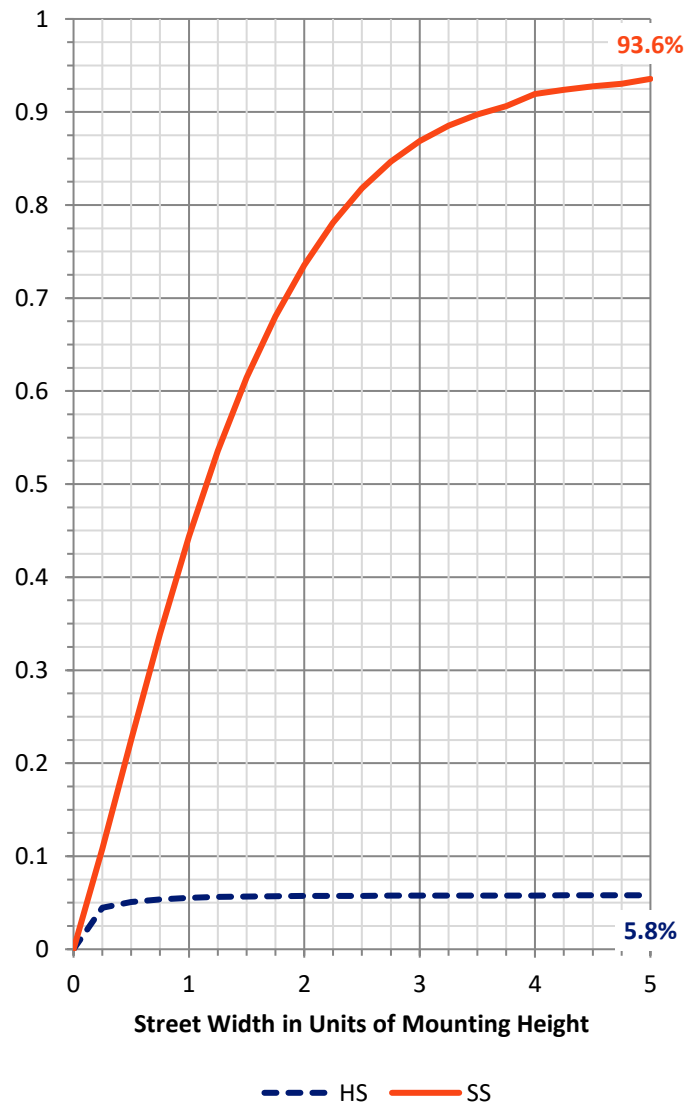
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	759.5	0.0	759.5
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	12222.5	0.0	12222.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	12982.0	0.0	12982.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	1.2
10°-20°	386.7	3.0
20°-30°	651.4	5.0
30°-40°	1066.3	8.2
40°-50°	1846.4	14.2
50°-60°	2908.2	22.4
60°-70°	3798.0	29.3
70°-80°	1956.1	15.1
80°-90°	211.6	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°	12982.0	100.0
0°-180°	12982.0	100.0



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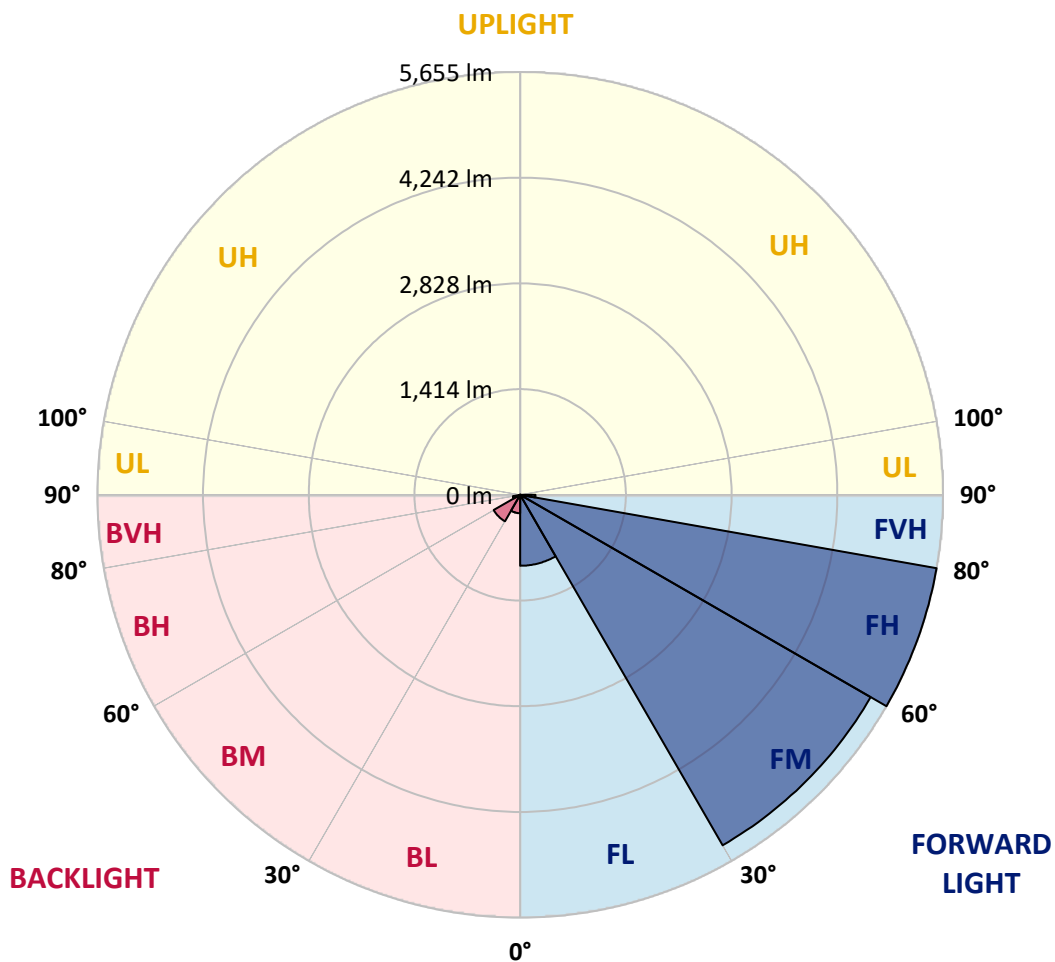
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	949.4	7.3			
FM	(30°-60°)	5412.7	41.7			
FH	(60°-80°)	5655.5	43.6			G3/7500
FVH	(80°-90°)	205.0	1.6			G2/225
BL	(0°-30°)	246.0	1.9	B1/500		
BM	(30°-60°)	408.2	3.1	B1/1000		
BH	(60°-80°)	98.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6
2.5°	2129.7	2118.1	2111.1	2101.9	2090.3	2080.2	2076.4	2047.8	2020.7	1983.6	1941.1
5°	2169.1	2165.2	2152.9	2140.5	2126.6	2111.1	2102.6	2068.6	2030.0	1975.9	1901.7
7.5°	2172.9	2168.3	2152.9	2135.9	2116.5	2098.0	2083.3	2049.3	2013.8	1958.9	1868.5
10°	2166.8	2161.4	2149.8	2131.2	2107.3	2089.5	2074.8	2042.4	2012.2	1962.8	1862.3
12.5°	2159.8	2154.4	2149.0	2139.7	2118.9	2106.5	2094.1	2063.2	2036.2	1994.4	1884.7
15°	2166.8	2163.7	2169.9	2166.0	2154.4	2143.6	2131.2	2103.4	2078.7	2043.9	1925.7
17.5°	2196.1	2196.1	2215.4	2217.8	2206.9	2191.5	2173.7	2145.9	2125.0	2095.7	1974.4
20°	2264.9	2262.6	2287.3	2291.9	2265.7	2241.7	2215.4	2181.4	2165.2	2146.7	2022.3
22.5°	2383.1	2372.3	2387.0	2382.4	2330.6	2293.5	2261.0	2219.3	2210.8	2202.3	2075.6
25°	2536.9	2530.7	2540.8	2495.2	2404.0	2353.8	2315.1	2268.0	2268.0	2276.5	2135.9
27.5°	2760.2	2737.0	2703.0	2622.7	2485.9	2421.8	2380.0	2329.8	2342.9	2374.6	2215.4
30°	2989.0	2963.5	2885.4	2761.8	2585.6	2518.4	2469.7	2417.1	2448.0	2506.0	2322.1
32.5°	3214.6	3186.0	3075.5	2919.4	2728.5	2661.3	2614.2	2556.2	2608.0	2705.4	2478.2
35°	3433.3	3407.8	3280.3	3096.4	2918.6	2863.0	2819.7	2769.5	2836.0	2972.0	2698.4
37.5°	3679.0	3651.2	3495.9	3296.5	3149.7	3109.5	3077.8	3027.6	3143.5	3342.9	3005.2
40°	3981.2	3934.0	3724.6	3526.0	3417.1	3397.7	3376.1	3369.1	3549.2	3825.1	3414.0
42.5°	4327.3	4250.1	3964.2	3767.9	3710.7	3724.6	3719.2	3750.1	4056.9	4424.7	3911.6
45°	4673.5	4573.8	4230.8	4026.0	4033.7	4082.4	4112.5	4236.2	4692.9	5112.4	4447.1
47.5°	4967.2	4869.0	4486.5	4304.9	4397.7	4493.5	4575.4	4809.5	5346.6	5789.4	4863.6
50°	5218.3	5125.6	4757.8	4611.7	4820.4	4974.9	5107.8	5454.8	6049.8	6304.8	5155.7
52.5°	5423.9	5362.0	5039.0	4963.3	5303.3	5529.7	5724.5	6140.2	6672.6	6723.6	5382.9
55°	5624.0	5580.0	5341.2	5381.4	5870.5	6178.8	6425.3	6867.3	7208.9	7072.9	5600.8
57.5°	5854.3	5814.1	5685.8	5911.5	6616.2	7004.1	7273.0	7511.8	7681.0	7429.9	5806.4
60°	6089.2	6066.0	6069.1	6500.3	7472.4	7844.9	7993.2	8055.0	8144.7	7766.0	5818.0
62.5°	6313.3	6357.3	6507.2	7155.6	8292.3	8578.2	8653.1	8714.2	8609.1	7819.4	5375.2
65°	6692.7	6764.6	7122.3	8032.6	9194.1	9500.1	9577.3	9367.9	8682.5	7130.1	4372.2
67.5°	6878.2	7009.5	7647.8	8850.2	10068.8	10408.8	10380.2	9410.4	7791.5	5437.0	2805.8
69°	6839.5	6979.4	7769.1	9100.6	10359.4	10667.7	10486.1	8890.4	6637.8	3938.7	1722.4
70°	6686.5	6827.9	7706.5	9091.3	10396.4	10640.6	10289.8	8248.2	5612.4	2880.0	1077.2
72.5°	5583.8	5705.9	6841.8	8217.3	9577.3	9378.7	8608.3	5714.4	2734.7	784.3	242.6
75°	3437.1	3505.1	4909.2	6190.4	7233.6	6723.6	5735.3	2842.9	815.2	221.8	134.5
77.5°	1815.9	1846.8	2687.6	3648.9	4585.4	3794.2	2939.5	1108.9	375.6	139.1	97.4
80°	1073.3	1096.5	1447.3	1668.3	1984.4	1657.5	1175.3	680.8	268.9	87.3	86.5
82.5°	614.3	629.0	1049.4	927.3	782.0	667.6	585.0	645.2	161.5	58.7	89.6
85°	225.6	228.7	590.4	705.5	465.2	276.6	290.6	534.7	43.3	37.1	70.3
87.5°	105.1	102.8	303.7	432.0	272.0	175.4	226.4	117.5	17.0	24.0	19.3
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°	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6	1939.6
2.5°	1916.4	1887.8	1836.0	1782.7	1728.6	1686.9	1645.9	1613.5	1602.7	1582.6	1584.1
5°	1857.7	1805.1	1696.9	1587.2	1472.8	1378.6	1289.7	1217.8	1183.1	1147.5	1147.5
7.5°	1806.7	1730.2	1560.9	1382.4	1197.7	1042.4	902.6	797.5	739.5	693.1	692.4
10°	1787.3	1683.8	1447.3	1191.6	934.2	722.5	556.4	449.7	394.9	359.3	357.8
12.5°	1795.8	1667.6	1360.0	1015.4	692.4	464.4	322.2	253.5	230.3	219.5	219.5
15°	1820.6	1662.9	1272.7	843.1	489.1	290.6	214.0	195.5	194.0	194.0	194.0
17.5°	1850.7	1664.5	1183.1	675.4	333.1	207.9	184.7	182.4	183.9	183.9	183.9
20°	1881.6	1665.3	1086.5	520.1	234.9	180.8	173.9	173.1	174.6	174.6	175.4
22.5°	1919.5	1669.1	989.9	388.7	194.0	170.8	165.4	165.4	166.1	166.1	165.4
25°	1962.8	1676.8	889.4	288.2	177.0	163.8	159.2	158.4	159.2	158.4	157.6
27.5°	2016.9	1687.7	777.4	225.6	169.2	156.9	153.0	153.0	152.2	151.5	150.7
30°	2084.9	1700.0	651.4	191.6	161.5	150.7	146.8	146.0	145.3	143.7	143.7
32.5°	2188.4	1727.1	527.0	173.9	153.0	142.2	139.1	139.1	137.5	136.0	135.2
35°	2347.6	1780.4	415.7	163.0	143.7	132.9	129.0	129.0	127.5	126.7	126.0
37.5°	2567.8	1861.5	323.0	153.0	134.5	122.9	119.0	118.2	116.7	115.1	114.4
40°	2860.7	1962.0	254.2	143.7	125.2	112.8	109.7	108.2	105.1	102.8	102.8
42.5°	3228.5	2076.4	206.3	133.7	114.4	103.5	101.2	98.9	93.5	91.2	90.4
45°	3613.3	2179.1	174.6	122.1	103.5	94.3	92.7	88.9	81.9	79.6	79.6
47.5°	3890.7	2203.1	153.8	111.3	93.5	84.2	83.5	76.5	70.3	68.8	68.0
50°	4063.8	2155.9	136.8	100.5	84.2	75.0	72.6	64.1	60.3	58.7	58.0
52.5°	4180.5	2071.7	122.9	91.2	75.7	66.5	61.0	54.9	51.8	50.2	50.2
55°	4274.0	1952.7	109.0	82.7	68.8	59.5	51.8	47.1	44.0	42.5	42.5
57.5°	4300.3	1791.2	95.0	75.7	61.8	52.5	44.0	41.0	37.1	36.3	36.3
60°	4109.4	1499.9	84.2	67.2	55.6	45.6	38.6	34.8	30.9	30.1	29.4
62.5°	3606.4	1160.7	74.2	59.5	48.7	39.4	33.2	28.6	25.5	25.5	25.5
65°	2751.0	778.1	64.9	51.8	42.5	33.2	28.6	23.2	21.6	21.6	22.4
67.5°	1646.7	423.5	55.6	44.0	36.3	27.8	24.0	20.1	19.3	20.1	20.1
69°	965.2	248.8	50.2	39.4	31.7	24.7	20.9	17.8	19.3	20.1	20.1
70°	595.8	167.7	46.4	35.5	28.6	22.4	19.3	17.0	18.5	19.3	19.3
72.5°	166.1	86.5	37.1	27.8	23.2	18.5	15.5	15.5	17.8	18.5	18.5
75°	108.2	64.1	28.6	20.9	17.8	14.7	13.1	14.7	17.0	17.8	17.8
77.5°	89.6	52.5	23.2	17.0	14.7	13.9	12.4	13.1	15.5	16.2	16.2
80°	81.9	37.1	18.5	15.5	13.1	12.4	11.6	10.8	13.9	14.7	14.7
82.5°	78.0	29.4	16.2	13.9	12.4	10.8	10.0	10.8	12.4	13.1	13.9
85°	48.7	19.3	14.7	13.1	10.8	10.0	10.0	10.0	11.6	12.4	12.4
87.5°	17.8	15.5	13.1	10.8	9.3	9.3	9.3	9.3	10.0	11.6	11.6
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)