

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: P191120

Luminaire Tested: **GLEON-AF-02-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191120  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8599.9 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 85  
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

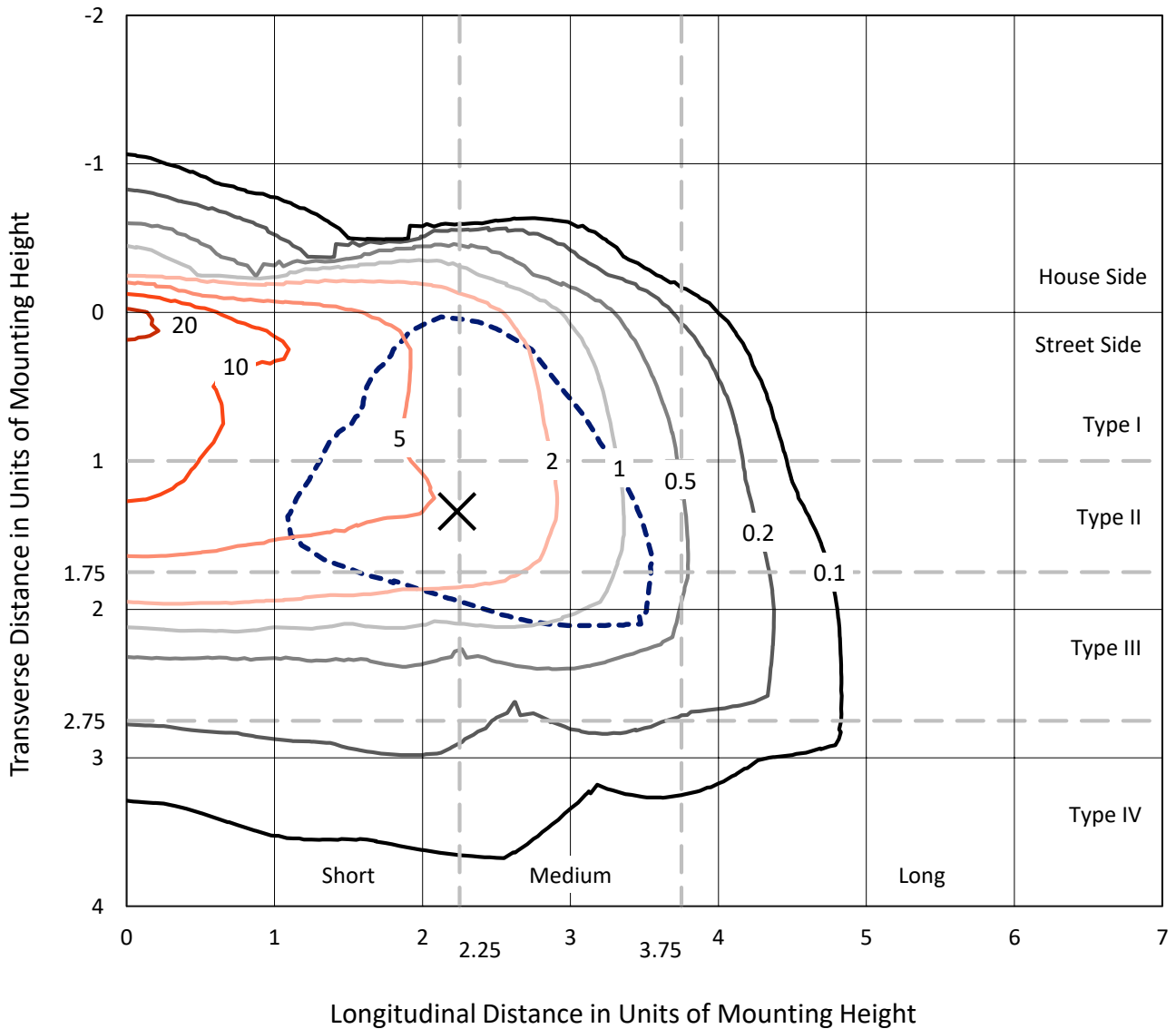


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### Iso-Footcandle Lines of Horizontal Illumination

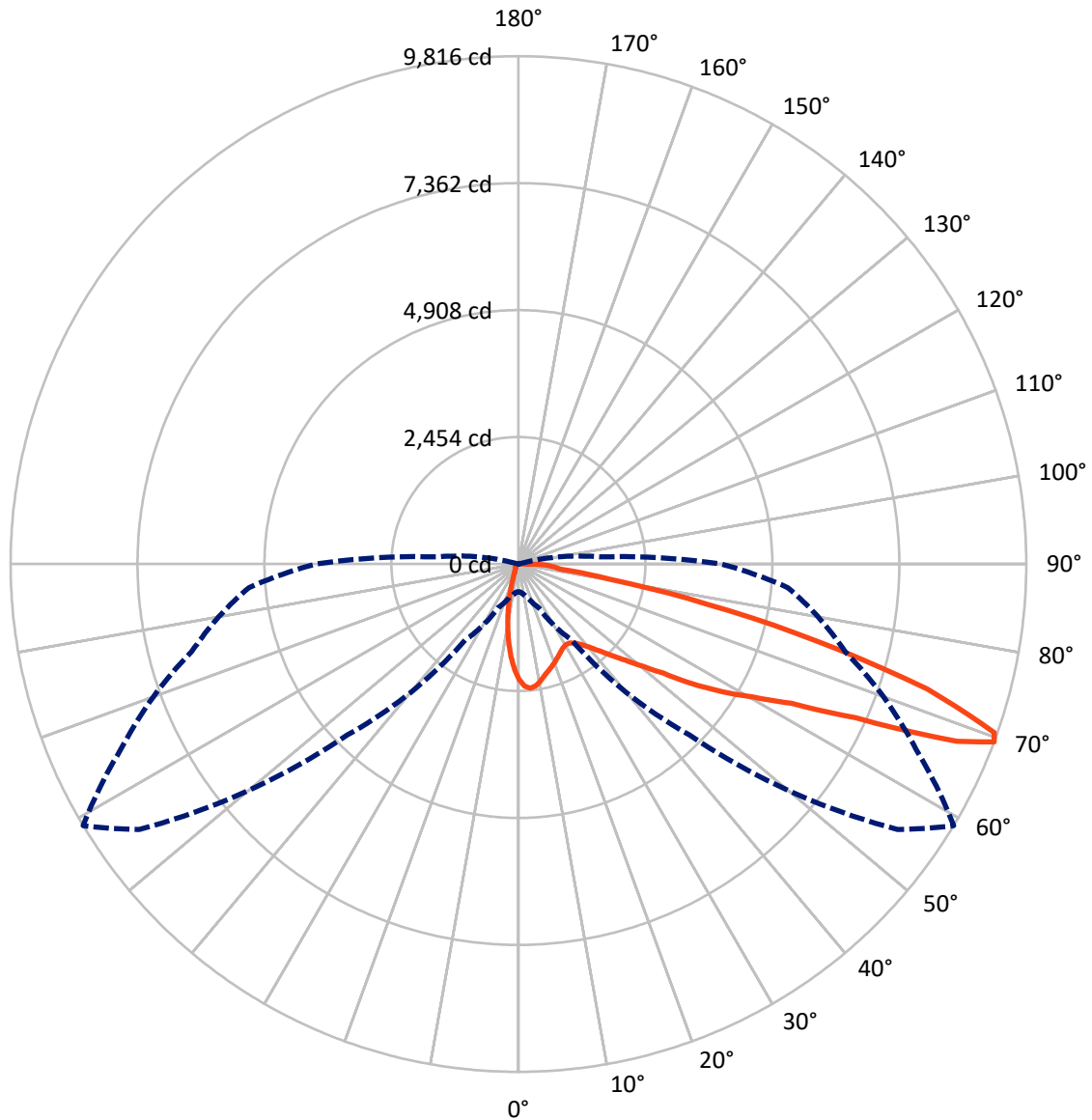
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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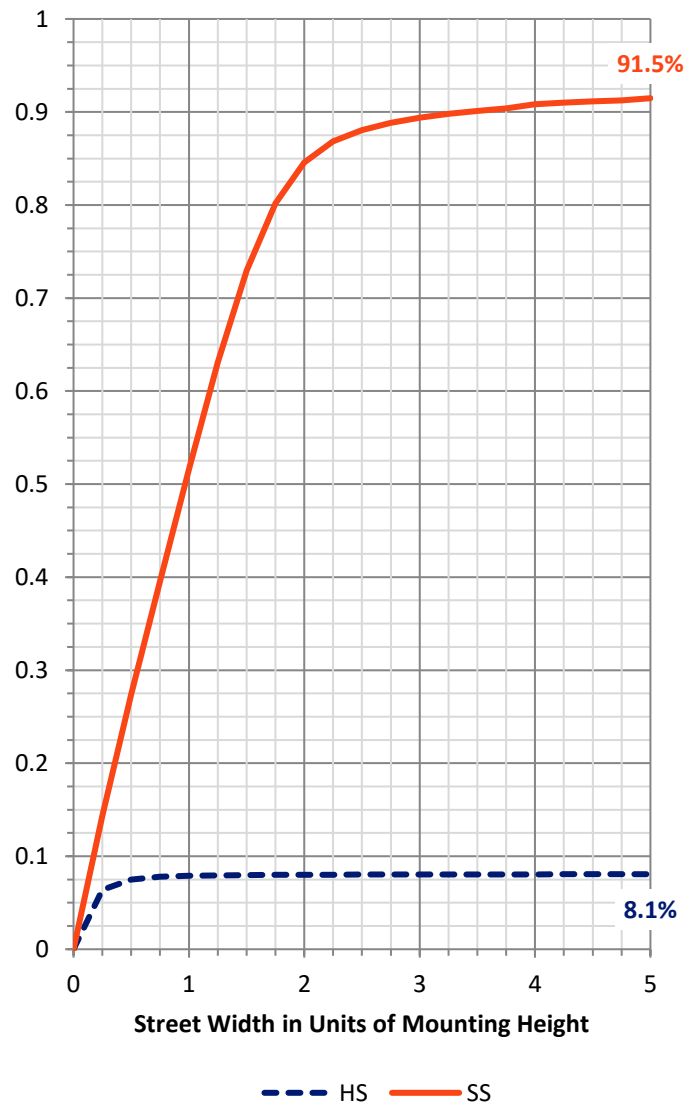
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	700.4	0.0	700.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	7899.6	0.0	7899.6
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	8599.9	0.0	8599.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.7	2.1
10°-20°	375.4	4.4
20°-30°	505.2	5.9
30°-40°	733.5	8.5
40°-50°	1221.3	14.2
50°-60°	1905.3	22.2
60°-70°	2357.6	27.4
70°-80°	1194.8	13.9
80°-90°	125.0	1.5
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°	8599.9	100.0
0°-180°	8599.9	100.0



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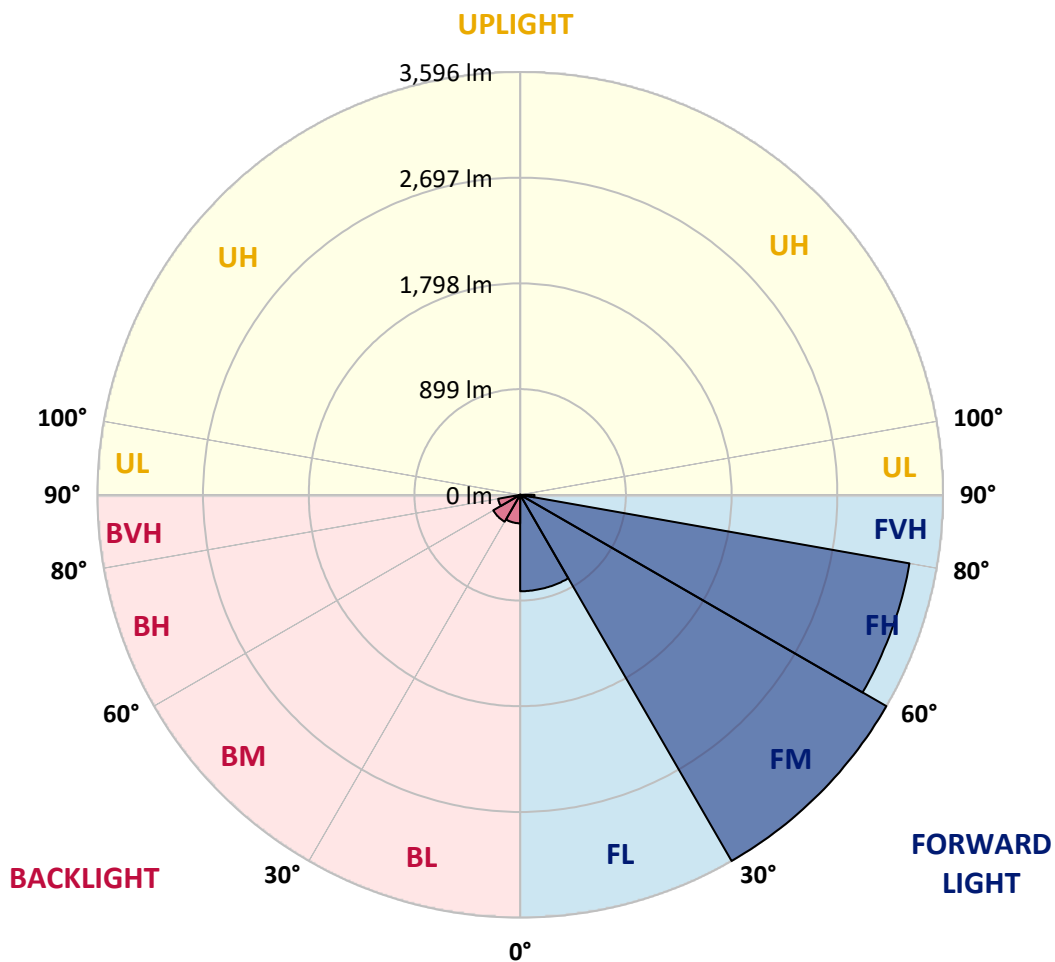
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	819.9	9.5			
FM (30°-60°)	3596.2	41.8			
FH (60°-80°)	3362.3	39.1			G2/5000
FVH (80°-90°)	121.2	1.4			G2/225
BL (0°-30°)	242.4	2.8	B1/500		
BM (30°-60°)	263.9	3.1	B1/1000		
BH (60°-80°)	190.2	2.2	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4
2.5°	2453.3	2452.4	2441.7	2436.9	2428.1	2409.7	2380.9	2365.9	2341.5	2299.2	2242.3
5°	2431.0	2442.7	2449.0	2449.5	2455.8	2449.0	2423.3	2410.6	2377.0	2309.0	2206.8
7.5°	2279.3	2283.6	2301.6	2317.2	2347.4	2376.1	2385.3	2380.0	2360.0	2287.1	2151.4
10°	2116.9	2121.3	2142.7	2163.0	2203.9	2248.1	2294.9	2304.6	2312.9	2255.9	2097.9
12.5°	1976.9	1981.1	2003.0	2029.8	2077.5	2131.9	2204.4	2220.4	2256.9	2226.2	2055.1
15°	1856.2	1858.2	1879.6	1912.6	1969.5	2039.6	2121.7	2147.5	2203.4	2205.4	2017.7
17.5°	1753.6	1758.5	1771.6	1803.3	1865.5	1952.0	2047.8	2084.8	2150.4	2187.9	1981.1
20°	1690.8	1695.7	1695.2	1712.7	1768.7	1861.1	1973.9	2018.2	2097.9	2169.9	1948.6
22.5°	1678.8	1678.8	1666.1	1663.6	1696.7	1774.0	1897.1	1951.1	2050.7	2162.1	1925.7
25°	1722.0	1720.1	1688.5	1662.7	1664.1	1710.4	1822.7	1886.8	2010.8	2167.4	1913.6
27.5°	1813.4	1811.0	1771.1	1722.0	1682.7	1682.1	1766.2	1835.3	1979.2	2192.7	1918.4
30°	1939.8	1938.9	1895.6	1833.8	1762.3	1696.7	1746.8	1809.5	1958.8	2238.4	1929.7
32.5°	2077.9	2076.5	2044.0	1978.8	1888.3	1762.3	1767.2	1819.7	1964.7	2299.2	1956.9
35°	2224.3	2222.0	2207.8	2151.0	2051.2	1883.5	1834.4	1875.2	2001.6	2390.1	2010.4
37.5°	2382.9	2385.3	2395.5	2341.0	2236.5	2053.2	1946.7	1974.4	2076.0	2513.7	2097.5
40°	2616.8	2616.3	2619.7	2548.3	2447.5	2260.8	2103.7	2112.5	2200.5	2677.6	2229.7
42.5°	3041.3	3011.7	2921.8	2775.8	2674.7	2498.1	2301.6	2292.4	2352.7	2880.3	2415.0
45°	3611.7	3548.5	3315.1	3035.5	2906.1	2765.5	2545.3	2515.6	2554.1	3124.0	2643.5
47.5°	4102.4	4036.8	3706.6	3305.9	3151.7	3019.4	2830.8	2777.3	2789.9	3396.8	2933.4
50°	4269.3	4237.2	3948.8	3541.3	3389.5	3338.9	3161.9	3096.8	3078.8	3712.4	3269.5
52.5°	4211.4	4208.9	4016.8	3694.0	3607.4	3669.6	3578.7	3503.3	3437.2	4045.1	3611.3
55°	4118.5	4130.7	4044.5	3827.7	3824.8	3971.6	4148.7	4085.9	3894.3	4406.4	3905.9
57.5°	3862.3	3914.2	4029.0	4080.6	4200.2	4350.5	4623.2	4660.3	4433.6	4683.1	4150.6
60°	3133.7	3248.0	3623.4	4117.1	4684.1	5058.5	5196.2	5227.8	4876.1	4913.1	4480.8
62.5°	2224.3	2341.0	2817.1	3652.1	4691.4	5988.8	6049.6	5925.5	5363.4	5254.0	5050.2
65°	1180.7	1270.7	1659.7	2636.2	4067.5	6204.7	7542.0	7172.4	6223.2	5924.6	5786.0
67.5°	604.0	631.3	785.8	1290.1	2796.2	5511.2	8879.8	9140.1	7705.0	6589.8	5750.5
69°	534.5	550.4	653.2	932.7	1790.6	4668.0	8945.0	9815.5	8480.6	6534.4	5225.8
70°	517.4	531.5	624.9	844.2	1399.6	3914.7	8695.6	9756.2	8679.0	6323.4	4833.9
72.5°	439.2	451.3	556.3	746.0	1137.4	1943.3	7063.6	8267.2	7788.1	5267.6	3498.9
75°	293.7	333.6	534.0	699.3	1058.2	1103.9	4656.8	5974.2	5549.7	3552.9	1822.7
77.5°	70.5	75.9	150.8	556.3	967.7	971.6	2395.0	3713.9	3029.2	1266.3	430.9
80°	38.0	36.5	42.4	110.4	901.1	911.9	1078.1	1802.7	1081.6	210.1	142.0
82.5°	26.7	25.3	27.2	46.2	283.6	830.6	780.0	816.0	448.4	80.7	63.7
85°	9.7	9.2	15.0	41.8	89.0	477.5	801.4	673.0	363.2	36.9	46.6
87.5°	3.4	3.0	5.8	22.8	27.2	203.3	494.6	508.7	143.0	22.4	21.9
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°	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4
2.5°	2218.5	2188.4	2133.0	2076.0	2023.5	1960.3	1928.7	1897.6	1884.4	1879.6	1856.7
5°	2154.3	2103.3	1985.5	1867.4	1758.5	1642.8	1566.3	1505.1	1469.2	1451.6	1423.8
7.5°	2072.1	1988.5	1810.0	1627.6	1457.9	1290.7	1166.7	1071.3	1005.7	974.1	945.4
10°	1992.4	1881.0	1627.2	1378.6	1148.2	926.4	755.2	631.3	552.0	515.5	492.1
12.5°	1920.9	1776.5	1450.6	1136.0	846.7	587.0	412.9	314.1	265.0	248.0	239.8
15°	1857.2	1680.2	1283.8	905.5	573.4	335.5	225.7	192.1	184.3	184.3	183.3
17.5°	1796.9	1585.9	1122.9	689.1	359.9	205.2	171.7	167.3	167.3	169.2	169.2
20°	1739.0	1495.9	967.3	494.6	226.6	163.0	155.1	154.2	155.1	157.5	157.5
22.5°	1689.4	1414.1	821.8	339.4	168.3	146.9	143.0	141.5	142.0	143.4	144.4
25°	1652.5	1345.1	684.8	230.1	145.0	133.7	129.4	126.9	125.0	125.0	125.9
27.5°	1629.2	1286.8	552.0	167.3	130.3	121.5	114.8	110.9	106.5	104.0	105.1
30°	1612.1	1231.3	427.5	136.7	116.7	107.9	99.2	92.9	86.5	83.7	84.6
32.5°	1605.7	1186.6	319.5	120.6	104.5	94.8	84.1	75.9	69.0	66.6	67.1
35°	1622.8	1151.1	233.9	108.9	94.8	82.7	70.5	61.3	56.0	54.4	54.9
37.5°	1667.5	1132.1	175.0	99.2	86.0	72.4	58.8	50.1	46.6	46.6	47.2
40°	1752.1	1131.6	140.6	92.4	78.3	62.7	48.6	42.4	40.4	41.3	41.8
42.5°	1875.7	1157.4	122.5	86.0	71.5	53.5	40.4	36.0	35.5	36.5	36.9
45°	2044.4	1204.5	112.8	80.7	64.2	44.7	34.1	31.1	31.1	32.6	33.0
47.5°	2251.1	1273.6	104.5	75.4	56.9	37.4	29.2	27.2	27.7	29.2	29.7
50°	2500.1	1360.6	96.3	69.6	51.6	31.1	25.3	23.8	24.3	26.3	26.7
52.5°	2783.6	1477.9	89.5	64.2	44.7	25.8	21.4	20.5	21.4	23.3	23.8
55°	3026.7	1582.9	81.2	59.8	36.0	21.4	17.5	17.5	18.5	20.9	21.4
57.5°	3260.7	1692.8	74.0	51.6	28.2	17.0	14.6	15.0	16.6	18.9	19.4
60°	3604.0	1879.1	65.2	43.3	21.4	13.6	12.2	12.7	14.6	17.0	17.5
62.5°	4187.0	2162.6	56.4	36.0	16.6	10.7	9.7	10.7	13.1	16.1	16.6
65°	4713.2	2277.8	46.2	30.2	12.7	8.3	8.3	9.7	12.7	15.5	16.1
67.5°	4420.0	1917.5	36.0	23.8	9.7	6.3	6.9	9.2	12.2	15.5	16.1
69°	3908.9	1567.9	30.6	18.9	8.3	5.8	6.3	9.2	12.2	15.0	15.5
70°	3510.6	1323.7	27.2	16.1	7.3	5.8	6.3	8.8	12.2	15.0	15.5
72.5°	2351.3	714.8	21.9	11.7	6.9	5.3	5.3	8.8	11.7	14.6	15.0
75°	1010.6	197.4	17.5	8.3	5.8	4.9	4.9	8.3	11.2	14.1	15.0
77.5°	184.7	50.1	14.1	7.3	5.8	4.9	4.4	7.8	10.7	13.6	14.1
80°	73.4	24.8	11.2	6.3	5.3	4.4	3.9	7.3	10.2	13.1	13.6
82.5°	44.3	14.1	9.2	5.8	5.3	3.9	3.4	6.3	9.7	12.7	13.1
85°	36.0	9.7	7.3	5.8	4.9	3.9	3.0	5.8	8.8	12.2	12.7
87.5°	17.5	6.9	6.9	5.3	4.9	3.9	3.0	5.3	8.3	11.7	12.2
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)