

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: P269245

Luminaire Tested: **GLEON-AF-04-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269245
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-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 13678.9 lumens
Efficiency: N/A
Efficacy: 80.0 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

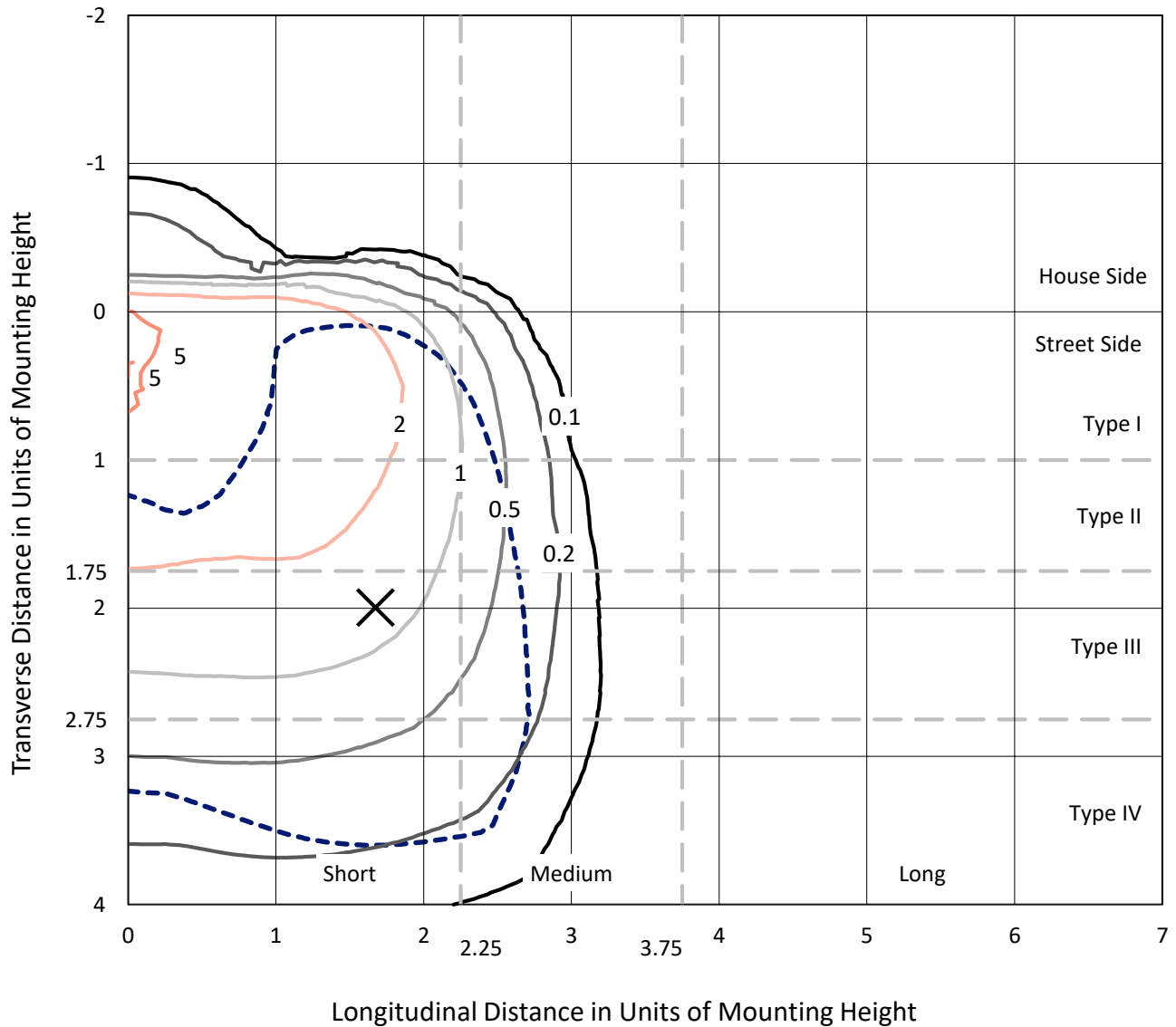


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

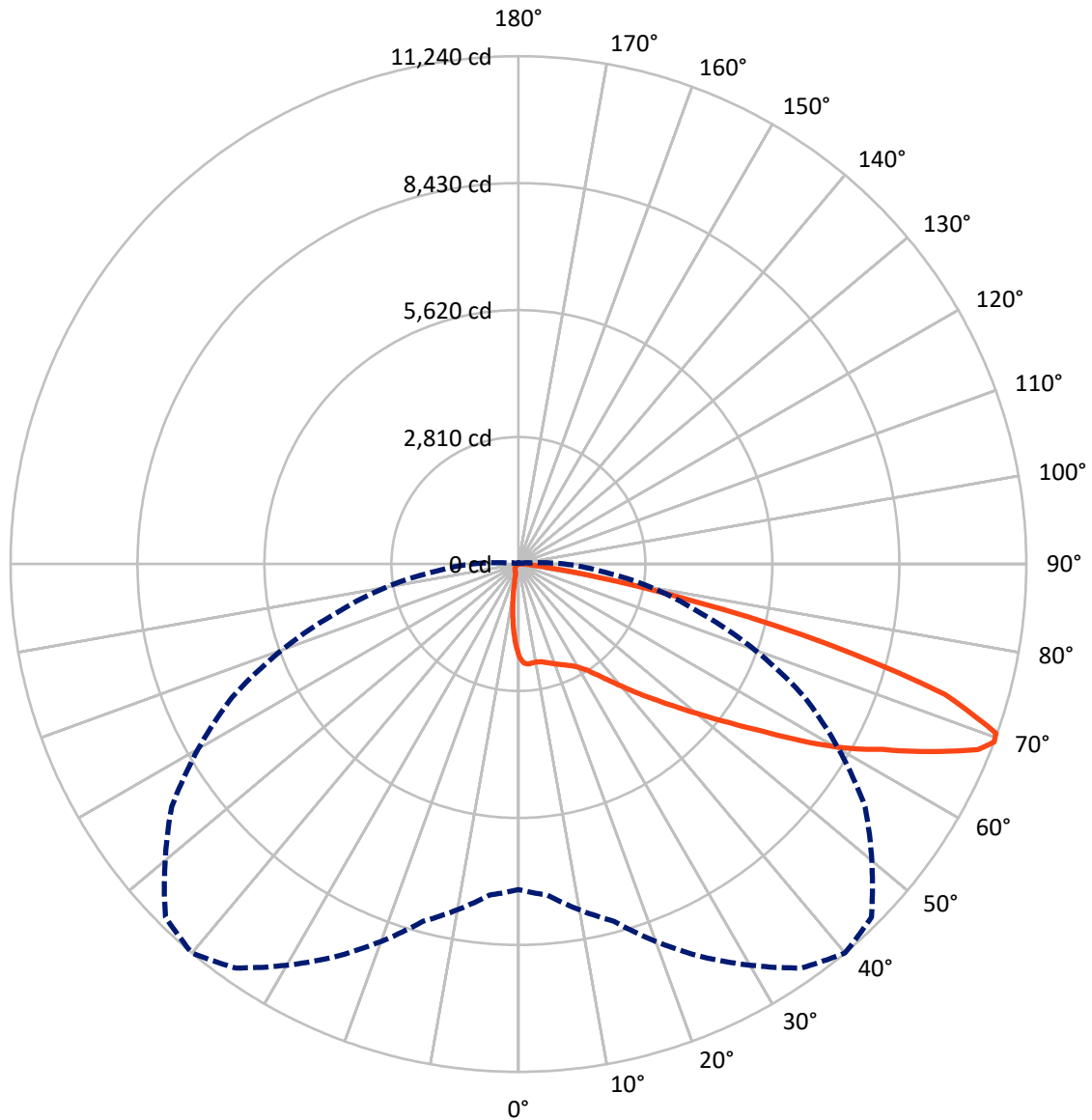


Based on 20 foot mounting height. Maximum calculated value = 5.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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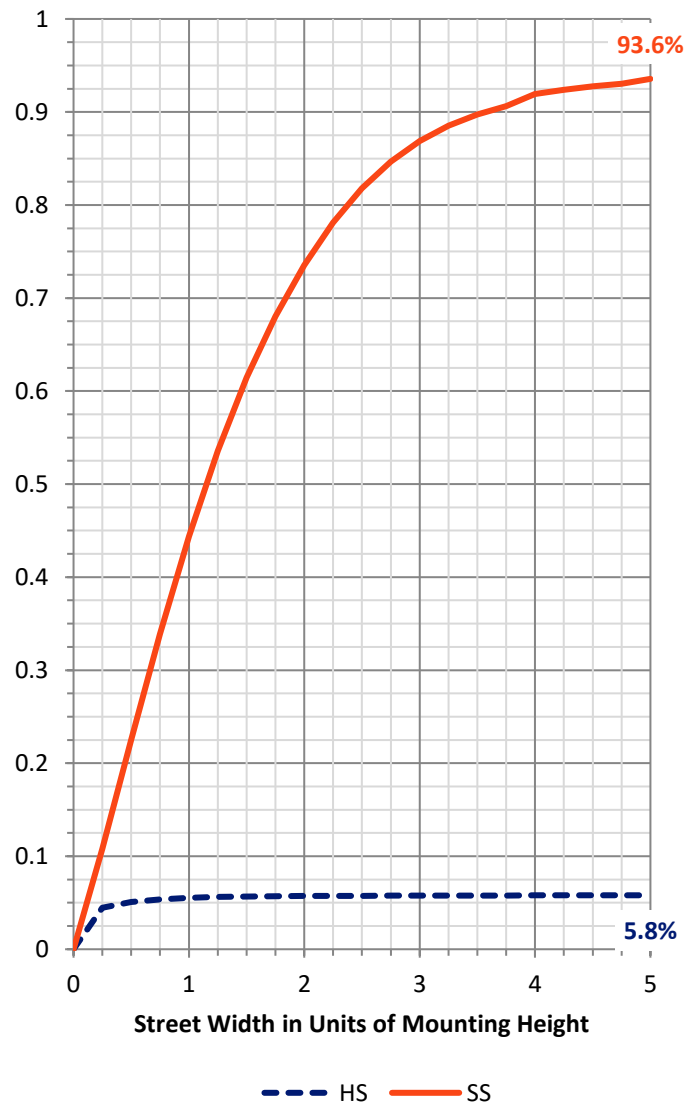
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	800.3	0.0	800.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	12878.6	0.0	12878.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	13678.9	0.0	13678.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	1.2
10°-20°	407.5	3.0
20°-30°	686.4	5.0
30°-40°	1123.6	8.2
40°-50°	1945.5	14.2
50°-60°	3064.3	22.4
60°-70°	4001.9	29.3
70°-80°	2061.1	15.1
80°-90°	222.9	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°	13678.9	100.0
0°-180°	13678.9	100.0

Coefficient of Utilization



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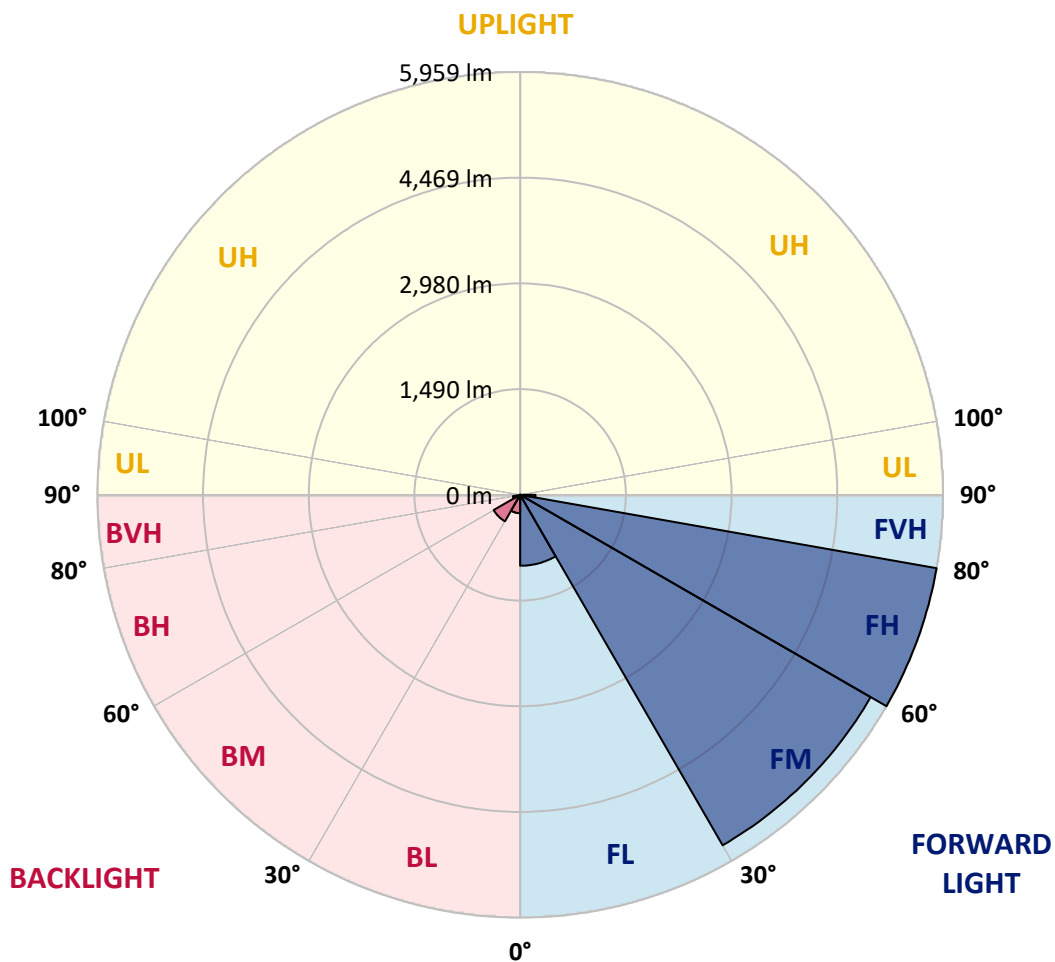
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1000.3	7.3			
FM	(30°-60°)	5703.2	41.7			
FH	(60°-80°)	5959.1	43.6			G3/7500
FVH	(80°-90°)	215.9	1.6			G2/225
BL	(0°-30°)	259.2	1.9	B1/500		
BM	(30°-60°)	430.1	3.1	B1/1000		
BH	(60°-80°)	103.9	0.8	B0/110		G0/110
BVH	(80°-90°)	7.0	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°	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7
2.5°	2244.0	2231.7	2224.5	2214.7	2202.5	2191.9	2187.8	2157.6	2129.3	2090.0	2045.4
5°	2285.5	2281.4	2268.4	2255.5	2240.7	2224.5	2215.5	2179.6	2139.0	2081.9	2003.8
7.5°	2289.6	2284.7	2268.4	2250.6	2230.1	2210.5	2195.2	2159.3	2121.8	2064.0	1968.7
10°	2283.1	2277.5	2265.2	2245.7	2220.4	2201.7	2186.1	2152.0	2120.2	2068.1	1962.3
12.5°	2275.8	2270.0	2264.4	2254.6	2232.6	2219.5	2206.5	2174.0	2145.5	2101.6	1986.0
15°	2283.1	2279.8	2286.4	2282.2	2270.0	2258.7	2245.7	2216.3	2190.2	2153.6	2029.0
17.5°	2314.0	2314.0	2334.3	2336.9	2325.4	2309.2	2290.4	2261.2	2239.1	2208.2	2080.4
20°	2386.4	2384.0	2410.2	2415.1	2387.2	2362.1	2334.3	2298.6	2281.4	2261.9	2130.8
22.5°	2511.0	2499.7	2515.2	2510.3	2455.6	2416.6	2382.5	2338.5	2329.5	2320.5	2187.1
25°	2673.0	2666.6	2677.2	2629.1	2533.0	2480.1	2439.3	2389.8	2389.8	2398.7	2250.6
27.5°	2908.4	2884.0	2848.2	2763.5	2619.4	2551.7	2507.8	2454.9	2468.7	2502.0	2334.3
30°	3149.4	3122.6	3040.4	2910.0	2724.4	2653.6	2602.3	2546.9	2579.5	2640.5	2446.8
32.5°	3387.1	3357.1	3240.6	3076.2	2875.0	2804.1	2754.6	2693.5	2748.1	2850.6	2611.3
35°	3617.6	3590.7	3456.4	3262.6	3075.3	3016.7	2971.1	2918.1	2988.2	3131.5	2843.2
37.5°	3876.5	3847.3	3683.5	3473.4	3318.8	3276.5	3243.1	3190.2	3312.3	3522.3	3166.5
40°	4194.8	4145.1	3924.5	3715.3	3600.4	3580.1	3557.4	3550.0	3739.7	4030.3	3597.3
42.5°	4559.6	4478.2	4176.9	3970.1	3910.0	3924.5	3918.9	3951.5	4274.7	4662.3	4121.7
45°	4924.4	4819.3	4457.8	4242.1	4250.2	4301.5	4333.3	4463.6	4944.8	5386.9	4685.9
47.5°	5233.9	5130.4	4727.4	4536.0	4633.7	4734.6	4821.1	5067.7	5633.6	6100.2	5124.7
50°	5498.4	5400.7	5013.3	4859.3	5079.1	5242.0	5382.0	5747.5	6374.6	6643.2	5432.5
52.5°	5715.0	5649.9	5309.5	5229.8	5587.9	5826.5	6031.8	6469.9	7030.9	7084.6	5671.9
55°	5925.8	5879.4	5627.9	5670.2	6185.6	6510.6	6770.3	7235.9	7595.9	7452.6	5901.4
57.5°	6168.5	6126.3	5991.1	6228.8	6971.3	7380.1	7663.5	7915.1	8093.4	7828.8	6118.0
60°	6416.1	6391.6	6394.9	6849.2	7873.6	8266.1	8422.2	8487.5	8581.9	8182.9	6130.3
62.5°	6652.2	6698.7	6856.6	7539.7	8737.5	9038.7	9117.6	9181.9	9071.3	8239.2	5663.8
65°	7052.0	7127.7	7504.7	8463.8	9687.6	10010.1	10091.5	9870.8	9148.6	7512.9	4606.9
67.5°	7247.3	7385.9	8058.3	9325.2	10609.3	10967.5	10937.5	9915.6	8209.8	5728.9	2956.4
69°	7206.7	7354.1	8186.3	9589.0	10915.5	11240.3	11049.1	9367.6	6994.2	4150.1	1814.8
70°	7045.4	7194.4	8120.3	9579.3	10954.6	11211.8	10842.3	8691.0	5913.7	3034.7	1135.0
72.5°	5883.5	6012.3	7209.1	8658.5	10091.5	9882.3	9070.5	6021.2	2881.6	826.4	255.7
75°	3621.6	3693.3	5172.8	6522.8	7621.8	7084.6	6043.2	2995.5	859.0	233.6	141.7
77.5°	1913.4	1946.0	2831.8	3844.7	4831.7	3997.8	3097.3	1168.4	395.8	146.6	102.5
80°	1131.0	1155.4	1525.1	1758.0	2091.0	1746.6	1238.5	717.3	283.3	91.9	91.2
82.5°	647.3	662.8	1105.8	977.0	823.9	703.6	616.3	679.8	170.1	61.9	94.4
85°	237.7	241.0	622.0	743.3	490.1	291.5	306.1	563.4	45.6	39.0	74.1
87.5°	110.8	108.2	319.9	455.1	286.6	184.8	238.6	123.7	18.0	25.2	20.3
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°	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7	2043.7
2.5°	2019.3	1989.1	1934.6	1878.4	1821.5	1777.4	1734.3	1700.1	1688.8	1667.6	1669.2
5°	1957.3	1902.0	1788.0	1672.5	1551.9	1452.6	1359.0	1283.1	1246.6	1209.1	1209.1
7.5°	1903.7	1823.0	1644.7	1456.6	1262.1	1098.4	951.0	840.3	779.2	730.3	729.6
10°	1883.2	1774.2	1525.1	1255.6	984.5	761.4	586.2	473.9	416.1	378.6	377.0
12.5°	1892.3	1757.1	1433.1	1069.9	729.6	489.3	339.5	267.1	242.6	231.3	231.3
15°	1918.3	1752.2	1341.0	888.3	515.4	306.1	225.6	206.0	204.4	204.4	204.4
17.5°	1950.1	1753.9	1246.6	711.6	351.0	219.0	194.7	192.1	193.8	193.8	193.8
20°	1982.6	1754.7	1144.8	548.0	247.6	190.5	183.3	182.4	184.1	184.1	184.8
22.5°	2022.5	1758.7	1043.0	409.5	204.4	179.9	174.2	174.2	175.1	175.1	174.2
25°	2068.1	1766.8	937.2	303.6	186.5	172.7	167.8	166.9	167.8	166.9	166.0
27.5°	2125.1	1778.3	819.2	237.7	178.4	165.3	161.2	161.2	160.3	159.5	158.8
30°	2196.7	1791.3	686.3	201.8	170.1	158.8	154.7	153.9	153.2	151.5	151.5
32.5°	2305.9	1819.7	555.3	183.3	161.2	149.7	146.6	146.6	144.9	143.3	142.6
35°	2473.7	1876.0	438.1	171.8	151.5	140.0	136.0	136.0	134.3	133.6	132.7
37.5°	2705.7	1961.4	340.4	161.2	141.7	129.4	125.5	124.5	123.0	121.4	120.6
40°	3014.3	2067.3	267.9	151.5	132.0	118.8	115.6	113.9	110.8	108.2	108.2
42.5°	3401.8	2187.8	217.4	140.9	120.6	109.1	106.7	104.3	98.5	96.1	95.3
45°	3807.2	2296.1	184.1	128.6	109.1	99.4	97.7	93.7	86.2	83.8	83.8
47.5°	4099.7	2321.3	162.1	117.3	98.5	88.8	87.9	80.6	74.1	72.5	71.7
50°	4282.0	2271.6	144.1	105.8	88.8	79.1	76.5	67.6	63.5	61.9	61.1
52.5°	4405.0	2182.9	129.4	96.1	79.8	70.0	64.3	57.9	54.5	52.9	52.9
55°	4503.5	2057.6	114.9	87.1	72.5	62.7	54.5	49.6	46.4	44.7	44.7
57.5°	4531.1	1887.3	100.2	79.8	65.1	55.3	46.4	43.2	39.0	38.3	38.3
60°	4330.0	1580.4	88.8	70.8	58.6	48.0	40.8	36.7	32.6	31.8	30.9
62.5°	3800.0	1223.0	78.2	62.7	51.4	41.5	35.0	30.2	26.9	26.9	26.9
65°	2898.7	820.0	68.5	54.5	44.7	35.0	30.2	24.4	22.7	22.7	23.6
67.5°	1735.0	446.2	58.6	46.4	38.3	29.4	25.2	21.2	20.3	21.2	21.2
69°	1017.1	262.1	52.9	41.5	33.3	26.1	22.0	18.8	20.3	21.2	21.2
70°	627.7	176.6	48.9	37.5	30.2	23.6	20.3	18.0	19.6	20.3	20.3
72.5°	175.1	91.2	39.0	29.4	24.4	19.6	16.3	16.3	18.8	19.6	19.6
75°	113.9	67.6	30.2	22.0	18.8	15.5	13.8	15.5	18.0	18.8	18.8
77.5°	94.4	55.3	24.4	18.0	15.5	14.6	13.0	13.8	16.3	17.1	17.1
80°	86.2	39.0	19.6	16.3	13.8	13.0	12.1	11.4	14.6	15.5	15.5
82.5°	82.3	30.9	17.1	14.6	13.0	11.4	10.6	11.4	13.0	13.8	14.6
85°	51.4	20.3	15.5	13.8	11.4	10.6	10.6	10.6	12.1	13.0	13.0
87.5°	18.8	16.3	13.8	11.4	9.8	9.8	9.8	9.8	10.6	12.1	12.1
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)