

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: P191143

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191143
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-05-LED-E1-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1200mA 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: 28520.9 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

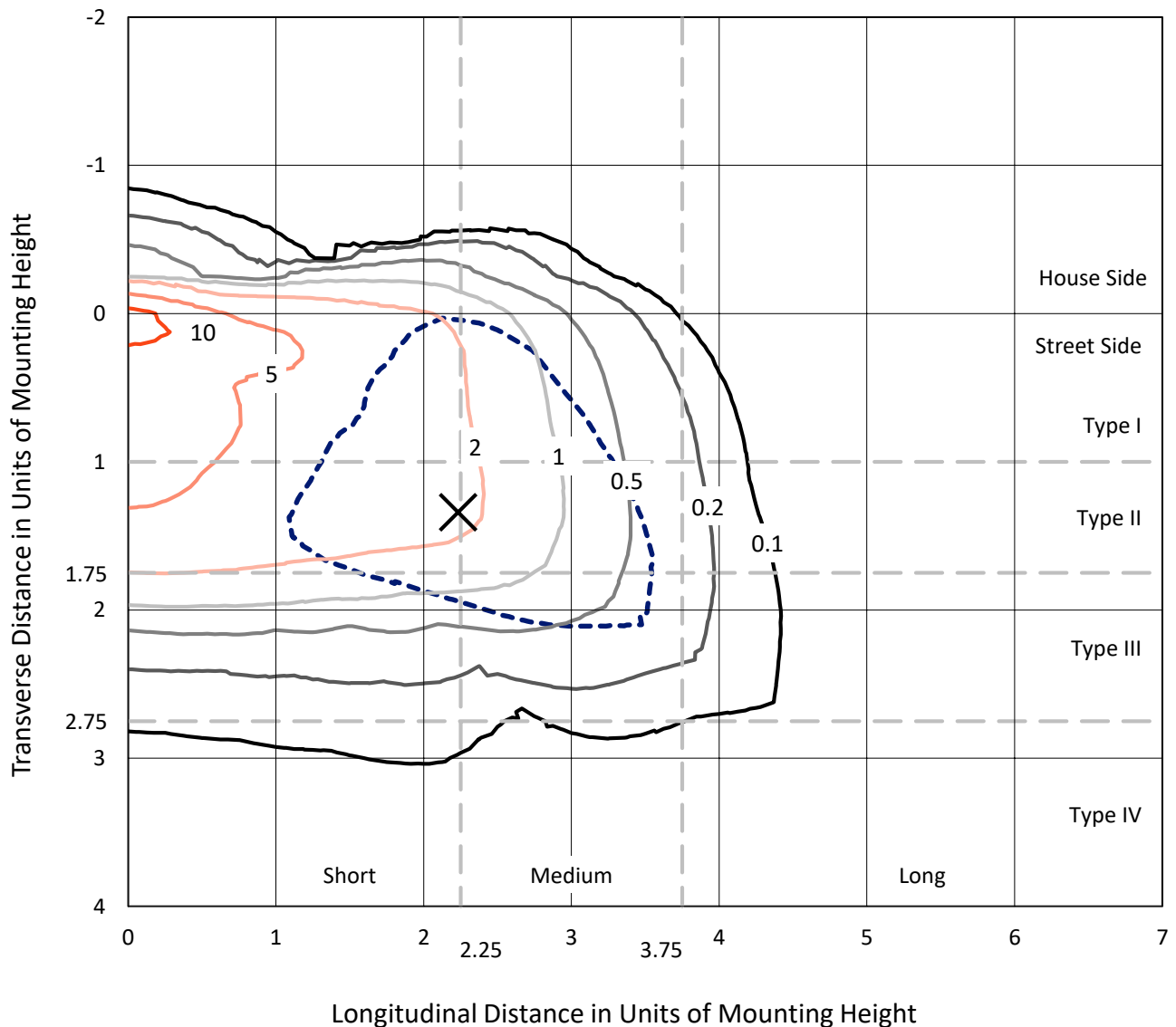
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

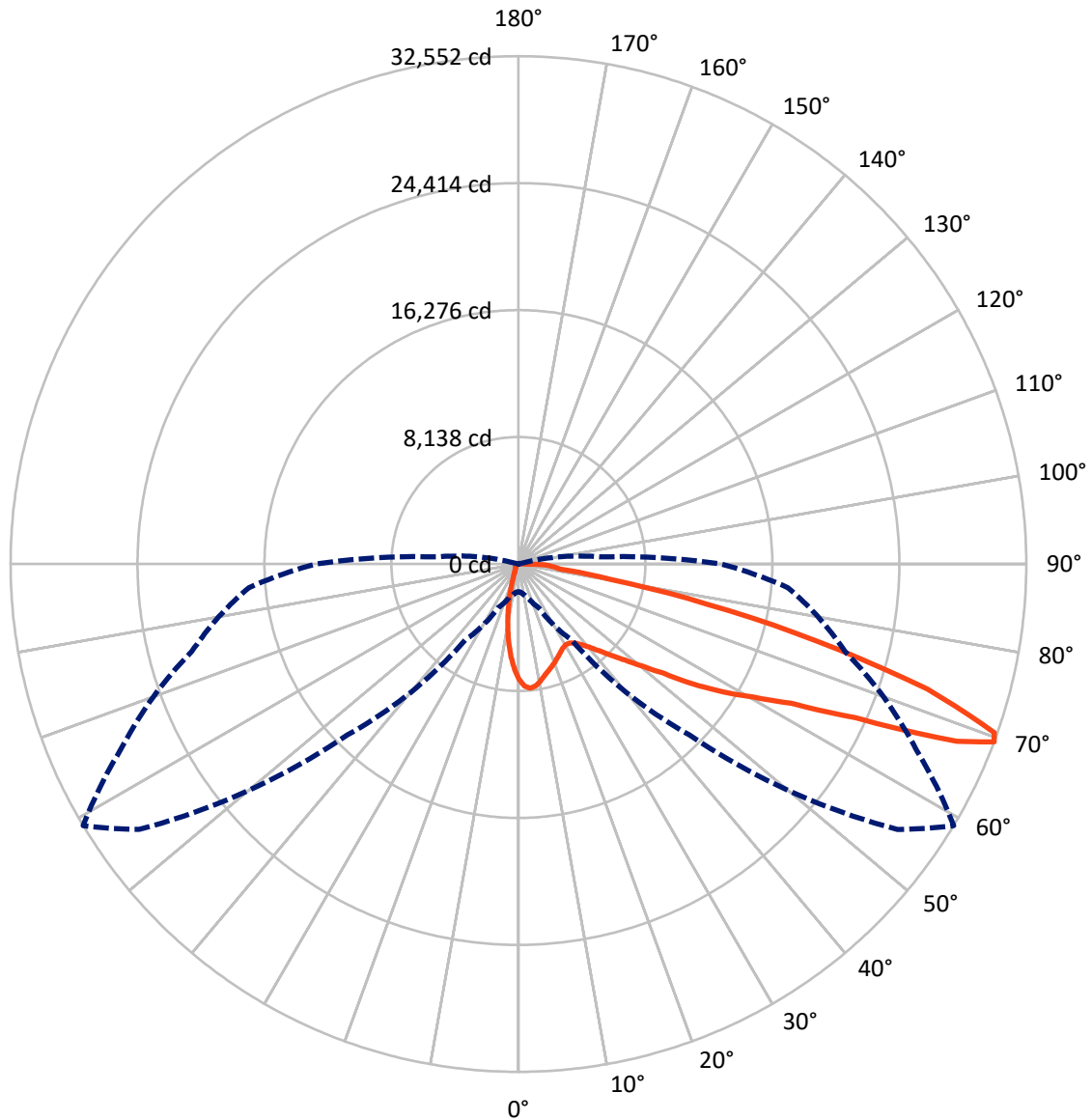
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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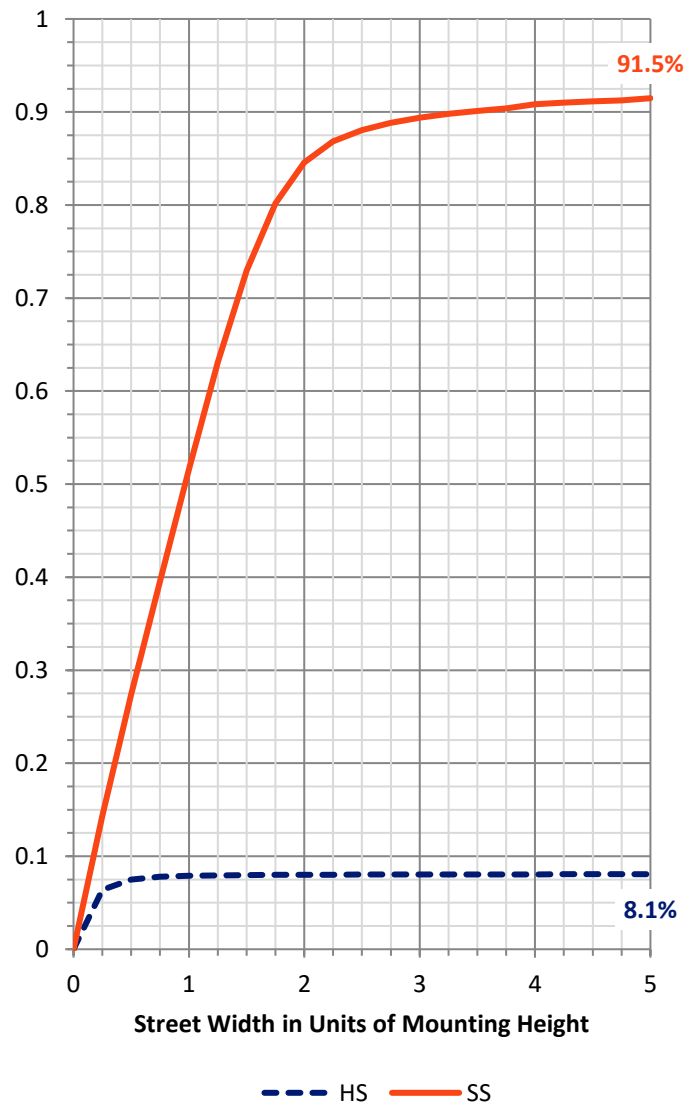
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2322.6	0.0	2322.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	26198.2	0.0	26198.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	28520.9	0.0	28520.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.6	2.1
10°-20°	1245.1	4.4
20°-30°	1675.4	5.9
30°-40°	2432.6	8.5
40°-50°	4050.5	14.2
50°-60°	6318.7	22.2
60°-70°	7818.9	27.4
70°-80°	3962.5	13.9
80°-90°	414.6	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°	28520.9	100.0
0°-180°	28520.9	100.0



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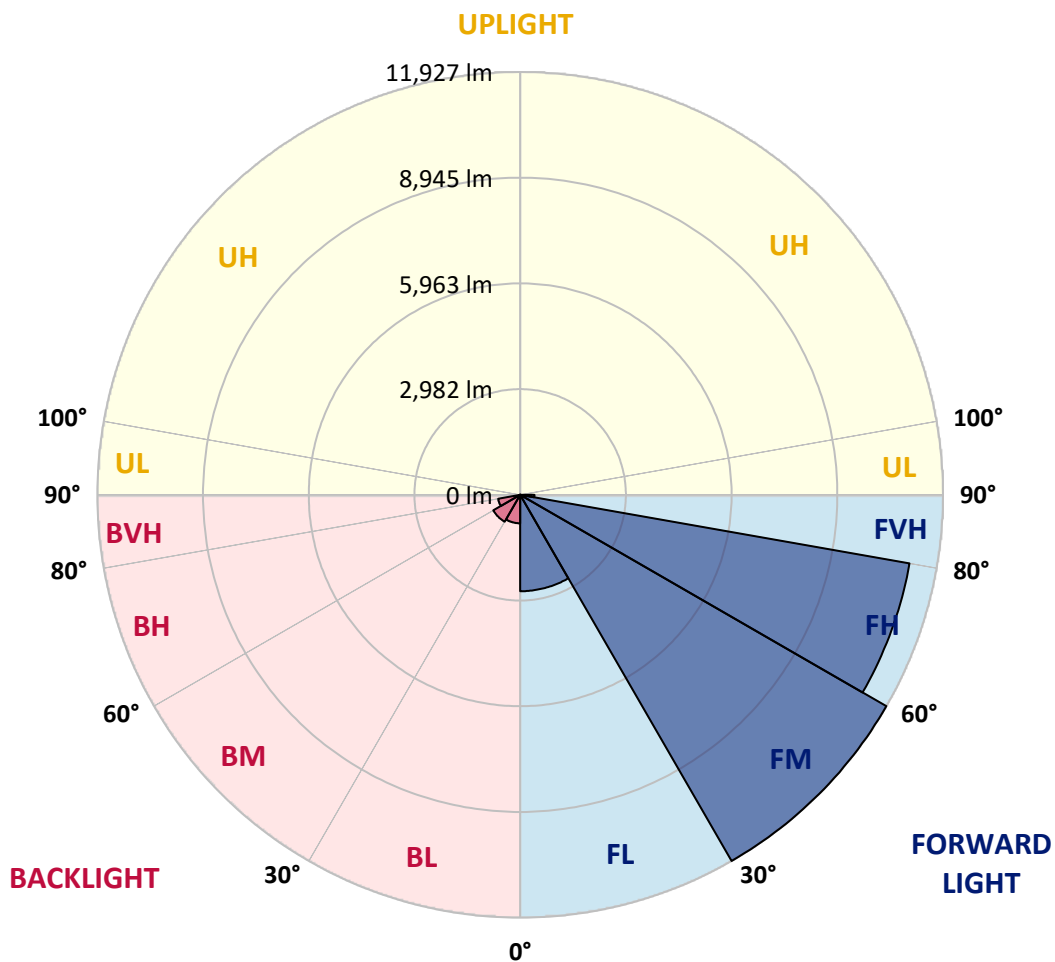
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2719.2	9.5			
FM	(30°-60°)	11926.6	41.8			
FH	(60°-80°)	11150.6	39.1			G4/12000
FVH	(80°-90°)	401.9	1.4			G3/500
BL	(0°-30°)	803.9	2.8	B2/1000		
BM	(30°-60°)	875.2	3.1	B1/1000		
BH	(60°-80°)	630.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	12.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6
2.5°	8136.4	8133.2	8097.8	8081.6	8052.6	7991.3	7896.2	7846.1	7765.5	7625.2	7436.5
5°	8062.3	8101.0	8121.9	8123.6	8144.5	8121.9	8036.4	7994.6	7883.3	7657.4	7318.8
7.5°	7559.1	7573.6	7633.3	7684.8	7784.9	7880.0	7910.7	7892.9	7826.8	7584.9	7134.9
10°	7020.4	7034.9	7105.9	7173.6	7309.1	7455.9	7610.7	7643.0	7670.4	7481.7	6957.5
12.5°	6555.9	6570.4	6643.0	6731.7	6889.8	7070.4	7310.7	7363.9	7484.8	7383.2	6815.6
15°	6155.9	6162.4	6233.4	6343.0	6531.7	6764.0	7036.6	7122.0	7307.4	7313.9	6691.4
17.5°	5815.7	5831.7	5875.3	5980.2	6186.6	6473.6	6791.4	6913.9	7131.7	7255.9	6570.4
20°	5607.6	5623.8	5622.1	5680.1	5865.7	6172.1	6546.3	6693.0	6957.5	7196.2	6462.4
22.5°	5567.3	5567.3	5525.4	5517.3	5626.9	5883.4	6291.5	6470.5	6801.1	7170.4	6386.6
25°	5710.8	5704.4	5599.5	5514.1	5518.9	5672.2	6044.7	6257.6	6668.8	7188.2	6346.3
27.5°	6014.0	6005.9	5873.7	5710.8	5580.2	5578.6	5857.6	6086.6	6564.0	7272.0	6362.3
30°	6433.3	6430.2	6286.5	6081.7	5844.7	5626.9	5793.1	6001.1	6496.2	7423.6	6399.5
32.5°	6891.4	6886.5	6778.5	6562.3	6262.4	5844.7	5860.8	6035.0	6515.6	7625.2	6489.8
35°	7376.8	7368.7	7322.0	7133.3	6802.7	6246.2	6083.4	6218.8	6638.1	7926.7	6667.2
37.5°	7902.6	7910.7	7944.5	7763.9	7417.1	6809.2	6455.9	6547.9	6885.0	8336.4	6955.9
40°	8678.3	8676.7	8688.0	8450.9	8117.1	7497.8	6976.8	7005.9	7297.8	8879.9	7394.6
42.5°	10086.3	9987.9	9689.5	9205.7	8870.2	8284.8	7633.3	7602.6	7802.6	9552.4	8009.0
45°	11978.0	11768.4	10994.3	10067.0	9637.9	9171.9	8441.3	8342.9	8470.2	10360.4	8767.0
47.5°	13605.3	13387.7	12292.6	10963.7	10452.4	10013.7	9387.9	9210.5	9252.5	11265.2	9728.3
50°	14158.6	14052.1	13095.7	11744.2	11241.0	11073.3	10486.3	10270.1	10210.5	12311.9	10842.7
52.5°	13966.7	13958.6	13321.5	12250.7	11963.5	12169.9	11868.4	11618.4	11399.0	13415.1	11976.4
55°	13658.5	13698.8	13413.4	12694.1	12684.5	13171.5	13758.6	13550.5	12915.1	14613.4	12953.8
57.5°	12808.7	12981.2	13361.8	13532.8	13929.5	14427.9	15332.6	15455.3	14703.7	15531.1	13765.0
60°	10392.7	10771.7	12016.8	13653.7	15534.2	16776.1	17232.5	17337.3	16171.3	16293.9	14860.1
62.5°	7376.8	7763.9	9342.8	12111.9	15558.5	19861.3	20062.9	19651.6	17787.3	17424.4	16748.7
65°	3915.9	4214.1	5504.4	8742.9	13489.2	20577.4	25012.5	23786.8	20638.6	19648.4	19188.8
67.5°	2003.0	2093.4	2606.3	4278.7	9273.5	18277.6	29449.2	30312.1	25552.8	21854.7	19071.1
69°	1772.5	1825.7	2166.0	3093.3	5938.2	15481.0	29665.4	32552.2	28125.1	21670.8	17330.8
70°	1716.0	1762.7	2072.4	2799.8	4641.5	12982.8	28838.0	32355.4	28783.2	20970.9	16031.0
72.5°	1456.4	1496.7	1845.0	2474.0	3772.2	6444.6	23425.6	27417.1	25828.6	17469.5	11603.9
75°	974.2	1106.3	1770.8	2319.1	3509.4	3661.0	15443.9	19812.9	18404.9	11783.0	6044.7
77.5°	233.8	251.5	499.9	1845.0	3209.4	3222.3	7942.9	12316.7	10046.0	4199.6	1429.0
80°	125.8	120.9	140.3	366.1	2988.4	3023.9	3575.5	5978.5	3586.8	696.7	471.0
82.5°	88.7	83.9	90.3	153.2	940.3	2754.6	2586.8	2706.2	1487.0	267.7	211.2
85°	32.2	30.7	50.0	138.7	295.1	1583.7	2657.8	2232.1	1204.7	122.5	154.9
87.5°	11.3	9.7	19.3	75.8	90.3	674.1	1640.2	1686.9	474.1	74.2	72.5
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°	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6	7423.6
2.5°	7357.5	7257.5	7073.6	6885.0	6710.8	6501.1	6396.3	6293.0	6249.5	6233.4	6157.6
5°	7144.6	6975.2	6584.9	6193.0	5831.7	5447.9	5194.7	4991.5	4872.2	4814.1	4722.2
7.5°	6872.0	6594.7	6002.8	5397.9	4835.1	4280.3	3869.0	3552.9	3335.2	3230.4	3135.2
10°	6607.5	6238.2	5396.4	4572.2	3807.7	3072.3	2504.6	2093.4	1830.5	1709.6	1632.1
12.5°	6370.4	5891.5	4810.9	3767.4	2807.8	1946.6	1369.2	1041.9	878.9	822.6	795.1
15°	6159.2	5572.1	4257.7	3003.0	1901.5	1112.8	748.3	637.1	611.2	611.2	608.0
17.5°	5959.2	5259.3	3723.8	2285.3	1193.5	680.6	569.3	554.7	554.7	561.3	561.3
20°	5767.3	4960.9	3207.8	1640.2	751.6	540.3	514.4	511.3	514.4	522.5	522.5
22.5°	5602.8	4689.9	2725.6	1125.8	558.0	487.0	474.1	469.3	471.0	475.8	478.9
25°	5480.2	4460.9	2270.7	762.8	480.6	443.6	429.0	420.9	414.5	414.5	417.7
27.5°	5402.8	4267.4	1830.5	554.7	432.2	403.1	380.6	367.8	353.2	345.1	348.3
30°	5346.4	4083.5	1417.6	453.2	387.1	358.0	329.0	308.0	287.0	277.4	280.6
32.5°	5325.4	3935.2	1059.6	400.0	346.8	314.5	279.0	251.5	229.0	221.0	222.6
35°	5381.8	3817.4	775.7	361.3	314.5	274.2	233.8	203.3	185.5	180.7	182.3
37.5°	5530.2	3754.5	580.6	329.0	285.5	240.3	195.2	166.1	154.9	154.9	156.4
40°	5810.8	3752.9	466.1	306.5	259.6	208.1	161.3	140.3	133.9	137.1	138.7
42.5°	6220.5	3838.4	406.4	285.5	237.1	177.4	133.9	119.4	117.7	120.9	122.5
45°	6780.1	3994.8	374.2	267.7	212.9	148.3	112.9	103.2	103.2	108.0	109.7
47.5°	7465.5	4223.9	346.8	250.0	188.7	124.2	96.8	90.3	92.0	96.8	98.4
50°	8291.2	4512.5	319.4	230.7	170.9	103.2	83.9	79.1	80.6	87.1	88.7
52.5°	9231.5	4901.3	296.8	212.9	148.3	85.5	71.0	67.7	71.0	77.4	79.1
55°	10037.9	5249.6	269.3	198.4	119.4	71.0	58.1	58.1	61.3	69.4	71.0
57.5°	10813.6	5614.1	245.1	170.9	93.5	56.5	48.4	50.0	54.8	62.9	64.5
60°	11952.3	6231.7	216.1	143.5	71.0	45.1	40.3	41.9	48.4	56.5	58.1
62.5°	13885.9	7172.0	187.1	119.4	54.8	35.5	32.2	35.5	43.6	53.2	54.8
65°	15631.0	7554.2	153.2	99.9	41.9	27.4	27.4	32.2	41.9	51.7	53.2
67.5°	14658.5	6359.2	119.4	79.1	32.2	21.0	22.6	30.7	40.3	51.7	53.2
69°	12963.4	5199.6	101.6	62.9	27.4	19.3	21.0	30.7	40.3	50.0	51.7
70°	11642.6	4390.0	90.3	53.2	24.1	19.3	21.0	29.1	40.3	50.0	51.7
72.5°	7797.7	2370.8	72.5	38.7	22.6	17.7	17.7	29.1	38.7	48.4	50.0
75°	3351.4	654.8	58.1	27.4	19.3	16.2	16.2	27.4	37.1	46.7	50.0
77.5°	612.8	166.1	46.7	24.1	19.3	16.2	14.5	25.8	35.5	45.1	46.7
80°	243.6	82.2	37.1	21.0	17.7	14.5	12.9	24.1	33.9	43.6	45.1
82.5°	146.8	46.7	30.7	19.3	17.7	12.9	11.3	21.0	32.2	41.9	43.6
85°	119.4	32.2	24.1	19.3	16.2	12.9	9.7	19.3	29.1	40.3	41.9
87.5°	58.1	22.6	22.6	17.7	16.2	12.9	9.7	17.7	27.4	38.7	40.3
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)