

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: P191142

Luminaire Tested: **GLEON-AF-04-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191142
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-04-LED-E1-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 23019.5 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 258
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

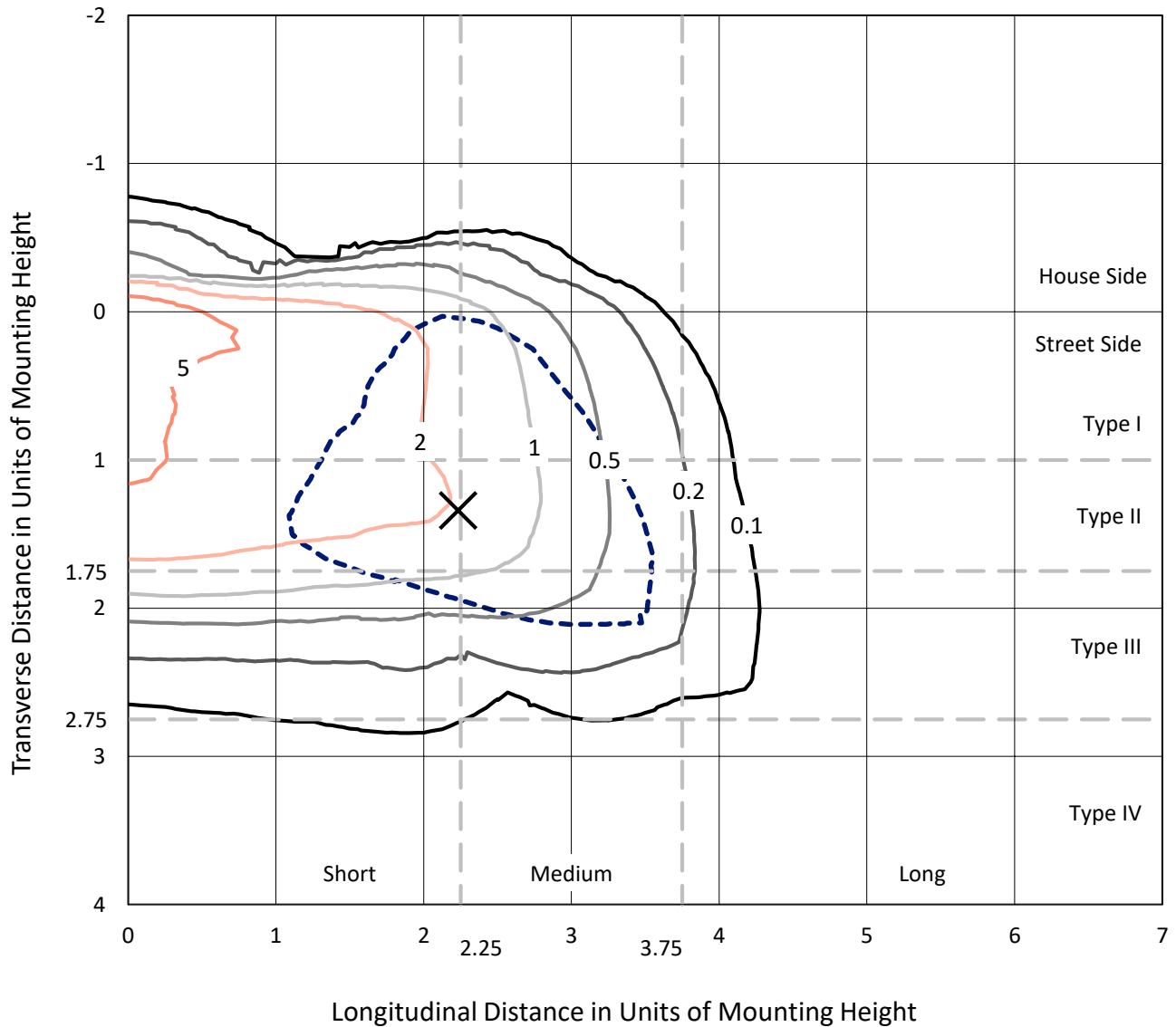


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

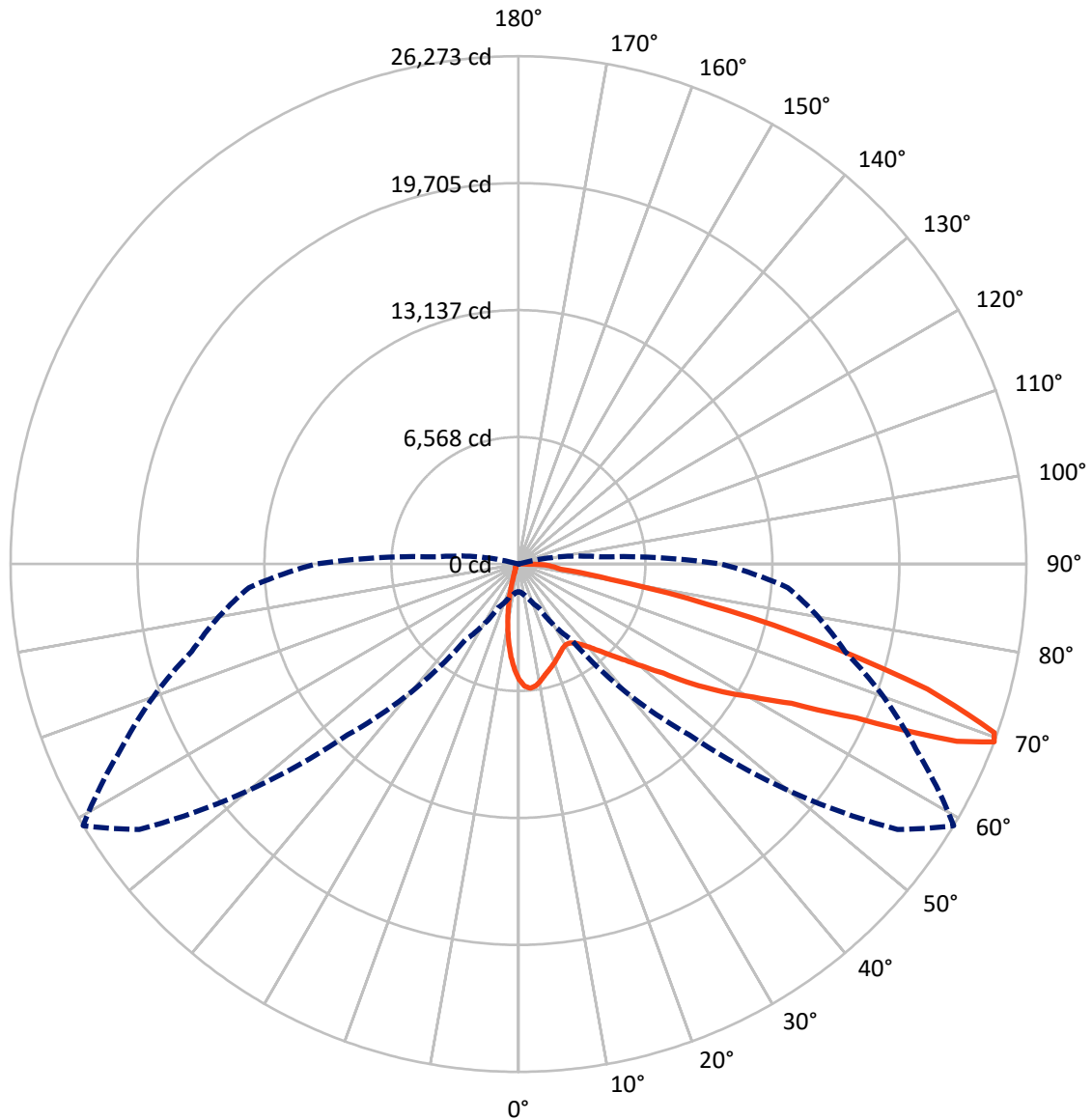


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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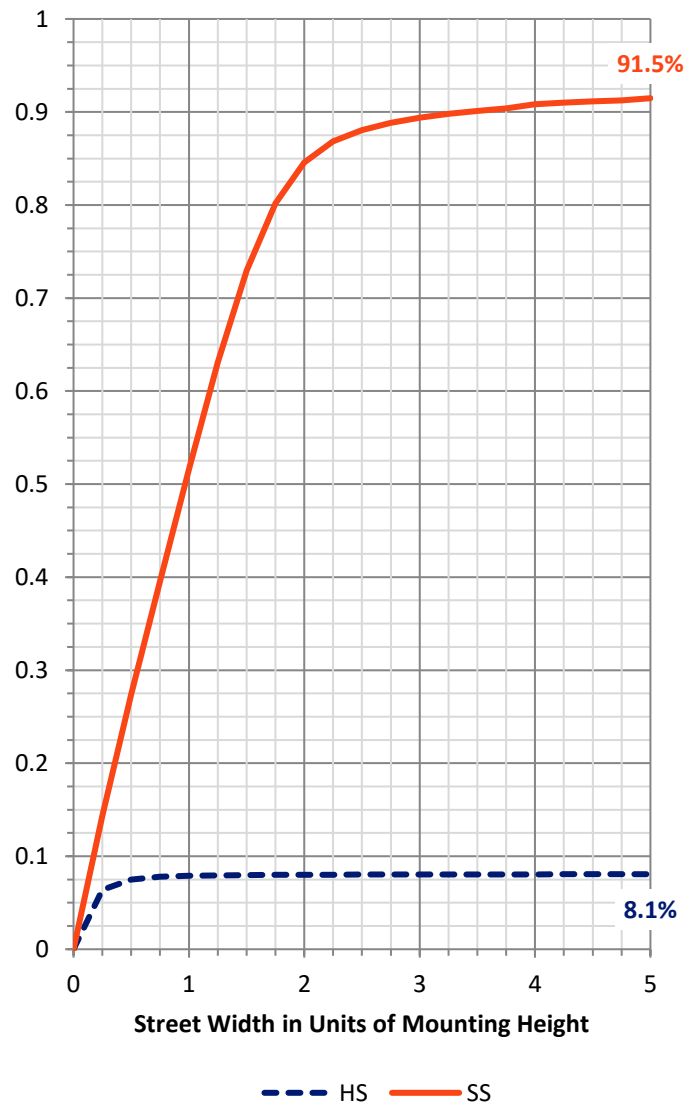
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1874.6	0.0	1874.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	21144.8	0.0	21144.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	23019.5	0.0	23019.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.3	2.1
10°-20°	1004.9	4.4
20°-30°	1352.3	5.9
30°-40°	1963.4	8.5
40°-50°	3269.2	14.2
50°-60°	5099.9	22.2
60°-70°	6310.7	27.4
70°-80°	3198.2	13.9
80°-90°	334.6	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°	23019.5	100.0
0°-180°	23019.5	100.0



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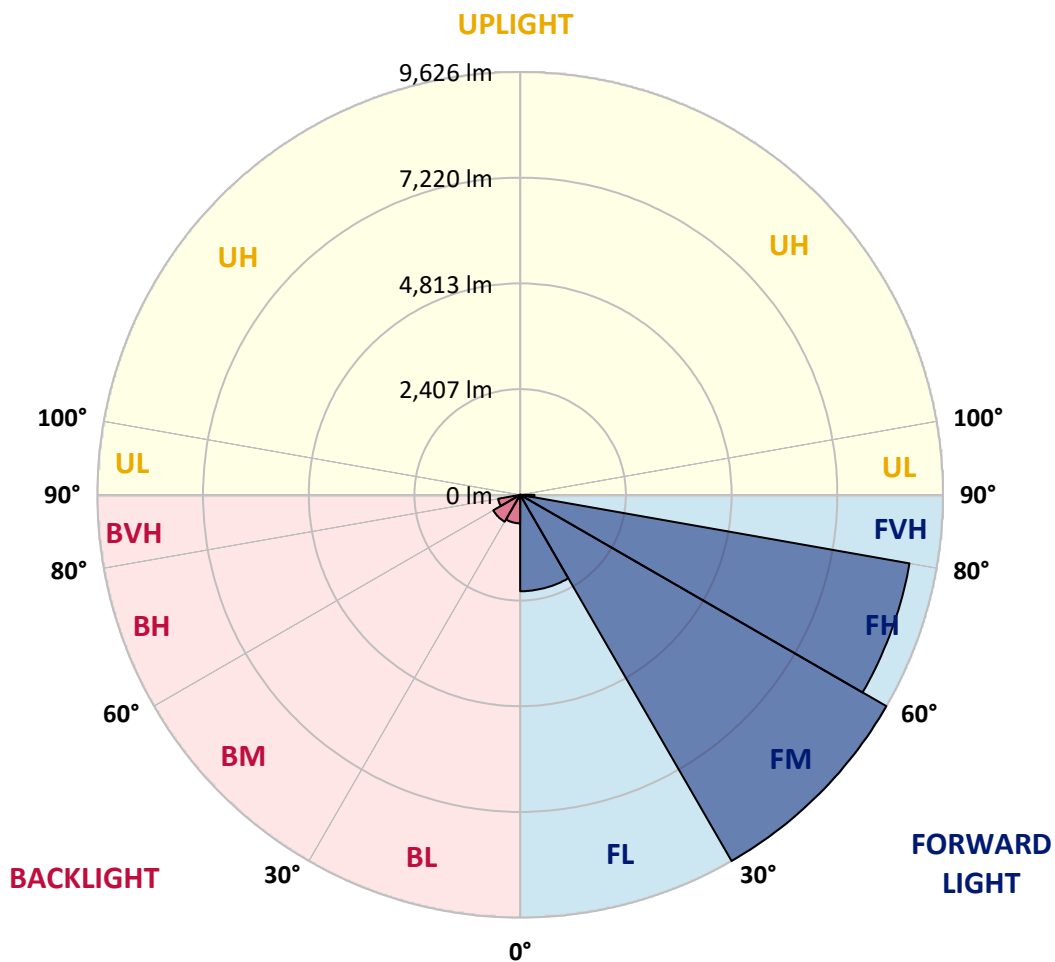
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2194.6	9.5			
FM	(30°-60°)	9626.1	41.8			
FH	(60°-80°)	8999.8	39.1			G4/12000
FVH	(80°-90°)	324.3	1.4			G3/500
BL	(0°-30°)	648.9	2.8	B2/1000		
BM	(30°-60°)	706.4	3.1	B1/1000		
BH	(60°-80°)	509.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.3	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°	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6
2.5°	6567.0	6564.4	6535.7	6522.7	6499.3	6449.8	6373.1	6332.7	6267.6	6154.4	6002.1
5°	6507.1	6538.4	6555.3	6556.6	6573.5	6555.3	6486.3	6452.5	6362.7	6180.4	5907.0
7.5°	6101.0	6112.7	6160.8	6202.6	6283.3	6360.0	6384.7	6370.4	6317.0	6121.8	5758.6
10°	5666.2	5678.0	5735.2	5789.9	5899.3	6017.7	6142.6	6168.7	6190.8	6038.5	5615.5
12.5°	5291.3	5303.1	5361.6	5433.2	5560.8	5706.5	5900.5	5943.4	6041.1	5959.1	5500.9
15°	4968.6	4973.7	5031.0	5119.6	5271.8	5459.3	5679.2	5748.3	5897.9	5903.1	5400.7
17.5°	4693.9	4706.9	4742.0	4826.7	4993.2	5224.9	5481.4	5580.3	5756.0	5856.3	5303.1
20°	4525.9	4538.9	4537.7	4584.6	4734.2	4981.6	5283.5	5402.0	5615.5	5808.1	5215.8
22.5°	4493.4	4493.4	4459.6	4453.0	4541.6	4748.5	5077.8	5222.4	5489.2	5787.2	5154.6
25°	4609.2	4604.1	4519.4	4450.4	4454.3	4578.0	4878.8	5050.5	5382.5	5801.6	5122.1
27.5°	4854.0	4847.5	4740.8	4609.2	4503.8	4502.5	4727.7	4912.5	5297.9	5869.3	5135.1
30°	5192.4	5189.8	5073.9	4908.6	4717.3	4541.6	4675.6	4843.6	5243.1	5991.6	5165.1
32.5°	5562.1	5558.2	5470.9	5296.5	5054.4	4717.3	4730.3	4870.9	5258.8	6154.4	5238.0
35°	5953.9	5947.4	5909.7	5757.4	5490.5	5041.4	4910.0	5019.3	5357.7	6397.7	5381.1
37.5°	6378.2	6384.7	6412.1	6266.3	5986.4	5495.7	5210.6	5284.9	5556.9	6728.4	5614.2
40°	7004.3	7003.0	7012.1	6820.8	6551.4	6051.6	5631.0	5654.5	5890.2	7167.1	5968.2
42.5°	8140.7	8061.4	7820.6	7430.0	7159.2	6686.7	6160.8	6136.2	6297.6	7709.9	6464.1
45°	9667.6	9498.4	8873.6	8125.1	7778.8	7402.7	6813.1	6733.6	6836.5	8362.0	7076.0
47.5°	10981.0	10805.2	9921.4	8848.8	8436.2	8082.1	7577.1	7433.9	7467.7	9092.3	7851.8
50°	11427.5	11341.6	10569.6	9478.9	9072.8	8937.3	8463.6	8289.1	8241.0	9937.0	8751.2
52.5°	11272.6	11266.1	10751.9	9887.5	9655.8	9822.5	9579.1	9377.3	9200.3	10827.4	9666.3
55°	11023.9	11056.5	10826.1	10245.6	10237.7	10630.8	11104.6	10936.8	10423.9	11794.5	10455.1
57.5°	10337.9	10477.3	10784.5	10922.5	11242.6	11644.9	12375.1	12474.1	11867.5	12535.2	11109.9
60°	8388.1	8694.0	9698.8	11020.0	12537.8	13540.1	13908.4	13993.0	13051.9	13151.0	11993.7
62.5°	5953.9	6266.3	7540.7	9775.6	12557.3	16030.3	16192.9	15861.1	14356.3	14063.4	13518.0
65°	3160.5	3401.3	4442.7	7056.4	10887.3	16608.2	20187.8	19198.5	16657.6	15858.4	15487.5
67.5°	1616.7	1689.6	2103.5	3453.4	7484.7	14752.0	23768.8	24465.1	20623.9	17639.2	15392.4
69°	1430.6	1473.5	1748.1	2496.6	4792.8	12494.8	23943.2	26273.2	22700.1	17490.7	13987.9
70°	1385.0	1422.7	1672.6	2259.7	3746.3	10478.6	23275.4	26114.4	23231.1	16925.7	12938.7
72.5°	1175.4	1208.0	1489.1	1996.8	3044.6	5201.5	18907.0	22128.6	20846.4	14099.8	9365.6
75°	786.2	892.9	1429.3	1871.8	2832.4	2954.8	12465.0	15991.2	14854.8	9510.1	4878.8
77.5°	188.7	203.1	403.6	1489.1	2590.3	2600.8	6410.8	9940.9	8108.2	3389.5	1153.3
80°	101.6	97.6	113.2	295.5	2412.0	2440.7	2885.8	4825.4	2895.0	562.3	380.1
82.5°	71.6	67.7	72.9	123.7	758.9	2223.3	2087.9	2184.2	1200.1	216.0	170.5
85°	26.0	24.8	40.3	111.9	238.2	1278.3	2145.1	1801.5	972.3	98.9	125.0
87.5°	9.1	7.8	15.7	61.2	72.9	544.1	1323.8	1361.5	382.7	59.8	58.6
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°	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6	5991.6
2.5°	5938.2	5857.6	5709.2	5556.9	5416.3	5247.1	5162.5	5079.2	5044.1	5031.0	4969.8
5°	5766.5	5629.8	5314.7	4998.4	4706.9	4397.1	4192.8	4028.7	3932.4	3885.5	3811.3
7.5°	5546.4	5322.6	4844.9	4356.7	3902.5	3454.7	3122.8	2867.6	2691.9	2607.3	2530.5
10°	5332.9	5034.9	4355.4	3690.3	3073.3	2479.7	2021.6	1689.6	1477.4	1379.8	1317.3
12.5°	5141.7	4755.1	3882.9	3040.7	2266.2	1571.2	1105.1	840.9	709.4	663.9	641.7
15°	4971.1	4497.3	3436.4	2423.8	1534.7	898.2	604.0	514.1	493.4	493.4	490.7
17.5°	4809.7	4244.8	3005.6	1844.5	963.2	549.3	459.5	447.7	447.7	453.0	453.0
20°	4654.8	4003.9	2589.1	1323.8	606.6	436.1	415.2	412.7	415.2	421.8	421.8
22.5°	4522.1	3785.3	2199.9	908.6	450.4	393.1	382.7	378.8	380.1	384.0	386.6
25°	4423.1	3600.5	1832.8	615.7	387.9	357.9	346.3	339.7	334.5	334.5	337.2
27.5°	4360.6	3444.3	1477.4	447.7	348.8	325.4	307.2	296.8	285.1	278.5	281.2
30°	4315.1	3295.8	1144.2	365.8	312.4	289.0	265.6	248.6	231.7	223.9	226.5
32.5°	4298.1	3176.1	855.2	322.8	279.9	253.8	225.2	203.1	184.8	178.3	179.6
35°	4343.8	3081.1	626.1	291.5	253.8	221.3	188.7	164.0	149.7	145.8	147.1
37.5°	4463.4	3030.3	468.6	265.6	230.4	194.0	157.5	134.1	125.0	125.0	126.2
40°	4689.9	3029.1	376.1	247.3	209.6	167.9	130.1	113.2	108.0	110.7	111.9
42.5°	5020.6	3098.0	328.1	230.4	191.4	143.2	108.0	96.4	95.0	97.6	98.9
45°	5472.3	3224.2	302.0	216.0	171.9	119.8	91.1	83.3	83.3	87.3	88.5
47.5°	6025.5	3409.1	279.9	201.7	152.3	100.2	78.1	72.9	74.2	78.1	79.4
50°	6691.9	3642.1	257.8	186.2	138.0	83.3	67.7	63.8	65.1	70.3	71.6
52.5°	7450.9	3955.9	239.5	171.9	119.8	68.9	57.3	54.6	57.3	62.5	63.8
55°	8101.7	4237.0	217.4	160.1	96.4	57.3	46.9	46.9	49.5	56.0	57.3
57.5°	8727.8	4531.2	197.8	138.0	75.5	45.5	39.1	40.3	44.3	50.7	52.1
60°	9646.7	5029.7	174.4	115.9	57.3	36.4	32.5	33.9	39.1	45.5	46.9
62.5°	11207.4	5788.6	151.0	96.4	44.3	28.6	26.0	28.6	35.2	43.0	44.3
65°	12616.0	6097.1	123.7	80.7	33.9	22.1	22.1	26.0	33.9	41.6	43.0
67.5°	11831.0	5132.6	96.4	63.8	26.0	16.9	18.2	24.8	32.5	41.6	43.0
69°	10462.9	4196.7	82.0	50.7	22.1	15.7	16.9	24.8	32.5	40.3	41.6
70°	9396.8	3543.2	72.9	43.0	19.5	15.7	16.9	23.4	32.5	40.3	41.6
72.5°	6293.6	1913.4	58.6	31.2	18.2	14.3	14.3	23.4	31.2	39.1	40.3
75°	2704.9	528.5	46.9	22.1	15.7	13.0	13.0	22.1	30.0	37.7	40.3
77.5°	494.6	134.1	37.7	19.5	15.7	13.0	11.8	20.9	28.6	36.4	37.7
80°	196.5	66.4	30.0	16.9	14.3	11.8	10.4	19.5	27.3	35.2	36.4
82.5°	118.5	37.7	24.8	15.7	14.3	10.4	9.1	16.9	26.0	33.9	35.2
85°	96.4	26.0	19.5	15.7	13.0	10.4	7.8	15.7	23.4	32.5	33.9
87.5°	46.9	18.2	18.2	14.3	13.0	10.4	7.8	14.3	22.1	31.2	32.5
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)