

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: P191133

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191133
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA 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: 25999.3 lumens
Efficiency: N/A
Efficacy: 93.2 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

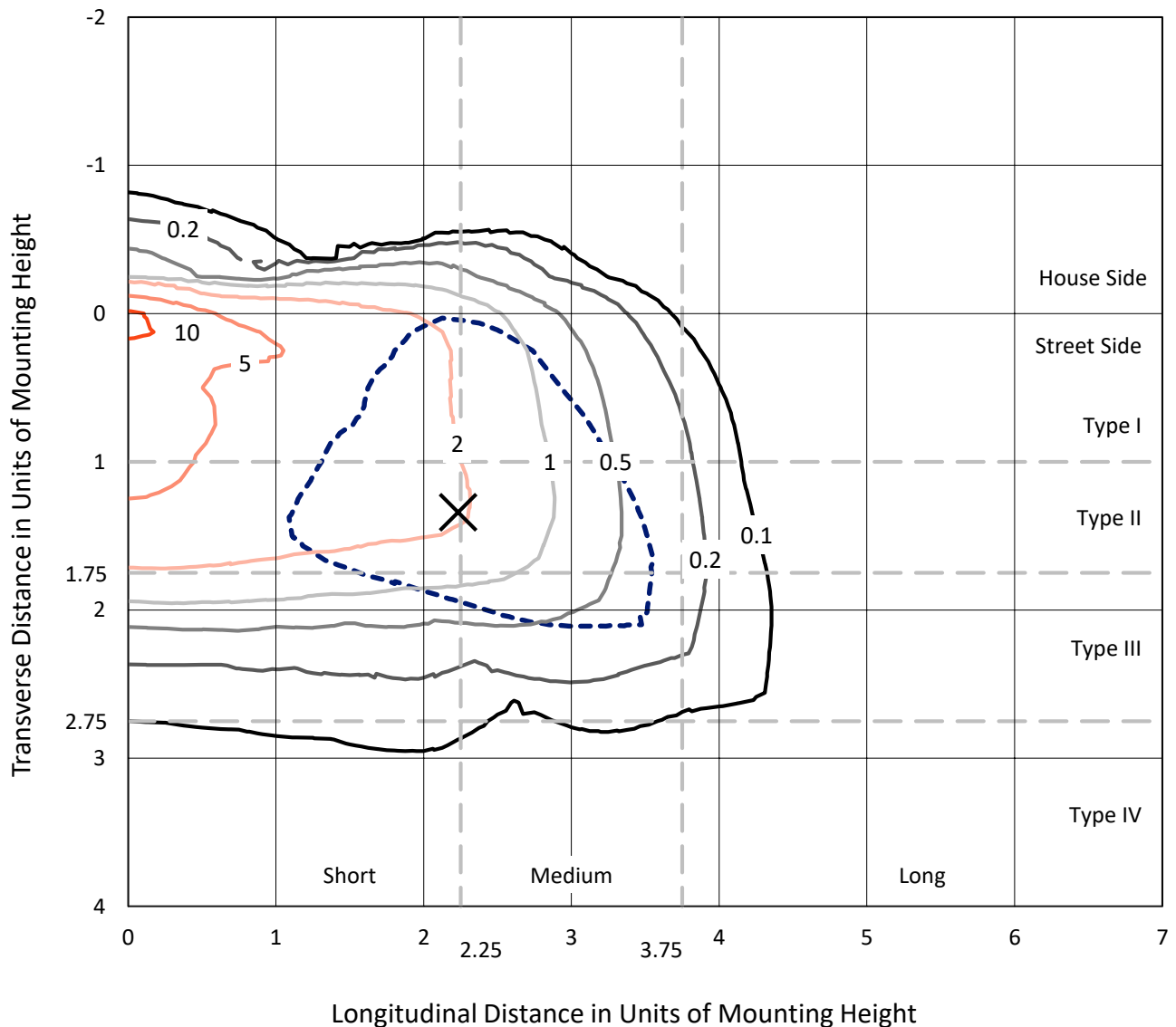
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

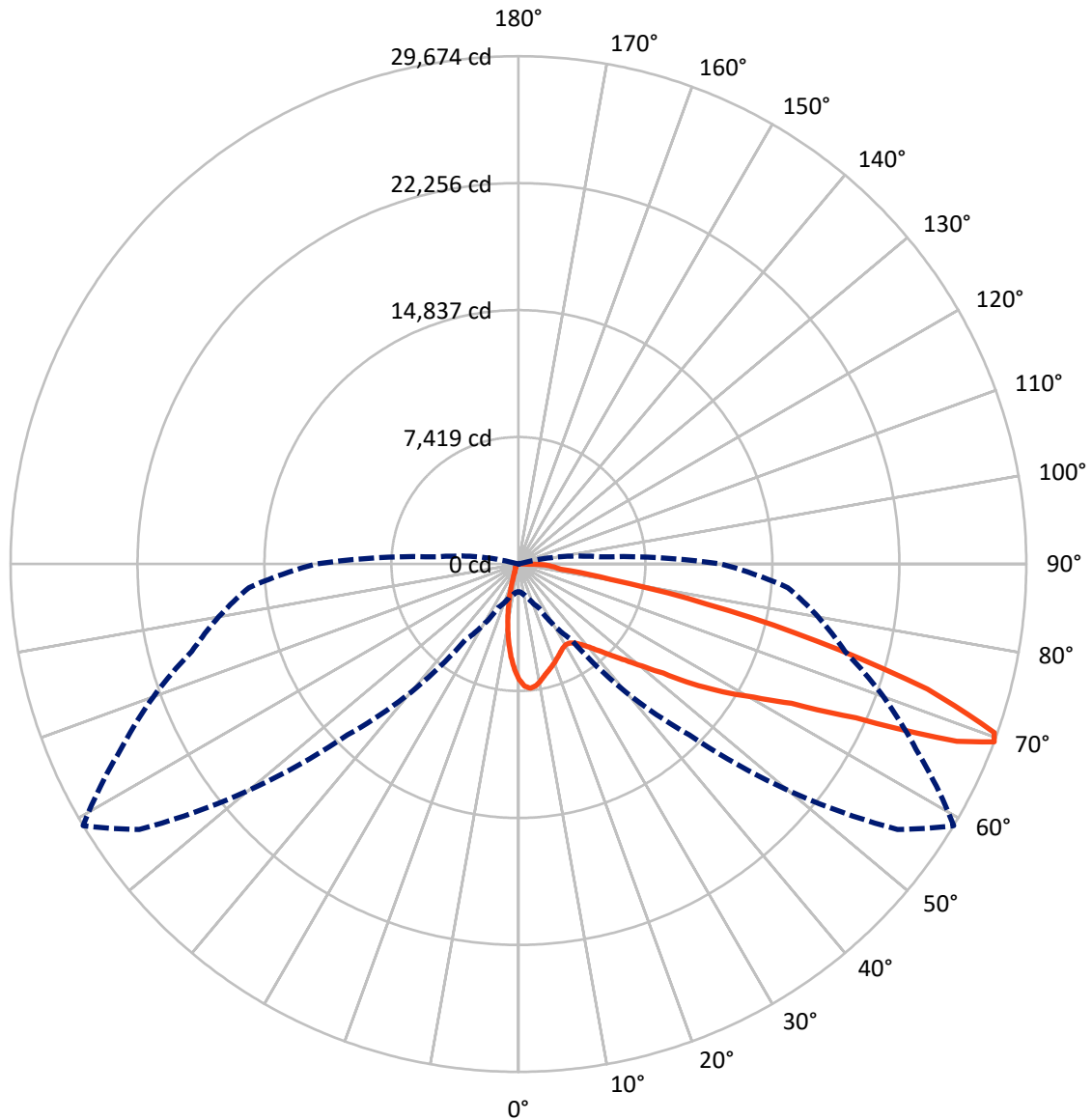
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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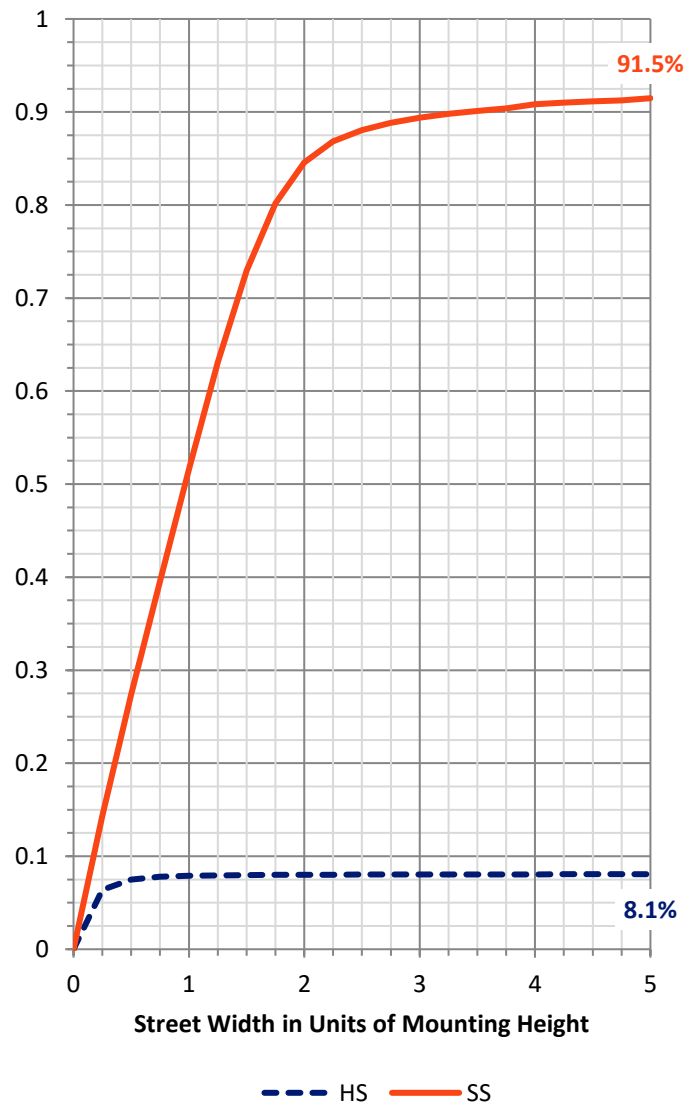
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2117.3	0.0	2117.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	23882.0	0.0	23882.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	25999.3	0.0	25999.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.3	2.1
10°-20°	1135.0	4.4
20°-30°	1527.3	5.9
30°-40°	2217.5	8.5
40°-50°	3692.4	14.2
50°-60°	5760.0	22.2
60°-70°	7127.6	27.4
70°-80°	3612.2	13.9
80°-90°	378.0	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°	25999.3	100.0
0°-180°	25999.3	100.0



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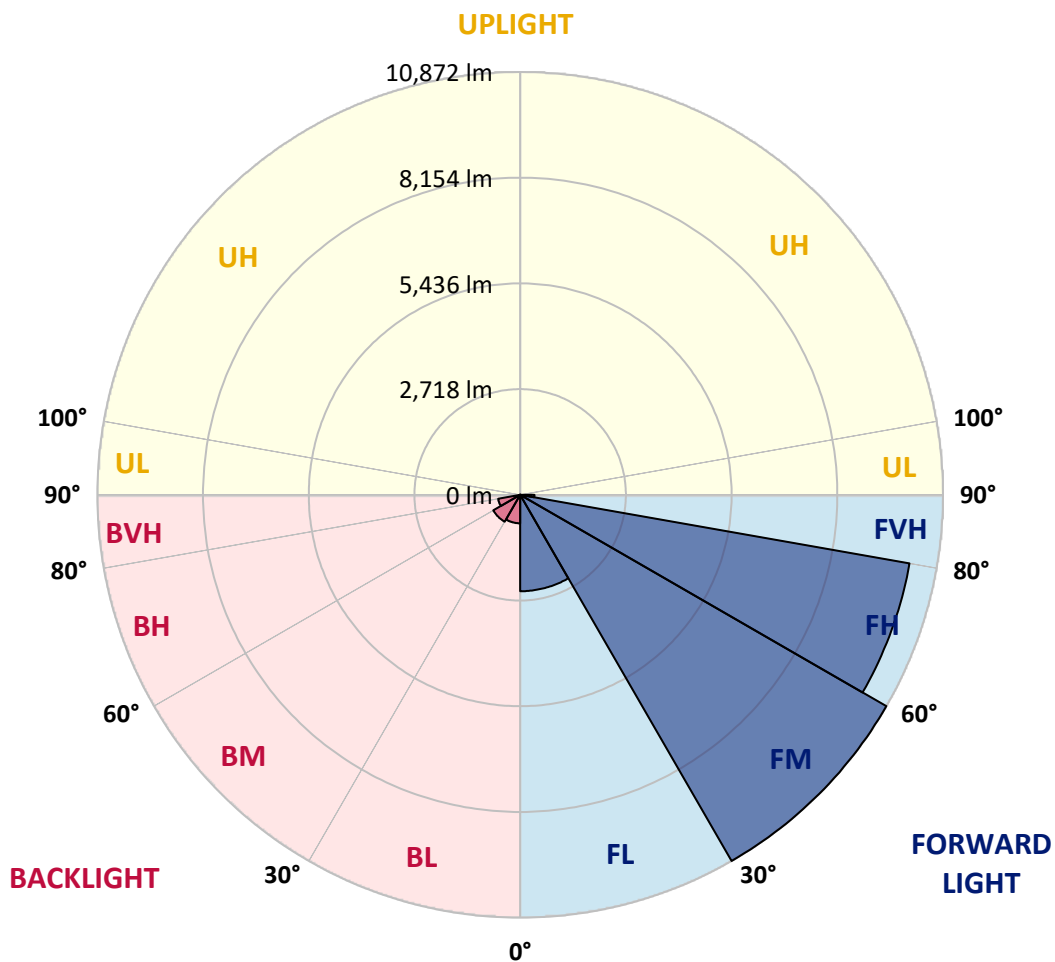
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2478.7	9.5			
FM	(30°-60°)	10872.2	41.8			
FH	(60°-80°)	10164.8	39.1			G4/12000
FVH	(80°-90°)	366.3	1.4			G3/500
BL	(0°-30°)	732.9	2.8	B2/1000		
BM	(30°-60°)	797.8	3.1	B1/1000		
BH	(60°-80°)	575.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.6	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°	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2
2.5°	7417.1	7414.1	7381.8	7367.1	7340.6	7284.7	7198.0	7152.5	7078.9	6951.1	6779.0
5°	7349.5	7384.8	7403.8	7405.3	7424.5	7403.8	7326.0	7287.7	7186.2	6980.4	6671.7
7.5°	6890.8	6904.0	6958.4	7005.5	7096.6	7183.4	7211.3	7195.1	7134.8	6914.3	6504.1
10°	6399.7	6413.0	6477.6	6539.4	6662.9	6796.7	6937.8	6967.2	6992.2	6820.2	6342.4
12.5°	5976.3	5989.6	6055.7	6136.6	6280.6	6445.3	6664.3	6712.9	6823.1	6730.5	6213.0
15°	5611.7	5617.5	5682.3	5782.2	5954.3	6165.9	6414.4	6492.4	6661.5	6667.3	6099.8
17.5°	5301.4	5316.2	5355.9	5451.4	5639.6	5901.3	6191.0	6302.7	6501.2	6614.4	5989.6
20°	5111.8	5126.5	5125.1	5178.0	5347.1	5626.4	5967.5	6101.3	6342.4	6560.0	5891.1
22.5°	5075.1	5075.1	5036.8	5029.5	5129.5	5363.2	5735.2	5898.3	6199.8	6536.5	5821.9
25°	5205.9	5200.1	5104.5	5026.6	5031.0	5170.6	5510.2	5704.3	6079.2	6552.6	5785.2
27.5°	5482.3	5474.9	5354.4	5205.9	5086.8	5085.4	5339.7	5548.5	5983.6	6629.0	5799.9
30°	5864.6	5861.6	5730.8	5544.1	5327.9	5129.5	5280.9	5470.5	5921.9	6767.2	5833.7
32.5°	6282.1	6277.6	6179.2	5982.2	5708.7	5327.9	5342.7	5501.4	5939.6	6951.1	5916.0
35°	6724.7	6717.3	6674.7	6502.6	6201.2	5694.1	5545.5	5669.0	6051.3	7225.9	6077.8
37.5°	7203.9	7211.3	7242.1	7077.5	6761.4	6207.2	5885.1	5968.9	6276.2	7599.4	6340.9
40°	7911.1	7909.6	7919.9	7703.7	7399.4	6834.8	6360.0	6386.5	6652.6	8094.8	6740.8
42.5°	9194.6	9104.9	8832.9	8391.8	8086.0	7552.3	6958.4	6930.5	7112.8	8707.9	7300.9
45°	10919.1	10728.0	10022.3	9176.9	8785.8	8361.0	7694.9	7605.2	7721.4	9444.5	7991.9
47.5°	12402.5	12204.0	11205.7	9994.3	9528.3	9128.4	8557.9	8396.3	8434.4	10269.2	8868.2
50°	12906.8	12809.7	11937.9	10705.9	10247.2	10094.3	9559.2	9362.1	9307.7	11223.4	9884.1
52.5°	12731.9	12724.5	12143.8	11167.6	10905.9	11094.0	10819.1	10591.2	10391.2	12229.0	10917.6
55°	12451.1	12487.8	12227.5	11571.8	11563.0	12007.0	12542.2	12352.5	11773.2	13321.4	11808.5
57.5°	11676.2	11833.5	12180.5	12336.3	12698.0	13152.3	13977.1	14088.8	13403.7	14157.8	12548.0
60°	9473.9	9819.4	10954.4	12446.5	14160.8	15292.9	15708.9	15804.5	14741.5	14853.2	13546.3
62.5°	6724.7	7077.5	8516.8	11041.1	14182.9	18105.3	18289.1	17914.2	16214.7	15883.9	15267.8
65°	3569.6	3841.6	5017.8	7969.9	12296.6	18758.1	22801.1	21683.8	18814.0	17911.3	17492.3
67.5°	1826.0	1908.3	2375.8	3900.4	8453.6	16661.6	26845.6	27632.2	23293.6	19922.5	17384.9
69°	1615.8	1664.2	1974.5	2819.9	5413.3	14112.3	27042.6	29674.3	25638.5	19754.9	15798.7
70°	1564.3	1607.0	1889.2	2552.3	4231.2	11835.0	26288.4	29494.8	26238.4	19116.8	14613.7
72.5°	1327.6	1364.3	1681.9	2255.3	3438.8	5874.9	21354.4	24993.1	23545.1	15925.1	10578.0
75°	888.0	1008.5	1614.2	2114.1	3199.1	3337.3	14078.5	18061.2	16777.7	10741.2	5510.2
77.5°	213.2	229.3	455.7	1681.9	2925.6	2937.4	7240.7	11227.8	9157.8	3828.4	1302.6
80°	114.7	110.3	127.9	333.7	2724.2	2756.6	3259.4	5450.0	3269.7	635.2	429.3
82.5°	80.8	76.4	82.3	139.6	857.1	2511.0	2358.2	2466.9	1355.5	244.1	192.6
85°	29.4	27.9	45.6	126.4	269.0	1443.7	2422.9	2034.8	1098.2	111.7	141.2
87.5°	10.3	8.8	17.6	69.0	82.3	614.5	1495.1	1537.8	432.2	67.6	66.2
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°	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2	6767.2
2.5°	6707.0	6615.8	6448.3	6276.2	6117.5	5926.4	5830.7	5736.7	5697.0	5682.3	5613.1
5°	6512.9	6358.6	6002.8	5645.5	5316.2	4966.3	4735.4	4550.2	4441.4	4388.5	4304.7
7.5°	6264.4	6011.6	5472.1	4920.7	4407.6	3901.8	3526.9	3238.9	3040.3	2944.8	2858.0
10°	6023.3	5686.7	4919.3	4168.0	3471.1	2800.7	2283.2	1908.3	1668.6	1558.4	1487.8
12.5°	5807.2	5370.6	4385.6	3434.4	2559.6	1774.5	1248.2	949.7	801.3	749.8	724.8
15°	5614.7	5079.5	3881.3	2737.5	1733.4	1014.5	682.2	580.7	557.2	557.2	554.2
17.5°	5432.4	4794.3	3394.7	2083.2	1087.9	620.4	518.9	505.7	505.7	511.6	511.6
20°	5257.4	4522.3	2924.2	1495.1	685.1	492.6	469.0	466.1	469.0	476.4	476.4
22.5°	5107.4	4275.3	2484.6	1026.2	508.7	444.0	432.2	427.8	429.3	433.7	436.6
25°	4995.7	4066.5	2070.0	695.4	438.1	404.3	391.1	383.7	377.9	377.9	380.7
27.5°	4925.1	3890.1	1668.6	505.7	394.0	367.5	347.0	335.2	321.9	314.7	317.5
30°	4873.6	3722.5	1292.3	413.2	352.8	326.4	299.9	280.8	261.7	252.9	255.8
32.5°	4854.5	3587.3	965.9	364.6	316.1	286.7	254.3	229.3	208.8	201.4	202.9
35°	4906.0	3480.0	707.2	329.3	286.7	249.9	213.2	185.3	169.1	164.7	166.1
37.5°	5041.3	3422.6	529.3	299.9	260.2	219.0	177.9	151.4	141.2	141.2	142.6
40°	5297.0	3421.2	424.9	279.4	236.7	189.7	147.0	127.9	122.0	125.0	126.4
42.5°	5670.5	3499.0	370.5	260.2	216.1	161.7	122.0	108.8	107.3	110.3	111.7
45°	6180.7	3641.6	341.1	244.1	194.1	135.2	102.9	94.1	94.1	98.5	99.9
47.5°	6805.5	3850.4	316.1	227.9	172.1	113.2	88.2	82.3	83.8	88.2	89.7
50°	7558.2	4113.6	291.1	210.2	155.8	94.1	76.4	72.0	73.6	79.4	80.8
52.5°	8415.3	4467.9	270.5	194.1	135.2	77.9	64.7	61.8	64.7	70.6	72.0
55°	9150.4	4785.5	245.5	180.9	108.8	64.7	52.9	52.9	55.9	63.2	64.7
57.5°	9857.6	5117.7	223.5	155.8	85.3	51.5	44.1	45.6	50.0	57.4	58.8
60°	10895.6	5680.8	197.0	130.8	64.7	41.1	36.7	38.3	44.1	51.5	52.9
62.5°	12658.3	6537.9	170.5	108.8	50.0	32.3	29.4	32.3	39.7	48.5	50.0
65°	14249.0	6886.3	139.6	91.1	38.3	25.0	25.0	29.4	38.3	47.1	48.5
67.5°	13362.5	5797.0	108.8	72.0	29.4	19.1	20.6	27.9	36.7	47.1	48.5
69°	11817.3	4739.8	92.6	57.4	25.0	17.6	19.1	27.9	36.7	45.6	47.1
70°	10613.2	4001.9	82.3	48.5	22.1	17.6	19.1	26.5	36.7	45.6	47.1
72.5°	7108.4	2161.2	66.2	35.3	20.6	16.2	16.2	26.5	35.3	44.1	45.6
75°	3055.0	596.9	52.9	25.0	17.6	14.7	14.7	25.0	33.9	42.7	45.6
77.5°	558.6	151.4	42.7	22.1	17.6	14.7	13.2	23.5	32.3	41.1	42.7
80°	222.0	75.0	33.9	19.1	16.2	13.2	11.8	22.1	30.9	39.7	41.1
82.5°	133.8	42.7	27.9	17.6	16.2	11.8	10.3	19.1	29.4	38.3	39.7
85°	108.8	29.4	22.1	17.6	14.7	11.8	8.8	17.6	26.5	36.7	38.3
87.5°	52.9	20.6	20.6	16.2	14.7	11.8	8.8	16.2	25.0	35.3	36.7
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)