

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: P191144

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191144
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-06-LED-E1-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 34130.8 lumens
Efficiency: N/A
Efficacy: 89.3 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 - G5

Input Watts (W): 382
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

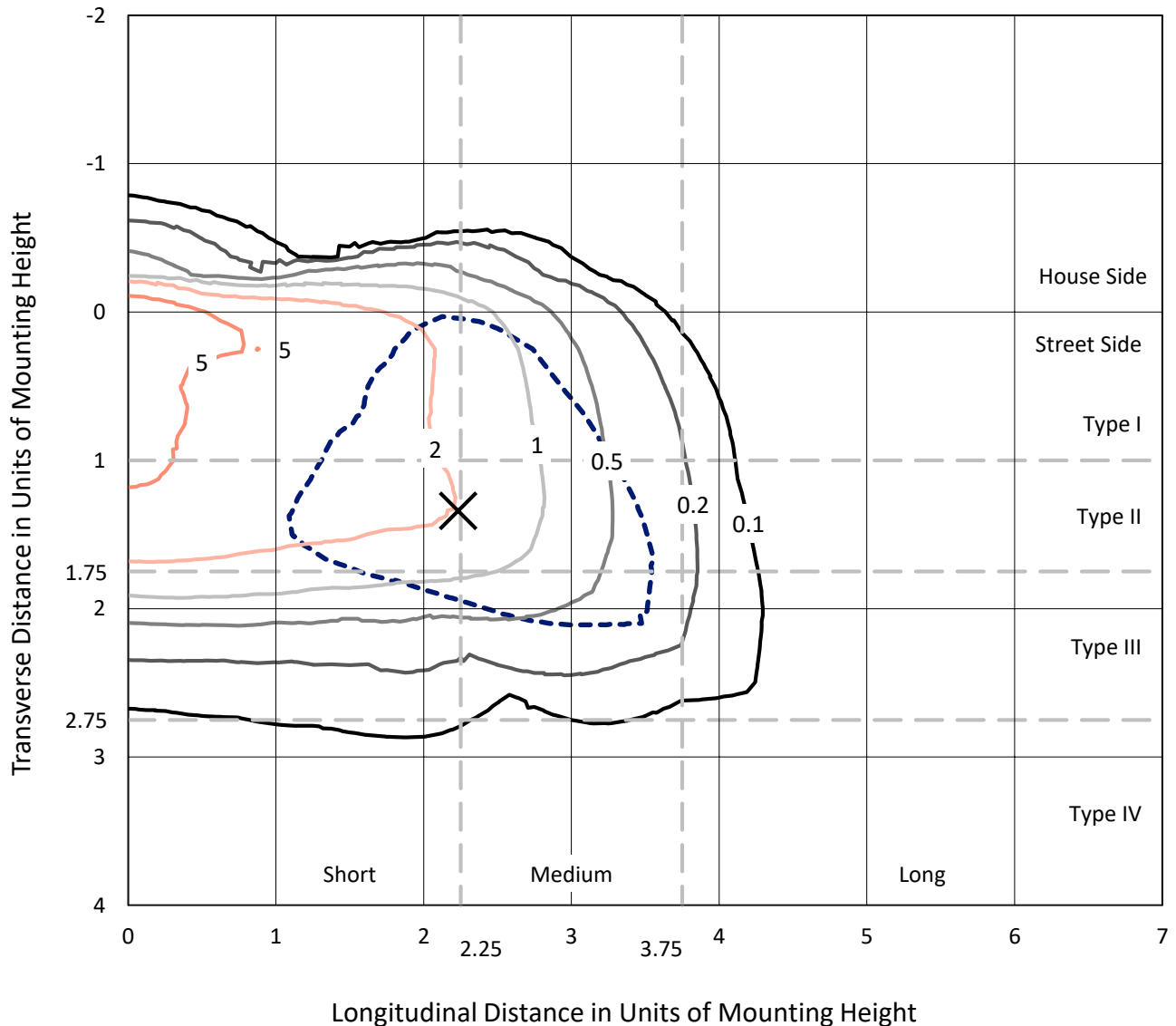


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Iso-Footcandle Lines of Horizontal Illumination

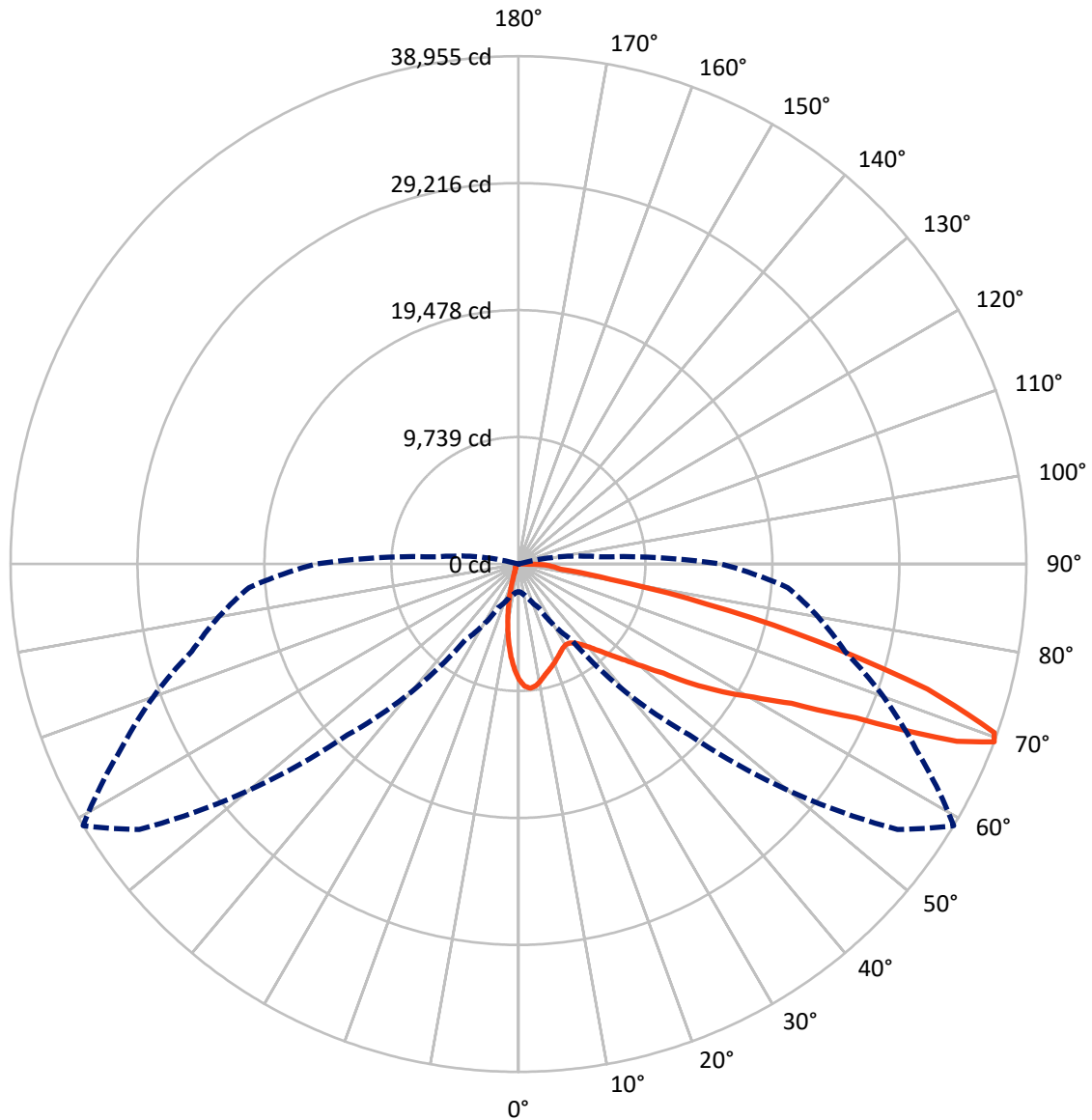
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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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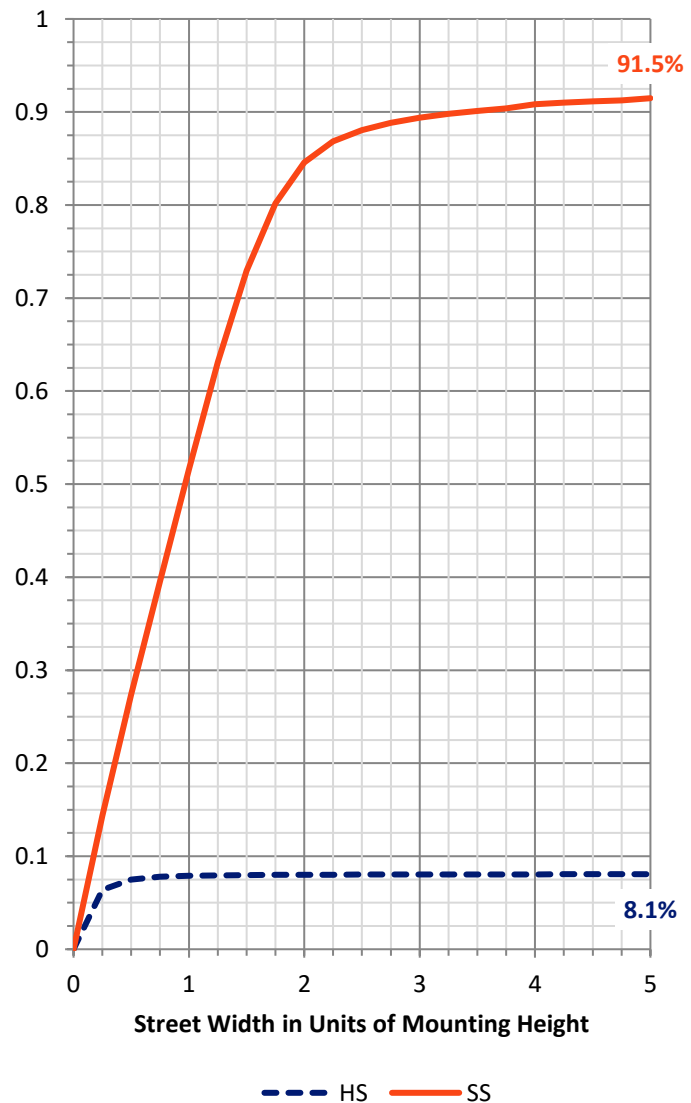
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2779.5	0.0	2779.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	31351.3	0.0	31351.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	34130.8	0.0	34130.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.1	2.1
10°-20°	1490.0	4.4
20°-30°	2005.0	5.9
30°-40°	2911.1	8.5
40°-50°	4847.2	14.2
50°-60°	7561.5	22.2
60°-70°	9356.8	27.4
70°-80°	4741.9	13.9
80°-90°	496.2	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°	34130.8	100.0
0°-180°	34130.8	100.0



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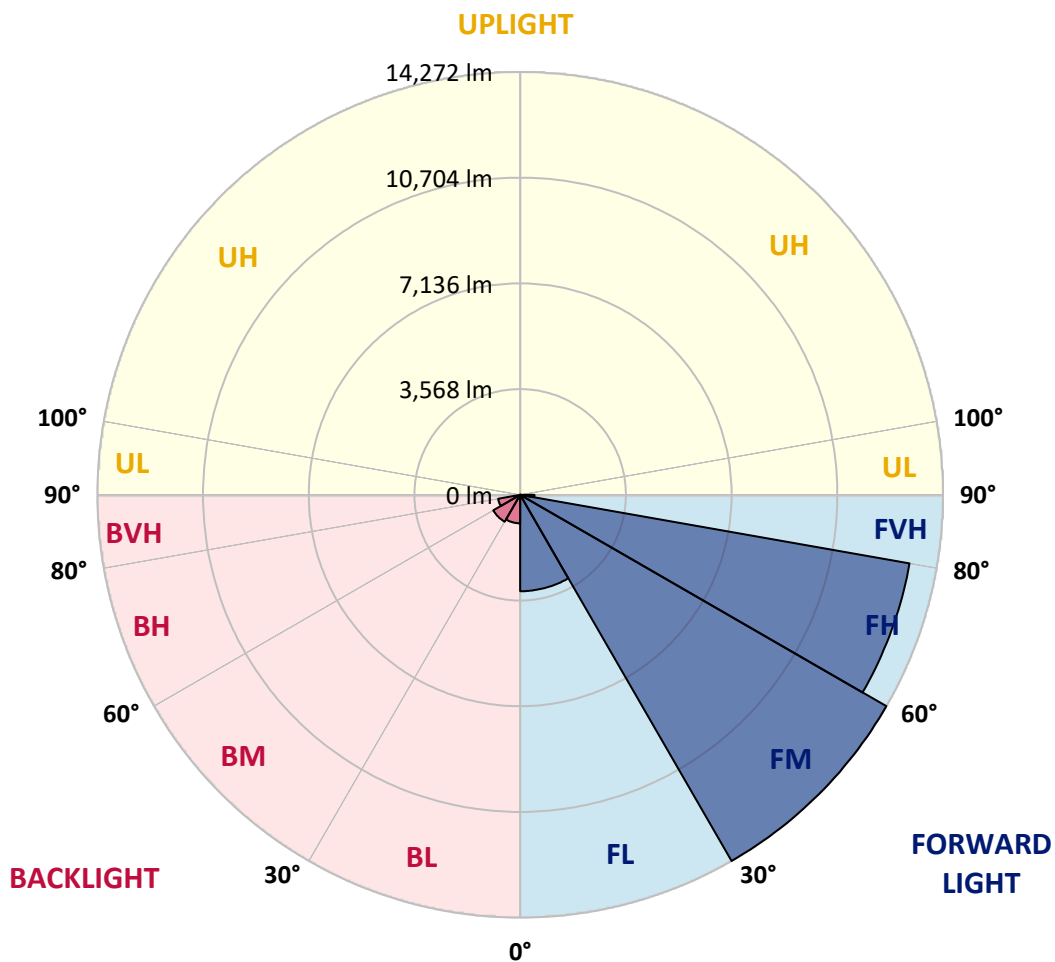
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3254.0	9.5			
FM	(30°-60°)	14272.5	41.8			
FH	(60°-80°)	13343.9	39.1			G5
FVH	(80°-90°)	480.9	1.4			G3/500
BL	(0°-30°)	962.1	2.8	B2/1000		
BM	(30°-60°)	1047.3	3.1	B2/2500		
BH	(60°-80°)	754.8	2.2	B2/1000		G2/1000
BVH	(80°-90°)	15.3	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7
2.5°	9736.9	9733.0	9690.5	9671.2	9636.5	9563.2	9449.2	9389.5	9292.9	9125.0	8899.2
5°	9648.1	9694.4	9719.5	9721.4	9746.5	9719.5	9617.2	9566.9	9433.9	9163.6	8758.3
7.5°	9045.9	9063.2	9134.6	9196.4	9316.1	9430.0	9466.6	9445.4	9366.2	9076.7	8538.3
10°	8401.3	8418.7	8503.6	8584.6	8746.7	8922.4	9107.6	9146.2	9179.0	8953.3	8326.0
12.5°	7845.4	7862.8	7949.7	8055.8	8245.0	8461.1	8748.7	8812.3	8957.1	8835.5	8156.2
15°	7366.8	7374.6	7459.5	7590.7	7816.5	8094.4	8420.5	8522.8	8744.8	8752.6	8007.6
17.5°	6959.5	6978.9	7030.9	7156.5	7403.5	7747.0	8127.2	8273.9	8534.5	8683.0	7862.8
20°	6710.6	6729.9	6727.9	6797.4	7019.4	7386.1	7833.9	8009.5	8326.0	8611.6	7733.5
22.5°	6662.4	6662.4	6612.1	6602.5	6733.8	7040.7	7528.9	7743.1	8138.8	8580.7	7642.8
25°	6834.1	6826.4	6700.9	6598.6	6604.5	6787.8	7233.6	7488.4	7980.6	8602.0	7594.5
27.5°	7197.0	7187.3	7029.0	6834.1	6677.8	6675.9	7009.8	7283.8	7855.0	8702.3	7613.8
30°	7698.7	7694.8	7523.1	7278.0	6994.3	6733.8	6932.5	7181.5	7774.0	8883.7	7658.2
32.5°	8246.8	8241.1	8111.8	7853.2	7494.1	6994.3	7013.6	7222.0	7797.1	9125.0	7766.3
35°	8827.8	8818.1	8762.2	8536.3	8140.7	7474.9	7279.9	7442.1	7943.8	9485.9	7978.6
37.5°	9457.0	9466.6	9507.2	9291.0	8876.0	8148.4	7725.7	7835.8	8239.2	9976.1	8324.1
40°	10385.3	10383.4	10396.9	10113.2	9713.6	8972.5	8349.1	8383.9	8733.2	10626.5	8849.0
42.5°	12070.2	11952.5	11595.5	11016.4	10615.0	9914.3	9134.6	9098.0	9337.3	11431.4	9584.3
45°	14334.1	14083.2	13156.8	12047.0	11533.7	10975.9	10101.6	9983.9	10136.3	12398.3	10491.5
47.5°	16281.4	16020.8	14710.4	13120.1	12508.3	11983.4	11234.5	11022.2	11072.4	13481.1	11641.7
50°	16943.4	16816.1	15671.5	14054.2	13452.1	13251.3	12548.8	12290.2	12218.8	14733.6	12975.3
52.5°	16713.8	16704.1	15941.8	14660.2	14316.7	14563.8	14202.9	13903.6	13641.2	16053.7	14332.2
55°	16345.1	16393.4	16051.7	15191.0	15179.4	15762.2	16464.8	16215.8	15455.4	17487.7	15501.7
57.5°	15328.0	15534.5	15990.1	16194.5	16669.4	17265.8	18348.5	18495.2	17595.8	18585.9	16472.5
60°	12436.9	12890.4	14380.4	16339.3	18589.7	20075.8	20622.0	20747.5	19352.1	19498.8	17783.0
62.5°	8827.8	9291.0	11180.4	14494.3	18618.6	23767.9	24009.2	23517.0	21285.9	20851.6	20043.0
65°	4686.0	5043.0	6587.1	10462.5	16142.5	24624.8	29932.3	28465.4	24698.1	23513.1	22963.1
67.5°	2397.1	2505.1	3118.9	5120.3	11097.5	21872.6	35241.7	36274.2	30578.9	26153.4	22822.1
69°	2121.1	2184.7	2592.0	3701.8	7106.2	18526.0	35500.3	38955.0	33657.1	25933.3	20739.7
70°	2053.5	2109.5	2480.0	3350.5	5554.5	15536.5	34510.3	38719.5	34444.6	25095.7	19184.1
72.5°	1742.8	1791.1	2207.9	2960.6	4514.3	7712.2	28033.1	32809.9	30908.9	20905.7	13886.4
75°	1165.8	1324.0	2119.1	2775.4	4199.6	4381.1	18481.7	23710.0	22025.1	14100.6	7233.6
77.5°	279.9	301.1	598.3	2207.9	3840.7	3856.1	9505.3	14739.4	12021.9	5025.7	1710.0
80°	150.6	144.7	167.9	438.1	3576.2	3618.7	4278.8	7154.5	4292.3	833.8	563.5
82.5°	106.2	100.4	108.1	183.3	1125.1	3296.5	3095.8	3238.6	1779.4	320.4	252.9
85°	38.6	36.6	59.8	166.0	353.2	1895.2	3180.7	2671.1	1441.7	146.7	185.3
87.5°	13.5	11.6	23.1	90.7	108.1	806.7	1962.8	2018.8	567.4	88.8	86.8
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°	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7	8883.7
2.5°	8804.6	8685.0	8464.9	8239.2	8030.7	7779.8	7654.3	7530.9	7478.7	7459.5	7368.7
5°	8549.9	8347.2	7880.2	7411.2	6978.9	6519.5	6216.5	5973.3	5830.5	5761.1	5651.0
7.5°	8223.7	7891.8	7183.5	6459.7	5786.1	5122.2	4630.1	4251.8	3991.2	3865.7	3751.9
10°	7907.2	7465.2	6457.8	5471.6	4556.7	3676.7	2997.2	2505.1	2190.5	2045.8	1953.1
12.5°	7623.4	7050.3	5757.2	4508.5	3360.1	2329.5	1638.6	1246.8	1051.8	984.3	951.4
15°	7370.7	6668.1	5095.2	3593.6	2275.5	1331.7	895.5	762.3	731.5	731.5	727.6
17.5°	7131.3	6293.7	4456.4	2734.8	1428.2	814.5	681.3	663.9	663.9	671.7	671.7
20°	6901.6	5936.7	3838.7	1962.8	899.4	646.5	615.7	611.8	615.7	625.3	625.3
22.5°	6704.8	5612.4	3261.7	1347.1	667.8	582.9	567.4	561.6	563.5	569.4	573.2
25°	6558.1	5338.4	2717.5	912.9	575.1	530.7	513.4	503.7	496.0	496.0	499.9
27.5°	6465.5	5106.8	2190.5	663.9	517.2	482.5	455.5	440.1	422.7	413.1	416.9
30°	6397.9	4886.7	1696.5	542.4	463.2	428.4	393.7	368.7	343.5	331.9	335.8
32.5°	6372.9	4709.2	1268.0	478.6	414.9	376.3	333.9	301.1	274.0	264.4	266.4
35°	6440.4	4568.3	928.3	432.3	376.3	328.1	279.9	243.2	222.0	216.1	218.1
37.5°	6618.0	4493.0	694.8	393.7	341.6	287.6	233.5	198.8	185.3	185.3	187.2
40°	6953.8	4491.1	557.8	366.7	310.8	249.0	193.0	167.9	160.2	164.1	166.0
42.5°	7444.0	4593.4	486.3	341.6	283.7	212.3	160.2	142.8	140.9	144.7	146.7
45°	8113.7	4780.6	447.7	320.4	254.7	177.6	135.1	123.5	123.5	129.3	131.2
47.5°	8933.9	5054.6	414.9	299.1	225.8	148.6	115.8	108.1	110.0	115.8	117.7
50°	9922.1	5400.2	382.2	276.0	204.6	123.5	100.4	94.5	96.5	104.2	106.2
52.5°	11047.3	5865.3	355.2	254.7	177.6	102.3	84.9	81.0	84.9	92.7	94.5
55°	12012.3	6282.1	322.3	237.4	142.8	84.9	69.5	69.5	73.3	83.0	84.9
57.5°	12940.6	6718.3	293.4	204.6	111.9	67.5	57.9	59.8	65.6	75.3	77.2
60°	14303.2	7457.5	258.6	171.8	84.9	54.0	48.3	50.2	57.9	67.5	69.5
62.5°	16617.2	8582.7	223.9	142.8	65.6	42.5	38.6	42.5	52.1	63.7	65.6
65°	18705.5	9040.1	183.3	119.7	50.2	32.8	32.8	38.6	50.2	61.8	63.7
67.5°	17541.8	7609.9	142.8	94.5	38.6	25.1	27.0	36.6	48.3	61.8	63.7
69°	15513.3	6222.3	121.6	75.3	32.8	23.1	25.1	36.6	48.3	59.8	61.8
70°	13932.6	5253.5	108.1	63.7	28.9	23.1	25.1	34.8	48.3	59.8	61.8
72.5°	9331.6	2837.1	86.8	46.3	27.0	21.3	21.3	34.8	46.3	57.9	59.8
75°	4010.5	783.6	69.5	32.8	23.1	19.3	19.3	32.8	44.4	56.0	59.8
77.5°	733.4	198.8	56.0	28.9	23.1	19.3	17.4	30.9	42.5	54.0	56.0
80°	291.4	98.4	44.4	25.1	21.3	17.4	15.4	28.9	40.5	52.1	54.0
82.5°	175.6	56.0	36.6	23.1	21.3	15.4	13.5	25.1	38.6	50.2	52.1
85°	142.8	38.6	28.9	23.1	19.3	15.4	11.6	23.1	34.8	48.3	50.2
87.5°	69.5	27.0	27.0	21.3	19.3	15.4	11.6	21.3	32.8	46.3	48.3
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)