

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: P191141

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191141
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-03-LED-E1-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 17421.9 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 191
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

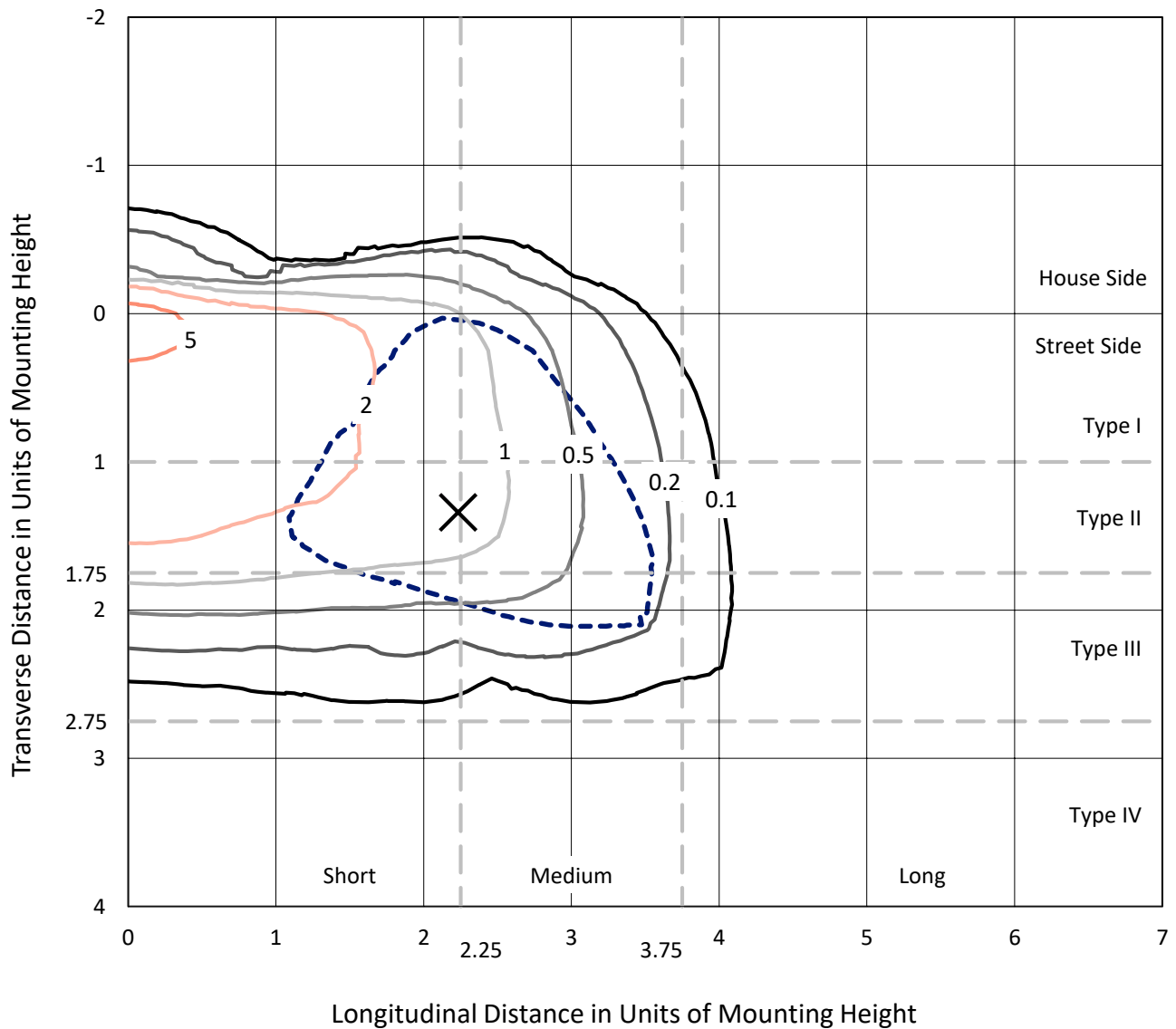


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

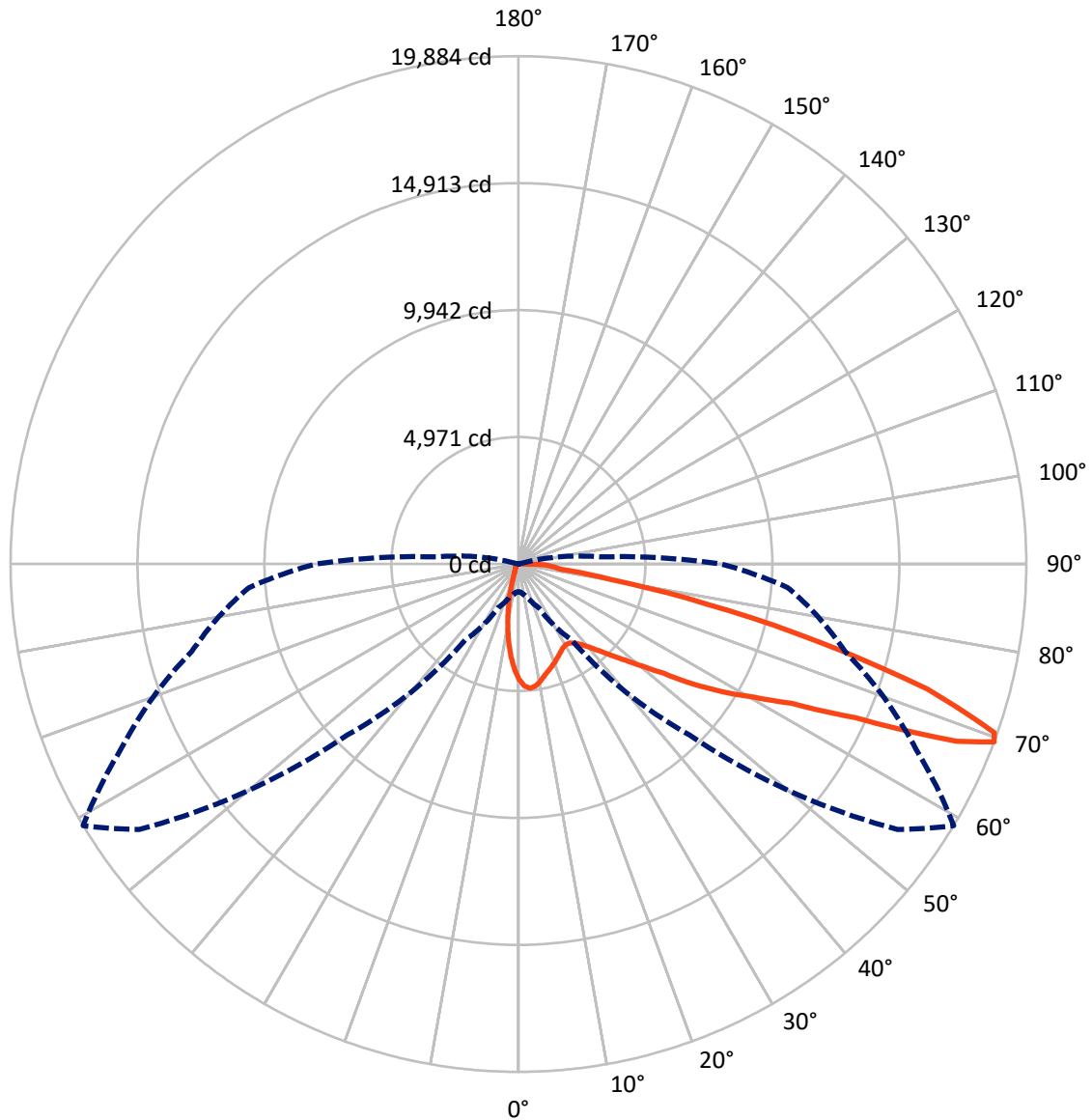


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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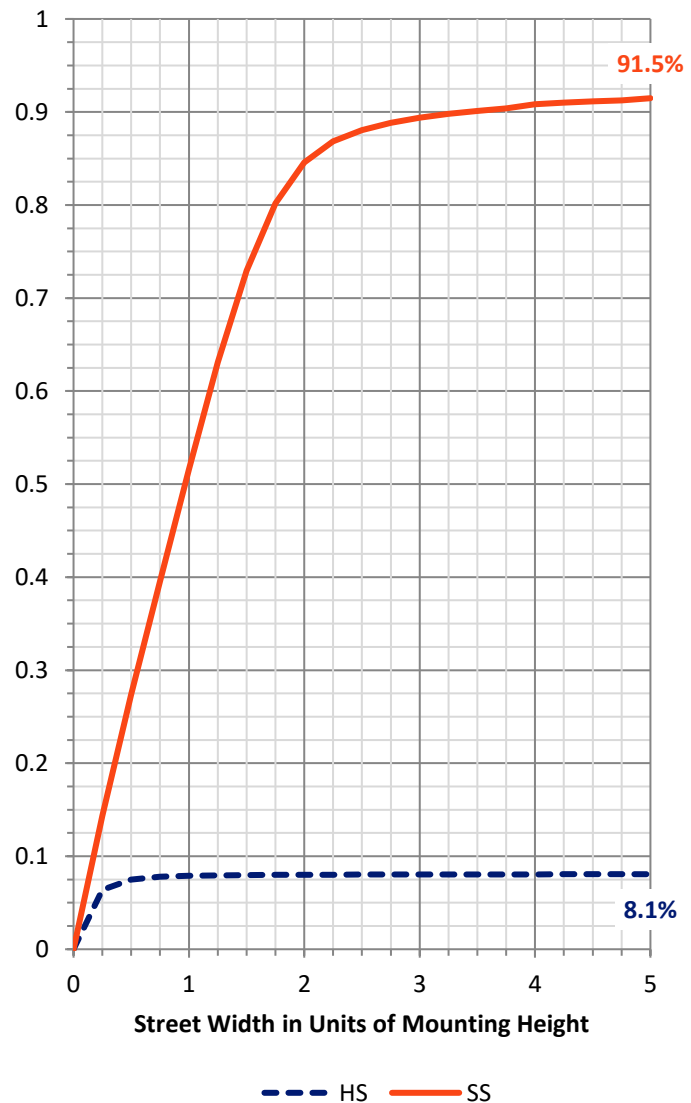
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1418.8	0.0	1418.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	16003.1	0.0	16003.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	17421.9	0.0	17421.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	368.1	2.1
10°-20°	760.6	4.4
20°-30°	1023.4	5.9
30°-40°	1485.9	8.5
40°-50°	2474.2	14.2
50°-60°	3859.7	22.2
60°-70°	4776.1	27.4
70°-80°	2420.5	13.9
80°-90°	253.3	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°	17421.9	100.0
0°-180°	17421.9	100.0



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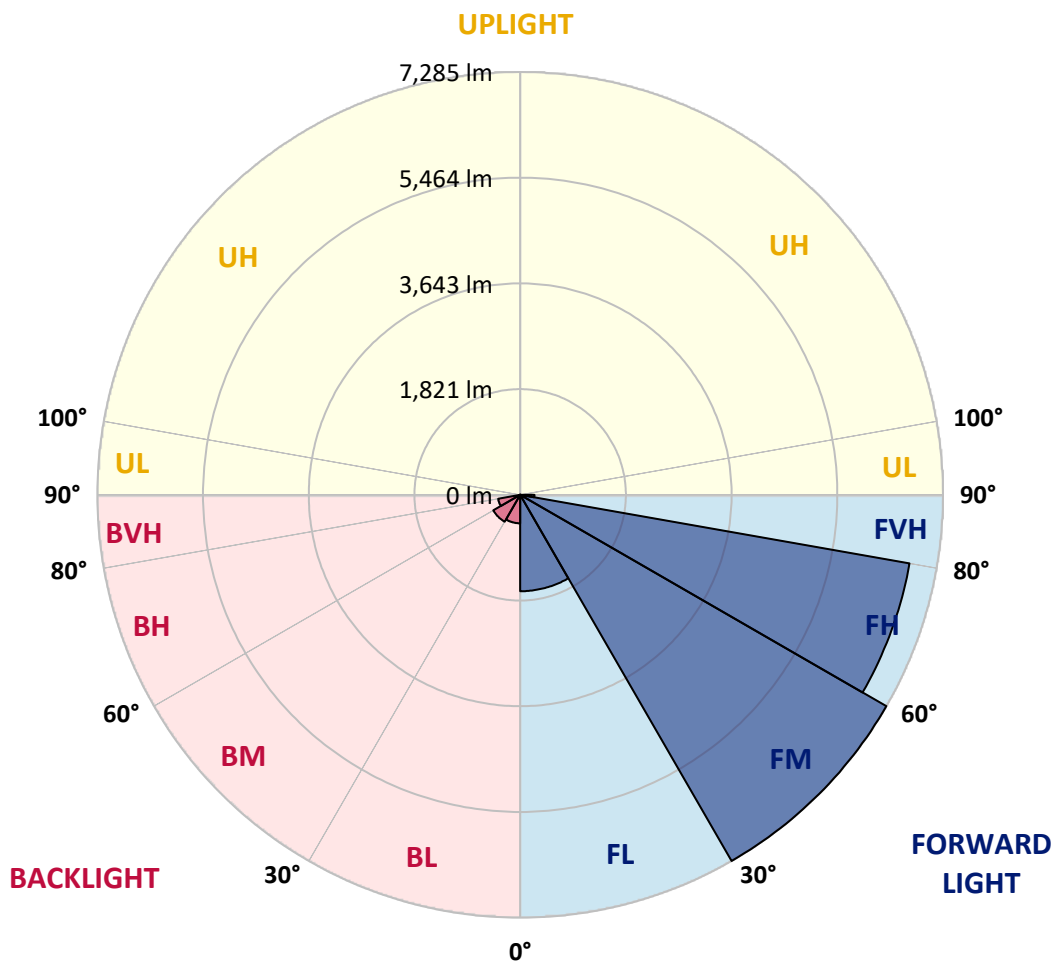
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1661.0	9.5			
FM	(30°-60°)	7285.3	41.8			
FH	(60°-80°)	6811.3	39.1			G3/7500
FVH	(80°-90°)	245.5	1.4			G3/500
BL	(0°-30°)	491.1	2.8	B1/500		
BM	(30°-60°)	534.6	3.1	B1/1000		
BH	(60°-80°)	385.3	2.2	B1/500		G1/500
BVH	(80°-90°)	7.8	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6
2.5°	4970.1	4968.2	4946.5	4936.7	4918.9	4881.4	4823.3	4792.8	4743.5	4657.8	4542.5
5°	4924.8	4948.4	4961.2	4962.2	4975.0	4961.2	4909.0	4883.5	4815.4	4677.5	4470.6
7.5°	4617.4	4626.3	4662.7	4694.2	4755.4	4813.5	4832.2	4821.4	4781.0	4633.1	4358.3
10°	4288.4	4297.2	4340.6	4382.0	4464.8	4554.4	4648.9	4668.6	4685.4	4570.1	4250.0
12.5°	4004.6	4013.5	4057.8	4112.1	4208.6	4318.9	4465.7	4498.2	4572.1	4510.1	4163.3
15°	3760.4	3764.3	3807.6	3874.6	3989.9	4131.7	4298.2	4350.4	4463.7	4467.6	4087.4
17.5°	3552.5	3562.3	3588.9	3653.0	3779.1	3954.4	4148.5	4223.4	4356.3	4432.2	4013.5
20°	3425.4	3435.3	3434.3	3469.7	3583.0	3770.2	3998.7	4088.4	4250.0	4395.7	3947.6
22.5°	3400.8	3400.8	3375.1	3370.2	3437.2	3593.8	3843.1	3952.5	4154.4	4380.0	3901.2
25°	3488.5	3484.5	3420.4	3368.3	3371.2	3464.8	3692.3	3822.4	4073.6	4390.8	3876.6
27.5°	3673.6	3668.7	3587.9	3488.5	3408.7	3407.7	3578.1	3718.0	4009.6	4442.1	3886.4
30°	3929.8	3927.8	3840.2	3715.1	3570.2	3437.2	3538.7	3665.7	3968.2	4534.6	3909.1
32.5°	4209.5	4206.6	4140.6	4008.6	3825.3	3570.2	3580.0	3686.4	3980.0	4657.8	3964.2
35°	4506.1	4501.2	4472.6	4357.4	4155.4	3815.5	3716.0	3798.7	4054.9	4842.0	4072.7
37.5°	4827.3	4832.2	4852.9	4742.5	4530.8	4159.3	3943.6	3999.7	4205.7	5092.2	4248.9
40°	5301.1	5300.1	5307.1	5162.2	4958.2	4580.0	4261.8	4279.5	4457.8	5424.3	4516.9
42.5°	6161.1	6101.1	5918.8	5623.3	5418.4	5060.7	4662.7	4644.0	4766.2	5835.1	4892.3
45°	7316.8	7188.7	6715.8	6149.4	5887.3	5602.6	5156.3	5096.2	5174.1	6328.7	5355.4
47.5°	8310.8	8177.8	7508.9	6697.1	6384.7	6116.8	5734.6	5626.2	5651.8	6881.3	5942.4
50°	8648.6	8583.7	7999.5	7174.0	6866.6	6764.1	6405.5	6273.5	6237.0	7520.6	6623.2
52.5°	8531.4	8526.5	8137.4	7483.3	7307.9	7434.0	7249.8	7097.0	6963.1	8194.6	7315.7
55°	8343.3	8367.9	8193.5	7754.2	7748.2	8045.8	8404.4	8277.3	7889.1	8926.5	7912.7
57.5°	7824.1	7929.5	8162.0	8266.5	8508.8	8813.2	9365.8	9440.7	8981.7	9487.1	8408.3
60°	6348.3	6579.8	7340.4	8340.3	9489.0	10247.6	10526.4	10590.4	9878.1	9953.0	9077.3
62.5°	4506.1	4742.5	5707.0	7398.5	9503.8	12132.2	12255.4	12004.1	10865.3	10643.6	10230.8
65°	2392.0	2574.3	3362.3	5340.5	8239.9	12569.6	15278.8	14530.1	12607.1	12002.2	11721.4
67.5°	1223.6	1278.7	1592.0	2613.6	5664.7	11164.8	17989.0	18516.0	15608.8	13349.8	11649.5
69°	1082.7	1115.2	1323.1	1889.5	3627.4	9456.5	18121.0	19884.4	17180.2	13237.5	10586.5
70°	1048.2	1076.8	1265.9	1710.3	2835.3	7930.5	17615.6	19764.2	17582.1	12810.0	9792.4
72.5°	889.6	914.2	1127.0	1511.2	2304.3	3936.7	14309.3	16747.6	15777.3	10671.2	7088.2
75°	595.1	675.9	1081.7	1416.7	2143.7	2236.3	9433.9	12102.6	11242.6	7197.6	3692.3
77.5°	142.8	153.6	305.4	1127.0	1960.5	1968.4	4851.9	7523.6	6136.6	2565.4	872.9
80°	76.8	73.9	85.7	223.6	1825.5	1847.1	2184.1	3651.9	2191.0	425.5	287.7
82.5°	54.2	51.2	55.1	93.6	574.4	1682.7	1580.2	1653.1	908.3	163.6	129.1
85°	19.7	18.7	30.6	84.7	180.2	967.4	1623.5	1363.5	735.9	74.9	94.6
87.5°	6.9	5.9	11.9	46.3	55.1	411.8	1001.9	1030.5	289.6	45.3	44.3
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°	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6	4534.6
2.5°	4494.2	4433.2	4320.9	4205.7	4099.3	3971.2	3907.2	3844.0	3817.4	3807.6	3761.3
5°	4364.2	4260.8	4022.3	3783.0	3562.3	3327.9	3173.2	3049.0	2976.2	2940.7	2884.5
7.5°	4197.8	4028.3	3666.8	3297.3	2953.5	2614.6	2363.4	2170.3	2037.3	1973.3	1915.2
10°	4036.2	3810.6	3296.4	2793.0	2326.0	1876.7	1529.9	1278.7	1118.2	1044.2	997.0
12.5°	3891.4	3598.7	2938.7	2301.3	1715.2	1189.1	836.4	636.4	536.9	502.5	485.7
15°	3762.3	3403.7	2600.9	1834.4	1161.5	679.8	457.2	389.1	373.4	373.4	371.4
17.5°	3640.2	3212.6	2274.7	1395.9	729.1	415.7	347.8	338.9	338.9	342.8	342.8
20°	3522.9	3030.4	1959.5	1001.9	459.1	330.0	314.3	312.3	314.3	319.2	319.2
22.5°	3422.4	2864.9	1665.0	687.6	340.8	297.5	289.6	286.6	287.7	290.6	292.6
25°	3347.6	2724.9	1387.1	466.0	293.6	270.9	262.1	257.2	253.2	253.2	255.1
27.5°	3300.2	2606.7	1118.2	338.9	264.0	246.3	232.5	224.6	215.7	210.8	212.8
30°	3265.8	2494.5	865.9	276.8	236.4	218.7	201.0	188.1	175.3	169.4	171.4
32.5°	3253.0	2403.7	647.2	244.3	211.9	192.1	170.4	153.6	139.9	134.9	136.0
35°	3287.5	2331.8	473.8	220.7	192.1	167.5	142.8	124.1	113.3	110.4	111.3
37.5°	3378.1	2293.5	354.7	201.0	174.4	146.8	119.2	101.5	94.6	94.6	95.5
40°	3549.5	2292.4	284.7	187.2	158.7	127.1	98.5	85.7	81.7	83.8	84.7
42.5°	3799.8	2344.7	248.3	174.4	144.8	108.3	81.7	72.9	71.9	73.9	74.9
45°	4141.6	2440.2	228.5	163.6	130.0	90.6	68.9	63.0	63.0	66.0	67.0
47.5°	4560.3	2580.1	211.9	152.7	115.3	75.9	59.1	55.1	56.2	59.1	60.0
50°	5064.7	2756.4	195.1	140.9	104.4	63.0	51.2	48.3	49.3	53.2	54.2
52.5°	5639.0	2993.9	181.3	130.0	90.6	52.2	43.4	41.3	43.4	47.3	48.3
55°	6131.6	3206.6	164.5	121.2	72.9	43.4	35.5	35.5	37.4	42.4	43.4
57.5°	6605.5	3429.3	149.8	104.4	57.2	34.5	29.6	30.6	33.5	38.5	39.4
60°	7301.0	3806.6	132.0	87.7	43.4	27.6	24.7	25.6	29.6	34.5	35.5
62.5°	8482.2	4381.0	114.3	72.9	33.5	21.7	19.7	21.7	26.6	32.5	33.5
65°	9548.1	4614.4	93.6	61.1	25.6	16.8	16.8	19.7	25.6	31.5	32.5
67.5°	8954.1	3884.5	72.9	48.3	19.7	12.8	13.8	18.7	24.7	31.5	32.5
69°	7918.7	3176.2	62.1	38.5	16.8	11.9	12.8	18.7	24.7	30.6	31.5
70°	7111.9	2681.6	55.1	32.5	14.7	11.9	12.8	17.7	24.7	30.6	31.5
72.5°	4763.3	1448.2	44.3	23.6	13.8	10.8	10.8	17.7	23.6	29.6	30.6
75°	2047.1	400.0	35.5	16.8	11.9	9.8	9.8	16.8	22.7	28.5	30.6
77.5°	374.4	101.5	28.5	14.7	11.9	9.8	8.9	15.8	21.7	27.6	28.5
80°	148.7	50.2	22.7	12.8	10.8	8.9	7.9	14.7	20.7	26.6	27.6
82.5°	89.6	28.5	18.7	11.9	10.8	7.9	6.9	12.8	19.7	25.6	26.6
85°	72.9	19.7	14.7	11.9	9.8	7.9	5.9	11.9	17.7	24.7	25.6
87.5°	35.5	13.8	13.8	10.8	9.8	7.9	5.9	10.8	16.8	23.6	24.7
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)