

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: P269719

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269719
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-10-LED-E1-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 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: 47970.9 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 640
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

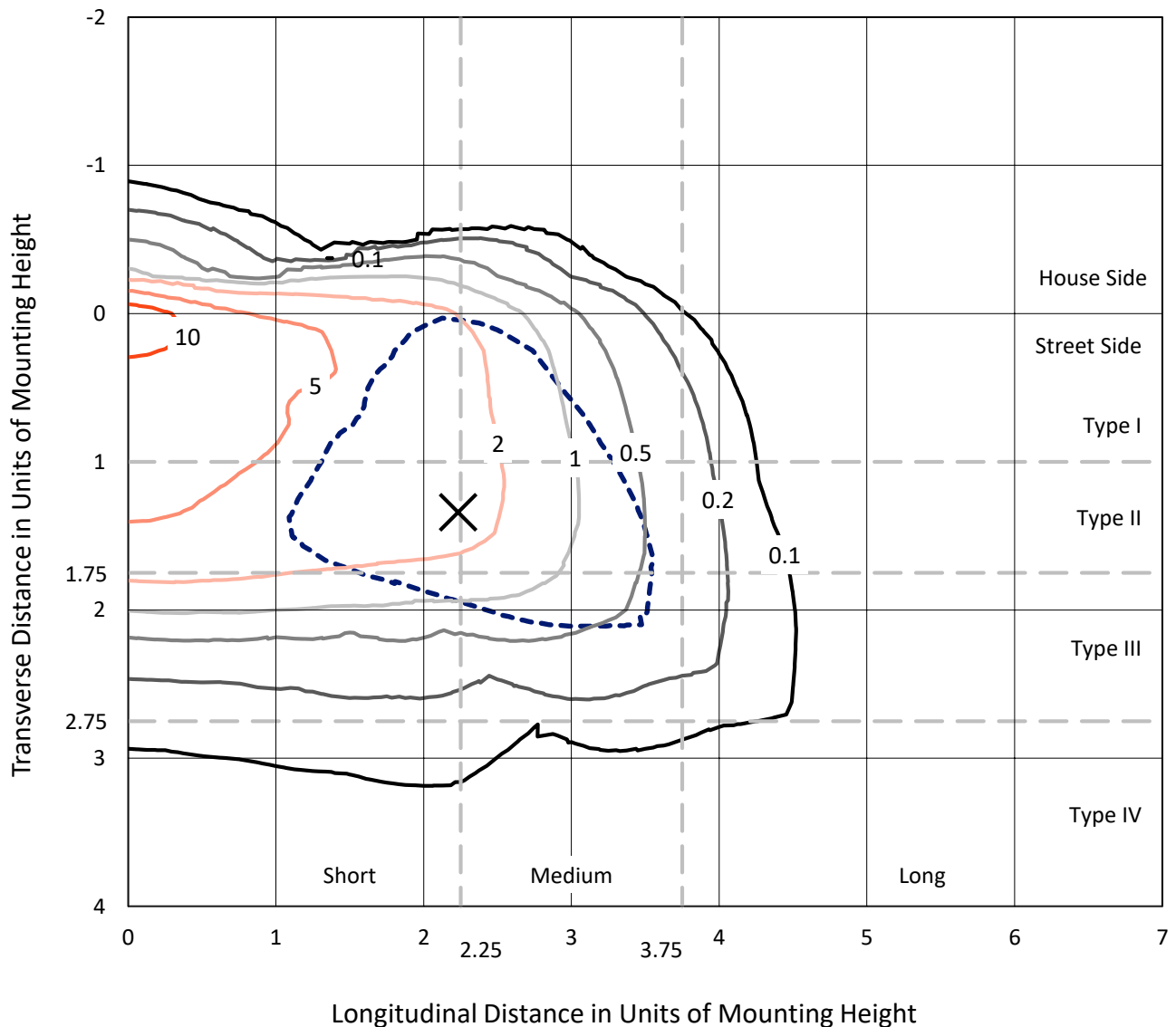


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

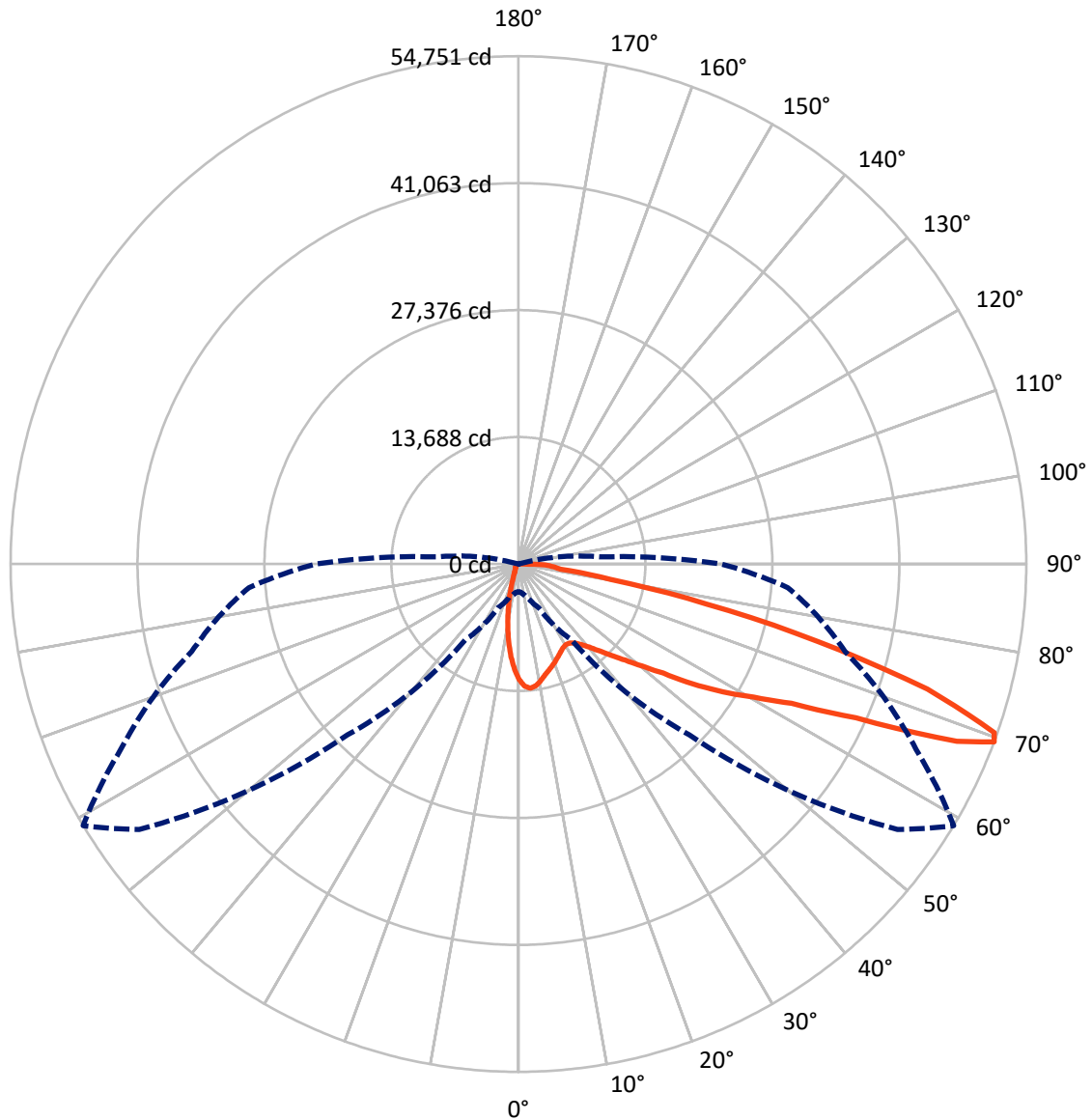


Based on 30 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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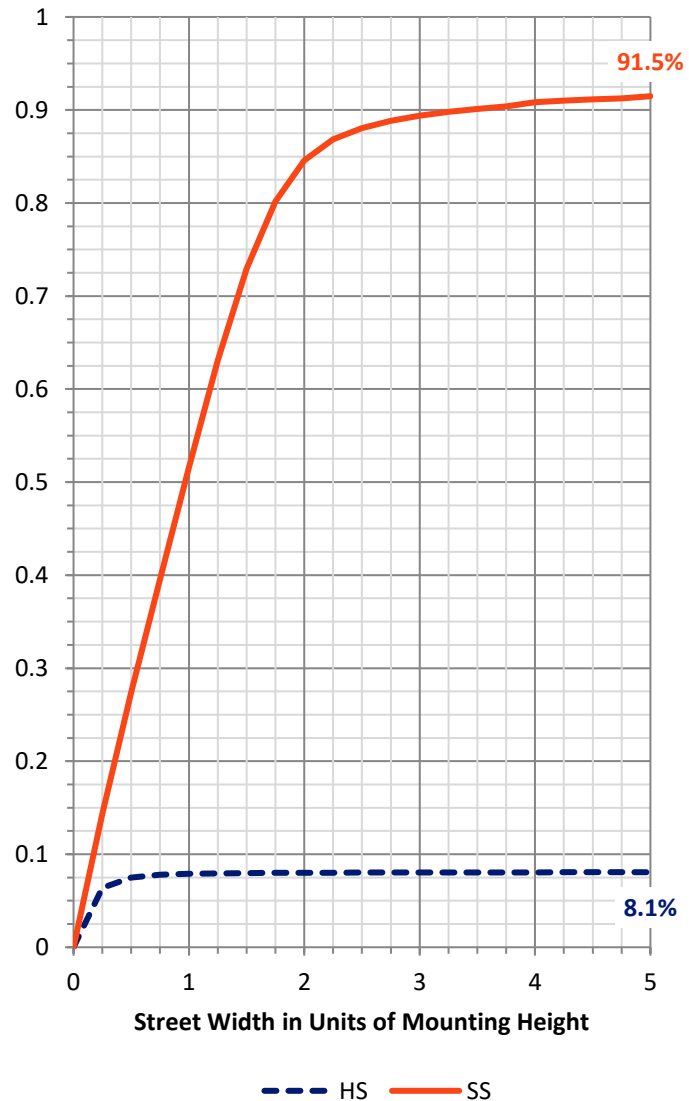
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3906.6	0.0	3906.6
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	44064.3	0.0	44064.3
	% Fixture	91.9	0.0	91.9
Total	Lumens	47970.9	0.0	47970.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.5	2.1
10°-20°	2094.2	4.4
20°-30°	2818.0	5.9
30°-40°	4091.5	8.5
40°-50°	6812.7	14.2
50°-60°	10627.7	22.2
60°-70°	13151.0	27.4
70°-80°	6664.8	13.9
80°-90°	697.4	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°	47970.9	100.0
0°-180°	47970.9	100.0



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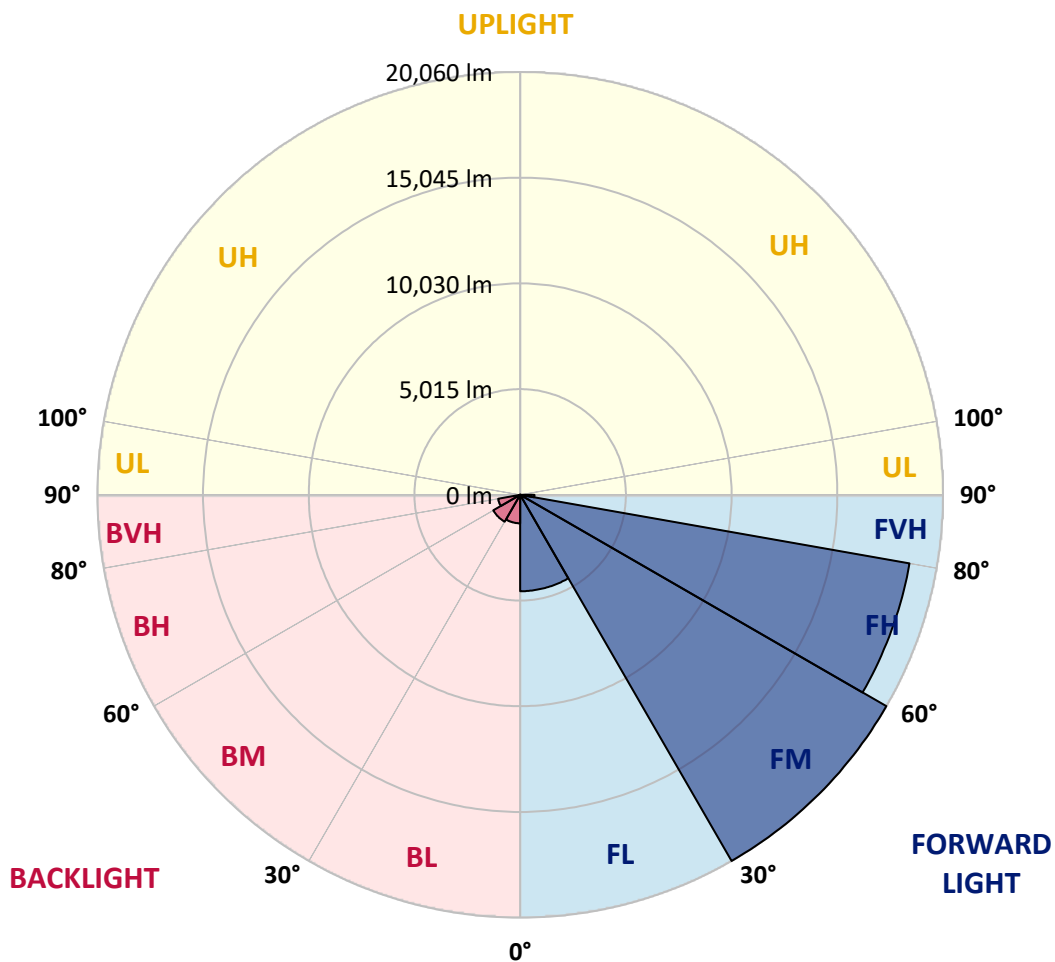
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4573.5	9.5			
FM (30°-60°)	20060.0	41.8			
FH (60°-80°)	18754.9	39.1			G5
FVH (80°-90°)	675.9	1.4			G4/750
BL (0°-30°)	1352.2	2.8	B3/2500		
BM (30°-60°)	1472.0	3.1	B2/2500		
BH (60°-80°)	1060.9	2.2	B3/2500		G3/2500
BVH (80°-90°)	21.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1
2.5°	13685.0	13679.7	13620.0	13593.0	13544.0	13441.0	13280.9	13196.9	13061.3	12825.2	12507.9
5°	13560.4	13625.4	13660.7	13663.4	13698.8	13660.7	13516.9	13446.4	13259.3	12879.4	12309.8
7.5°	12714.0	12738.4	12838.8	12925.6	13093.8	13253.9	13305.3	13275.5	13164.3	12757.4	12000.5
10°	11808.0	11832.5	11951.8	12065.8	12293.6	12540.3	12800.8	12855.0	12901.2	12583.7	11702.2
12.5°	11026.8	11051.2	11173.3	11322.4	11588.2	11892.1	12296.3	12385.8	12589.2	12418.3	11463.5
15°	10354.0	10365.0	10484.3	10668.7	10986.1	11376.8	11835.1	11978.9	12290.9	12301.7	11254.7
17.5°	9781.6	9808.9	9882.1	10058.4	10405.5	10888.4	11422.8	11629.0	11995.2	12204.1	11051.2
20°	9431.8	9459.0	9456.2	9553.8	9865.7	10381.2	11010.4	11257.3	11702.2	12103.8	10869.4
22.5°	9363.9	9363.9	9293.4	9279.9	9464.4	9895.5	10581.9	10883.0	11439.0	12060.3	10741.9
25°	9605.3	9594.4	9418.2	9274.5	9282.5	9540.3	10166.8	10524.9	11216.6	12090.1	10674.1
27.5°	10115.4	10101.8	9879.3	9605.3	9385.6	9382.9	9852.3	10237.4	11040.3	12231.2	10701.2
30°	10820.7	10815.1	10573.8	10229.3	9830.5	9464.4	9743.7	10093.6	10926.4	12486.1	10763.6
32.5°	11591.0	11582.8	11401.1	11037.7	10533.0	9830.5	9857.6	10150.6	10959.0	12825.2	10915.6
35°	12407.5	12393.9	12315.3	11997.9	11441.8	10505.9	10232.0	10459.9	11165.2	13332.6	11213.9
37.5°	13291.9	13305.3	13362.4	13058.5	12475.3	11452.6	10858.6	11013.2	11580.1	14021.6	11699.4
40°	14596.6	14593.9	14612.9	14214.2	13652.6	12610.9	11734.7	11783.5	12274.6	14935.7	12437.4
42.5°	16964.8	16799.3	16297.4	15483.5	14919.4	13934.7	12838.8	12787.3	13123.6	16066.8	13470.9
45°	20146.6	19794.0	18491.9	16932.2	16210.5	15426.7	14197.8	14032.3	14246.6	17425.9	14745.8
47.5°	22883.7	22517.5	20675.5	18440.3	17580.5	16842.6	15790.0	15491.7	15562.2	18947.6	16362.4
50°	23814.1	23634.9	22026.4	19753.3	18906.8	18624.7	17637.4	17273.9	17173.5	20708.1	18236.9
52.5°	23491.2	23477.7	22406.2	20605.1	20122.2	20469.4	19962.1	19541.6	19172.7	22563.4	20143.9
55°	22973.2	23040.9	22560.8	21350.9	21334.7	22153.9	23141.2	22791.3	21722.6	24579.0	21787.8
57.5°	21543.6	21833.8	22473.9	22761.6	23428.9	24267.1	25788.8	25995.0	24730.9	26122.4	23152.1
60°	17480.1	18117.6	20211.7	22965.0	26127.9	28216.7	28984.3	29160.6	27199.4	27405.5	24994.0
62.5°	12407.5	13058.5	15714.2	20371.8	26168.5	33405.8	33744.9	33053.1	29917.4	29307.1	28170.5
65°	6586.3	7088.0	9258.1	14705.1	22688.3	34610.3	42070.0	40008.4	34713.4	33047.7	32274.7
67.5°	3369.1	3520.9	4383.5	7196.5	15597.5	30742.1	49532.4	50983.6	42978.7	36758.6	32076.7
69°	2981.1	3070.6	3643.0	5202.9	9987.9	26038.5	49895.7	54751.3	47305.3	36449.4	29149.7
70°	2886.3	2964.9	3485.8	4709.1	7806.9	21836.4	48504.3	54420.4	48411.9	35272.0	26963.3
72.5°	2449.5	2517.3	3103.3	4161.2	6344.8	10839.6	39400.6	46114.4	43442.6	29383.0	19517.3
75°	1638.4	1860.8	2978.4	3900.7	5902.7	6157.6	25976.0	33324.5	30956.3	19818.3	10166.8
77.5°	393.4	423.2	841.0	3103.3	5398.2	5419.8	13359.7	20716.3	16896.8	7063.6	2403.3
80°	211.6	203.5	236.1	615.8	5026.5	5086.2	6013.9	10055.6	6032.8	1171.8	792.0
82.5°	149.2	141.0	152.0	257.8	1581.5	4633.2	4351.0	4551.7	2501.1	450.3	355.4
85°	54.3	51.6	84.1	233.3	496.5	2663.7	4470.3	3754.2	2026.3	206.2	260.4
87.5°	19.0	16.3	32.6	127.5	152.0	1133.9	2758.8	2837.3	797.5	124.8	122.1
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°	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1	12486.1
2.5°	12375.0	12206.8	11897.5	11580.1	11287.2	10934.6	10758.2	10584.5	10511.3	10484.3	10356.7
5°	12016.8	11732.0	11075.7	10416.4	9808.9	9163.3	8737.4	8395.5	8194.8	8097.1	7942.5
7.5°	11558.4	11091.9	10096.3	9079.1	8132.4	7199.2	6507.5	5975.9	5609.6	5433.4	5273.3
10°	11113.7	10492.5	9076.5	7690.3	6404.5	5167.5	4212.7	3520.9	3078.9	2875.4	2745.2
12.5°	10714.9	9909.2	8091.8	6336.6	4722.7	3274.1	2303.1	1752.4	1478.4	1383.4	1337.3
15°	10359.4	9372.0	7161.3	5050.9	3198.1	1871.7	1258.6	1071.5	1028.1	1028.1	1022.7
17.5°	10023.1	8845.8	6263.4	3843.8	2007.4	1144.7	957.6	933.1	933.1	943.9	943.9
20°	9700.3	8343.9	5395.4	2758.8	1264.0	908.7	865.3	859.9	865.3	878.9	878.9
22.5°	9423.6	7888.2	4584.3	1893.4	938.5	819.3	797.5	789.4	792.0	800.2	805.6
25°	9217.5	7503.2	3819.4	1283.0	808.4	746.0	721.6	708.0	697.2	697.2	702.6
27.5°	9087.3	7177.5	3078.9	933.1	727.0	678.1	640.2	618.5	594.0	580.6	586.0
30°	8992.4	6868.4	2384.5	762.2	651.0	602.3	553.4	518.1	482.8	466.6	472.0
32.5°	8957.1	6618.8	1782.1	672.7	583.2	528.9	469.3	423.2	385.3	371.5	374.4
35°	9052.0	6420.7	1304.8	607.7	528.9	461.1	393.4	341.7	311.9	303.7	306.5
37.5°	9301.6	6314.9	976.5	553.4	480.1	404.1	328.2	279.5	260.4	260.4	263.2
40°	9773.6	6312.3	784.0	515.4	436.8	349.9	271.3	236.1	225.1	230.5	233.3
42.5°	10462.6	6455.9	683.6	480.1	398.8	298.3	225.1	200.7	198.0	203.5	206.2
45°	11403.9	6719.1	629.4	450.3	358.1	249.5	189.9	173.6	173.6	181.7	184.4
47.5°	12556.7	7104.3	583.2	420.4	317.5	208.9	162.8	152.0	154.6	162.8	165.5
50°	13945.6	7589.9	537.0	387.9	287.5	173.6	141.0	132.9	135.6	146.5	149.2
52.5°	15527.1	8243.7	499.1	358.1	249.5	143.8	119.4	113.9	119.4	130.3	132.9
55°	16883.4	8829.6	453.0	333.6	200.7	119.4	97.6	97.6	103.0	116.6	119.4
57.5°	18188.1	9442.7	412.3	287.5	157.4	95.0	81.3	84.1	92.3	105.8	108.5
60°	20103.2	10481.6	363.5	241.5	119.4	75.9	67.8	70.5	81.3	95.0	97.6
62.5°	23355.7	12063.0	314.6	200.7	92.3	59.6	54.3	59.6	73.2	89.6	92.3
65°	26290.7	12705.8	257.8	168.3	70.5	46.2	46.2	54.3	70.5	86.7	89.6
67.5°	24654.9	10695.8	200.7	132.9	54.3	35.3	38.0	51.6	67.8	86.7	89.6
69°	21804.0	8745.4	170.9	105.8	46.2	32.6	35.3	51.6	67.8	84.1	86.7
70°	19582.3	7383.7	152.0	89.6	40.8	32.6	35.3	48.8	67.8	84.1	86.7
72.5°	13115.4	3987.5	122.1	65.0	38.0	29.9	29.9	48.8	65.0	81.3	84.1
75°	5636.9	1101.3	97.6	46.2	32.6	27.0	27.0	46.2	62.4	78.7	84.1
77.5°	1030.7	279.5	78.7	40.8	32.6	27.0	24.4	43.4	59.6	75.9	78.7
80°	409.5	138.3	62.4	35.3	29.9	24.4	21.6	40.8	57.0	73.2	75.9
82.5°	246.9	78.7	51.6	32.6	29.9	21.6	19.0	35.3	54.3	70.5	73.2
85°	200.7	54.3	40.8	32.6	27.0	21.6	16.3	32.6	48.8	67.8	70.5
87.5°	97.6	38.0	38.0	29.9	27.0	21.6	16.3	29.9	46.2	65.0	67.8
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)