

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: P191145

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191145
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-07-LED-E1-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 40363.6 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

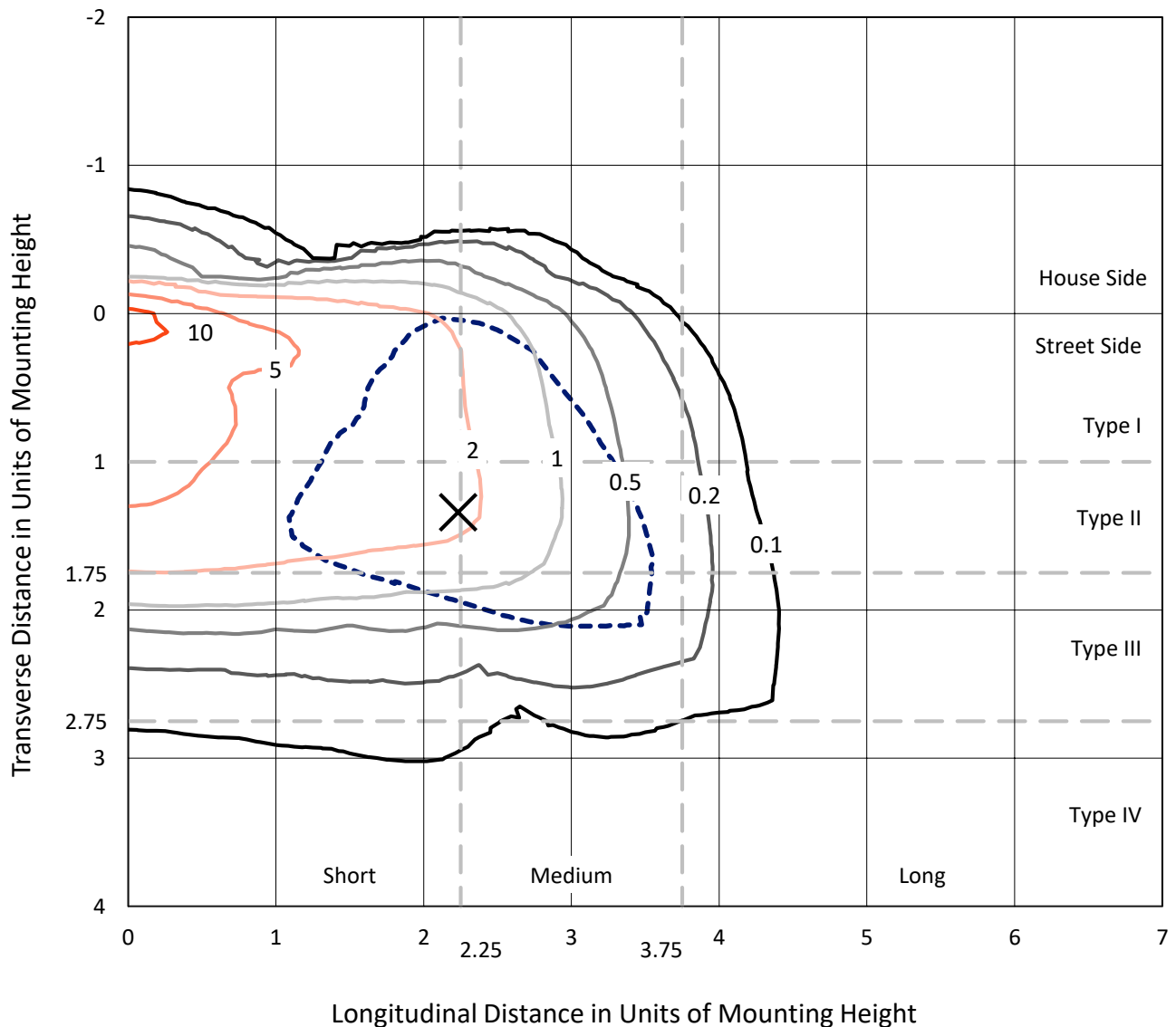
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

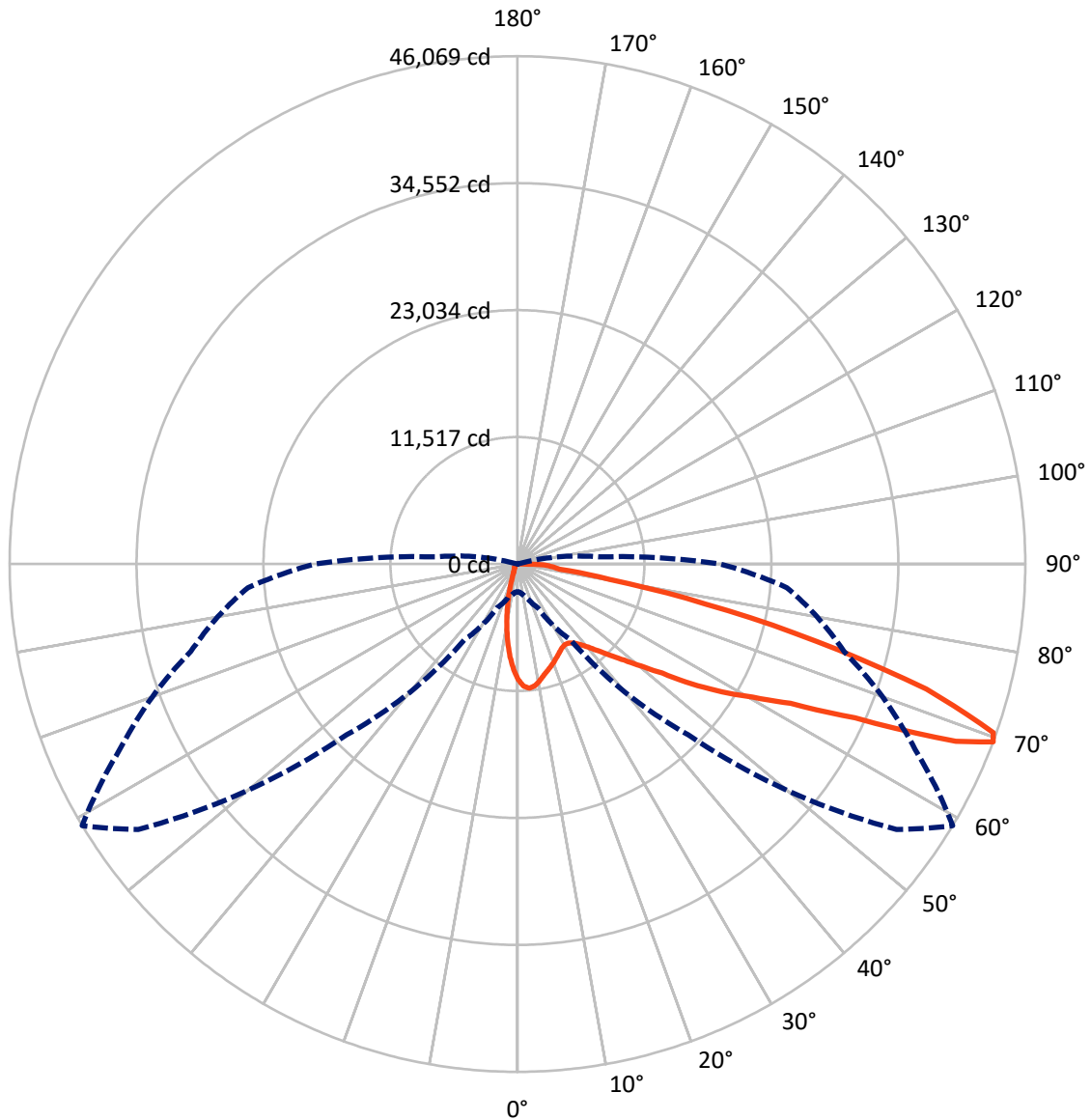
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.7 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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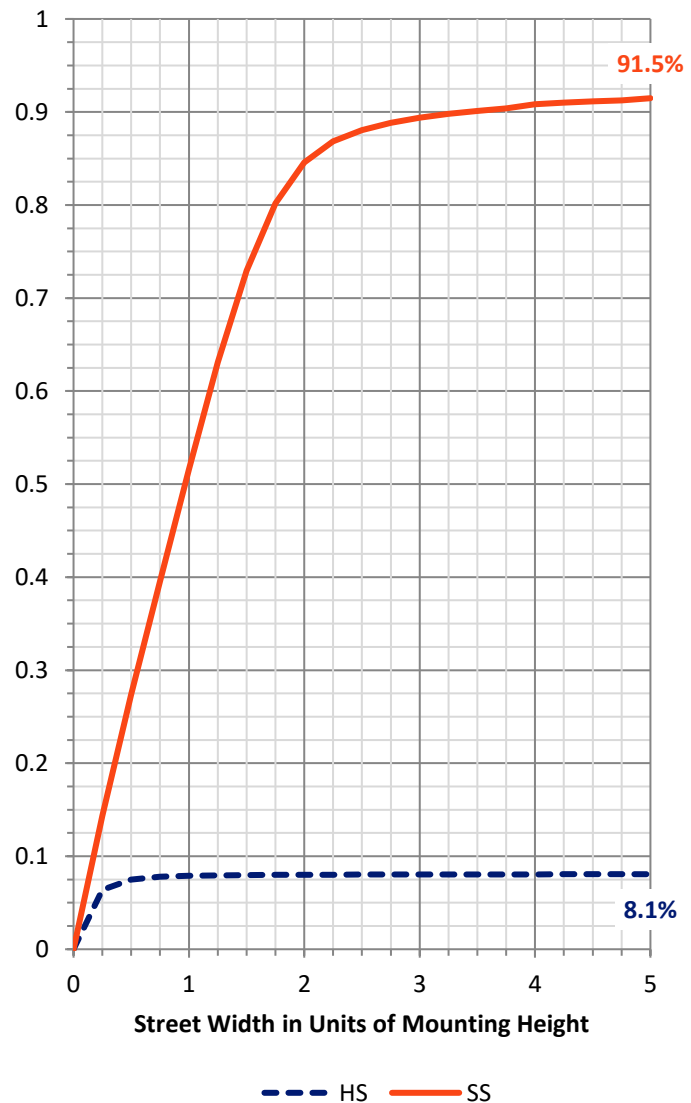
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.1	0.0	3287.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	37076.5	0.0	37076.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	40363.6	0.0	40363.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	852.8	2.1
10°-20°	1762.1	4.4
20°-30°	2371.1	5.9
30°-40°	3442.7	8.5
40°-50°	5732.4	14.2
50°-60°	8942.4	22.2
60°-70°	11065.5	27.4
70°-80°	5607.9	13.9
80°-90°	586.8	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°	40363.6	100.0
0°-180°	40363.6	100.0



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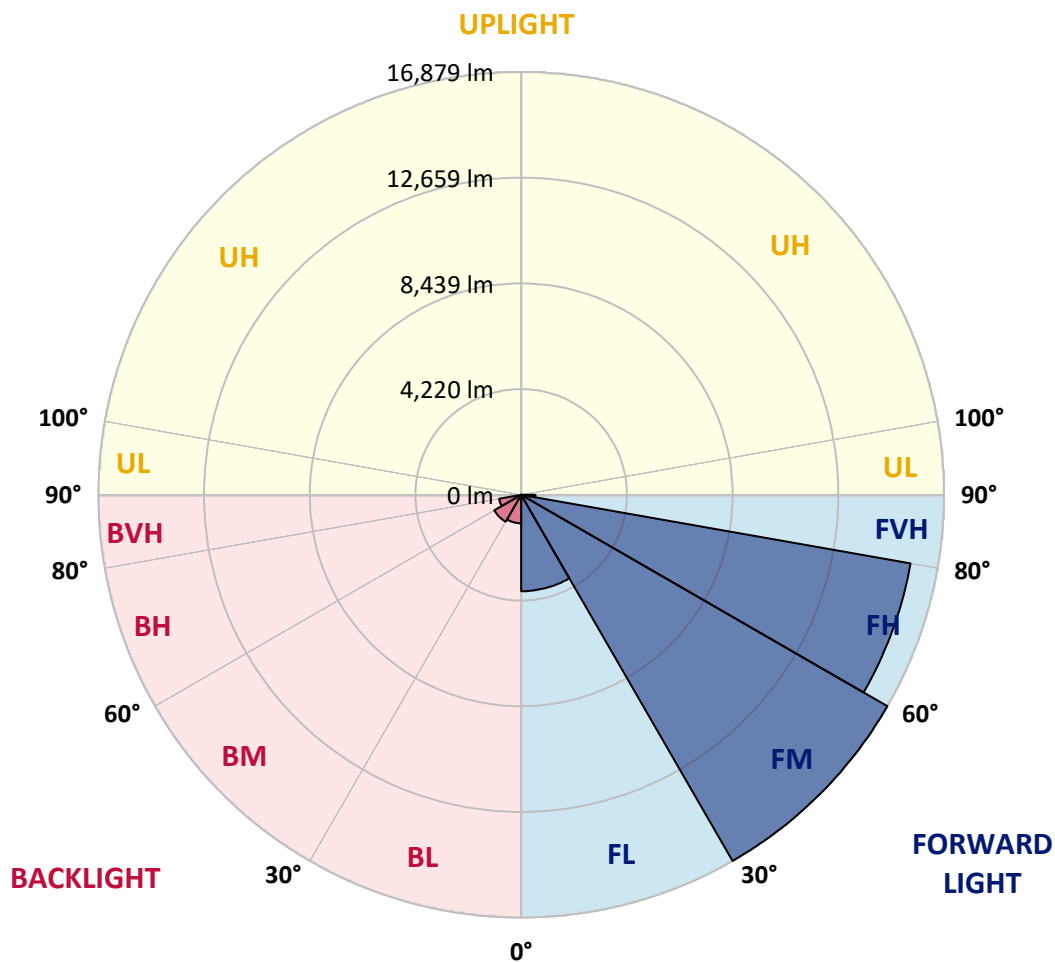
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3848.2	9.5			
FM	(30°-60°)	16878.9	41.8			
FH	(60°-80°)	15780.7	39.1			G5
FVH	(80°-90°)	568.7	1.4			G4/750
BL	(0°-30°)	1137.8	2.8	B3/2500		
BM	(30°-60°)	1238.6	3.1	B2/2500		
BH	(60°-80°)	892.7	2.2	B2/1000		G2/1000
BVH	(80°-90°)	18.1	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°	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1
2.5°	11514.9	11510.3	11460.1	11437.3	11396.3	11309.5	11174.8	11104.1	10990.0	10791.4	10524.3
5°	11409.9	11464.7	11494.4	11496.6	11526.3	11494.4	11373.4	11314.0	11156.6	10837.0	10357.7
7.5°	10697.8	10718.4	10802.8	10875.8	11017.4	11152.0	11195.4	11170.3	11076.7	10734.3	10097.5
10°	9935.5	9956.0	10056.4	10152.3	10344.1	10551.7	10770.9	10816.5	10855.3	10588.3	9846.4
12.5°	9278.2	9298.6	9401.4	9526.9	9750.6	10006.2	10346.3	10421.6	10592.9	10449.0	9645.6
15°	8712.1	8721.2	8821.6	8976.8	9243.9	9572.6	9958.3	10079.2	10341.7	10350.8	9469.9
17.5°	8230.5	8253.3	8315.0	8463.3	8755.4	9161.8	9611.3	9784.8	10092.9	10268.7	9298.6
20°	7936.1	7958.9	7956.6	8038.8	8301.2	8734.9	9264.5	9472.1	9846.4	10184.3	9145.8
22.5°	7879.0	7879.0	7819.6	7808.3	7963.5	8326.3	8903.8	9157.1	9625.0	10147.8	9038.5
25°	8082.1	8073.0	7924.6	7803.7	7810.5	8027.4	8554.6	8855.9	9437.9	10172.8	8981.4
27.5°	8511.3	8499.8	8312.7	8082.1	7897.3	7894.9	8289.8	8614.0	9289.5	10291.5	9004.2
30°	9104.7	9100.1	8897.0	8607.1	8271.6	7963.5	8198.5	8492.9	9193.7	10506.1	9056.7
32.5°	9752.9	9746.1	9593.1	9287.3	8862.7	8271.6	8294.4	8540.9	9221.1	10791.4	9184.6
35°	10439.9	10428.5	10362.3	10095.2	9627.3	8839.9	8609.4	8801.1	9394.6	11218.2	9435.6
37.5°	11183.9	11195.4	11243.4	10987.7	10496.9	9636.5	9136.6	9266.7	9743.7	11798.0	9844.2
40°	12281.9	12279.5	12295.6	11960.0	11487.5	10611.1	9873.8	9915.0	10328.0	12567.2	10465.0
42.5°	14274.4	14135.1	13713.0	13028.2	12553.4	11725.0	10802.8	10759.4	11042.4	13518.9	11334.6
45°	16951.7	16655.0	15559.4	14247.0	13639.9	12980.2	11946.3	11807.1	11987.3	14662.4	12407.4
47.5°	19254.7	18946.6	17396.8	15516.0	14792.5	14171.7	13286.1	13035.1	13094.4	15942.9	13767.7
50°	20037.6	19886.9	18533.4	16620.7	15908.6	15671.3	14840.5	14534.6	14450.1	17424.1	15344.9
52.5°	19766.0	19754.5	18853.0	17337.5	16931.2	17223.3	16796.5	16442.7	16132.3	18985.4	16949.4
55°	19330.0	19387.1	18983.1	17965.1	17951.5	18640.7	19471.6	19177.1	18277.8	20681.2	18332.6
57.5°	18127.2	18371.4	18910.1	19152.0	19713.5	20418.7	21699.1	21872.6	20809.1	21979.9	19480.7
60°	14708.1	15244.4	17006.5	19323.1	21984.4	23742.0	24387.9	24536.3	22886.1	23059.6	21030.4
62.5°	10439.9	10987.7	13222.2	17141.2	22018.7	28108.3	28393.6	27811.6	25173.1	24659.6	23703.2
65°	5541.7	5964.0	7790.0	12373.1	19090.3	29121.7	35398.4	33663.8	29208.4	27807.0	27156.5
67.5°	2834.8	2962.6	3688.5	6055.4	13124.0	25866.9	41677.4	42898.6	36163.1	30929.4	26989.8
69°	2508.4	2583.8	3065.3	4377.7	8404.0	21909.2	41983.2	46068.8	39803.5	30669.2	24527.1
70°	2428.5	2494.7	2932.9	3962.3	6568.9	18373.6	40812.4	45790.3	40734.7	29678.6	22687.5
72.5°	2061.0	2118.1	2611.1	3501.3	5338.7	9120.6	33152.5	38801.5	36553.3	24723.4	16422.1
75°	1378.6	1565.7	2506.1	3282.1	4966.6	5181.1	21856.7	28039.8	26047.2	16675.5	8554.6
77.5°	330.9	356.1	707.6	2611.1	4542.1	4560.3	11241.0	17431.0	14217.4	5943.4	2022.3
80°	178.0	171.1	198.6	518.1	4229.4	4279.6	5060.1	8461.0	5076.2	986.0	666.5
82.5°	125.5	118.7	127.8	216.9	1330.7	3898.4	3661.0	3829.9	2104.4	378.9	299.0
85°	45.6	43.4	70.8	196.3	417.7	2241.4	3761.5	3158.9	1705.0	173.5	219.1
87.5°	16.0	13.7	27.4	107.3	127.8	954.1	2321.3	2387.5	671.1	105.0	102.7
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°	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1	10506.1
2.5°	10412.5	10271.0	10010.8	9743.7	9497.3	9200.5	9052.2	8906.1	8844.4	8821.6	8714.4
5°	10111.3	9871.6	9319.2	8764.5	8253.3	7710.1	7351.7	7064.2	6895.3	6813.1	6683.0
7.5°	9725.5	9332.9	8495.3	7639.3	6842.7	6057.6	5475.5	5028.2	4720.1	4571.8	4437.0
10°	9351.2	8828.5	7637.0	6470.7	5388.8	4348.1	3544.6	2962.6	2590.6	2419.4	2309.8
12.5°	9015.7	8337.8	6808.6	5331.8	3973.8	2754.9	1937.8	1474.5	1243.9	1164.0	1125.2
15°	8716.7	7885.8	6025.7	4250.0	2691.0	1574.9	1059.1	901.5	865.0	865.0	860.5
17.5°	8433.6	7443.1	5270.1	3234.3	1689.0	963.2	805.7	785.1	785.1	794.3	794.3
20°	8162.0	7020.8	4539.8	2321.3	1063.7	764.7	728.1	723.5	728.1	739.5	739.5
22.5°	7929.2	6637.3	3857.3	1593.1	789.7	689.3	671.1	664.2	666.5	673.3	677.9
25°	7755.7	6313.2	3213.7	1079.6	680.2	627.7	607.1	595.8	586.6	586.6	591.2
27.5°	7646.1	6039.3	2590.6	785.1	611.7	570.6	538.7	520.4	499.8	488.5	493.0
30°	7566.3	5779.2	2006.3	641.4	547.8	506.7	465.6	436.0	406.3	392.6	397.1
32.5°	7536.6	5569.1	1499.5	566.0	490.7	445.1	394.9	356.1	324.1	312.7	315.0
35°	7616.5	5402.5	1097.8	511.3	445.1	388.0	330.9	287.6	262.5	255.6	257.9
37.5°	7826.5	5313.5	821.6	465.6	404.0	340.1	276.2	235.1	219.1	219.1	221.4
40°	8223.6	5311.3	659.6	433.6	367.4	294.4	228.2	198.6	189.5	194.1	196.3
42.5°	8803.4	5432.2	575.2	404.0	335.5	251.0	189.5	168.9	166.6	171.1	173.5
45°	9595.4	5653.6	529.5	378.9	301.3	210.0	159.8	146.1	146.1	152.9	155.2
47.5°	10565.4	5977.7	490.7	353.7	267.1	175.7	137.0	127.8	130.1	137.0	139.2
50°	11734.1	6386.3	451.9	326.4	241.9	146.1	118.7	111.8	114.2	123.3	125.5
52.5°	13064.7	6936.3	419.9	301.3	210.0	121.0	100.5	95.9	100.5	109.6	111.8
55°	14205.9	7429.4	381.2	280.7	168.9	100.5	82.1	82.1	86.7	98.1	100.5
57.5°	15303.8	7945.2	346.9	241.9	132.4	79.9	68.4	70.8	77.6	89.0	91.2
60°	16915.2	8819.4	305.9	203.2	100.5	63.9	57.1	59.3	68.4	79.9	82.1
62.5°	19651.8	10150.0	264.7	168.9	77.6	50.2	45.6	50.2	61.6	75.3	77.6
65°	22121.4	10691.0	216.9	141.5	59.3	38.8	38.8	45.6	59.3	73.0	75.3
67.5°	20745.1	8999.7	168.9	111.8	45.6	29.7	31.9	43.4	57.1	73.0	75.3
69°	18346.3	7358.6	143.8	89.0	38.8	27.4	29.7	43.4	57.1	70.8	73.0
70°	16477.0	6212.8	127.8	75.3	34.3	27.4	29.7	41.1	57.1	70.8	73.0
72.5°	11035.6	3355.2	102.7	54.7	31.9	25.1	25.1	41.1	54.7	68.4	70.8
75°	4742.9	926.7	82.1	38.8	27.4	22.8	22.8	38.8	52.5	66.2	70.8
77.5°	867.4	235.1	66.2	34.3	27.4	22.8	20.6	36.5	50.2	63.9	66.2
80°	344.6	116.4	52.5	29.7	25.1	20.6	18.2	34.3	48.0	61.6	63.9
82.5°	207.7	66.2	43.4	27.4	25.1	18.2	16.0	29.7	45.6	59.3	61.6
85°	168.9	45.6	34.3	27.4	22.8	18.2	13.7	27.4	41.1	57.1	59.3
87.5°	82.1	31.9	31.9	25.1	22.8	18.2	13.7	25.1	38.8	54.7	57.1
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)