

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: P191215

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34955.2 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

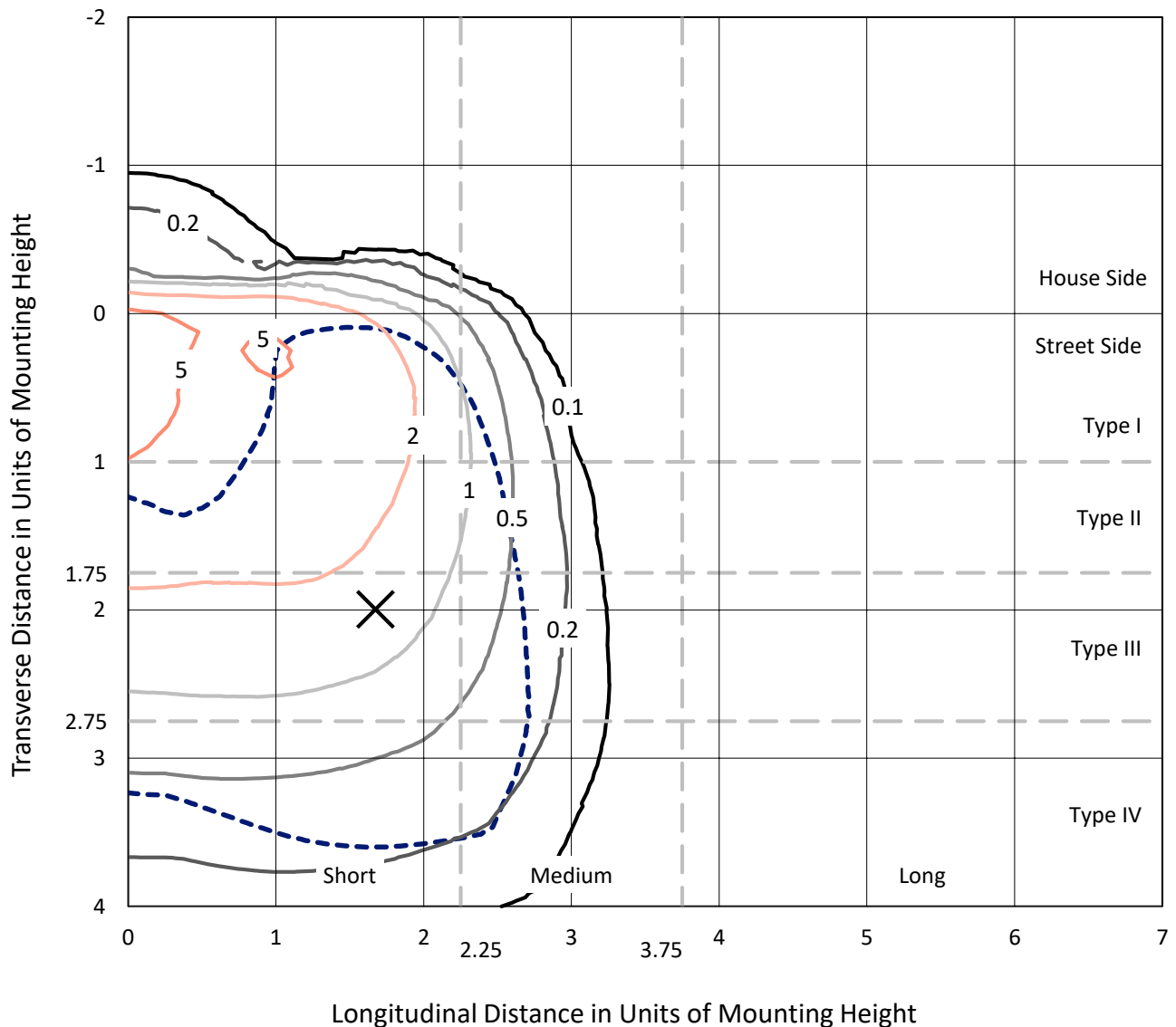
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

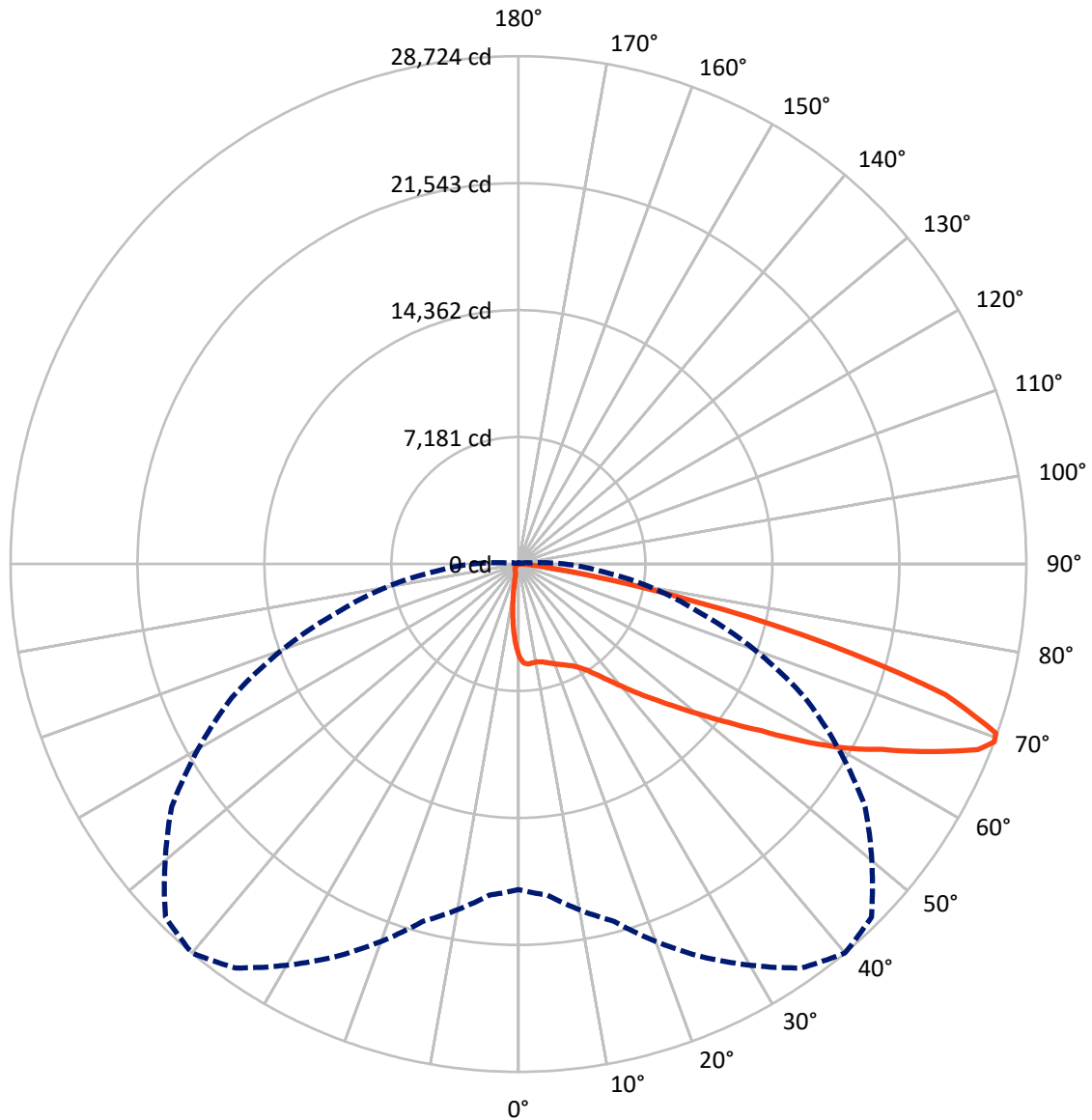


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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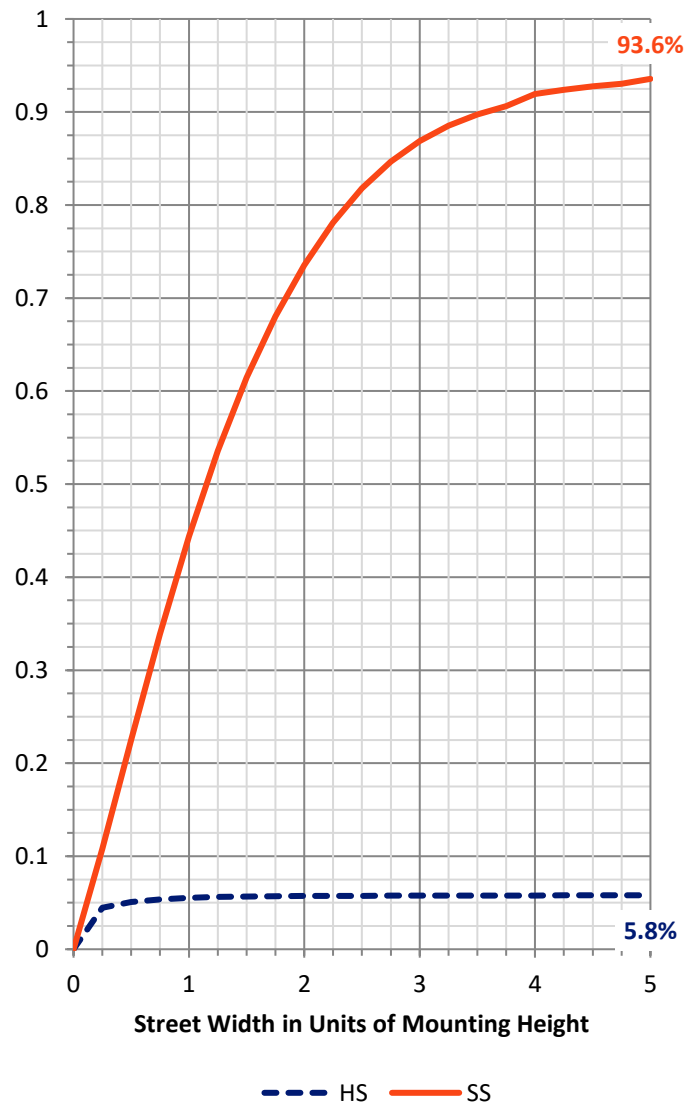
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2045.1	0.0	2045.1
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	32910.2	0.0	32910.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	34955.2	0.0	34955.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	1.2
10°-20°	1041.3	3.0
20°-30°	1753.9	5.0
30°-40°	2871.2	8.2
40°-50°	4971.5	14.2
50°-60°	7830.6	22.4
60°-70°	10226.4	29.3
70°-80°	5267.1	15.1
80°-90°	569.7	1.6
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°	34955.2	100.0
0°-180°	34955.2	100.0

Coefficient of Utilization



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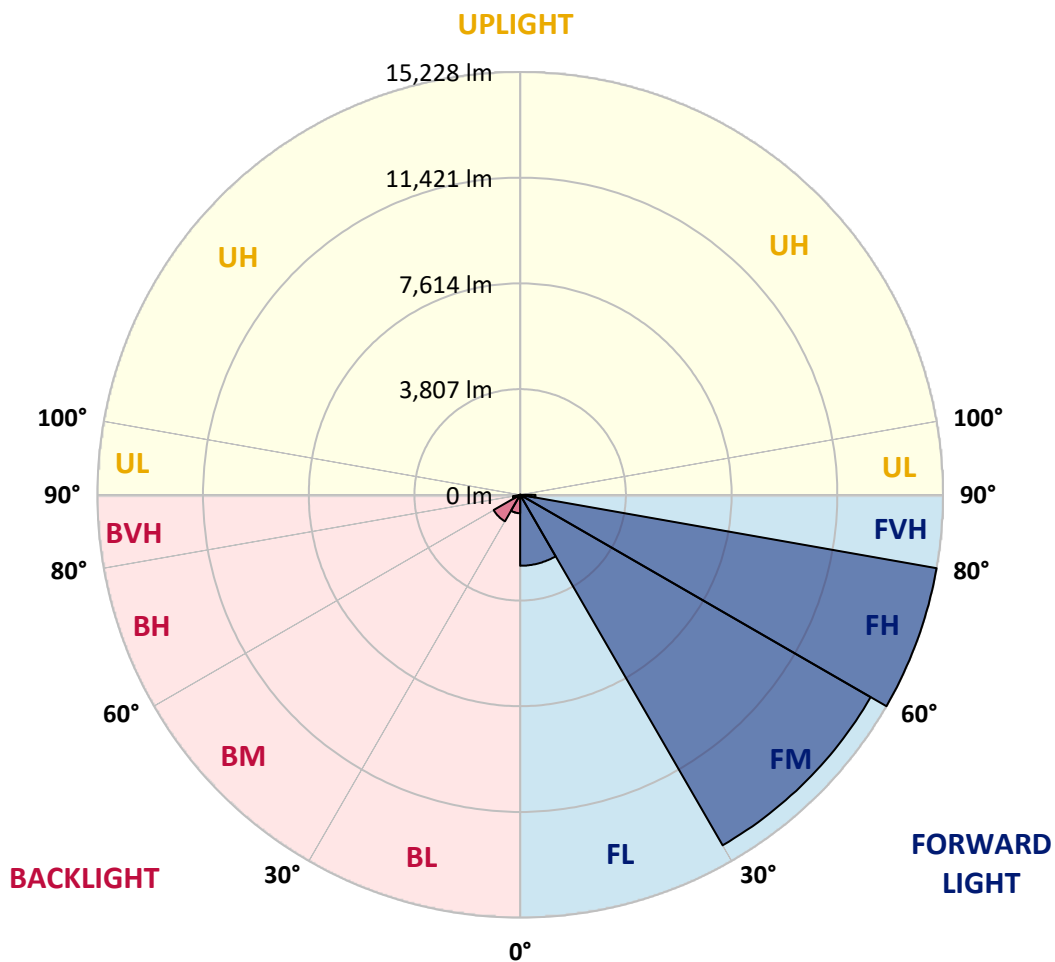
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2556.2	7.3			
FM	(30°-60°)	14574.1	41.7			
FH	(60°-80°)	15228.0	43.6			G5
FVH	(80°-90°)	551.9	1.6			G4/750
BL	(0°-30°)	662.5	1.9	B2/1000		
BM	(30°-60°)	1099.2	3.1	B2/2500		
BH	(60°-80°)	265.5	0.8	B1/500		G1/500
BVH	(80°-90°)	17.9	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5
2.5°	5734.4	5703.2	5684.4	5659.5	5628.3	5601.2	5590.7	5513.8	5441.0	5341.1	5226.7
5°	5840.4	5830.0	5796.8	5763.5	5726.0	5684.4	5661.5	5570.0	5465.9	5320.3	5120.6
7.5°	5850.9	5838.4	5796.8	5751.0	5699.0	5649.0	5609.5	5518.0	5422.3	5274.5	5031.1
10°	5834.2	5819.7	5788.5	5738.5	5674.0	5626.1	5586.6	5499.2	5418.1	5284.9	5014.4
12.5°	5815.5	5800.9	5786.3	5761.4	5705.2	5672.0	5638.6	5555.4	5482.6	5370.2	5074.8
15°	5834.2	5825.9	5842.6	5832.1	5800.9	5771.8	5738.5	5663.6	5597.0	5503.4	5185.0
17.5°	5913.3	5913.3	5965.3	5971.6	5942.4	5900.8	5852.9	5778.0	5721.9	5642.8	5316.2
20°	6098.4	6092.2	6158.8	6171.3	6100.6	6036.0	5965.3	5873.8	5830.0	5780.1	5445.2
22.5°	6416.8	6387.7	6427.2	6414.7	6275.3	6175.5	6088.1	5975.7	5952.9	5929.9	5588.7
25°	6830.9	6814.2	6841.3	6718.5	6473.0	6337.7	6233.7	6106.8	6106.8	6129.6	5751.0
27.5°	7432.1	7369.7	7278.2	7061.8	6693.6	6520.8	6408.5	6273.2	6308.6	6394.0	5965.3
30°	8048.1	7979.4	7769.2	7436.3	6961.9	6780.9	6649.8	6508.3	6591.6	6747.6	6252.4
32.5°	8655.6	8578.7	8281.1	7860.8	7346.8	7165.9	7038.9	6882.8	7022.3	7284.4	6672.7
35°	9244.4	9175.8	8832.5	8337.3	7858.7	7708.9	7592.3	7457.1	7636.1	8002.2	7265.7
37.5°	9906.1	9831.2	9413.0	8876.1	8480.9	8372.6	8287.3	8152.1	8464.2	9001.0	8091.7
40°	10719.6	10592.8	10028.8	9494.1	9200.7	9148.8	9090.5	9071.7	9556.5	10299.4	9192.4
42.5°	11651.8	11443.8	10673.9	10145.4	9991.4	10028.8	10014.3	10097.5	10923.6	11913.9	10532.4
45°	12583.9	12315.5	11391.7	10840.3	10861.1	10992.2	11073.3	11406.3	12635.9	13765.7	11974.3
47.5°	13374.6	13110.3	12080.4	11591.5	11841.2	12099.2	12319.7	12950.1	14396.2	15588.4	13095.8
50°	14050.8	13801.1	12810.7	12417.5	12979.2	13395.3	13753.3	14687.5	16289.6	16976.3	13882.3
52.5°	14604.3	14437.8	13568.1	13364.1	14279.7	14889.4	15413.6	16533.0	17966.6	18104.0	14494.0
55°	15143.2	15024.6	14381.7	14489.8	15806.8	16637.1	17300.9	18491.0	19410.6	19044.4	15080.8
57.5°	15763.2	15655.0	15309.6	15917.1	17814.8	18859.2	19583.3	20226.2	20681.9	20005.6	15634.2
60°	16395.8	16333.3	16341.6	17502.7	20120.1	21123.0	21522.5	21688.9	21930.3	20910.8	15665.4
62.5°	16999.1	17117.8	17521.4	19267.1	22327.7	23097.6	23299.4	23463.7	23180.8	21054.4	14473.2
65°	18020.7	18214.3	19177.6	21628.7	24755.9	25579.8	25787.9	25224.0	23378.4	19198.4	11772.4
67.5°	18520.1	18873.9	20592.4	23829.9	27111.2	28026.7	27949.7	25338.5	20979.5	14639.7	7554.9
69°	18416.1	18792.6	20919.1	24504.1	27893.5	28723.7	28234.8	23938.2	17873.0	10605.2	4637.9
70°	18004.0	18384.9	20750.6	24479.1	27993.4	28650.9	27706.3	22209.1	15112.0	7754.7	2900.5
72.5°	15034.9	15363.7	18422.3	22125.9	25787.9	25253.2	23178.7	15386.6	7363.5	2111.9	653.4
75°	9254.8	9437.9	13218.6	16668.3	19477.2	18104.0	15442.8	7654.8	2195.2	597.2	362.0
77.5°	4889.6	4972.8	7236.6	9824.9	12346.7	10216.1	7914.9	2985.8	1011.2	374.5	262.2
80°	2890.0	2952.4	3897.1	4492.2	5343.2	4463.0	3164.7	1833.0	724.0	235.1	233.0
82.5°	1654.1	1693.7	2825.6	2496.8	2105.6	1797.7	1575.0	1737.4	434.9	158.1	241.3
85°	607.5	615.9	1589.7	1899.6	1252.6	744.9	782.4	1439.8	116.5	99.8	189.3
87.5°	282.9	276.7	817.7	1163.1	732.4	472.3	609.7	316.3	45.7	64.5	52.0
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°	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5	5222.5
2.5°	5160.1	5083.0	4943.7	4800.1	4654.4	4542.1	4431.8	4344.5	4315.3	4261.2	4265.4
5°	5001.9	4860.4	4569.1	4273.7	3965.8	3711.9	3472.6	3279.2	3185.5	3089.8	3089.8
7.5°	4864.6	4658.6	4203.0	3722.3	3225.1	2806.9	2430.2	2147.3	1991.2	1866.4	1864.3
10°	4812.6	4533.8	3897.1	3208.4	2515.5	1945.4	1498.1	1211.0	1063.3	967.5	963.3
12.5°	4835.5	4490.1	3662.0	2734.0	1864.3	1250.5	867.7	682.4	620.0	591.0	591.0
15°	4902.1	4477.7	3426.9	2270.0	1317.0	782.4	576.3	526.4	522.2	522.2	522.2
17.5°	4983.2	4481.8	3185.5	1818.5	896.8	559.7	497.3	491.0	495.2	495.2	495.2
20°	5066.5	4483.9	2925.4	1400.3	632.5	486.9	468.1	466.1	470.3	470.3	472.3
22.5°	5168.4	4494.2	2665.3	1046.6	522.2	459.8	445.3	445.3	447.3	447.3	445.3
25°	5284.9	4515.1	2394.8	776.1	476.5	441.1	428.6	426.6	428.6	426.6	424.4
27.5°	5430.5	4544.2	2093.2	607.5	455.6	422.4	411.9	411.9	409.9	407.9	405.7
30°	5613.6	4577.5	1754.1	516.0	434.9	405.7	395.4	393.2	391.2	387.0	387.0
32.5°	5892.5	4650.3	1419.0	468.1	411.9	382.9	374.5	374.5	370.4	366.2	364.1
35°	6321.1	4793.9	1119.4	439.1	387.0	357.8	347.5	347.5	343.3	341.3	339.1
37.5°	6914.1	5012.4	869.7	411.9	362.0	330.8	320.4	318.3	314.1	310.1	307.9
40°	7702.6	5282.8	684.6	387.0	337.1	303.8	295.4	291.3	282.9	276.7	276.7
42.5°	8693.0	5590.7	555.6	360.0	307.9	278.9	272.6	266.4	251.7	245.5	243.5
45°	9729.3	5867.5	470.3	328.8	278.9	253.8	249.7	239.3	220.5	214.3	214.3
47.5°	10476.2	5932.0	414.1	299.6	251.7	226.8	224.7	206.0	189.3	185.2	183.1
50°	10942.3	5805.0	368.3	270.5	226.8	201.8	195.6	172.7	162.3	158.1	156.0
52.5°	11256.4	5578.3	330.8	245.5	203.9	178.9	164.4	147.7	139.4	135.2	135.2
55°	11508.2	5257.9	293.4	222.6	185.2	160.2	139.4	126.9	118.6	114.5	114.5
57.5°	11579.0	4823.0	255.9	203.9	166.4	141.5	118.6	110.3	99.8	97.8	97.8
60°	11065.1	4038.6	226.8	181.1	149.8	122.8	104.0	93.6	83.3	81.1	79.1
62.5°	9710.5	3125.2	199.8	160.2	131.0	106.1	89.5	77.0	68.6	68.6	68.6
65°	7407.2	2095.2	174.8	139.4	114.5	89.5	77.0	62.4	58.3	58.3	60.4
67.5°	4433.9	1140.2	149.8	118.6	97.8	74.9	64.5	54.1	52.0	54.1	54.1
69°	2598.8	669.9	135.2	106.1	85.3	66.6	56.2	47.9	52.0	54.1	54.1
70°	1604.2	451.5	124.8	95.7	77.0	60.4	52.0	45.7	49.9	52.0	52.0
72.5°	447.3	233.0	99.8	74.9	62.4	49.9	41.6	41.6	47.9	49.9	49.9
75°	291.3	172.7	77.0	56.2	47.9	39.5	35.4	39.5	45.7	47.9	47.9
77.5°	241.3	141.5	62.4	45.7	39.5	37.4	33.2	35.4	41.6	43.7	43.7
80°	220.5	99.8	49.9	41.6	35.4	33.2	31.2	29.2	37.4	39.5	39.5
82.5°	210.1	79.1	43.7	37.4	33.2	29.2	27.0	29.2	33.2	35.4	37.4
85°	131.0	52.0	39.5	35.4	29.2	27.0	27.0	27.0	31.2	33.2	33.2
87.5°	47.9	41.6	35.4	29.2	25.0	25.0	25.0	25.0	27.0	31.2	31.2
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)