

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: P191148

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191148
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-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 56482.2 lumens
Efficiency: N/A
Efficacy: 88.3 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

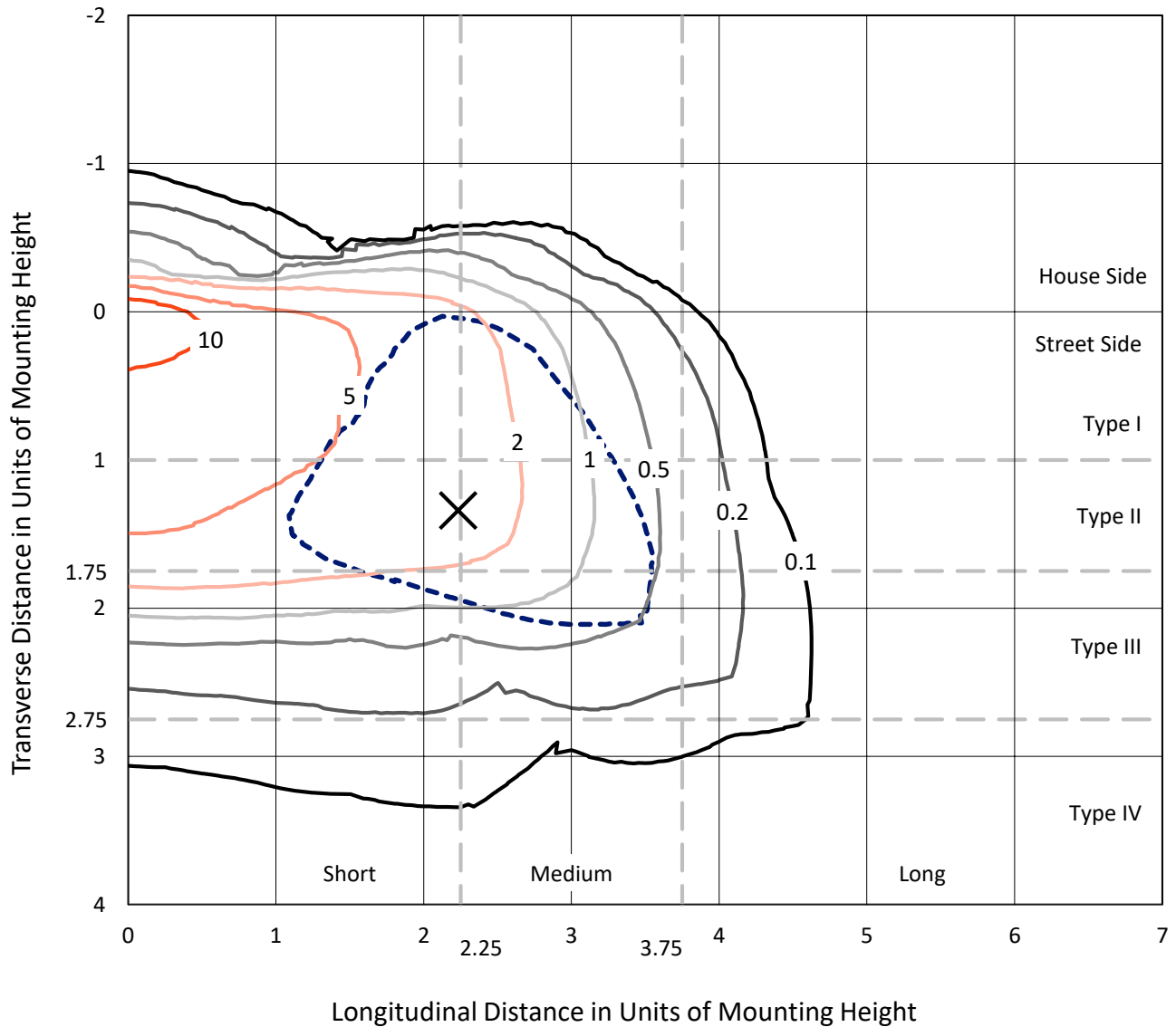


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Iso-Footcandle Lines of Horizontal Illumination

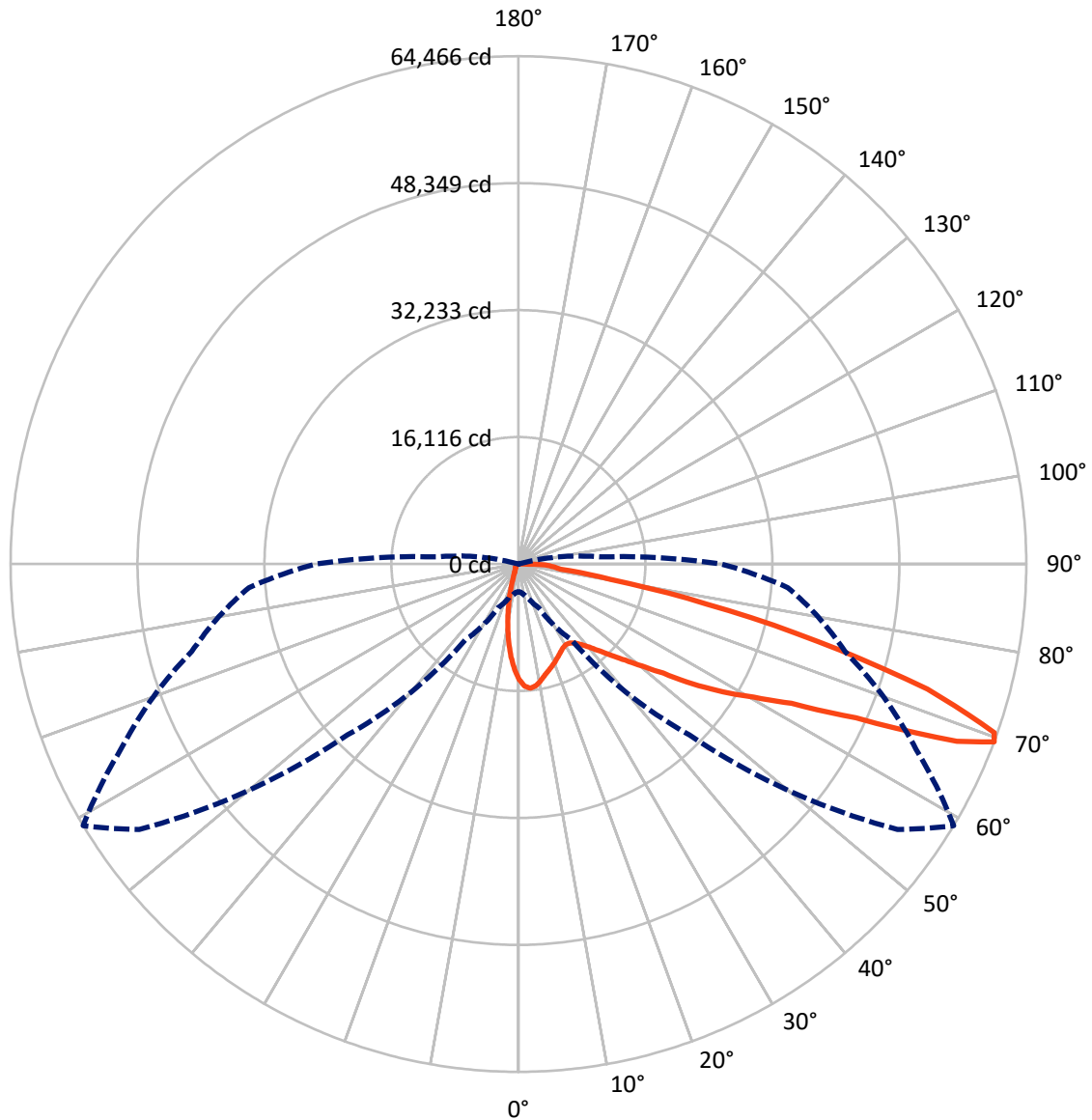
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.4 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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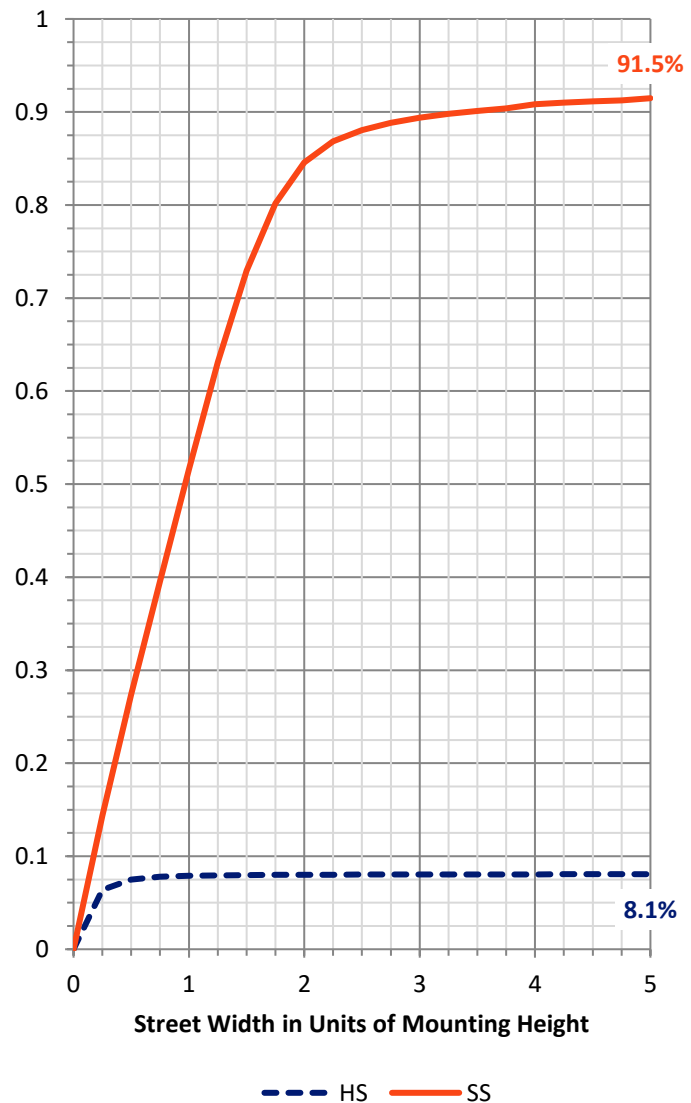
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4599.7	0.0	4599.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	51882.5	0.0	51882.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	56482.2	0.0	56482.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1193.3	2.1
10°-20°	2465.7	4.4
20°-30°	3318.0	5.9
30°-40°	4817.5	8.5
40°-50°	8021.5	14.2
50°-60°	12513.4	22.2
60°-70°	15484.4	27.4
70°-80°	7847.3	13.9
80°-90°	821.1	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°	56482.2	100.0
0°-180°	56482.2	100.0

Coefficient of Utilization



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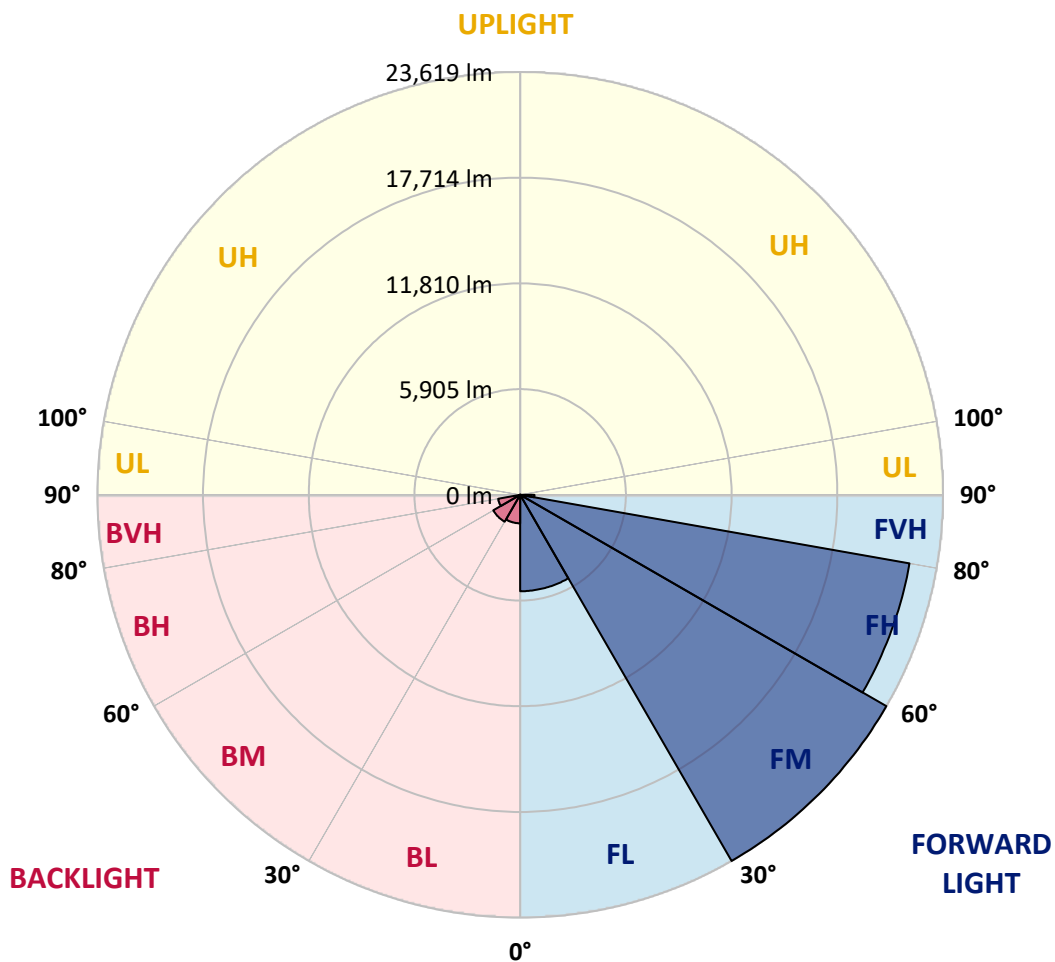
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5385.0	9.5			
FM	(30°-60°)	23619.2	41.8			
FH	(60°-80°)	22082.5	39.1			G5
FVH	(80°-90°)	795.8	1.4			G5
BL	(0°-30°)	1592.1	2.8	B3/2500		
BM	(30°-60°)	1733.2	3.1	B2/2500		
BH	(60°-80°)	1249.2	2.2	B3/2500		G3/2500
BVH	(80°-90°)	25.3	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5
2.5°	16113.2	16106.9	16036.6	16004.7	15947.2	15825.8	15637.3	15538.3	15378.6	15100.8	14727.1
5°	15966.3	16042.9	16084.5	16087.7	16129.2	16084.5	15915.3	15832.2	15611.8	15164.6	14494.0
7.5°	14969.9	14998.6	15116.8	15219.0	15417.0	15605.4	15666.1	15631.0	15500.1	15020.9	14129.8
10°	13903.0	13931.8	14072.3	14206.5	14474.8	14765.4	15072.1	15135.9	15190.2	14816.5	13778.5
12.5°	12983.2	13011.9	13155.7	13331.4	13644.3	14002.0	14477.9	14583.4	14822.9	14621.6	13497.4
15°	12191.1	12203.9	12344.5	12561.6	12935.3	13395.2	13935.0	14104.2	14471.6	14484.4	13251.5
17.5°	11517.2	11549.1	11635.3	11843.0	12251.8	12820.3	13449.6	13692.3	14123.5	14369.4	13011.9
20°	11105.3	11137.2	11134.0	11249.0	11616.2	12223.0	12964.1	13254.7	13778.5	14251.2	12797.9
22.5°	11025.4	11025.4	10942.3	10926.3	11143.5	11651.4	12459.4	12814.0	13468.7	14200.1	12647.9
25°	11309.6	11296.9	11089.2	10920.0	10929.5	11232.9	11970.8	12392.3	13206.8	14235.3	12568.0
27.5°	11910.1	11894.1	11632.2	11309.6	11050.9	11047.8	11600.3	12053.8	12999.1	14401.3	12600.0
30°	12740.4	12734.1	12449.8	12044.2	11574.7	11143.5	11472.5	11884.5	12865.0	14701.5	12673.4
32.5°	13647.6	13638.0	13424.0	12996.0	12401.9	11574.7	11606.6	11951.5	12903.4	15100.8	12852.3
35°	14609.0	14592.9	14500.3	14126.6	13471.9	12370.0	12047.4	12315.7	13146.1	15698.0	13203.6
37.5°	15650.1	15666.1	15733.2	15375.5	14688.8	13484.6	12785.2	12967.2	13634.8	16509.3	13775.3
40°	17186.4	17183.2	17205.5	16736.1	16075.0	14848.4	13816.8	13874.3	14452.5	17585.6	14644.1
42.5°	19974.6	19779.9	19189.0	18230.8	17566.5	16407.1	15116.8	15056.1	15452.1	18917.5	15861.0
45°	23721.1	23305.9	21772.9	19936.4	19086.7	18163.7	16716.9	16522.1	16774.3	20517.6	17362.0
47.5°	26943.8	26512.6	24344.0	21712.1	20699.7	19830.9	18591.7	18240.4	18323.4	22309.4	19265.6
50°	28039.3	27828.5	25934.5	23258.0	22261.6	21929.3	20766.7	20338.8	20220.6	24382.2	21472.7
52.5°	27659.3	27643.2	26381.7	24260.9	23692.4	24101.2	23503.9	23008.9	22574.5	26566.9	23717.9
55°	27049.2	27129.1	26563.7	25139.2	25120.1	26084.6	27247.2	26835.2	25576.8	28940.0	25653.5
57.5°	25366.0	25707.8	26461.5	26800.1	27585.7	28572.7	30364.5	30607.2	29118.8	30757.3	27260.0
60°	20581.6	21332.1	23797.8	27039.6	30763.7	33223.0	34126.9	34334.5	32025.3	32268.1	29428.7
62.5°	14609.0	15375.5	18502.3	23986.3	30811.6	39333.0	39732.1	38917.8	35225.6	34507.0	33168.7
65°	7754.8	8345.6	10900.8	17314.2	26713.8	40751.0	49534.2	47106.9	40872.4	38911.3	38001.1
67.5°	3966.8	4145.7	5161.4	8473.4	18364.9	36196.5	58320.7	60029.4	50604.3	43280.6	37768.0
69°	3510.1	3615.5	4289.4	6125.9	11759.9	30658.2	58748.7	64465.7	55698.5	42916.5	34321.7
70°	3398.3	3490.9	4104.2	5544.6	9192.0	25710.9	57110.2	64076.1	57001.6	41530.4	31747.4
72.5°	2884.1	2963.9	3653.9	4899.4	7470.5	12762.8	46391.4	54296.4	51150.4	34596.4	22980.2
75°	1929.1	2191.1	3506.9	4592.8	6949.9	7250.2	30584.8	39237.1	36448.9	23334.6	11970.8
77.5°	463.1	498.3	990.1	3653.9	6355.9	6381.4	15730.0	24391.9	19894.9	8316.9	2829.8
80°	249.1	239.6	277.8	725.0	5918.3	5988.6	7080.9	11839.8	7103.3	1379.8	932.6
82.5°	175.6	166.1	178.8	303.4	1862.1	5455.2	5123.0	5359.3	2944.8	530.2	418.4
85°	63.8	60.7	99.0	274.7	584.5	3136.4	5263.6	4420.4	2385.8	242.7	306.6
87.5°	22.4	19.1	38.4	150.1	178.8	1335.1	3248.2	3340.9	939.0	146.9	143.7
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°	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5	14701.5
2.5°	14570.6	14372.6	14008.5	13634.8	13289.9	12874.7	12667.0	12462.6	12376.4	12344.5	12194.3
5°	14149.0	13813.6	13040.7	12264.6	11549.1	10789.0	10287.6	9885.2	9648.8	9533.8	9351.7
7.5°	13609.2	13059.9	11887.7	10690.0	9575.3	8476.6	7662.2	7036.2	6605.0	6397.4	6208.9
10°	13085.4	12354.0	10686.8	9054.8	7540.8	6084.4	4960.1	4145.7	3625.0	3385.6	3232.2
12.5°	12616.0	11667.4	9527.5	7461.0	5560.6	3855.1	2711.6	2063.3	1740.7	1628.8	1574.6
15°	12197.6	11035.0	8431.9	5947.0	3765.6	2203.8	1481.9	1261.6	1210.5	1210.5	1204.1
17.5°	11801.5	10415.3	7374.8	4525.7	2363.5	1347.8	1127.5	1098.8	1098.8	1111.4	1111.4
20°	11421.5	9824.4	6352.6	3248.2	1488.4	1070.0	1018.9	1012.5	1018.9	1034.8	1034.8
22.5°	11095.6	9287.9	5397.7	2229.3	1105.1	964.5	939.0	929.5	932.6	942.2	948.6
25°	10852.9	8834.3	4497.0	1510.7	951.8	878.3	849.6	833.6	820.8	820.8	827.3
27.5°	10699.6	8451.1	3625.0	1098.8	856.0	798.5	753.8	728.2	699.5	683.5	689.9
30°	10587.7	8086.9	2807.5	897.5	766.5	709.0	651.5	610.0	568.6	549.3	555.8
32.5°	10546.3	7793.1	2098.4	792.1	686.7	622.8	552.5	498.3	453.6	437.5	440.8
35°	10658.0	7560.0	1536.3	715.5	622.8	543.0	463.1	402.4	367.3	357.7	360.9
37.5°	10951.9	7435.4	1149.8	651.5	565.3	475.9	386.5	329.0	306.6	306.6	309.9
40°	11507.7	7432.2	923.0	606.8	514.2	412.0	319.4	277.8	265.0	271.5	274.7
42.5°	12318.9	7601.4	804.9	565.3	469.5	351.3	265.0	236.3	233.1	239.6	242.7
45°	13427.2	7911.3	741.0	530.2	421.6	293.8	223.6	204.4	204.4	214.0	217.2
47.5°	14784.6	8364.9	686.7	495.0	373.7	245.9	191.6	178.8	182.1	191.6	194.9
50°	16419.9	8936.5	632.4	456.7	338.6	204.4	166.1	156.5	159.7	172.5	175.6
52.5°	18281.9	9706.3	587.7	421.6	293.8	169.3	140.6	134.1	140.6	153.3	156.5
55°	19878.9	10396.1	533.4	392.8	236.3	140.6	115.0	115.0	121.3	137.4	140.6
57.5°	21415.2	11117.9	485.5	338.6	185.3	111.8	95.9	99.0	108.6	124.6	127.8
60°	23670.1	12341.3	428.0	284.3	140.6	89.4	79.9	83.1	95.9	111.8	115.0
62.5°	27499.5	14203.3	370.5	236.3	108.6	70.3	63.8	70.3	86.2	105.4	108.6
65°	30955.3	14960.2	303.4	198.0	83.1	54.3	54.3	63.8	83.1	102.2	105.4
67.5°	29029.4	12593.5	236.3	156.5	63.8	41.5	44.7	60.7	79.9	102.2	105.4
69°	25672.6	10297.1	201.2	124.6	54.3	38.4	41.5	60.7	79.9	99.0	102.2
70°	23056.8	8693.9	178.8	105.4	47.9	38.4	41.5	57.5	79.9	99.0	102.2
72.5°	15442.6	4695.0	143.7	76.6	44.7	35.1	35.1	57.5	76.6	95.9	99.0
75°	6636.9	1296.7	115.0	54.3	38.4	31.9	31.9	54.3	73.4	92.6	99.0
77.5°	1213.7	329.0	92.6	47.9	38.4	31.9	28.7	51.1	70.3	89.4	92.6
80°	482.3	162.9	73.4	41.5	35.1	28.7	25.6	47.9	67.1	86.2	89.4
82.5°	290.6	92.6	60.7	38.4	35.1	25.6	22.4	41.5	63.8	83.1	86.2
85°	236.3	63.8	47.9	38.4	31.9	25.6	19.1	38.4	57.5	79.9	83.1
87.5°	115.0	44.7	44.7	35.1	31.9	25.6	19.1	35.1	54.3	76.6	79.9
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)