

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: P458345

Luminaire Tested: **GALN-SA9D-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52272 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 552
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: 24 FT

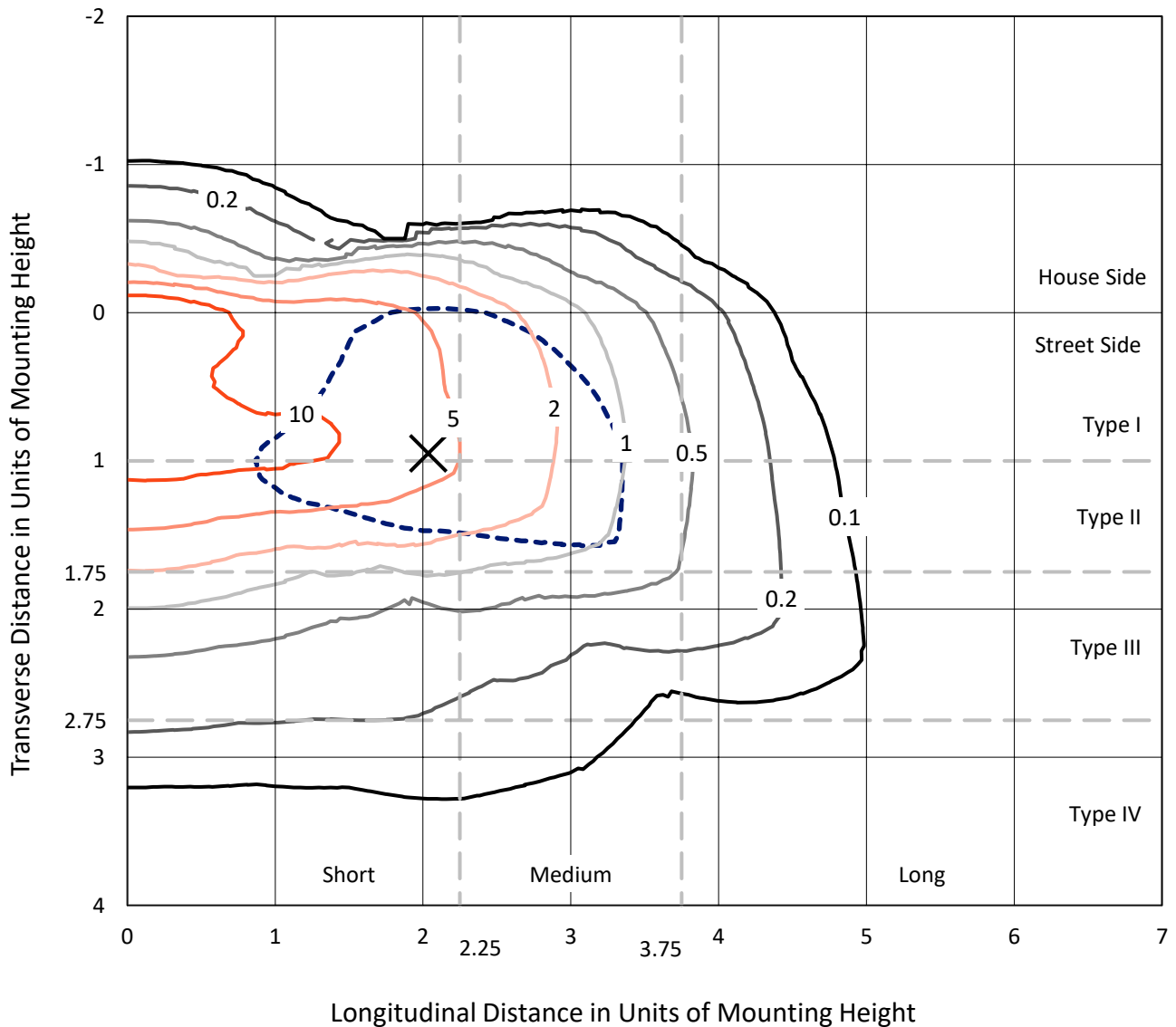




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Iso-Footcandle Lines of Horizontal Illumination

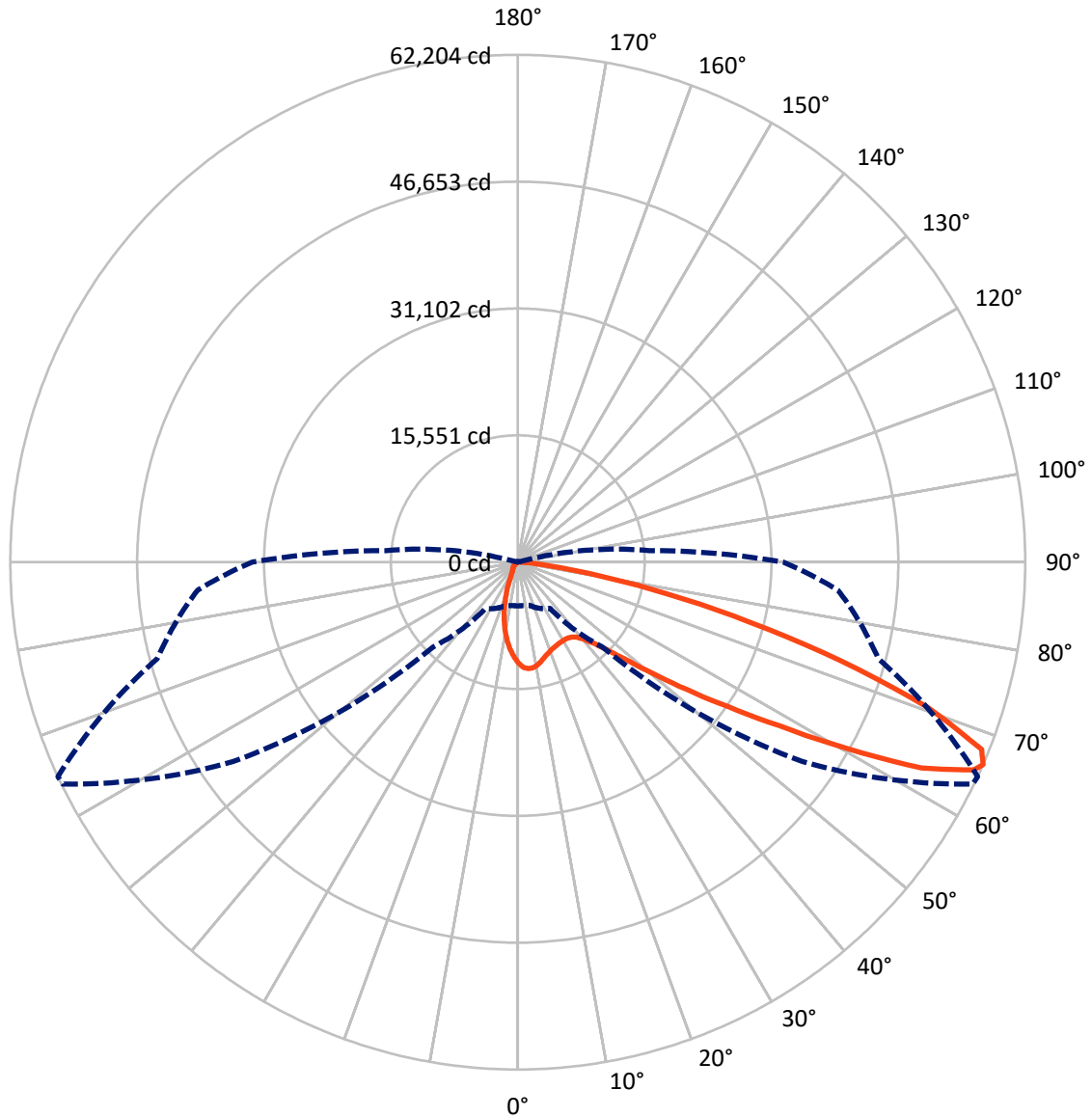
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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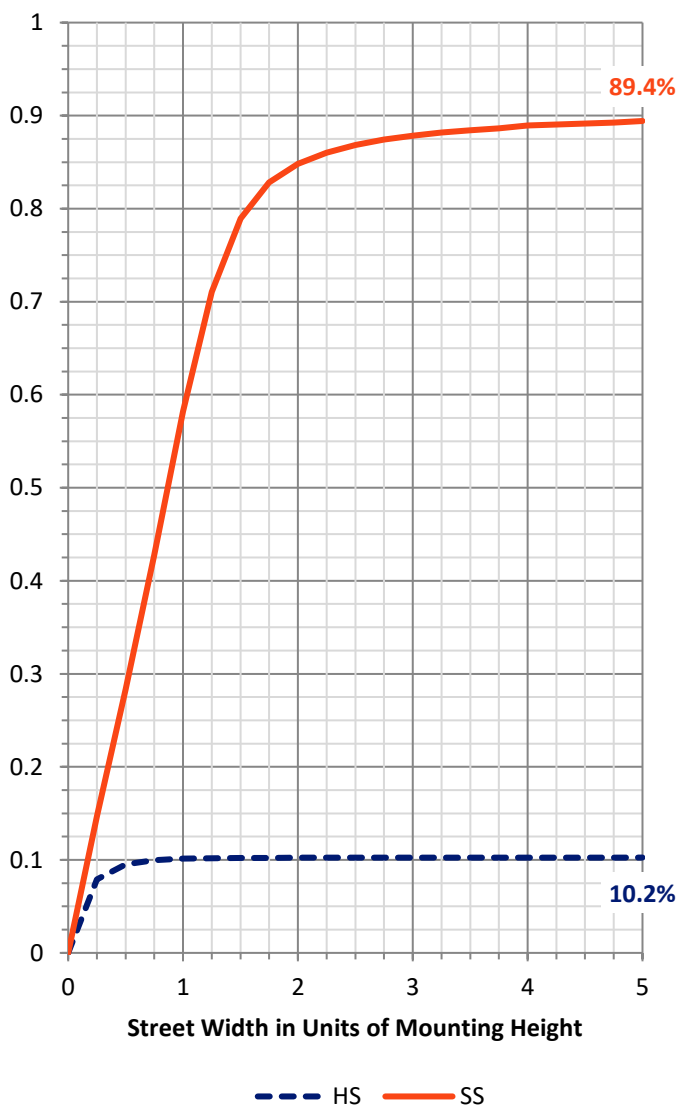
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5405.7	0.0	5405.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	46866.4	0.0	46866.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	52272.0	0.0	52272.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.8	1.9
10°-20°	2208.9	4.2
20°-30°	3164.2	6.1
30°-40°	4621.6	8.8
40°-50°	7749.6	14.8
50°-60°	12932.8	24.7
60°-70°	13727.8	26.3
70°-80°	6217.3	11.9
80°-90°	636.2	1.2
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°	52272.0	100.0
0°-180°	52272.0	100.0



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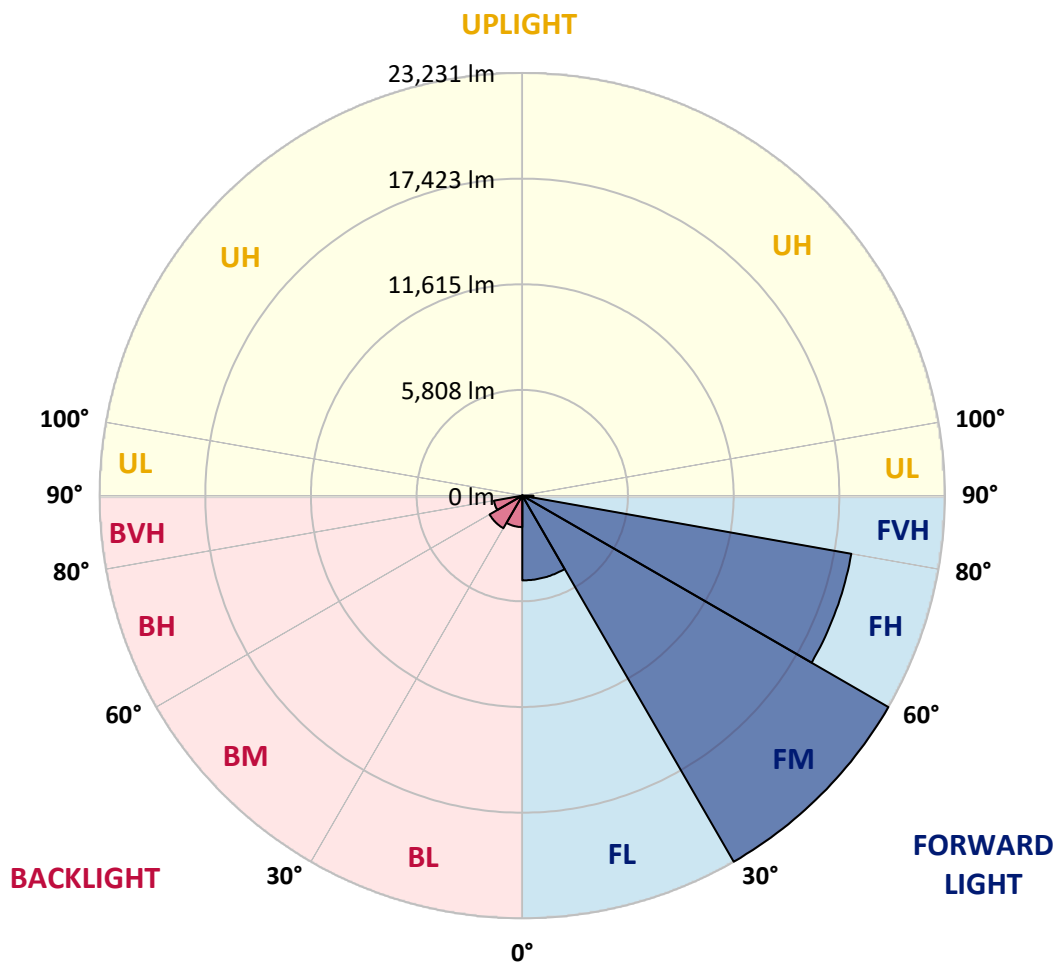
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4657.6	8.9			
FM	(30°-60°)	23230.9	44.4			
FH	(60°-80°)	18362.0	35.1			G5
FVH	(80°-90°)	615.9	1.2			G4/750
BL	(0°-30°)	1729.2	3.3	B3/2500		
BM	(30°-60°)	2073.1	4.0	B2/2500		
BH	(60°-60°)	1583.1	3.0	B3/2500		G3/2500
BVH	(80°-90°)	20.3	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6
2.5°	13062.9	13077.0	13094.7	13119.4	13137.0	13084.1	13009.9	12925.2	12907.5	12727.5	12508.6
5°	12363.8	12385.0	12540.4	12625.1	12815.7	12988.7	13098.2	13112.3	13105.3	12935.8	12586.3
7.5°	11368.2	11428.3	11580.1	11728.4	12084.9	12413.3	12801.6	13073.5	13091.1	13045.2	12611.0
10°	10559.8	10598.6	10676.3	10969.3	11265.9	11767.2	12310.9	12822.8	12865.2	13048.8	12589.8
12.5°	9927.8	9984.3	10079.6	10305.6	10662.1	11135.2	11753.1	12441.5	12529.8	12981.7	12529.8
15°	9486.5	9514.7	9610.0	9832.5	10178.5	10616.2	11241.1	12042.6	12120.2	12893.4	12519.2
17.5°	9278.2	9310.0	9377.0	9553.6	9839.5	10245.5	10856.3	11721.3	11820.1	12836.9	12558.0
20°	9334.7	9362.9	9366.4	9458.2	9652.4	9994.9	10573.9	11421.2	11548.3	12801.6	12621.6
22.5°	9655.9	9659.5	9617.1	9574.7	9641.8	9889.0	10400.9	11230.6	11361.2	12794.6	12695.7
25°	10136.1	10146.7	10076.1	9927.8	9793.6	9920.7	10362.0	11107.0	11223.5	12776.9	12741.6
27.5°	10799.8	10796.3	10775.1	10528.0	10146.7	10062.0	10393.8	11039.9	11138.8	12727.5	12759.3
30°	11728.4	11700.1	11654.2	11375.3	10792.8	10404.4	10528.0	10997.5	11089.3	12656.9	12713.4
32.5°	12642.8	12748.7	12741.6	12476.8	11749.5	11015.2	10806.9	11054.0	11121.1	12611.0	12646.3
35°	13709.0	13705.4	13977.3	13878.4	13027.6	11795.4	11283.5	11241.1	11294.1	12642.8	12614.5
37.5°	14697.5	14789.3	15213.0	15315.4	14538.6	12897.0	11957.8	11643.6	11661.3	12858.1	12692.2
40°	15929.7	16106.2	16738.1	17080.6	16395.7	14531.6	12953.4	12381.5	12385.0	13387.7	12985.2
42.5°	17518.4	17797.3	18386.9	18958.8	18591.7	16466.3	14446.8	13550.1	13543.0	14319.7	13656.0
45°	19449.6	19643.8	20314.6	21221.9	20988.9	19167.1	16621.6	15361.2	15269.5	15848.5	14845.8
47.5°	21116.0	21380.8	22062.2	23096.6	24155.7	22464.6	19220.1	17850.3	17790.2	18281.0	16886.4
50°	21843.3	22076.3	22793.0	24244.0	26810.7	26793.0	23089.5	21483.2	21380.8	21645.6	20042.7
52.5°	21045.4	21264.3	21988.0	23795.6	28060.5	32067.6	28696.0	26041.0	25917.5	25578.5	23813.3
55°	18312.8	18492.8	19562.6	21638.5	27580.3	35584.0	36420.7	31672.2	31192.1	29875.2	28081.7
57.5°	14581.0	14489.2	15152.9	17564.3	24763.0	36763.2	44350.3	38687.3	37829.4	33589.3	31693.4
60°	10104.3	10386.8	10655.1	12243.8	18619.9	34719.0	49282.4	47506.5	46376.8	37243.3	35153.3
62.5°	7428.2	7615.3	7791.8	8526.2	11707.2	27721.6	50154.4	56565.8	55563.2	41123.4	38454.3
65°	5874.8	5888.9	5959.5	6683.3	7714.2	18026.8	45963.7	61674.5	61416.7	44858.7	39792.4
66°	5352.3	5355.8	5465.2	6241.9	6923.3	14679.9	42606.2	62062.8	62204.0	45755.4	39400.5
67.5°	4677.9	4663.8	4822.7	5610.0	6305.5	10584.5	36597.3	60488.2	61325.0	46443.9	37991.8
70°	3625.8	3608.2	3802.4	4706.2	5807.7	7061.0	24325.2	51937.3	53286.0	45035.2	33614.0
72.5°	2414.9	2429.0	2760.9	3714.1	5542.9	6217.2	14634.0	39509.9	41416.4	37190.4	26443.5
75°	1408.7	1433.4	1811.2	2760.9	4812.1	5927.7	8282.6	28173.5	29391.5	25680.9	16473.4
77.5°	737.9	748.5	1013.3	1821.7	3689.4	5504.1	5518.2	17998.5	18570.5	12480.4	6520.9
80°	391.9	381.3	543.7	1098.0	2538.4	4833.3	4476.7	9528.8	9906.6	3707.0	1648.7
82.5°	148.3	162.4	289.5	720.2	1500.5	3470.5	3855.3	4211.9	4081.3	815.5	692.0
85°	28.2	35.3	123.6	427.2	755.5	1451.0	2842.1	2065.3	1913.5	307.2	398.9
87.5°	3.5	7.1	35.3	102.4	109.4	490.7	840.3	571.9	494.3	113.0	165.9
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°	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6	12395.6
2.5°	12402.7	12307.4	11989.6	11675.4	11354.1	11064.6	10866.9	10545.6	10464.4	10347.9	10280.8
5°	12378.0	12155.5	11544.8	10877.5	10256.1	9585.3	9073.4	8579.1	8314.3	8180.2	8130.8
7.5°	12307.4	11954.3	11001.1	9956.0	8960.4	7957.8	7085.7	6422.0	5994.8	5701.8	5504.1
10°	12166.1	11678.9	10369.1	8932.2	7428.2	6104.3	4999.2	4158.9	3509.3	3304.6	3311.6
12.5°	12021.4	11371.8	9663.0	7795.4	5931.3	4261.3	3089.2	2425.5	2114.8	2012.4	1991.2
15°	11887.2	11078.7	8971.0	6693.8	4416.7	2760.9	1991.2	1758.2	1673.5	1655.8	1652.3
17.5°	11816.6	10806.9	8233.1	5433.5	3082.1	1874.7	1595.8	1532.2	1507.5	1489.9	1482.8
20°	11756.6	10570.3	7527.0	4254.3	2107.7	1535.8	1429.9	1369.8	1327.5	1309.8	1299.2
22.5°	11714.2	10326.7	6796.2	3294.0	1613.4	1362.8	1267.5	1189.8	1129.8	1108.6	1094.5
25°	11650.7	10058.4	6058.4	2407.8	1359.2	1211.0	1101.5	1009.7	932.1	893.2	886.2
27.5°	11558.9	9754.8	5249.9	1782.9	1214.5	1076.8	942.6	829.7	752.0	709.6	713.2
30°	11410.6	9437.1	4441.4	1415.7	1098.0	939.1	794.4	684.9	610.8	579.0	575.5
32.5°	11234.1	9052.2	3700.0	1214.5	992.1	815.5	663.7	568.4	511.9	487.2	483.7
35°	11068.1	8663.9	2944.4	1090.9	882.6	702.6	557.8	476.6	434.3	413.1	416.6
37.5°	10976.4	8317.9	2294.8	992.1	794.4	603.7	480.1	409.5	370.7	353.1	349.5
40°	11036.4	8035.4	1825.3	903.8	695.5	519.0	413.1	353.1	314.2	289.5	289.5
42.5°	11318.8	7911.9	1472.2	819.1	603.7	448.4	360.1	303.6	261.3	236.5	240.1
45°	12180.3	8042.5	1232.1	741.4	519.0	388.4	310.7	250.7	211.8	194.2	190.6
47.5°	13610.1	8533.2	1066.2	660.2	444.8	331.9	261.3	208.3	169.5	155.3	151.8
50°	16109.7	9546.5	942.6	579.0	377.8	282.4	215.4	165.9	134.2	120.0	120.0
52.5°	19548.4	11756.6	854.4	487.2	317.7	240.1	176.5	134.2	105.9	95.3	91.8
55°	23142.5	14086.7	808.5	409.5	264.8	197.7	141.2	105.9	81.2	70.6	67.1
57.5°	26598.9	15915.5	755.5	331.9	211.8	151.8	109.4	81.2	56.5	49.4	45.9
60°	29914.0	17394.8	642.6	264.8	165.9	109.4	81.2	56.5	38.8	31.8	31.8
62.5°	32879.6	18256.3	504.9	211.8	127.1	77.7	53.0	42.4	28.2	21.2	21.2
65°	33225.6	17137.1	381.3	162.4	91.8	49.4	31.8	31.8	21.2	14.1	14.1
66°	32530.1	16187.4	335.4	148.3	81.2	42.4	28.2	24.7	17.7	10.6	10.6
67.5°	30976.7	14566.9	289.5	127.1	67.1	31.8	21.2	21.2	14.1	7.1	7.1
70°	26764.8	11897.8	229.5	95.3	49.4	24.7	14.1	14.1	10.6	7.1	7.1
72.5°	20399.3	8882.8	187.1	70.6	35.3	17.7	10.6	10.6	10.6	7.1	7.1
75°	12303.8	4783.8	144.8	53.0	31.8	14.1	7.1	10.6	14.1	10.6	7.1
77.5°	4533.2	1627.6	113.0	42.4	24.7	14.1	7.1	7.1	14.1	10.6	10.6
80°	1112.1	423.7	81.2	35.3	24.7	14.1	7.1	7.1	14.1	14.1	14.1
82.5°	515.5	180.1	56.5	31.8	24.7	14.1	7.1	7.1	10.6	14.1	14.1
85°	296.6	84.7	45.9	35.3	24.7	14.1	7.1	7.1	10.6	14.1	14.1
87.5°	120.0	42.4	42.4	35.3	28.2	17.7	7.1	7.1	7.1	10.6	10.6
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)