

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: P458350

Luminaire Tested: **GALN-SA9D-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
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-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62517 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

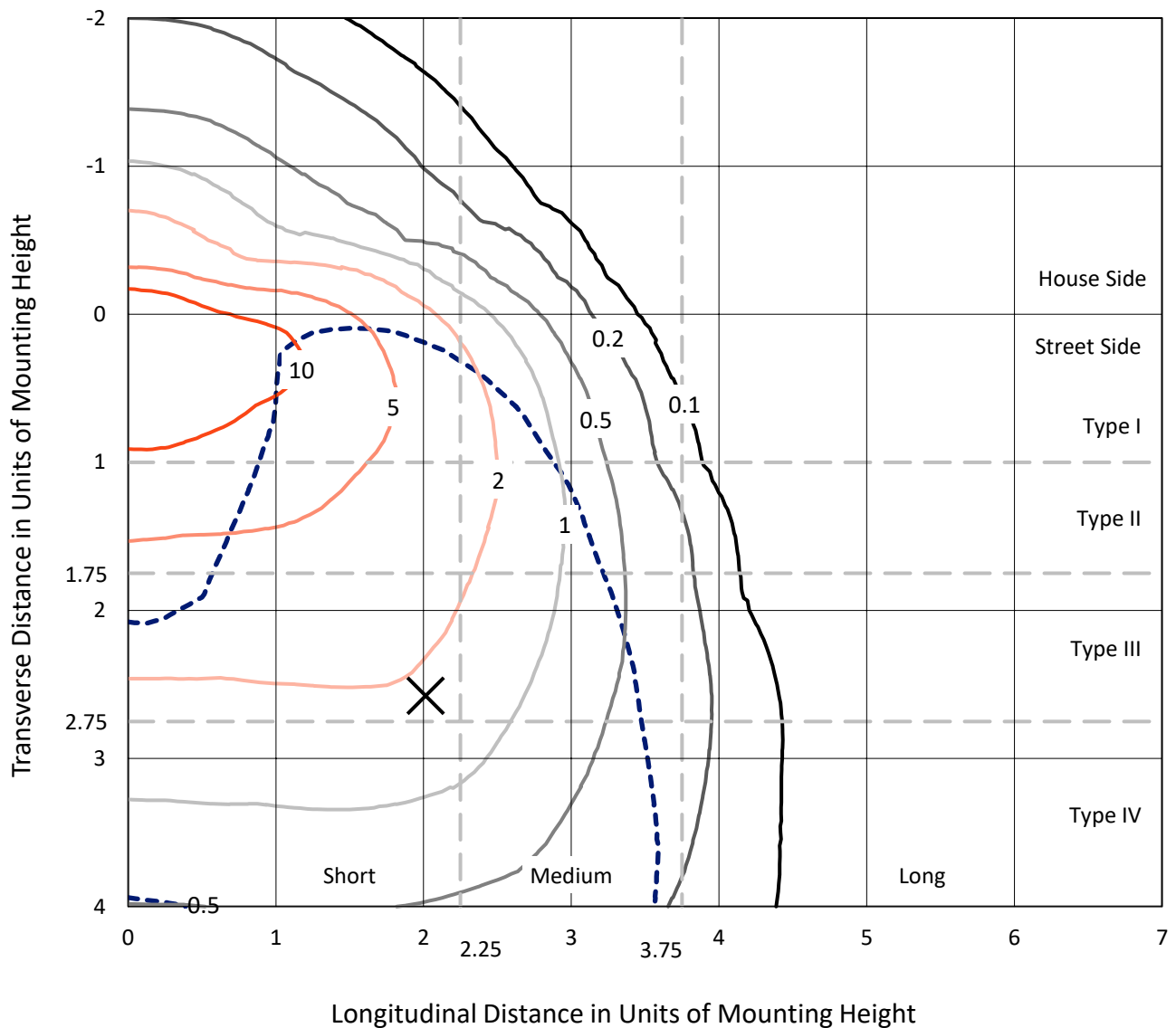
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

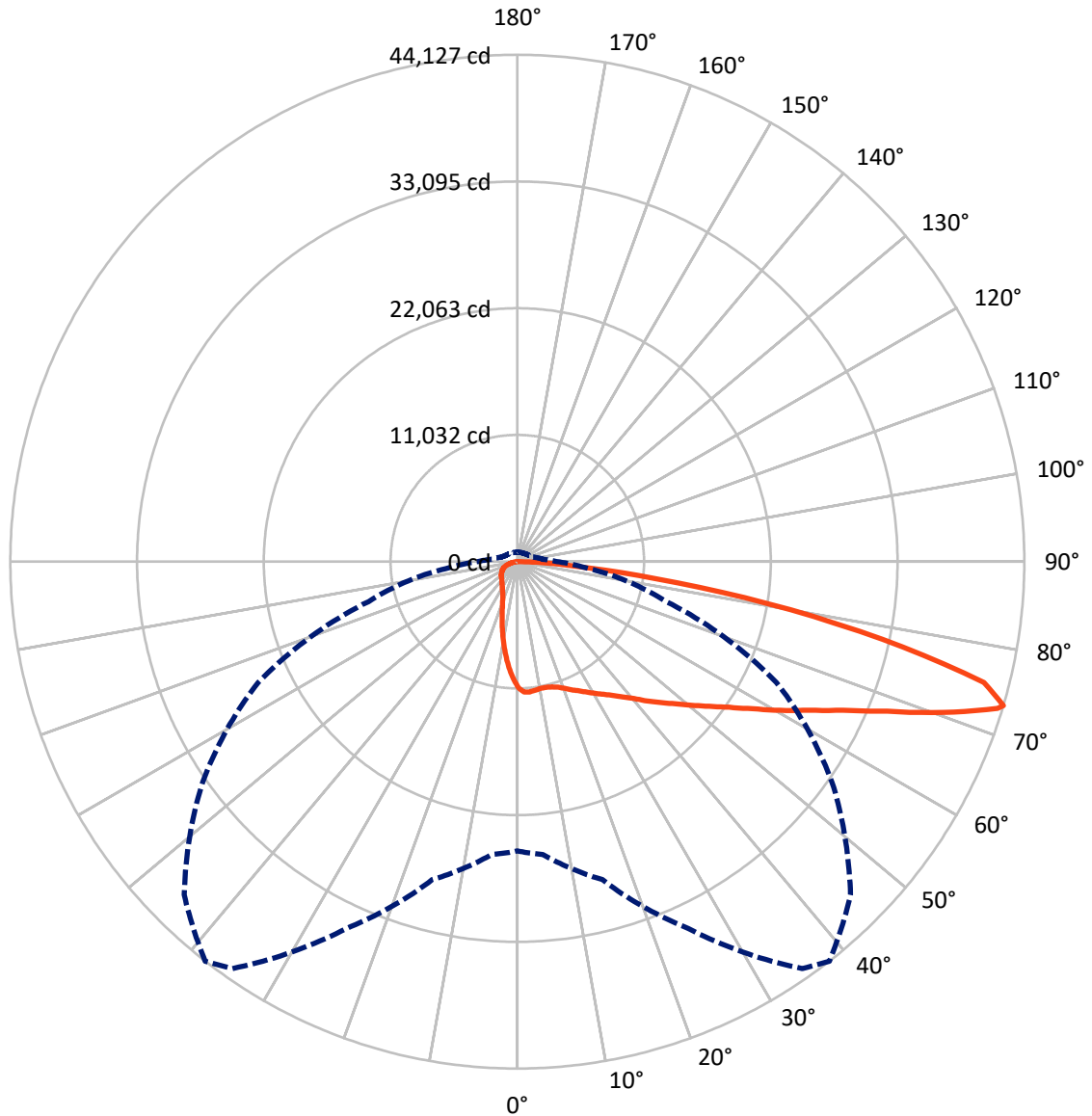
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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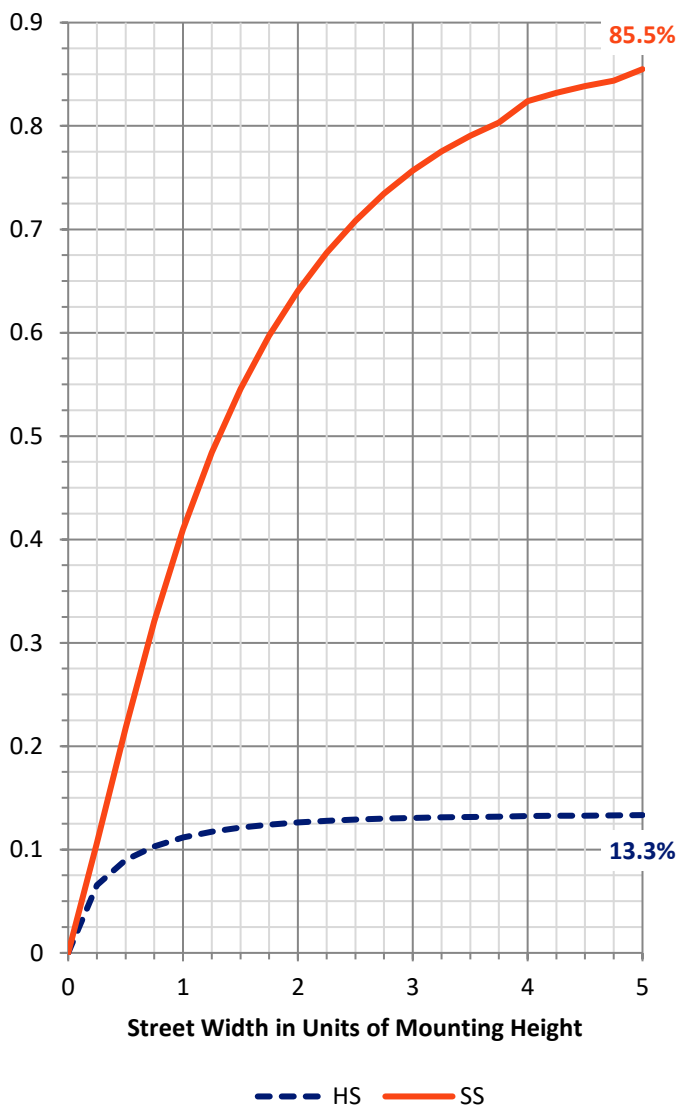
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8404.1	0.0	8404.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	54112.9	0.0	54112.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	62517.0	0.0	62517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.7	1.5
10°-20°	2458.5	3.9
20°-30°	3828.3	6.1
30°-40°	5615.2	9.0
40°-50°	8329.5	13.3
50°-60°	11801.3	18.9
60°-70°	14970.2	23.9
70°-80°	12461.6	19.9
80°-90°	2093.7	3.3
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°	62517.0	100.0
0°-180°	62517.0	100.0

Coefficient of Utilization



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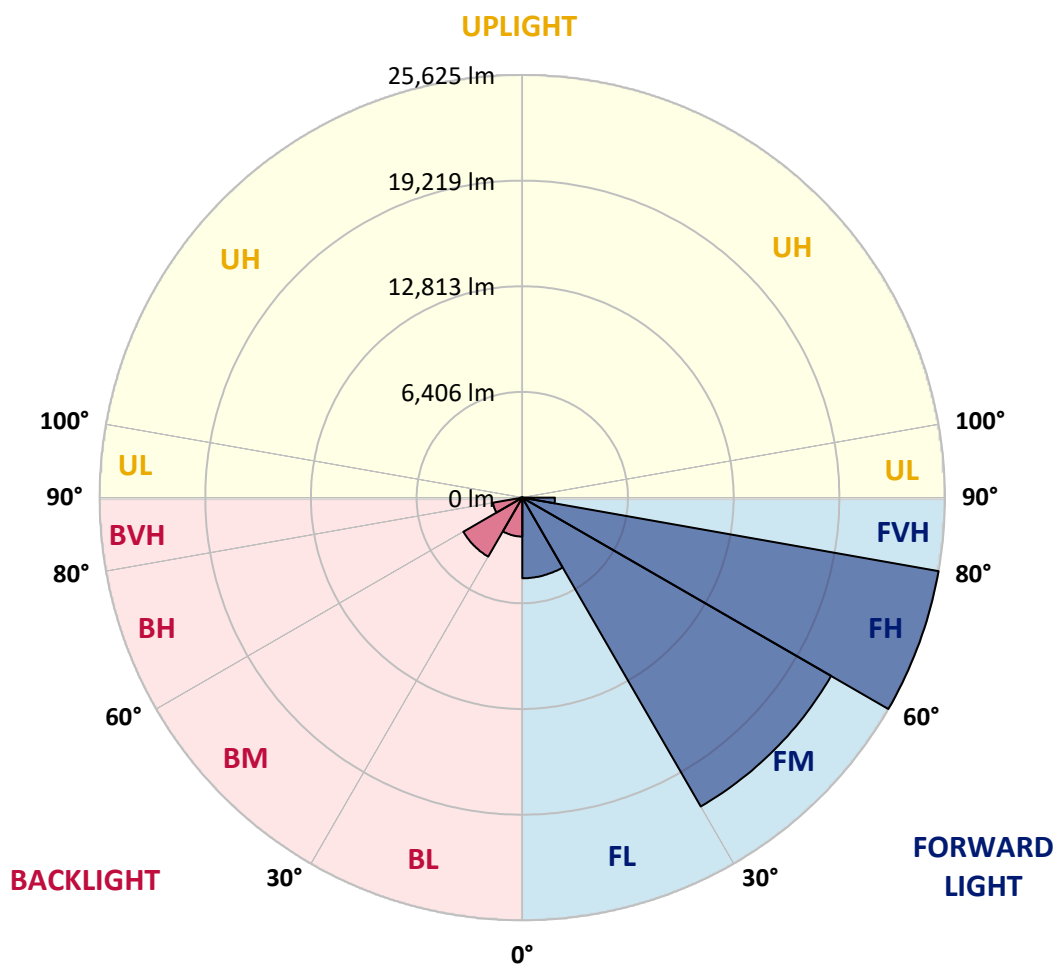
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4887.1	7.8			
FM	(30°-60°)	21620.1	34.6			
FH	(60°-80°)	25625.5	41.0			G5
FVH	(80°-90°)	1980.2	3.2			G5
BL	(0°-30°)	2358.3	3.8	B3/2500		
BM	(30°-60°)	4125.9	6.6	B3/5000		
BH	(60°-80°)	1806.4	2.9	B3/2500		G3/2500
BVH	(80°-90°)	113.5	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2
2.5°	11424.5	11481.0	11452.7	11413.9	11389.2	11364.5	11329.2	11226.8	11145.6	11057.3	10919.6
5°	11509.2	11544.5	11519.8	11470.4	11413.9	11389.2	11322.1	11187.9	11057.3	10909.0	10704.3
7.5°	11459.8	11473.9	11445.7	11385.6	11336.2	11290.3	11212.7	11064.4	10905.5	10725.5	10457.1
10°	11283.3	11336.2	11336.2	11286.8	11237.4	11212.7	11135.0	10993.8	10849.0	10644.3	10326.5
12.5°	11138.5	11195.0	11240.9	11226.8	11223.2	11223.2	11163.2	11057.3	10887.9	10693.7	10315.9
15°	11039.7	11106.7	11205.6	11262.1	11297.4	11308.0	11283.3	11191.5	11018.5	10792.5	10358.3
17.5°	11018.5	11099.7	11279.7	11403.3	11495.1	11491.6	11484.5	11357.4	11166.8	10933.8	10411.2
20°	11113.8	11219.7	11470.4	11664.6	11798.7	11774.0	11735.2	11569.2	11346.8	11085.6	10460.7
22.5°	11399.8	11509.2	11784.6	11996.4	12127.0	12127.0	12010.5	11791.6	11555.1	11262.1	10527.8
25°	11809.3	11929.3	12222.4	12437.7	12497.7	12451.8	12335.3	12070.6	11798.7	11516.3	10669.0
27.5°	12310.6	12455.4	12727.2	12907.3	12889.6	12854.3	12734.3	12395.4	12123.5	11865.8	10909.0
30°	12935.5	13041.4	13323.9	13366.2	13302.7	13295.6	13126.2	12787.2	12533.0	12335.3	11251.5
32.5°	13525.1	13620.4	13846.4	13864.0	13751.0	13765.2	13606.3	13295.6	13150.9	13080.3	11827.0
35°	14150.0	14199.4	14393.6	14372.4	14298.3	14287.7	14224.1	13927.6	13973.5	14100.5	12642.5
37.5°	14672.5	14771.3	14880.8	14898.4	14894.9	14930.2	14972.6	14831.3	15096.1	15495.1	13712.2
40°	15152.6	15237.3	15399.7	15456.2	15593.9	15664.5	15809.3	15812.8	16423.6	17080.2	15029.1
42.5°	15477.4	15622.2	15925.8	16028.2	16363.6	16575.4	16790.7	17020.2	17906.4	18750.1	16582.4
45°	15759.9	15950.5	16455.3	16773.1	17228.5	17486.2	17941.7	18421.8	19696.3	20801.3	18160.5
47.5°	16187.0	16356.5	16935.5	17496.8	18185.3	18481.8	19163.2	19879.9	21546.2	22757.2	19671.6
50°	16780.1	16882.5	17472.1	18386.5	19265.6	19646.9	20547.1	21581.5	23523.3	24688.3	20999.0
52.5°	17539.2	17581.6	18051.1	19269.1	20427.1	20900.2	22093.5	23300.9	25253.2	26365.3	22051.1
55°	18435.9	18365.3	18732.5	20204.7	21754.5	22372.4	23653.9	25041.4	27198.5	27721.0	22817.2
57.5°	19322.1	19212.6	19505.6	21341.5	23392.6	24137.6	25630.9	26834.8	28935.4	28988.4	23353.8
60°	20261.2	20180.0	20529.5	22676.0	25401.5	26284.1	27664.5	28695.4	30615.9	29871.0	23438.5
62.5°	21225.0	21094.3	21592.1	24176.4	27664.5	28465.9	29803.9	30672.4	32264.6	30199.3	22623.0
65°	22160.5	22100.5	22870.1	25959.3	30241.7	31152.5	32451.7	33041.3	33585.0	29705.1	20600.1
67.5°	23156.1	23276.1	24504.7	28338.8	33602.7	34746.5	36148.1	35593.8	33962.8	27364.4	17348.5
70°	24674.2	24751.9	26651.2	31456.2	37934.5	39314.9	39992.7	36501.1	32141.1	22919.6	13041.4
72.5°	25327.3	25669.8	28568.3	34728.9	42855.9	43699.7	41284.9	34478.2	26774.8	15569.2	6852.6
73°	25182.6	25592.1	28656.5	35226.7	43240.7	44126.9	41009.5	33436.7	24889.6	13408.6	5874.6
75°	23378.5	23883.4	27509.1	34810.1	42492.3	41962.7	36582.3	28497.7	16819.0	6097.1	2676.1
77.5°	18446.5	18591.3	21796.9	28109.3	33461.4	32480.0	27378.5	17811.0	6870.2	2266.5	1518.1
80°	9253.3	9786.4	12285.9	16102.3	22375.9	22054.6	17281.5	8423.6	2863.2	1331.0	1006.2
82.5°	4451.9	4829.6	5984.1	7851.7	12363.6	12070.6	8557.8	4603.7	1818.2	776.7	593.1
85°	2866.7	3149.1	3809.3	3745.8	5083.8	4854.3	3844.6	3484.5	1076.8	406.0	413.1
87.5°	1892.3	2072.4	2485.4	1987.6	1849.9	1673.4	1698.1	1962.9	211.8	155.3	56.5
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°	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2	10983.2
2.5°	10863.1	10817.2	10665.4	10517.2	10375.9	10241.8	10153.5	10037.0	9959.4	9980.5	10012.3
5°	10591.3	10488.9	10220.6	9959.4	9712.2	9419.2	9182.7	8992.0	8847.3	8794.3	8783.7
7.5°	10305.3	10132.3	9747.5	9299.2	8879.0	8515.4	8095.3	7887.0	7643.4	7558.7	7530.4
10°	10132.3	9899.3	9359.2	8734.3	8102.3	7498.6	7043.2	6672.5	6337.1	6273.6	6241.8
12.5°	10082.9	9775.8	9048.5	8243.6	7403.3	6661.9	5987.6	5500.4	5175.6	5101.5	4992.0
15°	10054.7	9673.4	8759.0	7749.3	6683.1	5779.3	5069.7	4501.3	4204.7	4007.0	4010.6
17.5°	10030.0	9556.9	8434.2	7209.1	6061.8	5020.3	4236.5	3724.6	3452.8	3346.9	3336.3
20°	9994.7	9419.2	8060.0	6640.7	5352.1	4328.3	3618.7	3237.4	3053.8	2965.6	2962.0
22.5°	9980.5	9285.0	7692.8	6061.8	4723.7	3795.2	3209.2	2940.9	2824.3	2764.3	2764.3
25°	10015.8	9189.7	7308.0	5511.0	4165.9	3339.8	2926.7	2743.1	2676.1	2644.3	2633.7
27.5°	10125.3	9147.4	6926.7	4960.3	3654.0	3029.1	2736.1	2609.0	2559.6	2534.9	2538.4
30°	10333.6	9143.8	6552.5	4416.6	3272.7	2792.6	2584.3	2496.0	2457.2	2443.1	2439.5
32.5°	10669.0	9221.5	6185.3	3968.2	2951.4	2594.9	2443.1	2379.5	2361.9	2351.3	2347.7
35°	11237.4	9440.4	5821.7	3558.7	2704.3	2418.3	2308.9	2277.1	2252.4	2263.0	2266.5
37.5°	12003.5	9818.1	5475.7	3237.4	2517.2	2287.7	2195.9	2167.7	2153.6	2164.2	2174.7
40°	13030.8	10361.8	5186.2	2979.7	2383.0	2178.3	2097.1	2072.4	2058.2	2075.9	2079.4
42.5°	14164.1	10990.2	4946.1	2778.5	2273.6	2086.5	2008.8	1980.6	1970.0	1980.6	1984.1
45°	15329.1	11721.0	4822.6	2633.7	2181.8	2019.4	1938.2	1906.4	1881.7	1874.7	1885.3
47.5°	16476.5	12356.5	4819.0	2545.4	2107.7	1959.4	1871.1	1835.8	1804.1	1786.4	1782.9
50°	17412.1	12861.4	4903.8	2506.6	2044.1	1892.3	1804.1	1768.7	1726.4	1691.1	1698.1
52.5°	18118.2	13189.7	4942.6	2489.0	2008.8	1821.7	1733.4	1701.7	1652.2	1606.3	1606.3
55°	18573.6	13267.4	4847.3	2471.3	1980.6	1747.6	1652.2	1624.0	1574.6	1528.7	1528.7
57.5°	18728.9	13027.3	4504.8	2428.9	1952.3	1684.0	1571.0	1546.3	1507.5	1461.6	1454.5
60°	18368.8	12215.3	3904.7	2301.8	1895.8	1616.9	1482.8	1472.2	1458.1	1419.2	1415.7
62.5°	16981.4	10492.4	3251.5	2135.9	1800.5	1546.3	1401.6	1419.2	1429.8	1408.6	1405.1
65°	14672.5	8518.9	2778.5	1906.4	1673.4	1447.5	1313.3	1359.2	1387.5	1387.5	1380.4
67.5°	11901.1	6541.9	2340.7	1708.7	1514.6	1313.3	1214.5	1249.8	1271.0	1263.9	1281.5
70°	8458.9	4430.7	1906.4	1482.8	1313.3	1161.5	1087.4	1087.4	1073.3	1066.2	1066.2
72.5°	4102.4	2531.3	1546.3	1239.2	1119.1	992.1	932.0	907.3	879.1	875.5	857.9
73°	3428.1	2270.1	1475.7	1193.3	1073.3	967.3	900.3	861.4	843.8	829.7	826.1
75°	2086.5	1722.9	1232.1	1006.2	914.4	833.2	773.2	737.9	720.2	709.6	706.1
77.5°	1373.3	1285.1	956.7	769.6	699.0	649.6	624.9	589.6	579.0	564.9	564.9
80°	1023.8	981.5	684.9	543.7	501.3	459.0	451.9	444.8	416.6	398.9	391.9
82.5°	660.2	699.0	466.0	363.6	317.7	282.4	286.0	296.6	268.3	243.6	236.5
85°	469.5	504.9	282.4	165.9	134.2	116.5	130.6	116.5	120.0	95.3	77.7
87.5°	77.7	134.2	49.4	21.2	10.6	7.1	0.0	0.0	0.0	0.0	0.0
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)