

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: P533954

Luminaire Tested: **GALN-SA9B-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34678 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 364
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

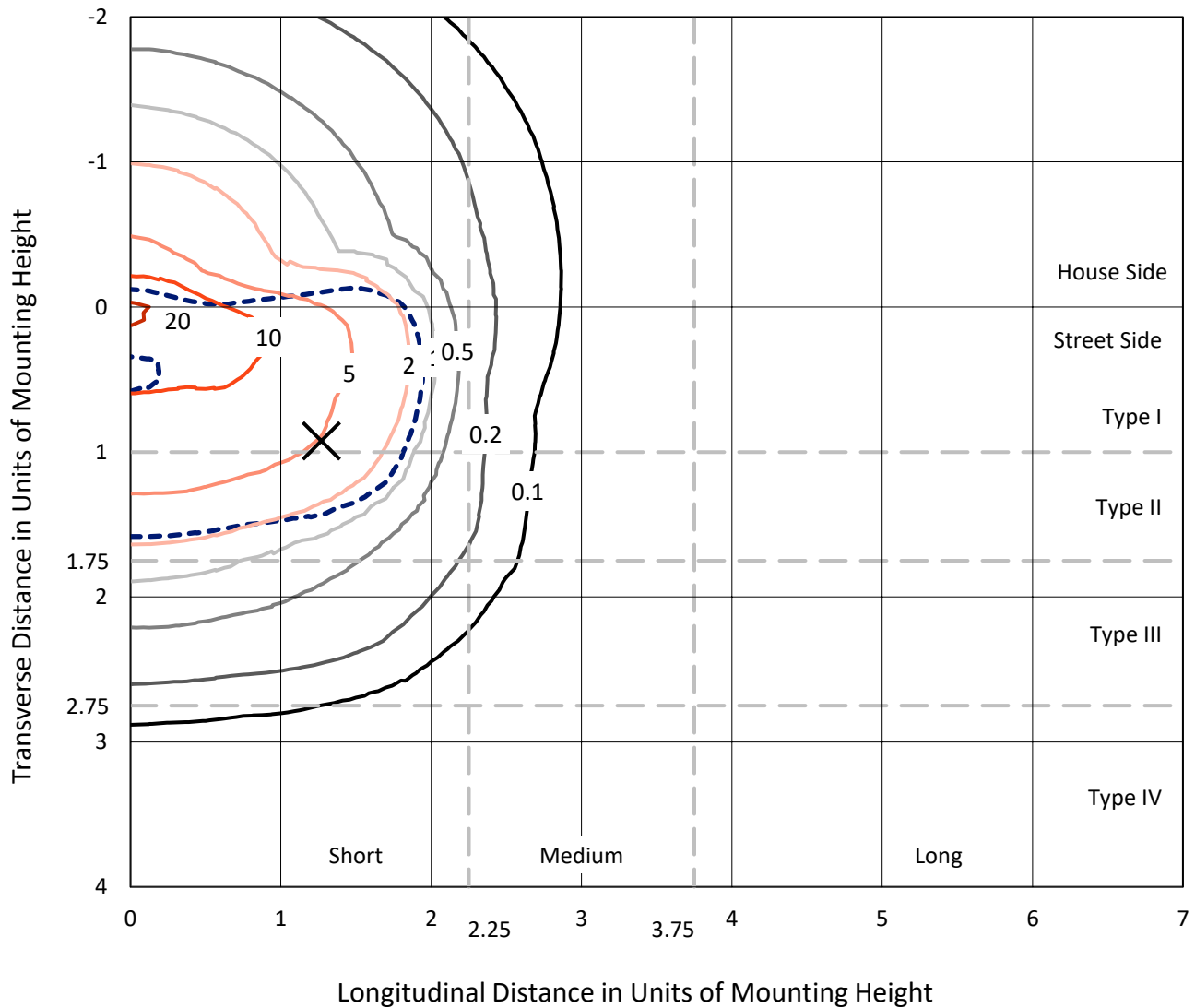


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

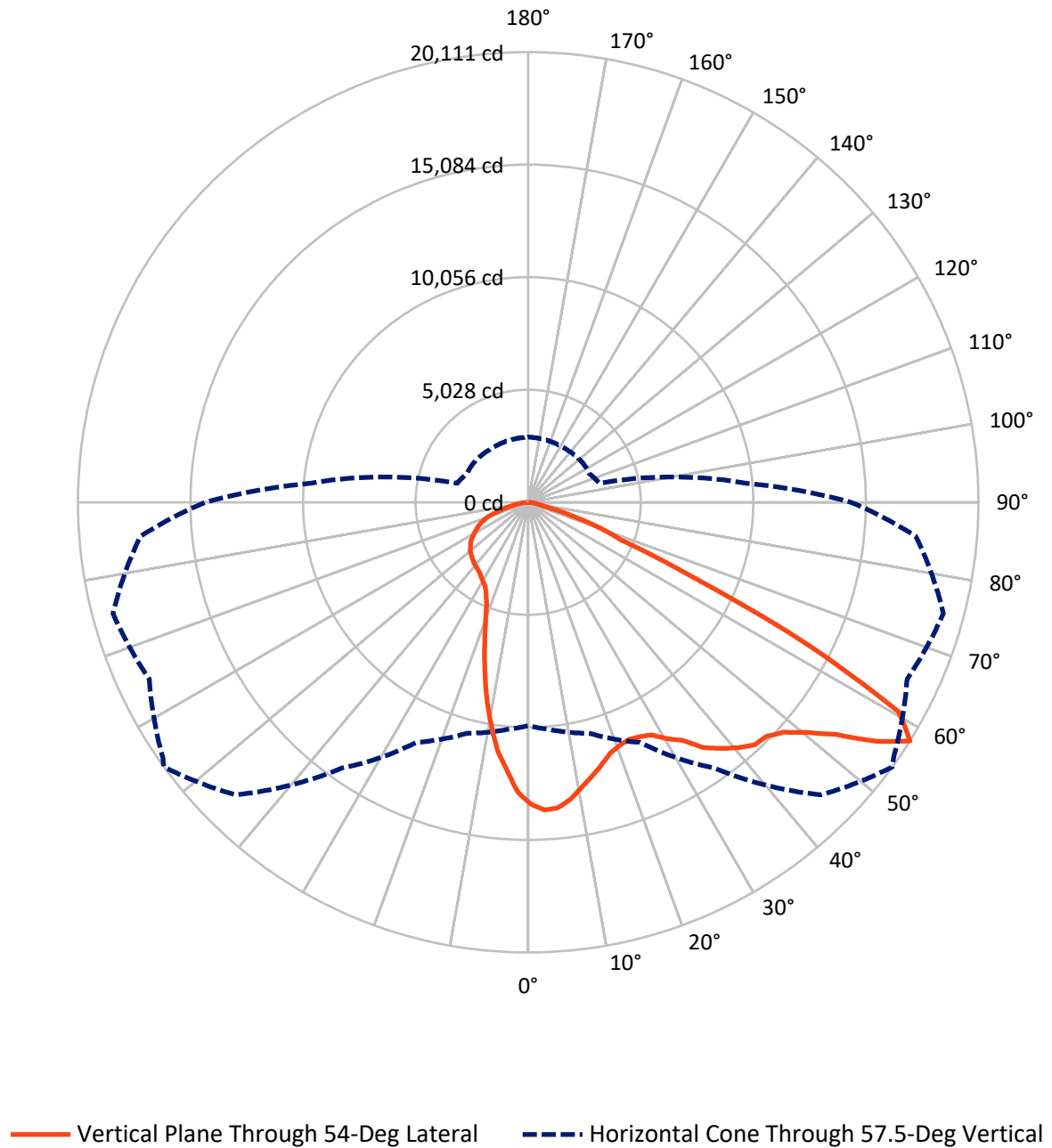


Based on 25 foot mounting height. Maximum calculated value = 21.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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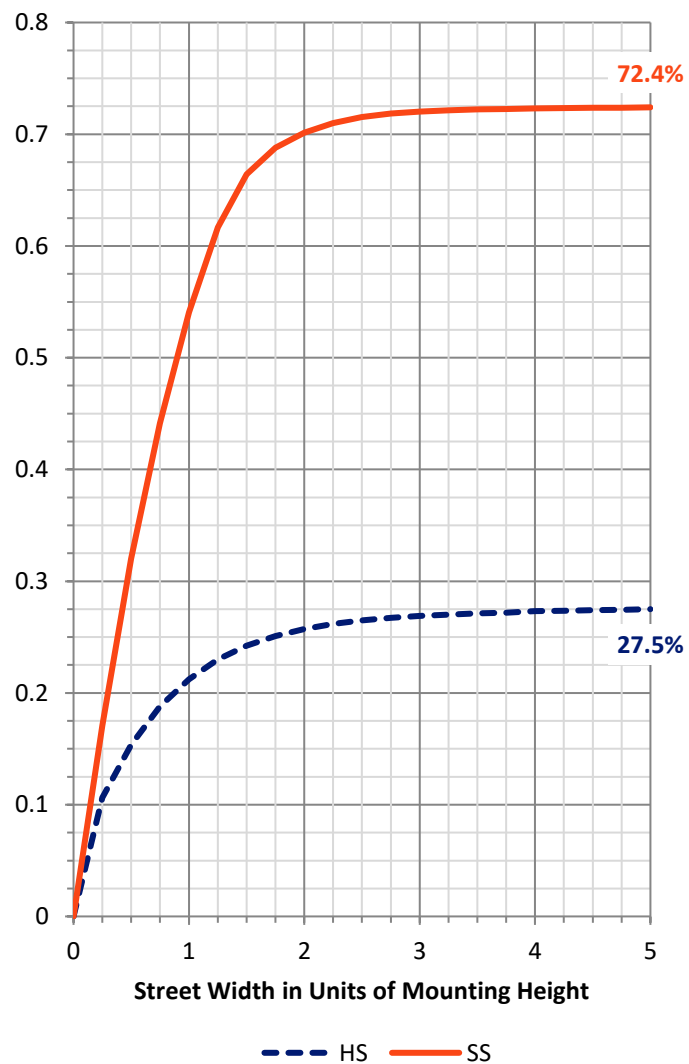
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9593.9	0.0	9593.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	25084.1	0.0	25084.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	34678.0	0.0	34678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.4	3.4
10°-20°	2691.4	7.8
20°-30°	3781.5	10.9
30°-40°	5286.6	15.2
40°-50°	7157.0	20.6
50°-60°	8717.6	25.1
60°-70°	4540.5	13.1
70°-80°	1163.4	3.4
80°-90°	177.5	0.5
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°	34678.0	100.0
0°-180°	34678.0	100.0

Coefficient of Utilization



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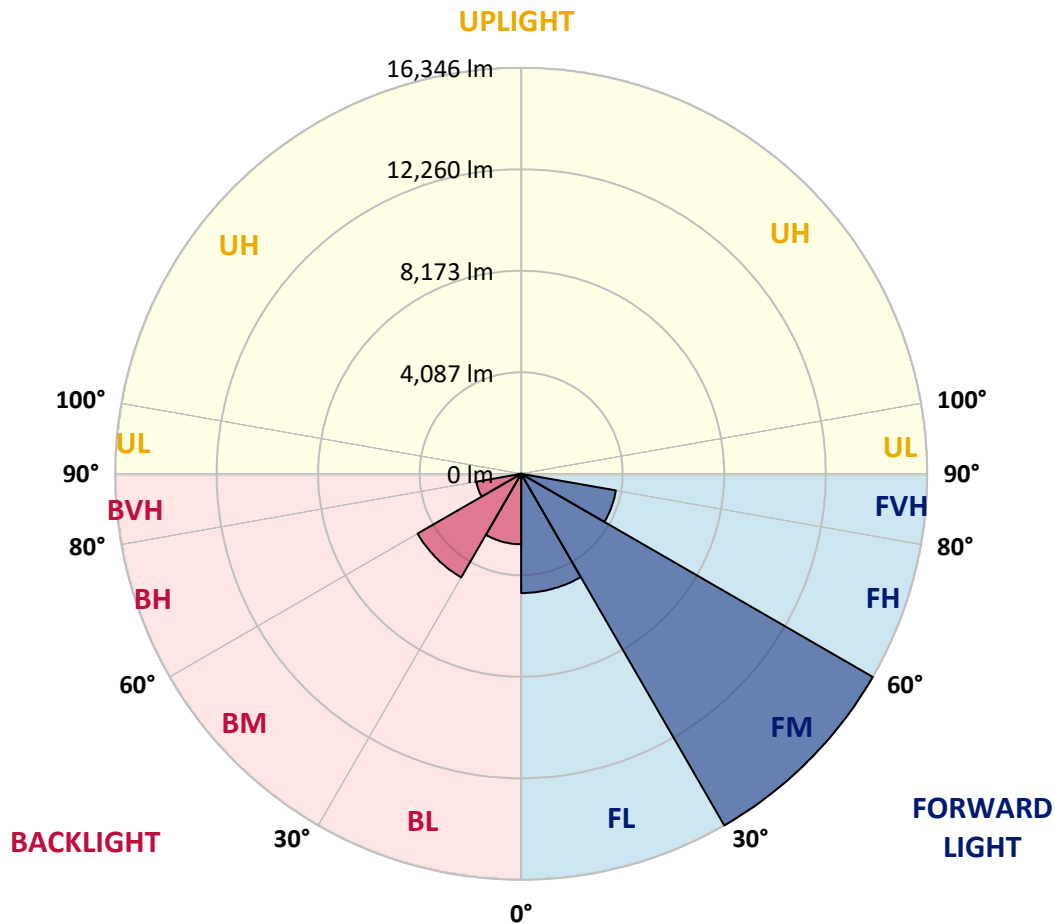
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4799.9	13.8			
FM	(30°-60°)	16346.1	47.1			
FH	(60°-80°)	3871.0	11.2			G2/5000
FVH	(80°-90°)	67.1	0.2			G1/100
BL	(0°-30°)	2835.5	8.2	B4/5000		
BM	(30°-60°)	4815.1	13.9	B3/5000		
BH	(60°-80°)	1832.9	5.3	B3/2500		G3/2500
BVH	(80°-90°)	110.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9
2.5°	13862.3	13808.8	13817.7	13889.0	13799.9	13764.2	13764.2	13590.4	13603.7	13483.4	13452.2
5°	13541.3	13416.5	13501.2	13608.2	13626.0	13661.7	13719.6	13675.1	13550.3	13421.0	13211.5
7.5°	12703.4	12814.8	12846.0	12921.8	13082.2	13229.3	13412.1	13287.3	13282.8	13153.6	13028.8
10°	11967.9	11901.0	12070.4	12181.9	12449.3	12694.5	12975.3	12961.9	13028.8	12881.7	12667.7
12.5°	11236.9	11183.4	11263.7	11517.7	11892.1	12248.7	12583.0	12458.2	12814.8	12788.1	12329.0
15°	10461.3	10501.5	10617.3	10853.6	11343.9	11771.8	12195.2	12199.7	12516.2	12623.1	12008.0
17.5°	9917.5	9873.0	10020.1	10372.2	10809.0	11321.6	11803.0	11901.0	12386.9	12449.3	11910.0
20°	9511.9	9574.3	9766.0	9944.3	10448.0	11067.5	11611.3	11647.0	12360.2	12529.5	11754.0
22.5°	9413.9	9378.2	9440.6	9730.3	10144.9	10817.9	11508.8	11642.5	12355.7	12502.8	11459.8
25°	9311.3	9427.2	9422.8	9712.5	10015.6	10617.3	11593.5	11740.6	12591.9	12641.0	11499.9
27.5°	9543.1	9529.8	9654.6	9676.8	10051.3	10670.8	11771.8	11883.2	12984.2	12944.1	11531.1
30°	9774.9	9708.0	9783.8	10046.8	10220.6	10978.4	12262.1	12253.2	13492.3	13465.6	11629.2
32.5°	10060.2	10029.0	10078.0	10309.8	10604.0	11388.5	12676.6	12939.6	14009.4	14178.7	11967.9
35°	10113.7	10242.9	10358.8	10670.8	11089.8	12052.6	13456.7	13675.1	14606.6	15137.1	12614.2
37.5°	10452.4	10501.5	10773.3	11326.1	11709.4	12939.6	13951.4	14089.6	15150.4	15752.2	13296.2
40°	10813.5	10871.4	11281.5	11860.9	12386.9	13519.1	14415.0	14459.6	15324.3	16224.7	13741.9
42.5°	11303.8	11357.3	11762.9	12489.4	13193.7	14013.8	14825.1	14874.1	15310.9	16768.4	14450.6
45°	11811.9	11941.2	12418.1	13242.7	13875.6	14593.3	14918.7	15119.2	15435.7	17254.3	15025.6
47.5°	12525.1	12645.4	13037.7	13844.4	14584.4	15101.4	15351.0	15547.1	15734.3	17677.7	15395.6
50°	13282.8	13305.1	13782.0	14513.0	15056.8	15676.4	16157.8	16224.7	16126.6	18168.0	16024.1
52.5°	13840.0	13911.3	14281.3	14994.4	15805.7	16567.9	17227.5	17298.9	17107.2	18350.8	16238.0
55°	12917.3	12877.2	13478.9	14428.4	16309.3	17896.1	18854.5	18908.0	17820.4	18916.9	16937.8
57.5°	9984.4	10176.1	10688.7	11834.2	14490.8	18484.5	20111.4	19919.8	18676.2	19202.1	17383.6
60°	7256.5	7211.9	7555.2	8321.8	10920.4	15930.5	19014.9	19211.1	17976.4	17307.8	14334.7
62.5°	5910.4	5848.0	5874.8	5901.5	7047.0	10572.8	14076.2	14071.8	13844.4	12440.4	9667.9
65°	4724.8	4871.9	4885.2	5085.8	5232.9	6316.0	8156.9	8593.7	7483.8	6137.7	4452.9
67.5°	3561.4	3507.9	3686.2	4399.4	4675.7	4559.8	4452.9	4501.9	3200.4	2308.9	2175.2
70°	2099.4	2077.1	2291.1	3066.6	3851.1	3623.8	3356.4	3360.8	2197.5	1613.6	1796.3
72.5°	1150.0	1145.5	1190.1	1555.6	2188.5	2273.2	2014.7	2077.1	1310.5	1306.0	1404.1
75°	641.9	628.5	615.1	686.4	788.9	833.5	851.3	860.3	900.4	1007.4	1047.5
77.5°	236.2	227.3	227.3	263.0	334.3	419.0	530.4	539.3	637.4	731.0	771.1
80°	80.2	89.1	120.3	164.9	222.9	298.6	361.0	370.0	450.2	512.6	526.0
82.5°	49.0	53.5	80.2	115.9	160.5	209.5	267.4	271.9	334.3	374.4	392.2
85°	22.3	26.7	44.6	71.3	102.5	138.2	142.6	142.6	138.2	142.6	133.7
87.5°	0.0	0.0	8.9	8.9	8.9	13.4	17.8	13.4	22.3	26.7	26.7
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°	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9	13478.9
2.5°	13358.6	13309.6	13158.0	13024.3	12984.2	12805.9	12542.9	12574.1	12382.4	12471.6	12378.0
5°	13175.8	13010.9	12623.1	12458.2	12025.9	11829.7	11696.0	11361.7	11205.7	11174.5	11040.8
7.5°	12707.8	12605.3	12119.5	11673.7	11214.6	10822.4	10318.7	9975.5	9730.3	9663.5	9467.4
10°	12337.9	12110.5	11437.5	10760.0	10104.7	9422.8	8767.6	8255.0	8005.4	7715.6	7617.6
12.5°	11972.4	11629.2	10719.9	9850.7	9003.8	8143.5	7350.1	6726.1	6182.3	6053.0	6008.5
15°	11745.0	11147.8	10078.0	9030.5	7827.1	6703.8	5910.4	5500.3	5166.0	5027.9	5125.9
17.5°	11446.4	10751.1	9462.9	8067.8	6743.9	5709.8	5045.7	4791.6	4671.3	4684.6	4644.5
20°	11072.0	10376.6	8656.1	7194.1	5776.7	4952.1	4573.2	4479.6	4497.4	4528.6	4515.3
22.5°	10804.5	9922.0	8072.2	6302.7	4992.2	4533.1	4377.1	4310.2	4368.2	4394.9	4372.6
25°	10599.5	9534.2	7363.5	5513.7	4537.6	4296.9	4225.5	4221.1	4310.2	4345.9	4323.6
27.5°	10412.3	9173.2	6659.2	4912.0	4234.5	4114.1	4091.8	4145.3	4203.3	4238.9	4270.1
30°	10300.9	8896.8	5999.6	4408.3	4082.9	4025.0	3984.8	4033.9	4065.1	4100.7	4082.9
32.5°	10407.8	8700.7	5362.2	4123.0	3958.1	3900.2	3953.6	3922.4	3975.9	4007.1	3958.1
35°	10742.1	8526.9	4907.5	3971.5	3815.5	3837.8	3846.7	3833.3	3855.6	3828.8	3886.8
37.5°	11072.0	8464.5	4488.5	3842.2	3748.6	3748.6	3739.7	3712.9	3757.5	3748.6	3775.4
40°	11491.0	8504.6	4131.9	3704.0	3686.2	3677.3	3641.6	3637.2	3619.3	3623.8	3632.7
42.5°	11856.5	8593.7	3926.9	3614.9	3628.3	3646.1	3579.2	3525.7	3548.0	3503.5	3503.5
45°	12244.3	8673.9	3744.2	3552.5	3539.1	3534.7	3481.2	3450.0	3432.1	3436.6	3476.7
47.5°	12854.9	8789.8	3606.0	3467.8	3476.7	3409.9	3396.5	3356.4	3374.2	3400.9	3405.4
50°	13287.3	9035.0	3499.0	3369.7	3400.9	3356.4	3276.1	3258.3	3258.3	3302.9	3294.0
52.5°	13590.4	9378.2	3396.5	3262.8	3276.1	3240.5	3213.7	3173.6	3146.9	3209.3	3240.5
55°	14517.5	9948.7	3369.7	3173.6	3169.2	3133.5	3084.5	3044.4	3031.0	3039.9	3102.3
57.5°	14428.4	9770.4	3285.0	3017.6	3008.7	2959.7	2910.6	2897.3	2892.8	2901.7	2919.5
60°	11713.8	7216.4	2932.9	2839.3	2825.9	2817.0	2768.0	2714.5	2687.8	2714.5	2692.2
62.5°	7751.3	4831.7	2585.2	2625.4	2634.3	2612.0	2531.8	2478.3	2487.2	2518.4	2469.4
65°	3806.6	2839.3	2344.6	2451.5	2460.4	2398.0	2322.3	2259.9	2228.7	2255.4	2233.1
67.5°	2175.2	2170.7	2148.4	2259.9	2255.4	2193.0	2072.7	2019.2	1965.7	1974.6	1961.2
70°	1845.3	1881.0	1925.6	1992.4	1988.0	1916.6	1774.0	1733.9	1658.1	1649.2	1626.9
72.5°	1453.1	1515.5	1613.6	1662.6	1622.5	1533.3	1439.7	1372.9	1306.0	1265.9	1279.3
75°	1078.7	1167.8	1221.3	1252.5	1190.1	1141.1	1065.3	985.1	904.8	869.2	855.8
77.5°	784.5	811.2	860.3	882.5	842.4	793.4	748.8	668.6	592.8	543.8	530.4
80°	548.3	566.1	601.7	601.7	601.7	579.5	521.5	441.3	392.2	347.7	338.8
82.5°	383.3	401.2	436.8	419.0	414.5	387.8	352.1	289.7	236.2	205.0	196.1
85°	133.7	147.1	178.3	214.0	227.3	222.9	200.6	160.5	124.8	102.5	93.6
87.5°	31.2	31.2	35.7	31.2	31.2	35.7	31.2	31.2	31.2	22.3	17.8
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)