

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: P534200

Luminaire Tested: **GALN-SA9C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44212 lumens
Efficiency: N/A
Efficacy: 91.9 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): 481
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

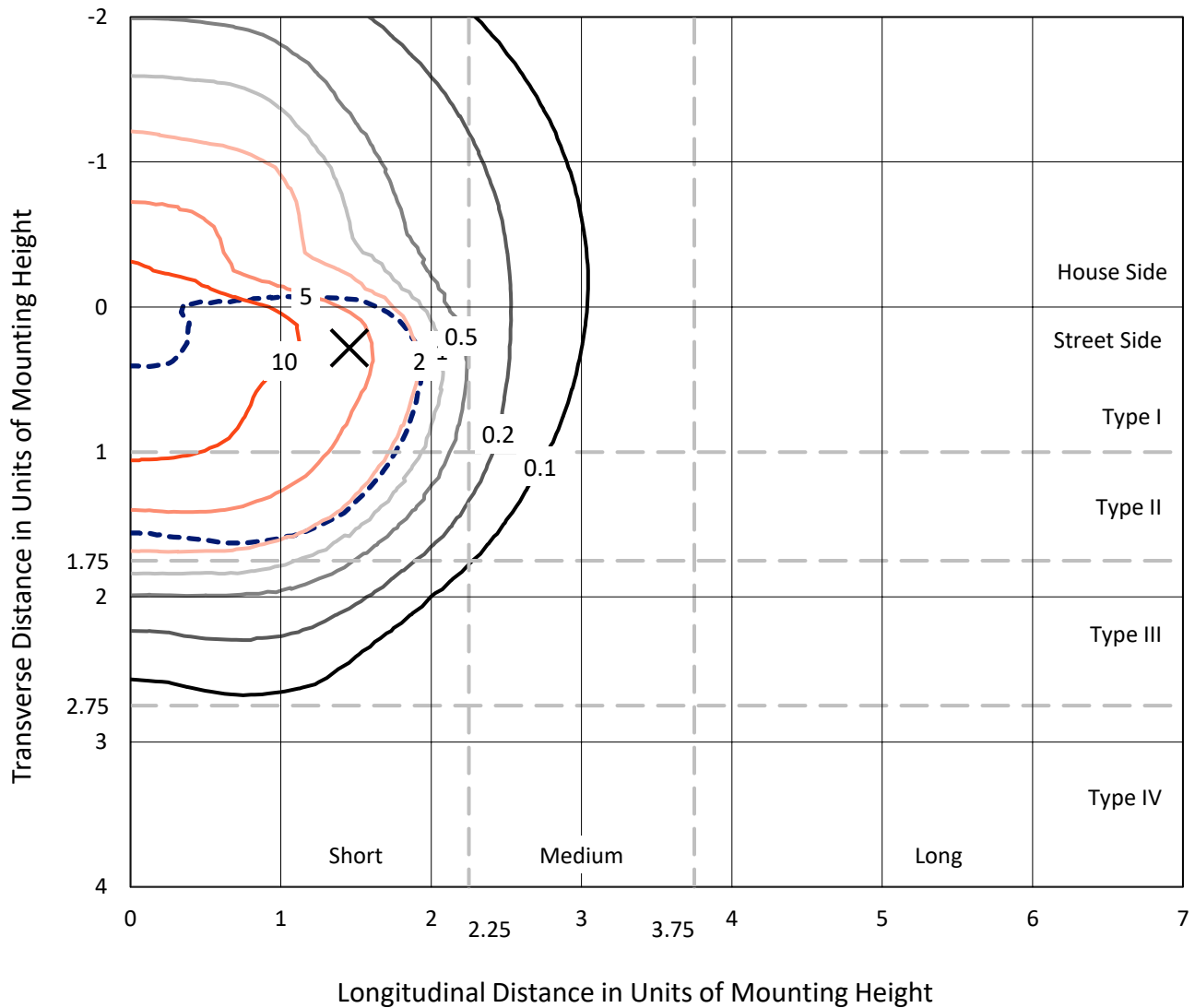


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Iso-Footcandle Lines of Horizontal Illumination

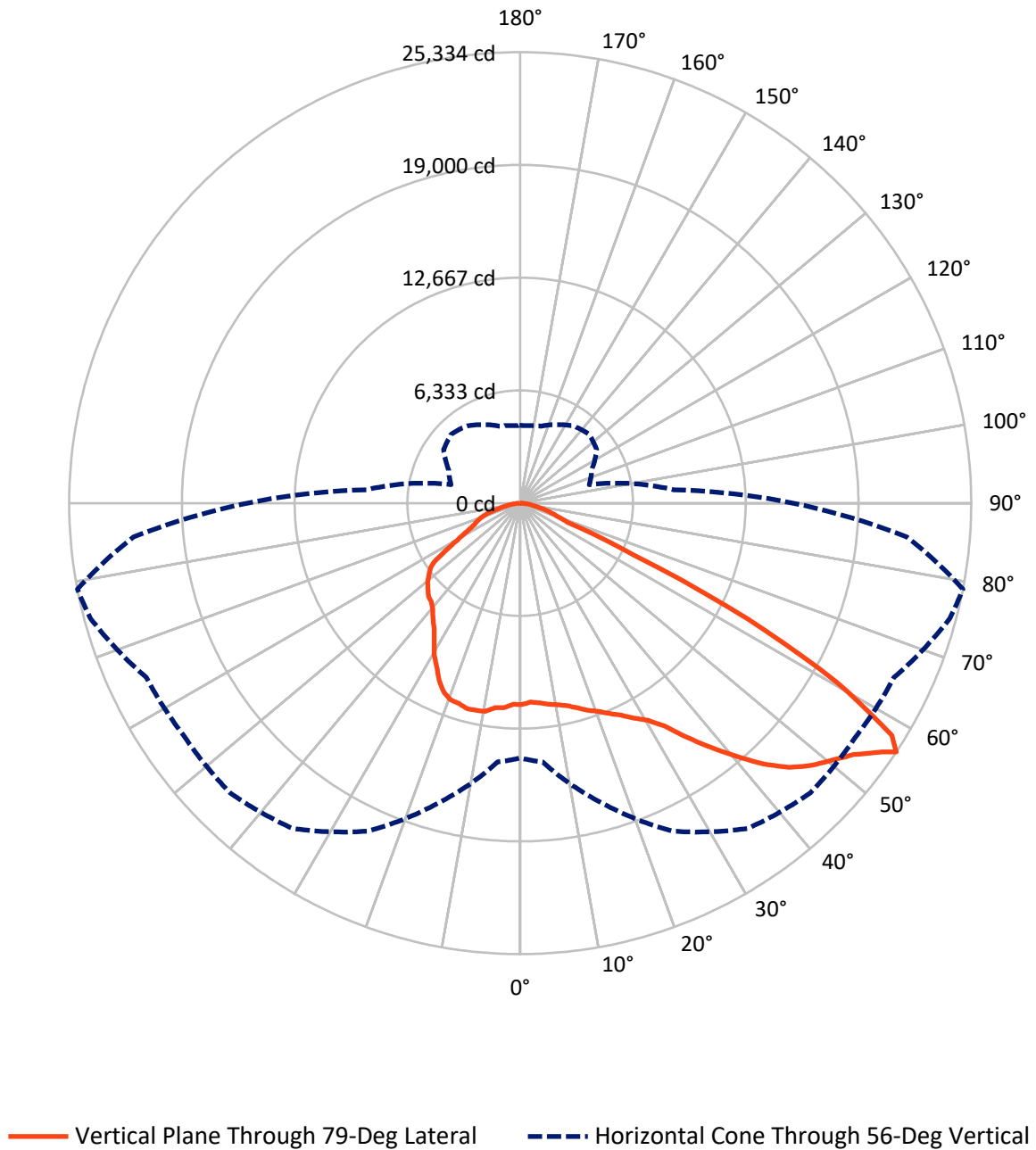
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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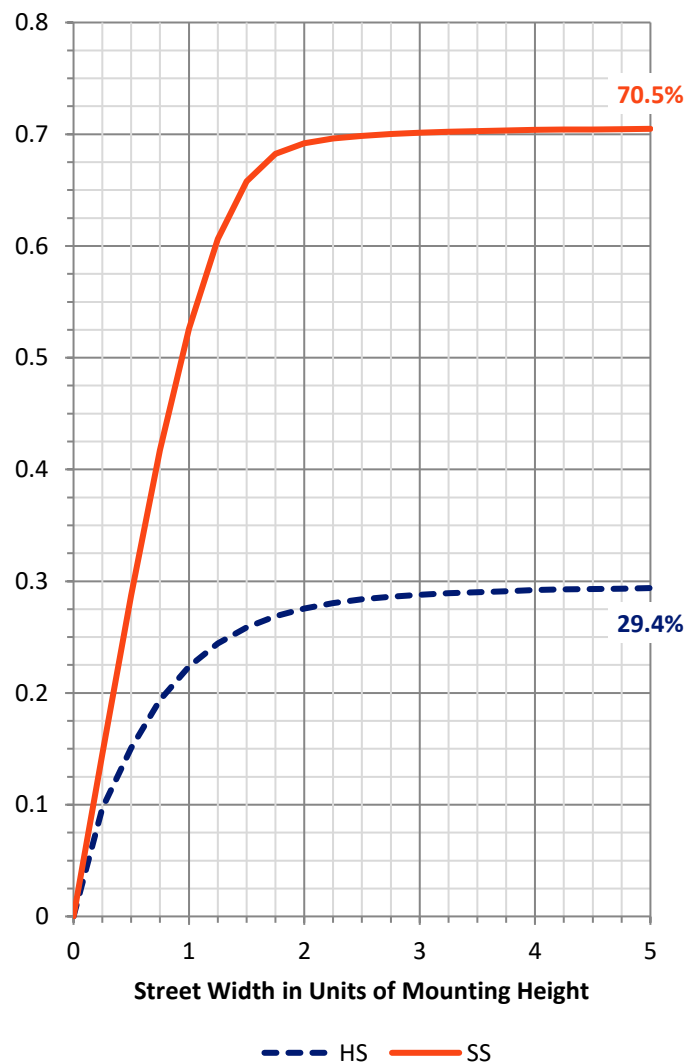
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13056.8	0.0	13056.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	31155.2	0.0	31155.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	44212.0	0.0	44212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1028.5	2.3
10°-20°	2814.7	6.4
20°-30°	4815.4	10.9
30°-40°	7380.2	16.7
40°-50°	9974.2	22.6
50°-60°	11455.8	25.9
60°-70°	5221.9	11.8
70°-80°	1287.4	2.9
80°-90°	234.0	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°	44212.0	100.0
0°-180°	44212.0	100.0

Coefficient of Utilization



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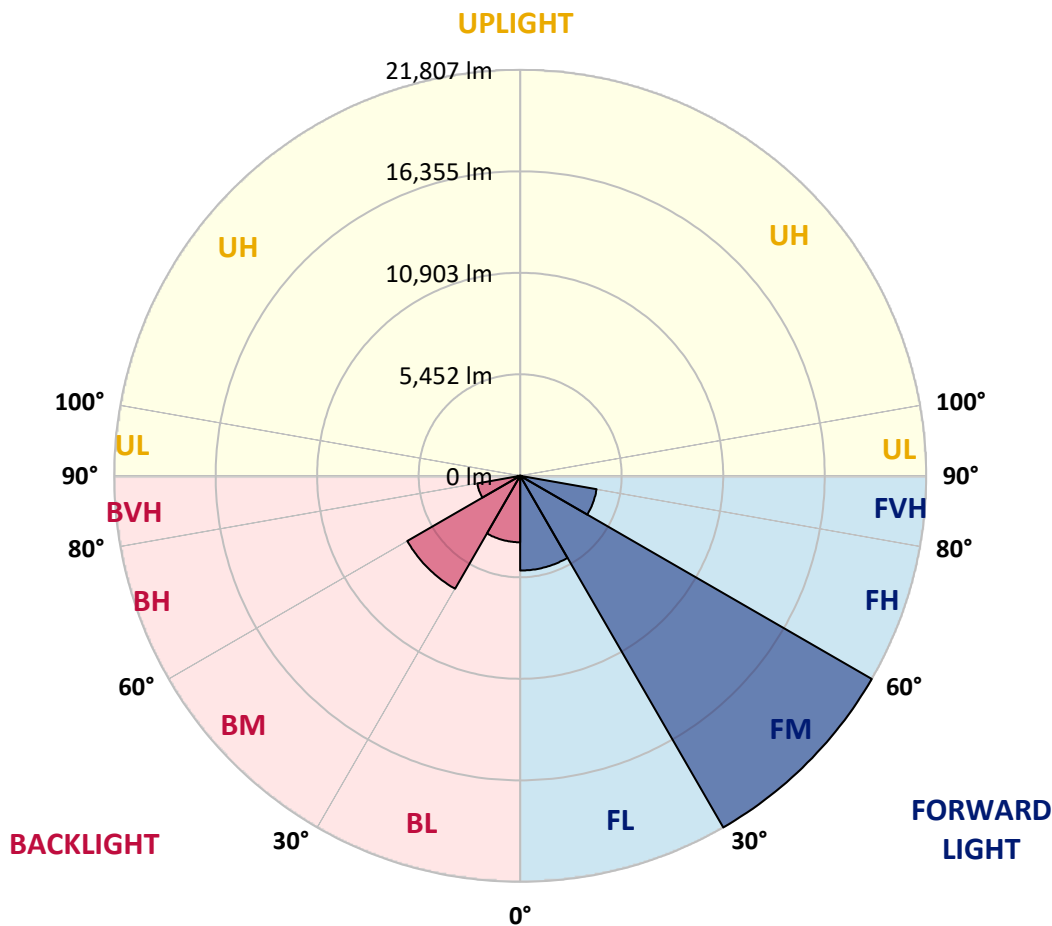
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5087.0	11.5			
FM	(30°-60°)	21806.7	49.3			
FH	(60°-80°)	4168.2	9.4			G2/5000
FVH	(80°-90°)	93.4	0.2			G1/100
BL	(0°-30°)	3571.6	8.1	B4/5000		
BM	(30°-60°)	7003.5	15.8	B4/8500		
BH	(60°-80°)	2341.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	140.6	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°	55°	65°	75°	79°	85°
0°	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1
2.5°	10761.4	10733.8	10799.9	10849.5	10910.1	10987.2	11025.7	11047.7	11240.5	11190.9	11339.6
5°	10530.1	10458.5	10508.0	10546.6	10651.2	10744.8	10849.5	11014.7	11190.9	11268.0	11449.8
7.5°	10326.3	10287.7	10276.7	10304.3	10447.4	10568.6	10750.4	10992.7	11279.1	11405.7	11510.4
10°	9990.3	9935.3	10017.9	10199.6	10238.2	10491.5	10700.8	11047.7	11295.6	11515.9	11824.3
12.5°	9841.6	9786.6	9803.1	9907.7	10177.6	10419.9	10667.7	11058.8	11582.0	11670.1	12083.1
15°	10078.5	10023.4	10039.9	10012.4	10271.2	10397.9	10788.9	11279.1	11780.2	11928.9	12369.5
17.5°	10618.2	10623.7	10552.1	10491.5	10430.9	10700.8	10970.6	11411.2	11857.3	12231.8	12562.3
20°	11648.0	11466.3	11323.1	10981.7	10888.0	11003.7	11345.1	11769.2	12171.2	12479.7	12854.2
22.5°	12441.1	12457.6	12253.9	11692.1	11488.3	11537.9	11829.8	12176.8	12617.3	12837.6	13267.2
25°	13592.1	13476.5	13256.2	12810.1	12353.0	12391.5	12606.3	12920.2	13041.4	13195.6	13663.7
27.5°	14644.0	14677.1	14242.0	13823.5	13256.2	13146.0	13531.6	13586.6	13382.9	13674.8	13834.5
30°	15712.5	15684.9	15398.6	14908.4	14352.2	14374.2	14544.9	14275.1	13994.2	14153.9	14264.0
32.5°	16819.5	16505.5	16494.5	16053.9	15629.9	15426.1	15216.8	15349.0	14913.9	14947.0	14842.3
35°	17706.1	17750.2	17496.9	17182.9	16973.7	16615.7	16042.9	16279.7	16197.1	16158.6	15707.0
37.5°	18350.5	18179.8	18306.4	18201.8	18003.5	17557.4	16962.6	17188.4	17227.0	17414.2	16891.0
40°	18879.2	18807.6	19143.6	19198.6	19060.9	18097.2	17028.7	17700.6	18278.9	18686.4	18064.1
42.5°	19132.5	19286.7	19639.2	20063.3	19754.9	18725.0	17370.2	18091.6	19380.4	20024.7	19176.6
45°	19474.0	19275.7	19798.9	20575.5	20581.0	19253.7	17700.6	18620.4	20239.5	21175.8	19936.6
47.5°	19127.0	19226.2	19765.9	20751.7	21005.0	19809.9	18592.8	19369.4	21186.8	22018.4	20641.6
50°	18350.5	18548.8	19534.6	20558.9	21324.5	20399.2	19617.2	20178.9	22062.5	22695.8	20757.2
52.5°	17540.9	17651.1	19193.1	20707.6	21467.7	21159.2	20988.5	21296.9	23130.9	23461.3	20900.4
55°	15338.0	15861.2	18064.1	20641.6	22167.1	22530.6	22398.4	22850.0	24342.5	24672.9	21682.4
56°	14319.1	14594.5	17386.7	20333.1	22304.8	23031.7	22965.7	23169.4	24986.9	25333.8	21803.6
57.5°	12435.6	12457.6	14825.8	18967.3	21787.1	23180.4	23114.4	23274.1	24860.2	24623.4	20740.7
60°	7781.9	8123.3	10089.5	14589.0	18526.7	21506.2	21880.7	20597.5	20961.0	20459.8	16136.5
62.5°	4031.4	3981.8	5287.1	8530.9	12297.9	15398.6	15745.5	15684.9	15123.2	14390.7	10541.1
65°	2010.2	2021.2	2764.7	4224.1	6300.4	8062.8	9032.1	9136.7	7644.2	7032.9	5000.7
67.5°	1459.4	1514.5	1988.2	2582.9	2968.5	3320.9	4069.9	3992.8	3023.5	2874.8	2665.6
70°	1134.5	1184.1	1613.7	1971.6	1789.9	1789.9	1949.6	2015.7	2153.4	2214.0	2285.6
72.5°	826.1	864.7	1233.6	1360.3	1173.1	1261.2	1459.4	1613.7	1756.8	1778.9	1861.5
75°	567.3	600.3	809.6	749.0	704.9	870.2	1068.4	1211.6	1316.3	1371.3	1420.9
77.5°	369.0	380.0	462.6	391.0	451.6	561.7	693.9	815.1	919.7	963.8	974.8
80°	165.2	181.7	198.3	247.8	313.9	402.0	495.7	594.8	660.9	677.4	710.4
82.5°	93.6	93.6	121.2	176.2	231.3	291.9	358.0	429.6	506.7	523.2	517.7
85°	49.6	49.6	71.6	104.6	143.2	170.7	165.2	170.7	181.7	209.3	203.8
87.5°	16.5	16.5	22.0	22.0	27.5	33.0	27.5	38.6	49.6	49.6	49.6
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°	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1	11312.1
2.5°	11295.6	11345.1	11279.1	11422.2	11422.2	11394.7	11257.0	11301.1	11334.1	11334.1	11361.7
5°	11510.4	11493.8	11537.9	11367.2	11262.5	11224.0	10998.2	10888.0	10794.4	10788.9	10706.3
7.5°	11631.5	11587.5	11570.9	11444.3	10981.7	10700.8	10216.1	9935.3	9874.7	9659.9	9742.5
10°	11824.3	11906.9	11824.3	11135.9	10491.5	9847.1	9373.5	8938.4	8767.7	8630.0	8547.4
12.5°	12220.8	12182.3	11703.1	10772.4	9869.2	9103.7	8398.7	7941.6	7770.9	7649.7	7638.7
15°	12556.8	12364.0	11631.5	10199.6	8899.9	8084.8	7506.5	7181.6	7104.5	7115.5	7165.1
17.5°	12672.4	12540.2	11257.0	9604.8	8178.4	7220.1	6950.3	6900.7	6972.3	7054.9	7076.9
20°	12854.2	12644.9	11102.8	8795.2	7286.2	6680.4	6663.9	6840.1	6972.3	7093.5	7110.0
22.5°	13234.2	12705.5	10601.7	8029.7	6674.9	6520.7	6680.4	6829.1	7032.9	7132.0	7043.9
25°	13344.3	12573.3	9896.7	7110.0	6289.4	6421.6	6592.3	6796.1	6939.3	6994.3	7032.9
27.5°	13437.9	12369.5	8943.9	6498.7	6168.2	6416.1	6592.3	6763.0	6840.1	6889.7	6933.8
30°	13702.3	12308.9	8117.8	6091.1	6091.1	6305.9	6531.7	6575.8	6680.4	6741.0	6818.1
32.5°	13834.5	11890.4	7269.7	5832.3	6014.0	6361.0	6377.5	6460.1	6465.6	6515.2	6432.6
35°	14181.4	11593.0	6482.2	5645.0	6047.1	6305.9	6388.5	6339.0	6069.1	5936.9	5964.5
37.5°	14434.8	11444.3	5914.9	5623.0	6052.6	6366.5	6410.6	6036.1	5755.2	5534.9	5590.0
40°	15117.7	11075.3	5485.3	5584.5	6102.1	6432.6	6311.4	5903.9	5397.2	5171.4	5132.9
42.5°	15640.9	10810.9	5215.5	5540.4	6140.7	6526.2	6261.9	5639.5	5121.8	4912.6	4967.6
45°	16246.7	10750.4	5072.3	5551.4	6206.8	6575.8	6201.3	5435.8	4885.0	4802.4	4785.9
47.5°	16461.5	10315.3	4918.1	5457.8	6190.3	6559.3	5997.5	5281.6	4796.9	4807.9	4852.0
50°	16103.5	9869.2	4802.4	5265.0	6080.1	6410.6	5678.1	5077.8	4747.3	4885.0	4962.1
52.5°	15646.4	9412.1	4565.6	5006.2	5854.3	6179.2	5529.4	5066.8	4697.8	4653.7	4670.2
55°	15784.1	9037.6	4235.2	4653.7	5490.8	5749.7	5364.2	4962.1	4576.6	4411.4	4466.5
56°	15338.0	8652.0	4020.4	4433.4	5243.0	5474.3	5281.6	4868.5	4477.5	4367.3	4367.3
57.5°	14076.8	7357.8	3739.5	4080.9	4719.8	4995.2	5121.8	4813.4	4367.3	4174.6	4180.1
60°	10381.4	5232.0	3354.0	3596.3	3910.2	4130.5	4719.8	4659.2	4092.0	3959.8	3910.2
62.5°	6399.5	3822.1	3078.6	3172.2	3331.9	3513.7	4119.5	4218.6	3800.1	3656.9	3623.8
65°	3585.3	2924.4	2869.3	2907.9	2985.0	3078.6	3420.1	3640.4	3354.0	3133.7	3122.7
67.5°	2621.5	2616.0	2660.1	2693.1	2726.1	2726.1	2808.7	2896.9	2858.3	2682.1	2665.6
70°	2329.6	2346.1	2379.2	2384.7	2395.7	2357.1	2291.1	2263.5	2307.6	2197.4	2175.4
72.5°	1922.1	1977.1	2015.7	2021.2	1960.6	1911.1	1822.9	1729.3	1696.3	1674.2	1668.7
75°	1476.0	1514.5	1531.0	1525.5	1503.5	1431.9	1327.3	1233.6	1173.1	1107.0	1140.0
77.5°	996.8	1051.9	1079.4	1079.4	1046.4	936.2	886.7	815.1	754.5	682.9	693.9
80°	699.4	738.0	782.0	776.5	721.5	666.4	594.8	528.7	479.1	424.1	418.6
82.5°	523.2	545.2	567.3	556.2	517.7	462.6	413.1	352.5	297.4	258.8	258.8
85°	187.2	203.8	247.8	258.8	280.9	280.9	236.8	198.3	159.7	132.2	132.2
87.5°	55.1	55.1	60.6	60.6	55.1	60.6	49.6	55.1	60.6	38.6	38.6
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)