

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: P533250

Luminaire Tested: **GALN-SA8C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38237 lumens
Efficiency: N/A
Efficacy: 89.1 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): 429
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



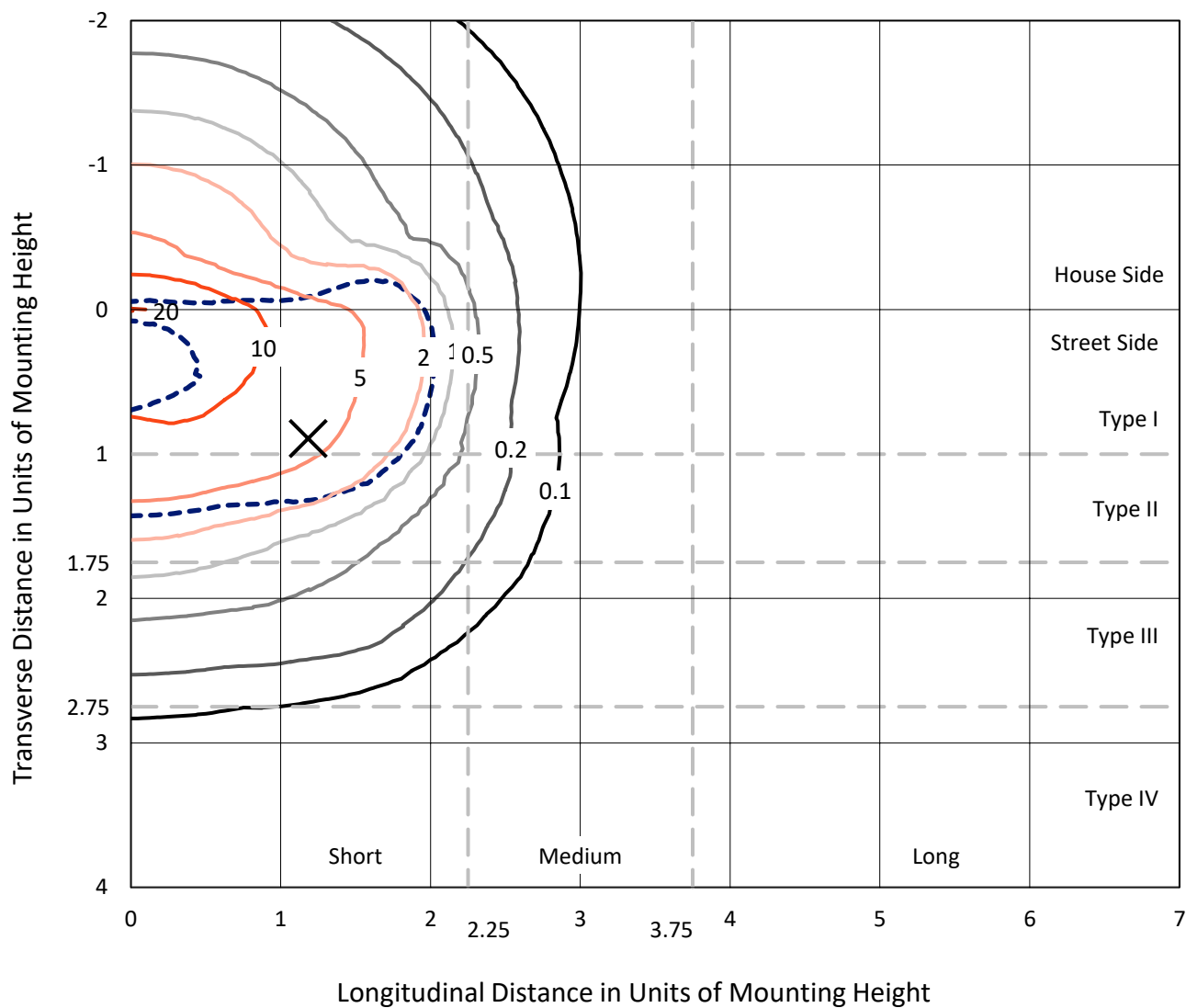
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

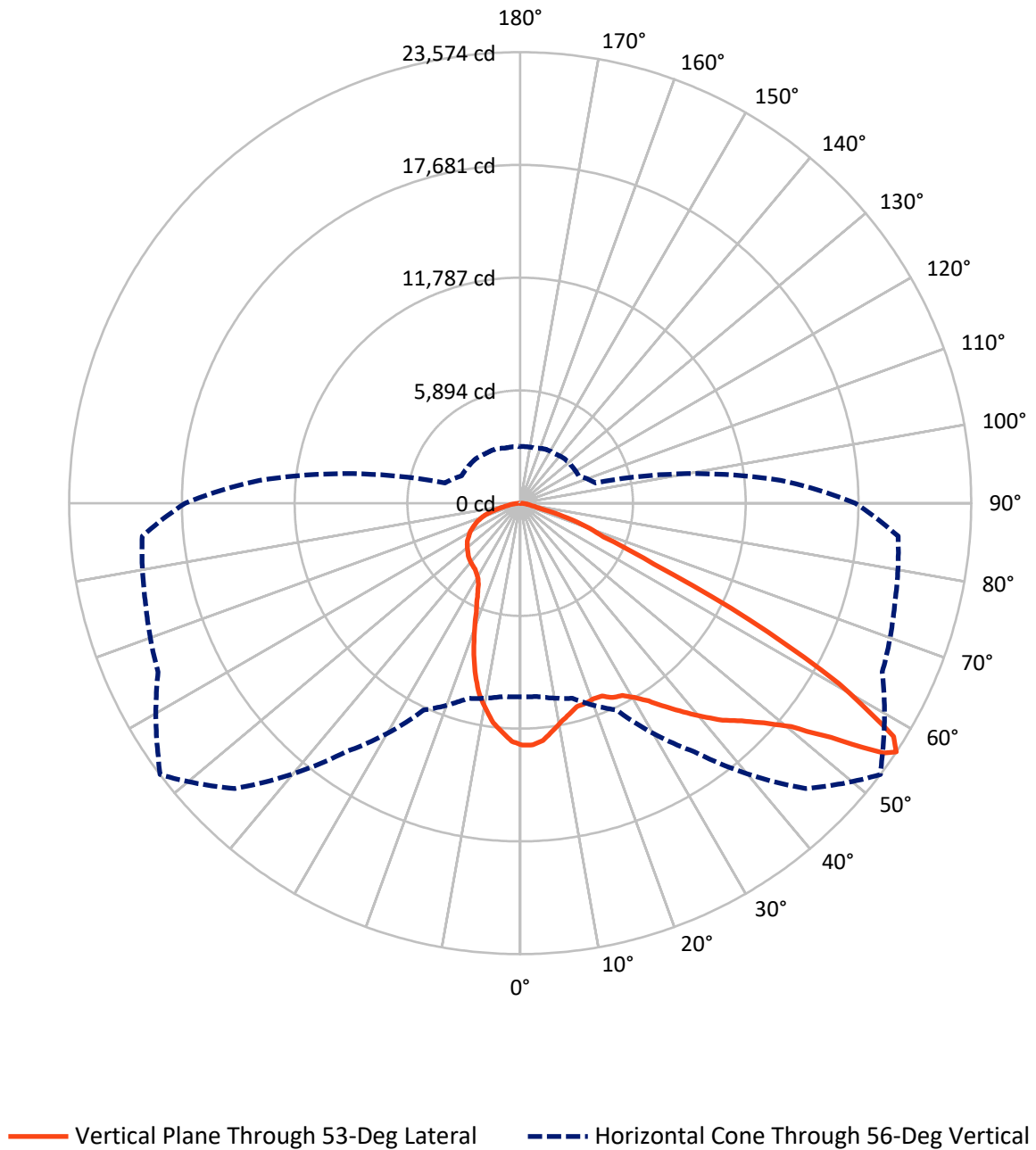


Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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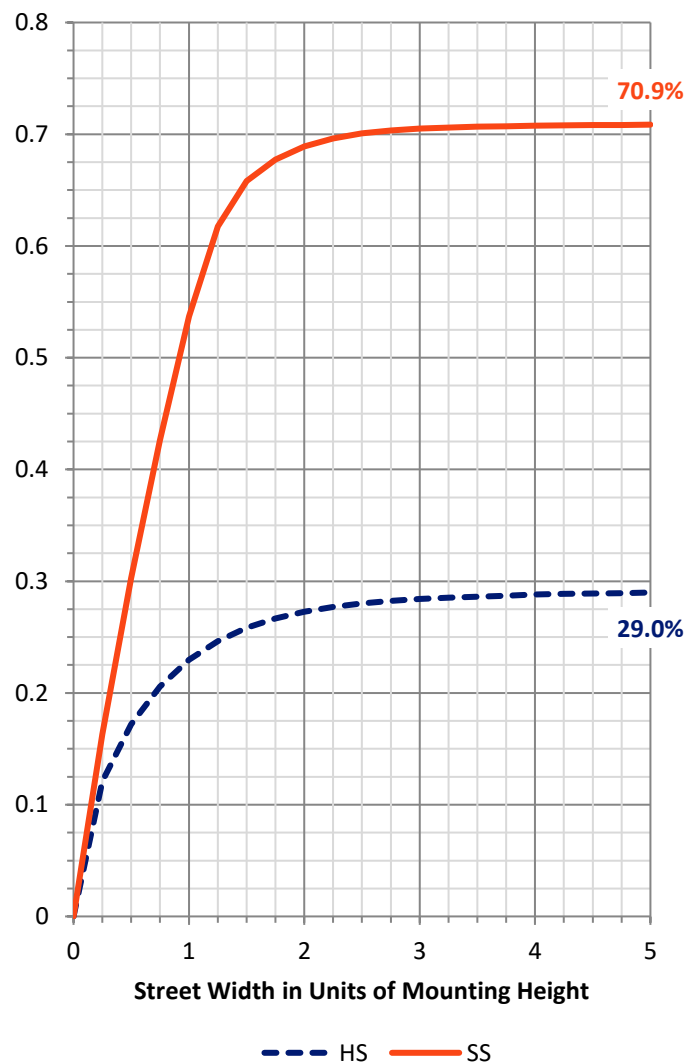
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11158.4	0.0	11158.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	27078.6	0.0	27078.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	38237.0	0.0	38237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1119.9	2.9
10°-20°	2797.1	7.3
20°-30°	4124.5	10.8
30°-40°	5893.1	15.4
40°-50°	8111.1	21.2
50°-60°	9585.1	25.1
60°-70°	5108.2	13.4
70°-80°	1295.9	3.4
80°-90°	202.1	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°	38237.0	100.0
0°-180°	38237.0	100.0

Coefficient of Utilization



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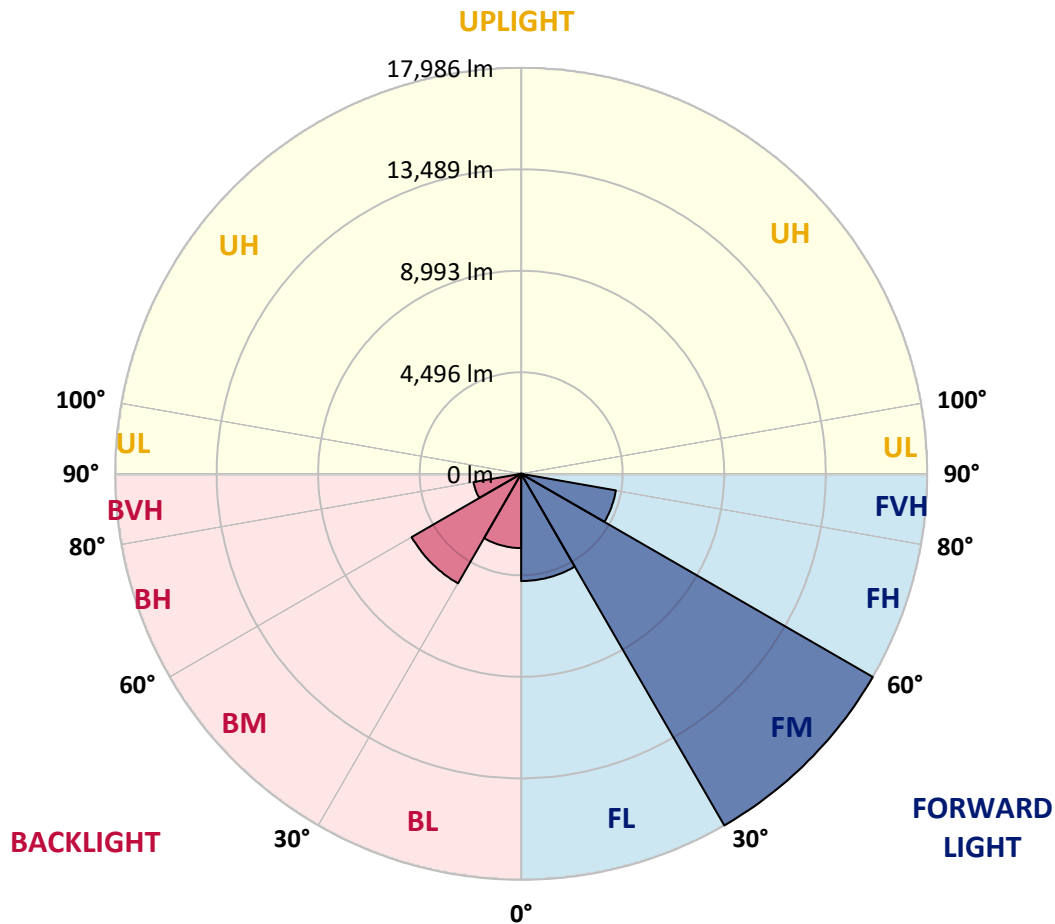
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4750.4	12.4			
FM	(30°-60°)	17985.9	47.0			
FH	(60°-80°)	4261.0	11.1			G2/5000
FVH	(80°-90°)	81.2	0.2			G1/100
BL	(0°-30°)	3291.1	8.6	B4/5000		
BM	(30°-60°)	5603.4	14.7	B4/8500		
BH	(60°-80°)	2143.1	5.6	B3/2500		G3/2500
BVH	(80°-90°)	120.8	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°	53°	55°	65°	75°	85°
0°	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3
2.5°	12493.3	12385.4	12449.2	12424.7	12625.8	12684.6	12655.2	12679.7	12792.6	12738.6	12625.8
5°	11674.2	11826.2	11855.7	11929.3	12047.0	12277.5	12459.0	12508.1	12562.0	12812.2	12787.6
7.5°	10928.6	11031.6	10977.7	11193.5	11448.6	11821.3	12042.1	12081.3	12576.7	12714.1	12817.1
10°	10457.7	10354.7	10600.0	10658.8	10948.2	11375.0	11639.9	11801.7	12253.0	12797.5	12861.2
12.5°	10021.2	9986.8	10134.0	10300.8	10624.5	11066.0	11335.7	11399.5	12096.0	12669.9	12969.1
15°	9697.4	9658.2	9805.3	9928.0	10305.7	10698.1	11041.4	11222.9	11924.3	12596.4	12875.9
17.5°	9442.4	9437.5	9520.8	9741.6	10129.1	10457.7	11012.0	11021.8	11836.1	12709.2	12954.4
20°	9427.6	9422.7	9437.5	9682.7	10035.9	10438.1	10918.8	11007.1	11836.1	12630.7	12959.3
22.5°	9550.3	9471.8	9560.1	9717.0	9972.1	10472.4	10953.1	11149.3	12120.6	13018.2	13180.1
25°	9746.5	9766.1	9815.1	9869.1	10016.3	10550.9	11257.3	11419.1	12454.1	13351.7	13484.2
27.5°	10104.5	10094.7	10114.4	10143.8	10271.3	10624.5	11379.9	11796.8	13150.6	13945.3	13812.8
30°	10629.4	10595.1	10673.5	10776.6	10658.8	10859.9	11787.0	12100.9	13798.1	14543.7	14180.7
32.5°	11105.2	11232.7	11379.9	11424.0	11281.8	11321.0	12326.6	12645.4	14337.7	15279.5	14632.0
35°	11698.7	11801.7	11997.9	12135.3	12110.7	11993.0	13062.3	13484.2	15117.6	15819.0	15107.8
37.5°	12277.5	12400.1	12723.9	13131.0	12905.4	12851.4	13847.2	14195.4	15357.9	16108.4	15456.0
40°	13209.5	13204.6	13763.8	13974.7	14175.8	14082.6	14661.4	14779.1	15485.5	16044.7	15465.8
42.5°	14303.3	14234.7	14803.7	15132.3	15392.3	15402.1	15510.0	15470.8	15544.3	15720.9	15362.8
45°	15343.2	15490.4	16064.3	16652.9	16912.9	16942.3	16226.1	16152.6	15647.3	15627.7	15166.6
47.5°	16613.6	16648.0	17118.9	17893.9	18497.2	18291.2	17153.2	16991.3	16098.6	16250.7	15495.3
50°	16687.2	16942.3	17364.1	18276.5	20130.6	20076.7	18355.0	18050.8	16824.6	17133.6	16412.5
52.5°	15147.0	15088.2	15588.5	17079.6	20008.0	21852.3	20346.4	19620.5	18384.4	18148.9	17898.8
55°	11541.7	11679.1	12120.6	13626.4	17373.9	21876.8	23059.0	22465.5	20052.1	19649.9	19360.5
56°	10124.2	10143.8	10560.7	11934.2	15853.4	21096.9	23574.0	23093.3	20881.1	20268.0	19826.5
57.5°	8392.7	8279.8	8495.7	9246.2	13381.2	19448.8	23009.9	23480.8	21852.3	20935.1	20321.9
60°	6607.2	6582.7	6494.4	6631.7	8456.4	14651.6	19154.5	20214.0	21754.2	20307.2	19463.5
62.5°	5395.6	5273.0	5449.6	5645.8	5876.3	9089.2	13459.7	14082.6	17270.9	16211.4	14622.2
65°	4184.1	4125.2	4345.9	4983.6	5120.9	5773.3	7666.7	8147.4	10197.7	10016.3	8819.4
67.5°	2879.3	2889.1	3080.4	4051.6	4748.2	4689.3	4694.2	4944.4	5322.1	3953.5	3443.4
70°	1824.7	1819.8	1922.8	2609.5	3821.1	3860.3	3664.1	3590.5	3404.2	2060.2	2182.8
72.5°	1172.3	1138.0	1191.9	1442.1	1976.8	2285.8	2354.5	2398.6	1971.9	1618.7	1756.0
75°	662.2	627.9	608.2	672.0	779.9	902.5	990.8	1020.3	1142.9	1226.3	1299.9
77.5°	201.1	181.5	220.7	294.3	387.5	519.9	632.8	652.4	770.1	868.2	941.8
80°	88.3	98.1	137.3	196.2	274.7	367.9	446.4	475.8	554.3	627.9	647.5
82.5°	54.0	58.9	93.2	132.4	191.3	260.0	318.8	328.6	407.1	466.0	480.7
85°	19.6	24.5	49.1	78.5	122.6	166.8	166.8	181.5	166.8	166.8	181.5
87.5°	0.0	0.0	4.9	9.8	9.8	14.7	19.6	19.6	24.5	29.4	34.3
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°	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3	12650.3
2.5°	12684.6	12660.1	12620.9	12478.6	12463.9	12419.8	12174.5	12135.3	12174.5	12056.8	12066.6
5°	12660.1	12733.7	12439.4	12297.1	12032.3	11841.0	11620.2	11507.4	11306.3	11178.8	11321.0
7.5°	12768.0	12738.6	12370.7	12061.7	11664.4	11178.8	10791.3	10570.5	10217.4	10119.3	10192.8
10°	12728.8	12571.8	12140.2	11733.0	10982.6	10555.8	9928.0	9319.7	8986.2	8814.5	8790.0
12.5°	12674.8	12630.7	11909.6	11208.2	10418.5	9520.8	8637.9	8064.0	7519.6	7284.1	7318.4
15°	12738.6	12365.8	11478.0	10590.2	9540.5	8363.2	7411.6	6671.0	6293.3	6141.2	6141.2
17.5°	12709.2	12238.3	11272.0	9898.5	8569.2	7176.2	6131.4	5685.0	5528.1	5528.1	5572.2
20°	12723.9	12321.7	10855.0	9206.9	7421.4	6043.1	5282.8	5120.9	5189.6	5214.1	5238.7
22.5°	12807.3	12047.0	10447.9	8446.6	6357.0	5170.0	4797.2	4802.1	4924.7	5057.2	5032.7
25°	12910.3	11939.1	9952.5	7691.2	5542.8	4743.3	4625.5	4610.8	4704.0	4772.7	4782.5
27.5°	12822.0	11752.7	9447.3	6749.4	4875.7	4458.8	4434.2	4444.0	4473.5	4610.8	4566.7
30°	13111.4	11806.6	8814.5	5959.7	4507.8	4365.6	4336.1	4321.4	4365.6	4404.8	4370.5
32.5°	13469.5	11615.3	8343.6	5199.4	4326.3	4296.9	4238.0	4218.4	4242.9	4203.7	4223.3
35°	13626.4	11581.0	7730.5	4655.0	4184.1	4159.5	4125.2	4120.3	4125.2	4090.9	4061.4
37.5°	13714.7	11742.9	7029.0	4404.8	4095.8	4120.3	4041.8	4032.0	3943.7	3963.3	3978.1
40°	13866.8	11492.7	6460.0	4164.4	4041.8	3992.8	3924.1	3909.4	3850.5	3816.2	3850.5
42.5°	13646.0	11419.1	5900.9	4061.4	3963.3	3909.4	3860.3	3776.9	3757.3	3727.9	3708.3
45°	13469.5	10997.3	5400.5	3933.9	3870.1	3840.7	3747.5	3659.2	3585.6	3615.1	3570.9
47.5°	13601.9	10850.1	4905.1	3826.0	3742.6	3708.3	3615.1	3546.4	3472.8	3438.5	3428.7
50°	14131.7	11124.8	4488.2	3747.5	3634.7	3615.1	3492.4	3414.0	3345.3	3320.8	3330.6
52.5°	15397.2	11875.3	4203.7	3585.6	3531.7	3443.4	3374.7	3276.6	3232.5	3154.0	3203.0
55°	17001.1	13096.7	4130.1	3433.6	3404.2	3325.7	3232.5	3158.9	3075.5	3011.7	2997.0
56°	17516.2	13680.4	4071.3	3374.7	3325.7	3281.5	3158.9	3114.8	2982.3	2967.6	2957.8
57.5°	17933.1	14195.4	4081.1	3261.9	3212.9	3173.6	3100.0	2992.1	2903.8	2849.9	2874.4
60°	16991.3	13288.0	3894.7	3090.2	3080.4	3006.8	2903.8	2854.8	2746.9	2683.1	2668.4
62.5°	12630.7	9020.5	3158.9	2869.5	2864.6	2786.1	2668.4	2614.4	2594.8	2506.5	2506.5
65°	7274.3	5655.6	2732.2	2688.0	2648.8	2570.3	2452.6	2408.4	2359.4	2329.9	2305.4
67.5°	3104.9	2933.3	2482.0	2477.1	2432.9	2334.8	2217.1	2148.4	2084.7	2025.8	2055.2
70°	2251.5	2285.8	2241.6	2217.1	2163.2	2040.5	1937.5	1854.1	1756.0	1716.8	1746.2
72.5°	1785.5	1859.0	1922.8	1927.7	1863.9	1721.7	1608.9	1496.1	1388.1	1334.2	1358.7
75°	1353.8	1402.9	1466.6	1481.3	1388.1	1290.0	1182.1	1064.4	981.0	917.3	927.1
77.5°	976.1	966.3	1025.2	1015.4	971.2	902.5	804.4	696.5	603.3	544.5	549.4
80°	667.1	681.8	716.1	711.2	657.3	613.1	539.6	451.3	382.6	333.5	323.7
82.5°	466.0	490.5	519.9	495.4	451.3	407.1	353.2	289.4	235.4	196.2	186.4
85°	166.8	191.3	220.7	235.4	250.2	240.4	201.1	161.9	117.7	98.1	93.2
87.5°	34.3	39.2	44.1	44.1	44.1	39.2	34.3	34.3	29.4	14.7	14.7
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)