

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: P534186

Luminaire Tested: **GALN-SA9C-830-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534186
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-SA9C-830-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 42927 lumens
Efficiency: N/A
Efficacy: 89.2 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



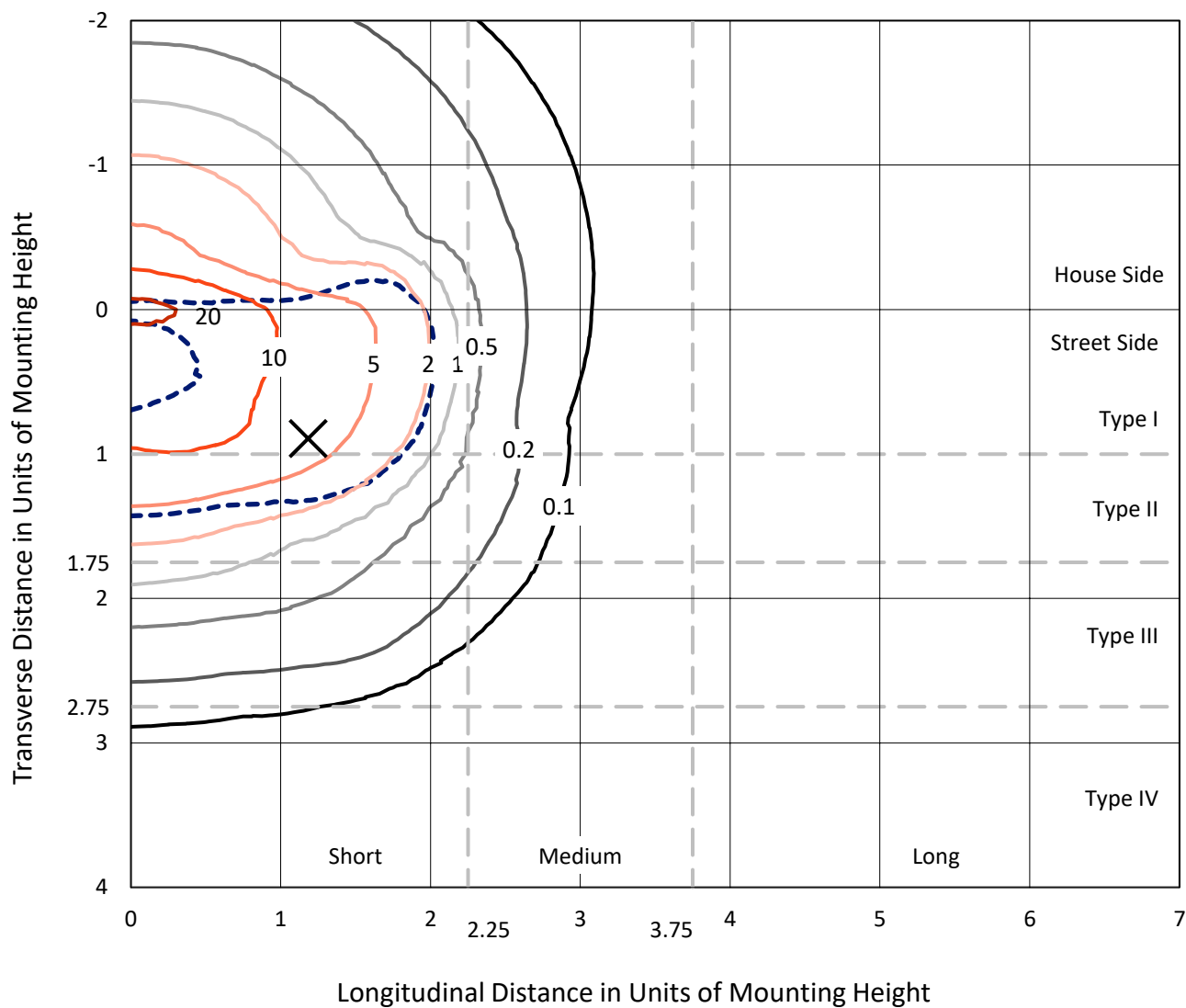
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

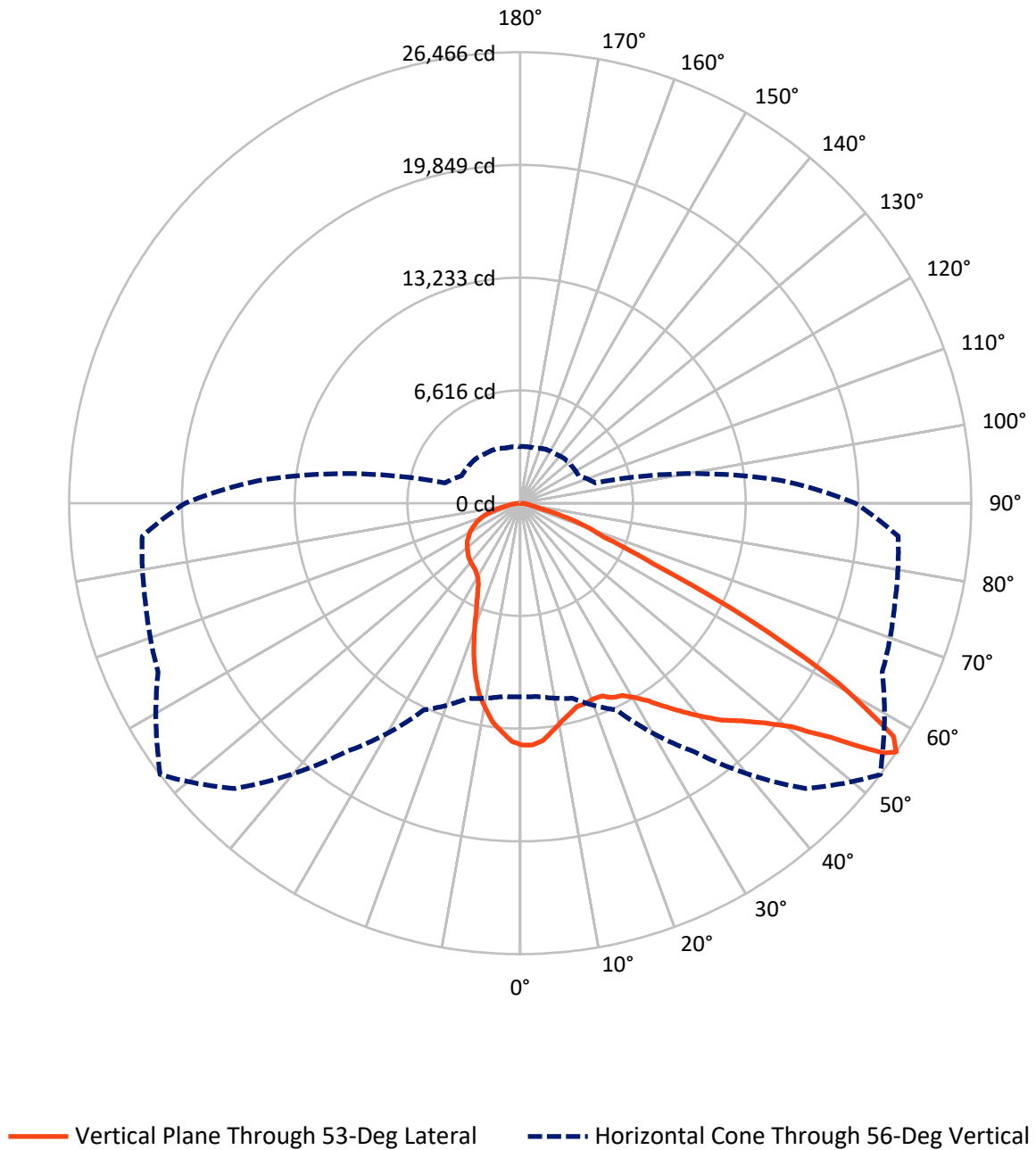


Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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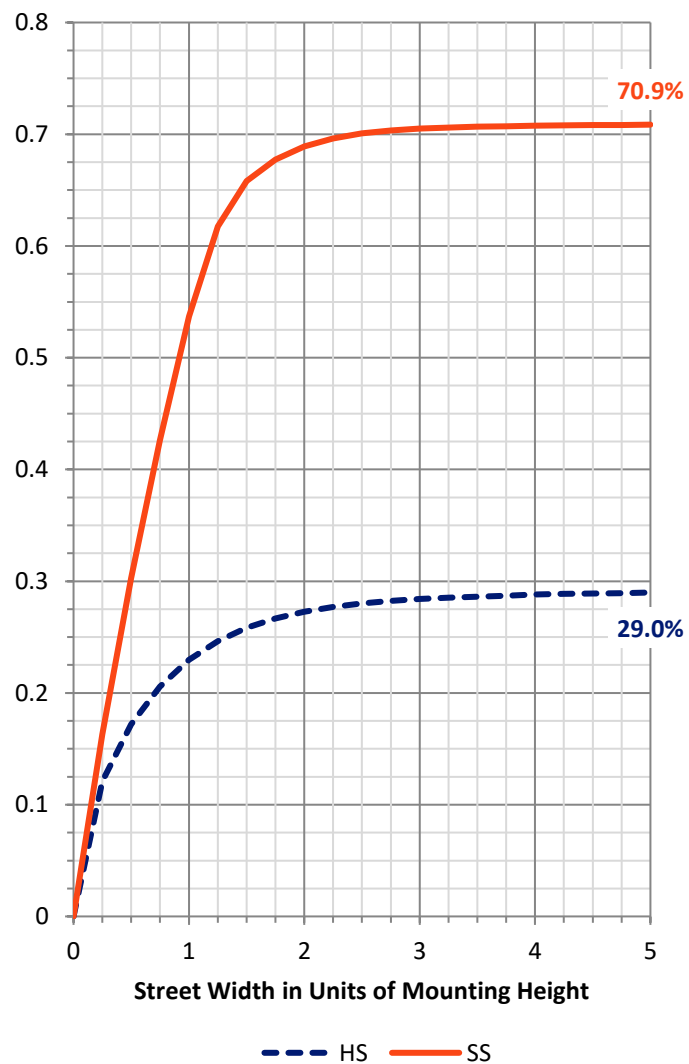
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12527.0	0.0	12527.0
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	30400.0	0.0	30400.0
	% Fixture	70.8	0.0	70.8
Total	Lumens	42927.0	0.0	42927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1257.3	2.9
10°-20°	3140.1	7.3
20°-30°	4630.4	10.8
30°-40°	6615.9	15.4
40°-50°	9105.9	21.2
50°-60°	10760.8	25.1
60°-70°	5734.8	13.4
70°-80°	1454.9	3.4
80°-90°	226.9	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°	42927.0	100.0
0°-180°	42927.0	100.0

Coefficient of Utilization



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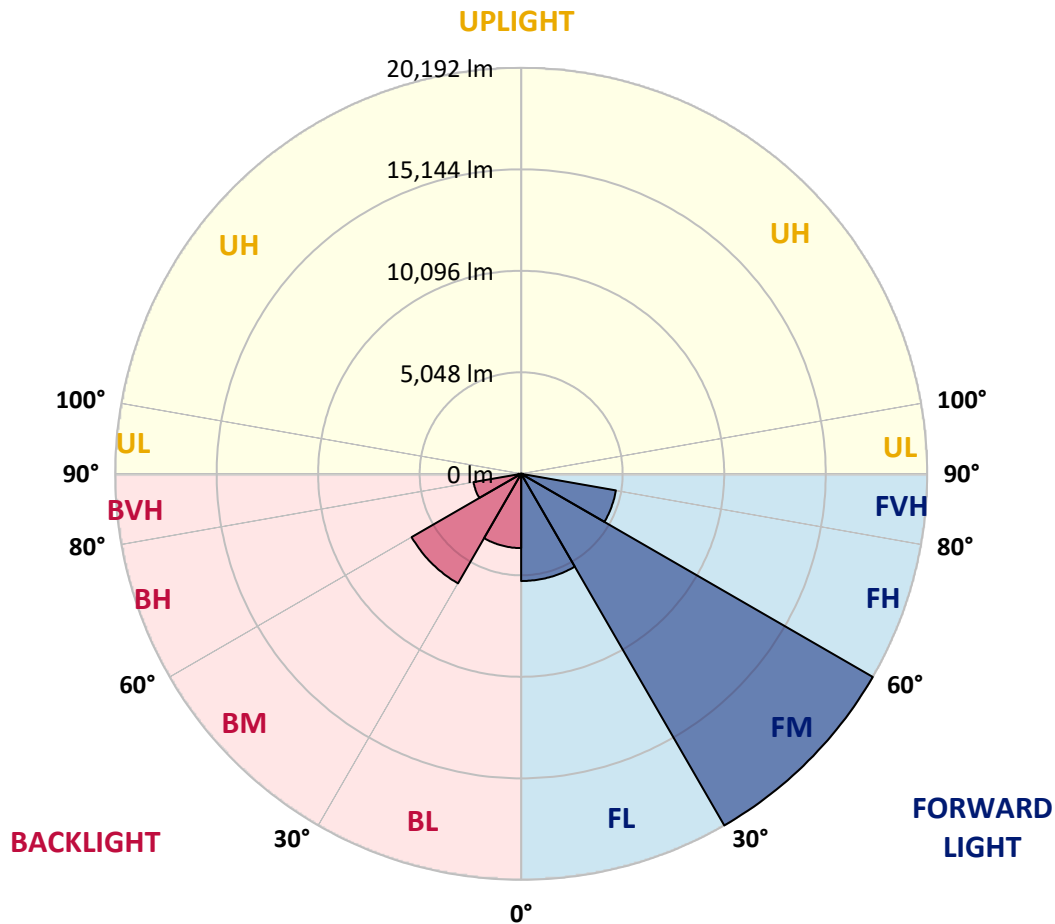
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5333.1	12.4			
FM	(30°-60°)	20192.0	47.0			
FH	(60°-80°)	4783.7	11.1			G2/5000
FVH	(80°-90°)	91.2	0.2			G1/100
BL	(0°-30°)	3694.7	8.6	B4/5000		
BM	(30°-60°)	6290.7	14.7	B4/8500		
BH	(60°-80°)	2406.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	135.7	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°	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9
2.5°	14025.7	13904.6	13976.2	13948.6	14174.4	14240.5	14207.5	14235.0	14361.6	14301.1	14174.4
5°	13106.1	13276.8	13309.8	13392.4	13524.6	13783.4	13987.2	14042.2	14102.8	14383.7	14356.1
7.5°	12269.1	12384.7	12324.1	12566.4	12852.8	13271.3	13519.1	13563.2	14119.3	14273.5	14389.2
10°	11740.4	11624.8	11900.1	11966.2	12291.1	12770.2	13067.6	13249.3	13755.9	14367.1	14438.7
12.5°	11250.3	11211.8	11377.0	11564.2	11927.7	12423.3	12726.1	12797.7	13579.7	14224.0	14559.9
15°	10886.9	10842.8	11008.0	11145.7	11569.7	12010.3	12395.7	12599.5	13386.9	14141.4	14455.3
17.5°	10600.5	10595.0	10688.6	10936.4	11371.5	11740.4	12362.7	12373.7	13287.8	14268.0	14543.4
20°	10584.0	10578.5	10595.0	10870.4	11266.8	11718.4	12258.1	12357.2	13287.8	14179.9	14548.9
22.5°	10721.7	10633.6	10732.7	10908.9	11195.3	11756.9	12296.6	12516.9	13607.2	14615.0	14796.7
25°	10941.9	10964.0	11019.0	11079.6	11244.8	11845.0	12638.0	12819.7	13981.7	14989.4	15138.1
27.5°	11343.9	11332.9	11354.9	11388.0	11531.2	11927.7	12775.7	13243.8	14763.6	15655.7	15507.0
30°	11933.2	11894.6	11982.7	12098.4	11966.2	12192.0	13232.8	13585.2	15490.5	16327.6	15920.1
32.5°	12467.3	12610.5	12775.7	12825.3	12665.6	12709.6	13838.5	14196.4	16096.3	17153.6	16426.7
35°	13133.6	13249.3	13469.5	13623.7	13596.2	13464.0	14664.5	15138.1	16971.8	17759.3	16960.8
37.5°	13783.4	13921.1	14284.5	14741.6	14488.3	14427.7	15545.6	15936.6	17241.7	18084.2	17351.8
40°	14829.7	14824.2	15452.0	15688.8	15914.5	15809.9	16459.7	16591.9	17384.9	18012.6	17362.8
42.5°	16057.7	15980.6	16619.4	16988.4	17280.2	17291.2	17412.4	17368.3	17450.9	17649.2	17247.2
45°	17225.2	17390.4	18034.7	18695.5	18987.3	19020.4	18216.4	18133.8	17566.6	17544.5	17026.9
47.5°	18651.4	18690.0	19218.6	20088.7	20766.0	20534.7	19257.2	19075.4	18073.2	18243.9	17395.9
50°	18734.0	19020.4	19493.9	20518.2	22599.8	22539.2	20606.3	20264.9	18888.2	19235.1	18425.6
52.5°	17004.9	16938.8	17500.5	19174.6	22462.1	24532.6	22842.1	22027.1	20639.4	20375.0	20094.2
55°	12957.4	13111.6	13607.2	15297.8	19505.0	24560.2	25887.3	25221.0	22511.6	22060.1	21735.2
56°	11366.0	11388.0	11856.1	13398.0	17797.9	23684.6	26465.5	25925.8	23442.3	22753.9	22258.3
57.5°	9422.1	9295.4	9537.7	10380.2	15022.5	21834.3	25832.2	26360.9	24532.6	23502.9	22814.5
60°	7417.6	7390.1	7291.0	7445.1	9493.7	16448.7	21503.9	22693.4	24422.5	22798.0	21850.8
62.5°	6057.4	5919.8	6118.0	6338.3	6597.1	10204.0	15110.6	15809.9	19389.3	18199.9	16415.7
65°	4697.3	4631.2	4879.0	5594.9	5749.1	6481.5	8607.1	9146.7	11448.6	11244.8	9901.2
67.5°	3232.5	3243.5	3458.2	4548.6	5330.5	5264.5	5270.0	5550.8	5974.8	4438.5	3865.7
70°	2048.5	2043.0	2158.7	2929.6	4289.8	4333.8	4113.6	4031.0	3821.7	2312.8	2450.5
72.5°	1316.1	1277.6	1338.1	1619.0	2219.2	2566.2	2643.2	2692.8	2213.7	1817.2	1971.4
75°	743.4	704.9	682.8	754.4	875.6	1013.2	1112.4	1145.4	1283.1	1376.7	1459.3
77.5°	225.8	203.8	247.8	330.4	435.0	583.7	710.4	732.4	864.6	974.7	1057.3
80°	99.1	110.1	154.2	220.3	308.4	413.0	501.1	534.2	622.3	704.9	726.9
82.5°	60.6	66.1	104.6	148.7	214.8	291.9	357.9	369.0	457.1	523.1	539.7
85°	22.0	27.5	55.1	88.1	137.7	187.2	187.2	203.8	187.2	187.2	203.8
87.5°	0.0	0.0	5.5	11.0	11.0	16.5	22.0	22.0	27.5	33.0	38.5
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°	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9	14201.9
2.5°	14240.5	14213.0	14168.9	14009.2	13992.7	13943.1	13667.8	13623.7	13667.8	13535.6	13546.6
5°	14213.0	14295.6	13965.2	13805.5	13508.1	13293.3	13045.5	12918.9	12693.1	12549.9	12709.6
7.5°	14334.1	14301.1	13888.1	13541.1	13095.1	12549.9	12114.9	11867.1	11470.6	11360.5	11443.1
10°	14290.1	14113.8	13629.2	13172.2	12329.6	11850.6	11145.7	10462.9	10088.4	9895.7	9868.1
12.5°	14229.5	14179.9	13370.4	12583.0	11696.4	10688.6	9697.4	9053.1	8441.9	8177.5	8216.1
15°	14301.1	13882.6	12885.8	11889.1	10710.7	9389.0	8320.7	7489.2	7065.2	6894.5	6894.5
17.5°	14268.0	13739.4	12654.5	11112.6	9620.3	8056.4	6883.5	6382.3	6206.1	6206.1	6255.7
20°	14284.5	13833.0	12186.5	10336.2	8331.7	6784.3	5930.8	5749.1	5826.2	5853.7	5881.2
22.5°	14378.2	13524.6	11729.4	9482.6	7136.8	5804.1	5385.6	5391.1	5528.8	5677.5	5649.9
25°	14493.8	13403.5	11173.2	8634.6	6222.6	5325.0	5192.9	5176.4	5281.0	5358.1	5369.1
27.5°	14394.7	13194.2	10606.0	7577.3	5473.7	5005.6	4978.1	4989.1	5022.2	5176.4	5126.8
30°	14719.6	13254.8	9895.7	6690.7	5060.7	4901.0	4868.0	4851.5	4901.0	4945.1	4906.5
32.5°	15121.6	13040.0	9367.0	5837.2	4857.0	4823.9	4757.8	4735.8	4763.4	4719.3	4741.3
35°	15297.8	13001.5	8678.7	5225.9	4697.3	4669.7	4631.2	4625.7	4631.2	4592.6	4559.6
37.5°	15396.9	13183.2	7891.2	4945.1	4598.1	4625.7	4537.6	4526.6	4427.4	4449.5	4466.0
40°	15567.6	12902.3	7252.4	4675.2	4537.6	4482.5	4405.4	4388.9	4322.8	4284.3	4322.8
42.5°	15319.8	12819.7	6624.6	4559.6	4449.5	4388.9	4333.8	4240.2	4218.2	4185.1	4163.1
45°	15121.6	12346.2	6062.9	4416.4	4344.8	4311.8	4207.2	4108.0	4025.4	4058.5	4008.9
47.5°	15270.3	12181.0	5506.8	4295.3	4201.7	4163.1	4058.5	3981.4	3898.8	3860.2	3849.2
50°	15865.0	12489.3	5038.7	4207.2	4080.5	4058.5	3920.8	3832.7	3755.6	3728.1	3739.1
52.5°	17285.7	13331.9	4719.3	4025.4	3964.9	3865.7	3788.7	3678.5	3629.0	3540.8	3595.9
55°	19086.4	14703.1	4636.7	3854.7	3821.7	3733.6	3629.0	3546.4	3452.7	3381.2	3364.6
56°	19664.7	15358.4	4570.6	3788.7	3733.6	3684.0	3546.4	3496.8	3348.1	3331.6	3320.6
57.5°	20132.7	15936.6	4581.6	3662.0	3606.9	3562.9	3480.3	3359.1	3260.0	3199.4	3227.0
60°	19075.4	14917.8	4372.4	3469.3	3458.2	3375.6	3260.0	3204.9	3083.8	3012.2	2995.7
62.5°	14179.9	10126.9	3546.4	3221.5	3215.9	3127.8	2995.7	2935.1	2913.1	2814.0	2814.0
65°	8166.5	6349.3	3067.3	3017.7	2973.7	2885.5	2753.4	2703.8	2648.8	2615.7	2588.2
67.5°	3485.8	3293.0	2786.4	2780.9	2731.4	2621.2	2489.1	2412.0	2340.4	2274.3	2307.3
70°	2527.6	2566.2	2516.6	2489.1	2428.5	2290.8	2175.2	2081.6	1971.4	1927.4	1960.4
72.5°	2004.5	2087.1	2158.7	2164.2	2092.6	1932.9	1806.2	1679.6	1558.4	1497.8	1525.4
75°	1519.9	1574.9	1646.5	1663.0	1558.4	1448.3	1327.1	1195.0	1101.4	1029.8	1040.8
77.5°	1095.8	1084.8	1150.9	1139.9	1090.3	1013.2	903.1	782.0	677.3	611.3	616.8
80°	748.9	765.4	804.0	798.5	737.9	688.3	605.7	506.6	429.5	374.5	363.4
82.5°	523.1	550.7	583.7	556.2	506.6	457.1	396.5	324.9	264.3	220.3	209.3
85°	187.2	214.8	247.8	264.3	280.8	269.8	225.8	181.7	132.2	110.1	104.6
87.5°	38.5	44.1	49.6	49.6	49.6	44.1	38.5	38.5	33.0	16.5	16.5
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)