

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: P529271

Luminaire Tested: **GALN-SA4B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10441 lumens
Efficiency: N/A
Efficacy: 63.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 164
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



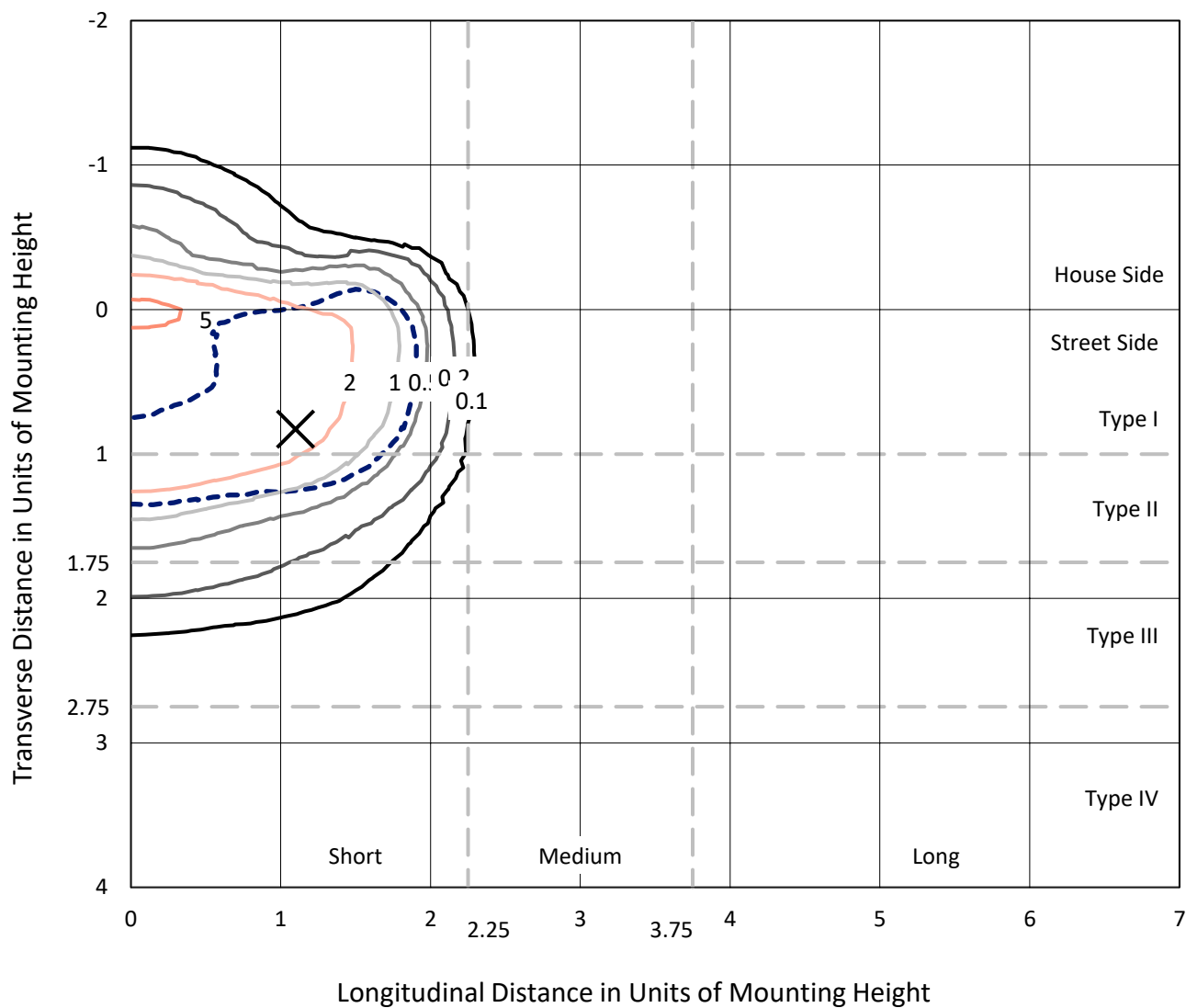
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

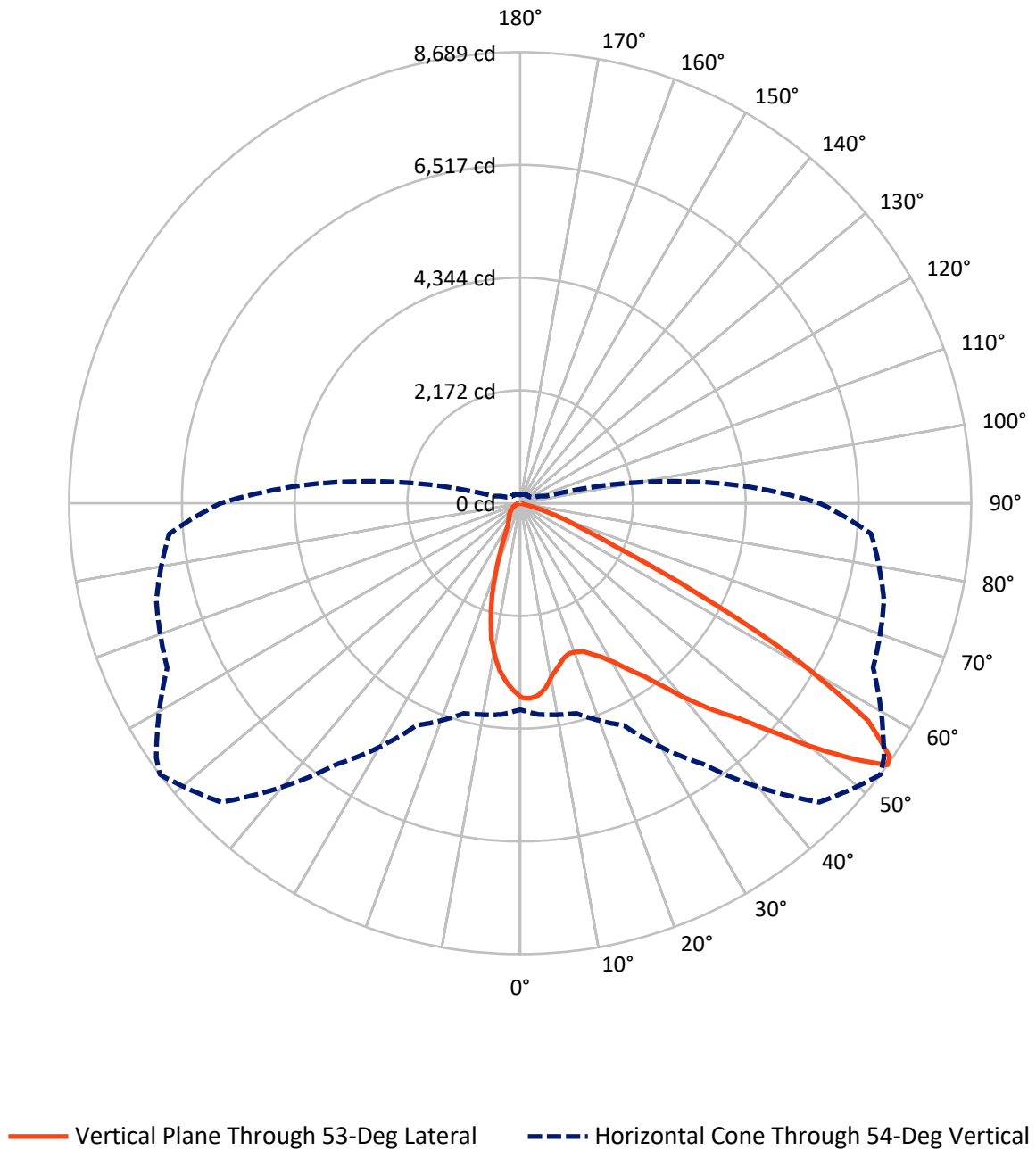


Based on 25 foot mounting height. Maximum calculated value = 6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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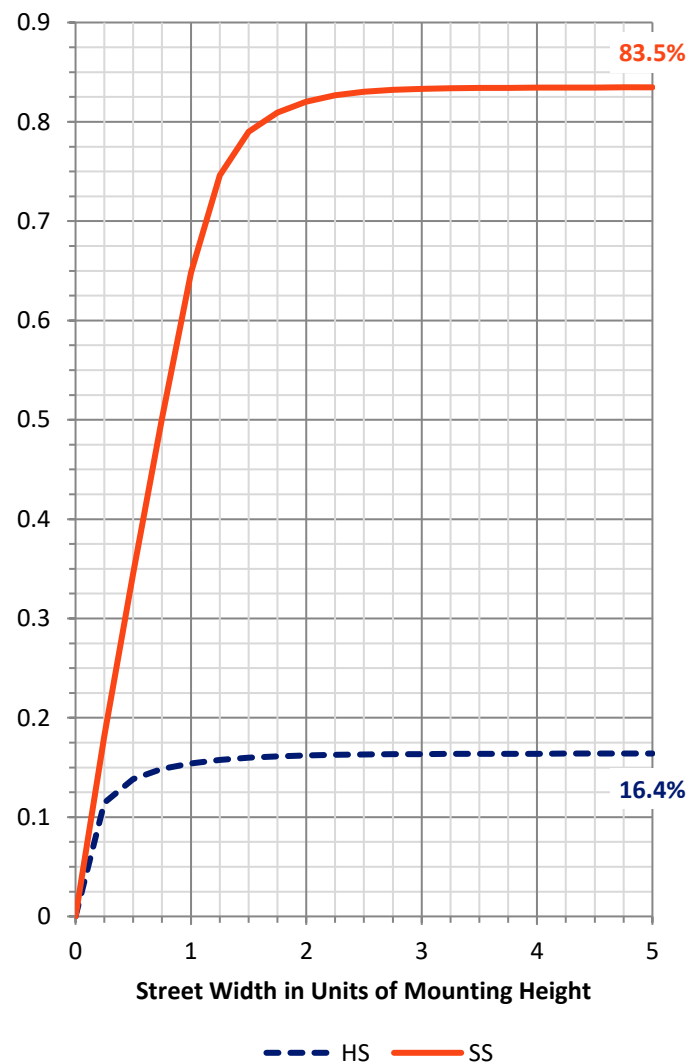
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1727.5	0.0	1727.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8713.5	0.0	8713.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	10441.0	0.0	10441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	3.1
10°-20°	737.7	7.1
20°-30°	1048.4	10.0
30°-40°	1618.0	15.5
40°-50°	2536.9	24.3
50°-60°	2946.9	28.2
60°-70°	1113.5	10.7
70°-80°	105.9	1.0
80°-90°	11.9	0.1
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°	10441.0	100.0
0°-180°	10441.0	100.0

Coefficient of Utilization



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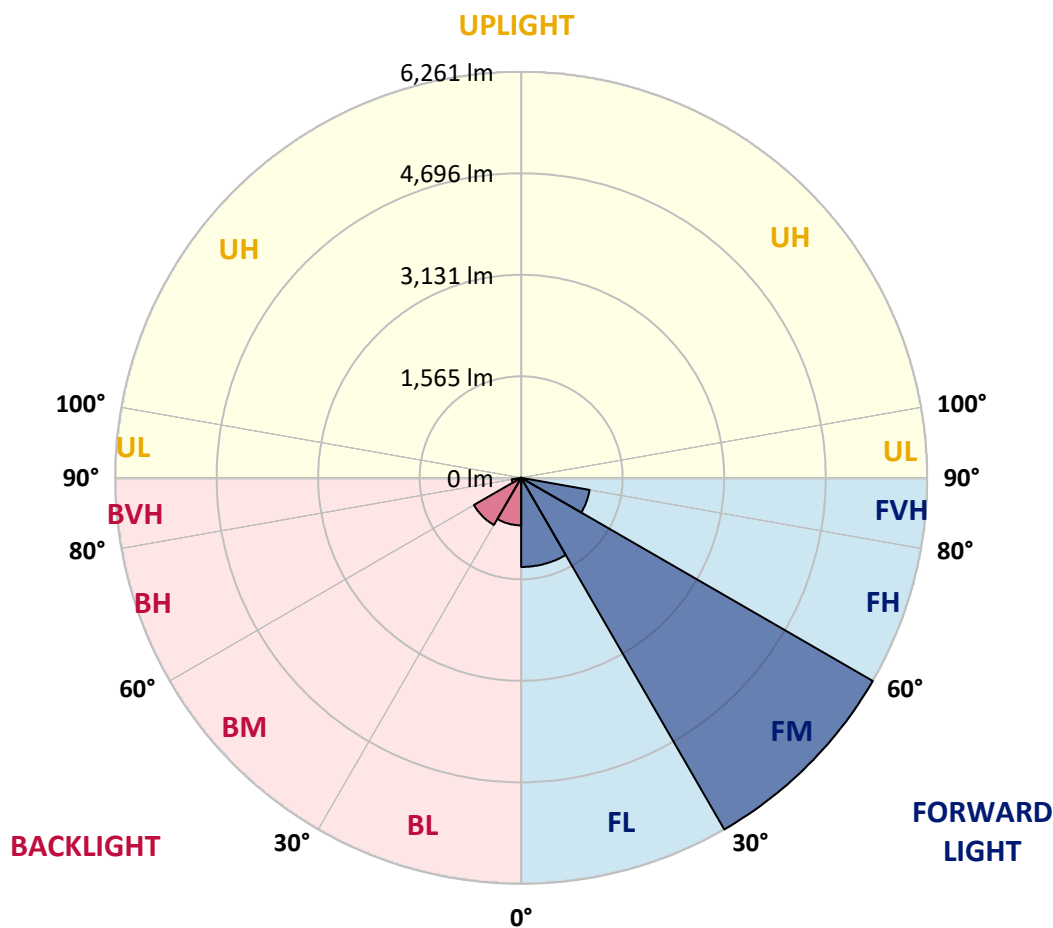
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1374.8	13.2			
FM	(30°-60°)	6261.1	60.0			
FH	(60°-80°)	1071.4	10.3			G1/1800
FVH	(80°-90°)	6.2	0.1			G0/10
BL	(0°-30°)	733.1	7.0	B2/1000		
BM	(30°-60°)	840.6	8.1	B1/1000		
BH	(60°-80°)	148.0	1.4	B1/500		G1/500
BVH	(80°-90°)	5.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2
2.5°	3730.8	3697.7	3730.8	3734.7	3758.0	3779.4	3765.8	3796.9	3779.4	3760.0	3754.1
5°	3429.3	3474.0	3476.0	3546.0	3530.4	3658.8	3715.2	3699.7	3795.0	3789.1	3775.5
7.5°	3158.9	3141.4	3164.7	3246.4	3349.5	3497.4	3579.1	3577.1	3713.3	3810.5	3800.8
10°	2908.0	2906.0	2954.7	3018.9	3106.4	3262.0	3374.8	3431.2	3643.2	3791.1	3812.5
12.5°	2738.8	2731.0	2783.5	2836.0	2974.1	3094.7	3238.7	3265.9	3509.0	3723.0	3758.0
15°	2627.9	2645.4	2649.3	2750.4	2838.0	2997.5	3110.3	3166.7	3446.8	3668.5	3802.7
17.5°	2608.4	2631.8	2633.7	2717.4	2810.7	2944.9	3044.1	3120.0	3394.3	3695.8	3804.7
20°	2647.3	2633.7	2645.4	2697.9	2789.3	2917.7	3061.7	3086.9	3376.8	3709.4	3826.1
22.5°	2758.2	2754.3	2725.1	2767.9	2832.1	2966.3	3102.5	3141.4	3427.3	3779.4	3843.6
25°	2880.8	2902.1	2874.9	2869.1	2913.8	3046.1	3227.0	3277.6	3596.6	3905.8	3898.1
27.5°	3110.3	3088.9	3088.9	3061.7	3050.0	3114.2	3361.2	3444.8	3785.2	4069.2	3960.3
30°	3330.1	3353.4	3335.9	3345.6	3267.8	3262.0	3551.8	3654.9	4119.8	4318.2	4092.6
32.5°	3678.3	3647.1	3676.3	3651.0	3547.9	3442.9	3810.5	3917.5	4524.4	4604.1	4291.0
35°	3968.1	3954.5	4079.0	4075.1	3907.8	3804.7	4084.8	4244.3	4806.4	4946.5	4524.4
37.5°	4380.5	4355.2	4497.2	4565.2	4415.5	4261.8	4477.7	4662.5	5069.0	5220.8	4763.6
40°	4804.5	4868.7	5059.3	5172.1	5012.6	4808.4	4958.2	5014.6	5244.1	5399.7	4927.0
42.5°	5341.4	5434.7	5629.2	5726.5	5712.9	5491.1	5446.4	5444.4	5370.5	5349.1	5047.6
45°	5856.8	5821.8	6121.4	6333.4	6504.6	6440.4	5917.1	5858.8	5570.9	5425.0	5078.8
47.5°	6082.5	6070.8	6275.0	6652.4	7235.9	7315.7	6601.8	6376.2	5909.3	5744.0	5248.0
50°	5790.7	5851.0	6053.3	6471.5	7366.2	7975.1	7442.1	7138.7	6304.2	6133.0	5648.7
52.5°	4837.6	4878.4	5071.0	5602.0	6922.8	8364.1	8247.4	8072.3	7029.7	6745.7	6347.0
54°	3977.8	4086.7	4191.8	4724.7	6133.0	8148.2	8688.9	8554.7	7502.4	7255.4	6786.6
55°	3464.3	3528.5	3604.3	4135.4	5586.4	7782.5	8638.4	8650.0	7819.5	7414.9	7082.3
57.5°	2530.6	2575.4	2497.6	2732.9	3835.8	6319.8	7901.2	8216.3	8247.4	7654.1	7263.2
60°	1933.5	1952.9	1865.4	1902.3	2384.7	4337.7	6111.6	6490.9	7440.2	6689.3	6152.5
62.5°	1499.7	1503.6	1501.6	1565.8	1643.6	2552.0	3822.2	4158.7	5129.3	4750.0	4178.2
65°	1104.8	1087.3	1118.5	1313.0	1402.4	1604.7	2013.2	2258.3	2787.4	2353.6	1682.5
67.5°	715.8	721.6	752.8	976.5	1202.1	1231.3	1239.1	1219.6	1221.5	673.0	422.1
70°	429.9	439.6	429.9	552.4	859.8	883.1	807.2	787.8	614.7	159.5	157.6
72.5°	254.8	241.2	215.9	237.3	357.9	427.9	385.1	383.2	241.2	93.4	93.4
75°	107.0	97.3	79.8	72.0	95.3	91.4	91.4	81.7	64.2	62.2	58.4
77.5°	21.4	21.4	15.6	17.5	23.3	27.2	33.1	33.1	38.9	38.9	37.0
80°	0.0	1.9	5.8	11.7	17.5	25.3	29.2	29.2	33.1	33.1	27.2
82.5°	0.0	1.9	5.8	11.7	15.6	23.3	29.2	29.2	33.1	35.0	29.2
85°	0.0	1.9	5.8	9.7	15.6	19.5	19.5	17.5	13.6	11.7	7.8
87.5°	0.0	0.0	1.9	3.9	1.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2	3750.2
2.5°	3767.7	3765.8	3719.1	3643.2	3625.7	3561.6	3553.8	3514.9	3536.3	3464.3	3456.5
5°	3736.6	3713.3	3656.9	3608.2	3466.2	3365.1	3285.3	3188.1	3131.7	3141.4	3104.4
7.5°	3781.4	3721.1	3621.9	3452.6	3279.5	3102.5	3007.2	2808.8	2736.8	2629.8	2614.3
10°	3734.7	3689.9	3536.3	3256.2	3016.9	2762.1	2538.4	2318.6	2151.3	2079.4	2063.8
12.5°	3730.8	3653.0	3396.2	3085.0	2738.8	2373.1	2048.2	1774.0	1608.6	1515.3	1493.9
15°	3670.5	3577.1	3238.7	2820.5	2341.9	1886.8	1532.8	1268.2	1141.8	1087.3	1102.9
17.5°	3676.3	3536.3	3081.1	2540.4	1951.0	1384.9	1046.5	910.3	877.3	890.9	890.9
20°	3670.5	3444.8	2890.5	2217.5	1493.9	960.9	768.3	719.7	741.1	783.9	774.2
22.5°	3639.4	3402.1	2715.4	1877.1	1099.0	711.9	616.6	618.6	651.6	704.1	715.8
25°	3662.7	3306.7	2493.7	1532.8	801.4	568.0	534.9	548.5	583.5	622.4	630.2
27.5°	3645.2	3238.7	2262.2	1190.4	585.5	488.2	486.3	501.8	517.4	546.6	546.6
30°	3664.6	3176.4	2034.6	885.0	482.4	447.4	439.6	451.3	466.8	472.7	470.7
32.5°	3736.6	3129.7	1772.0	661.3	426.0	408.5	408.5	408.5	406.5	414.3	416.3
35°	3894.2	3137.5	1540.6	511.6	389.0	375.4	369.6	361.8	357.9	361.8	363.7
37.5°	4065.3	3133.6	1301.3	435.7	361.8	350.1	336.5	324.8	322.9	326.8	320.9
40°	4141.2	3170.6	1079.6	391.0	336.5	322.9	301.5	291.8	293.7	297.6	293.7
42.5°	4244.3	3182.3	935.6	356.0	313.2	291.8	278.2	266.5	264.5	270.4	268.4
45°	4242.4	3116.1	783.9	336.5	291.8	268.4	250.9	241.2	241.2	245.1	247.0
47.5°	4366.8	3106.4	673.0	319.0	276.2	252.9	231.5	223.7	221.7	221.7	217.9
50°	4656.7	3242.5	587.4	299.6	256.8	235.4	217.9	208.1	200.3	196.5	194.5
52.5°	5222.7	3666.6	521.3	276.2	235.4	217.9	202.3	194.5	184.8	175.1	173.1
54°	5771.2	4104.2	517.4	256.8	217.9	206.2	192.6	188.7	177.0	163.4	159.5
55°	6018.3	4359.1	531.0	241.2	206.2	198.4	186.7	182.8	171.2	155.6	153.7
57.5°	6222.5	4458.3	523.2	200.3	186.7	184.8	175.1	169.2	155.6	134.2	130.3
60°	5008.7	3370.9	375.4	177.0	171.2	167.3	159.5	155.6	138.1	114.8	112.8
62.5°	3164.7	1939.3	239.3	155.6	149.8	143.9	134.2	130.3	114.8	91.4	85.6
65°	1348.0	803.3	161.4	138.1	128.4	118.7	110.9	105.0	91.4	68.1	66.1
67.5°	350.1	285.9	134.2	120.6	107.0	93.4	87.5	77.8	62.2	46.7	44.7
70°	157.6	143.9	112.8	101.1	85.6	72.0	64.2	54.5	40.8	31.1	29.2
72.5°	93.4	91.4	85.6	75.9	64.2	54.5	46.7	37.0	27.2	17.5	17.5
75°	58.4	56.4	58.4	52.5	44.7	40.8	35.0	25.3	15.6	7.8	7.8
77.5°	35.0	35.0	35.0	33.1	31.1	31.1	25.3	15.6	7.8	1.9	1.9
80°	27.2	27.2	29.2	27.2	27.2	27.2	21.4	11.7	3.9	0.0	0.0
82.5°	27.2	29.2	33.1	31.1	27.2	23.3	19.5	11.7	3.9	0.0	0.0
85°	7.8	5.8	9.7	13.6	19.5	17.5	13.6	9.7	3.9	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	1.9	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)