

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: P456518

Luminaire Tested: **GALN-SA7D-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456518
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44098 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

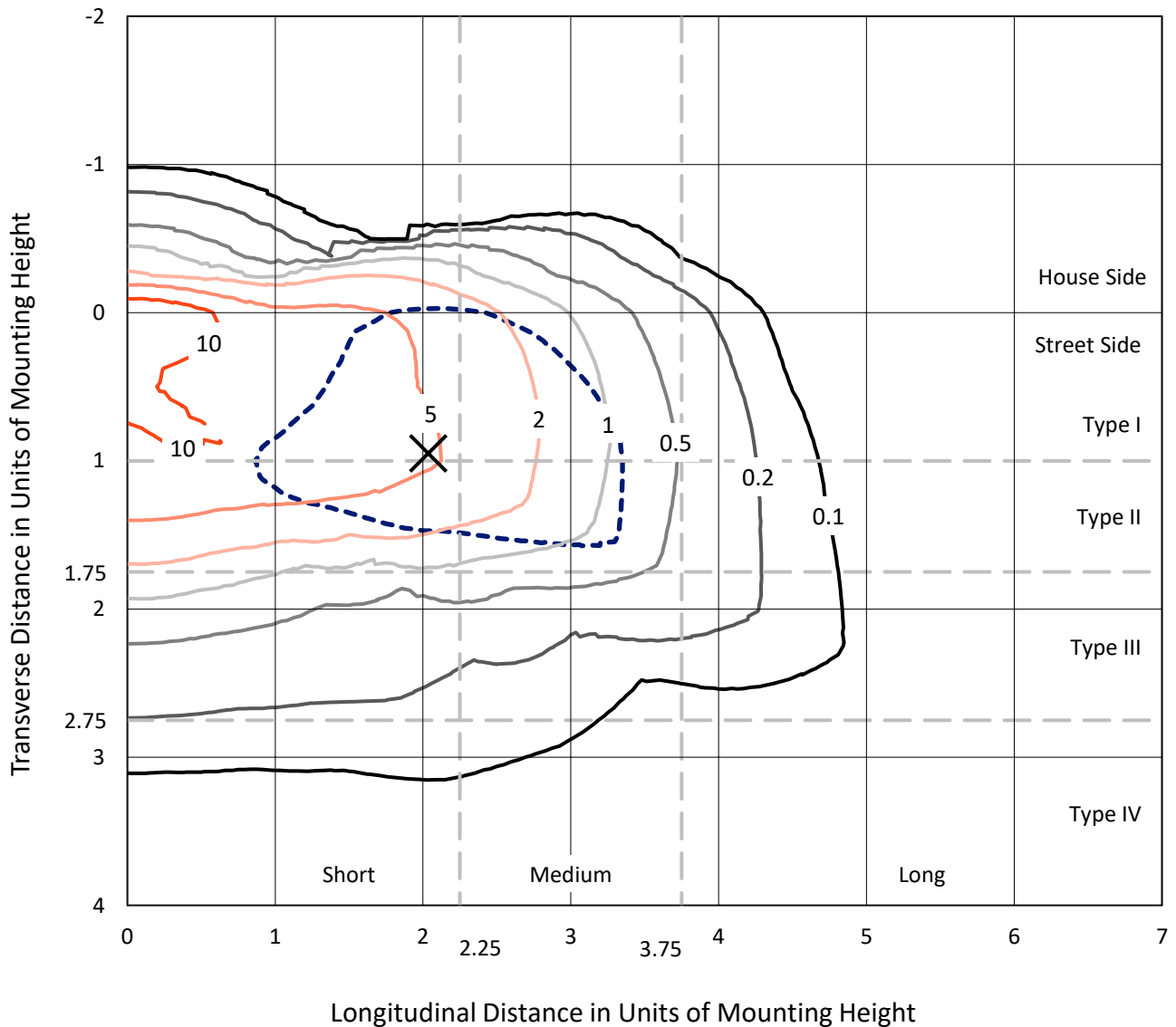
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

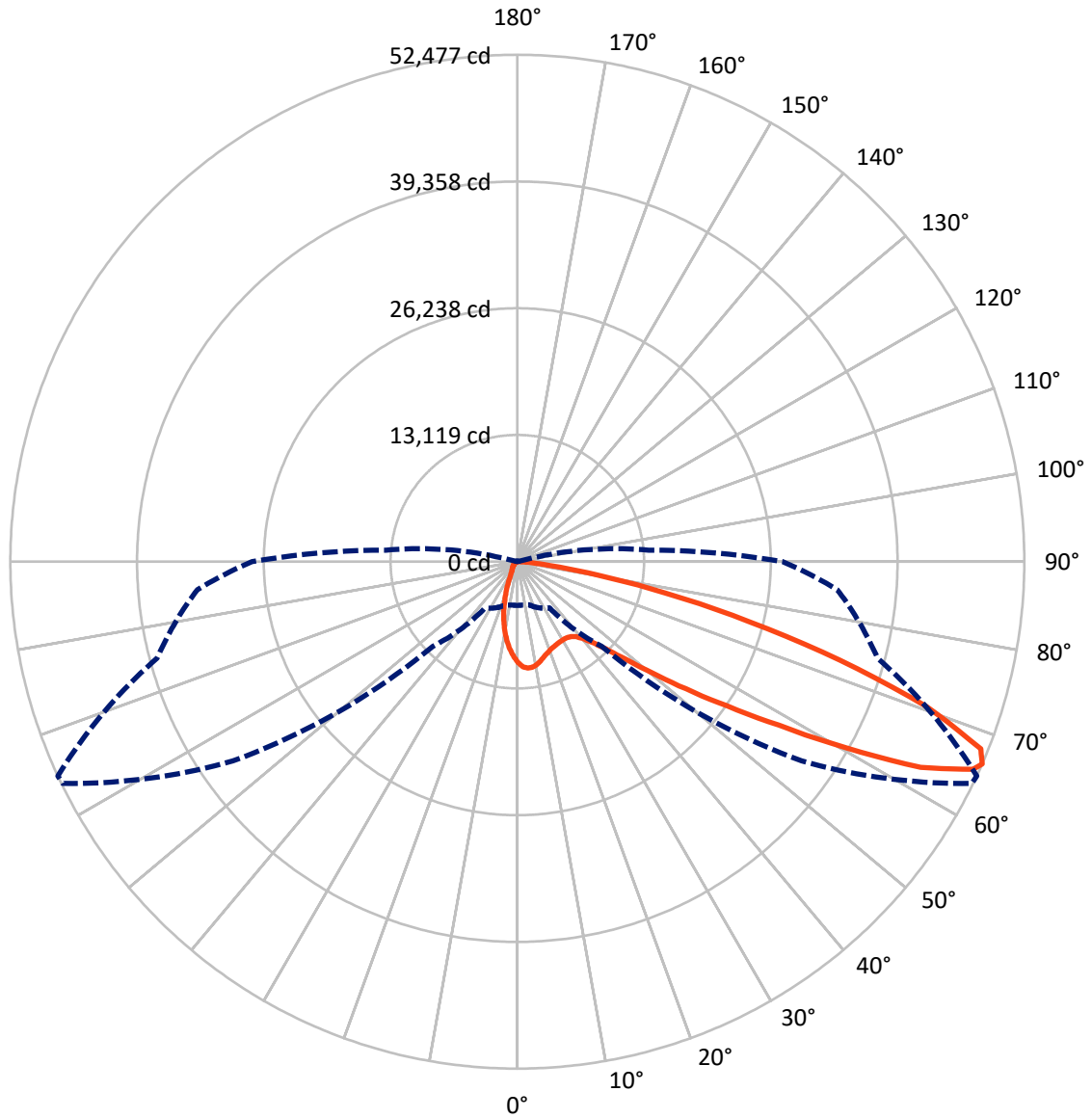
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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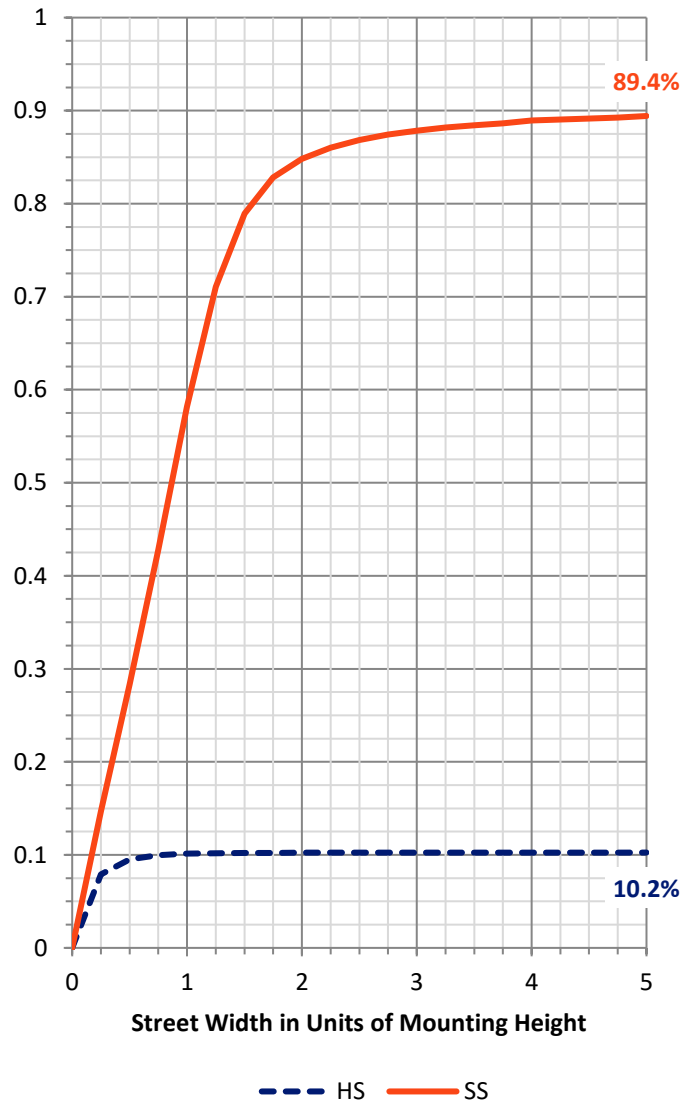
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4560.4	0.0	4560.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	39537.6	0.0	39537.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	44098.0	0.0	44098.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.2	1.9
10°-20°	1863.5	4.2
20°-30°	2669.4	6.1
30°-40°	3898.9	8.8
40°-50°	6537.7	14.8
50°-60°	10910.5	24.7
60°-70°	11581.1	26.3
70°-80°	5245.0	11.9
80°-90°	536.7	1.2
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°	44098.0	100.0
0°-180°	44098.0	100.0



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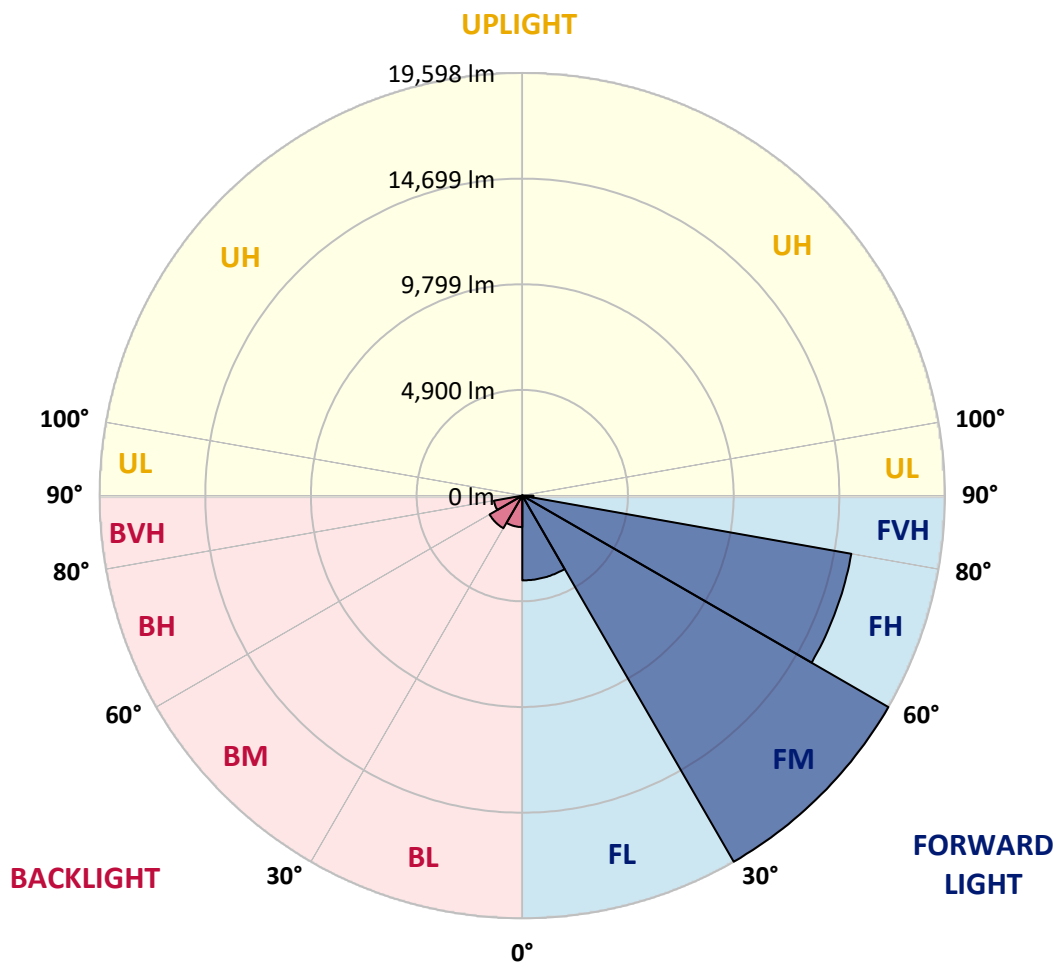
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3929.3	8.9			
FM	(30°-60°)	19598.2	44.4			
FH	(60°-80°)	15490.6	35.1			G5
FVH	(80°-90°)	519.6	1.2			G4/750
BL	(0°-30°)	1458.8	3.3	B3/2500		
BM	(30°-60°)	1748.9	4.0	B2/2500		
BH	(60°-80°)	1335.5	3.0	B3/2500		G3/2500
BVH	(80°-90°)	17.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3
2.5°	11020.2	11032.1	11047.0	11067.8	11082.7	11038.1	10975.5	10904.0	10889.1	10737.2	10552.6
5°	10430.5	10448.3	10579.4	10650.9	10811.7	10957.6	11050.0	11061.9	11055.9	10913.0	10618.1
7.5°	9590.5	9641.2	9769.2	9894.3	10195.2	10472.2	10799.8	11029.1	11044.0	11005.3	10638.9
10°	8908.5	8941.2	9006.8	9254.0	9504.2	9927.1	10385.8	10817.7	10853.4	11008.3	10621.1
12.5°	8375.3	8423.0	8503.4	8694.0	8994.9	9394.0	9915.2	10496.0	10570.4	10951.7	10570.4
15°	8003.0	8026.9	8107.3	8294.9	8586.8	8956.1	9483.3	10159.4	10224.9	10877.2	10561.5
17.5°	7827.3	7854.1	7910.7	8059.6	8300.9	8643.4	9158.7	9888.4	9971.8	10829.6	10594.3
20°	7875.0	7898.8	7901.8	7979.2	8143.0	8431.9	8920.4	9635.2	9742.4	10799.8	10647.9
22.5°	8146.0	8149.0	8113.2	8077.5	8134.1	8342.6	8774.5	9474.4	9584.6	10793.8	10710.4
25°	8551.1	8560.0	8500.4	8375.3	8262.2	8369.4	8741.7	9370.1	9468.4	10778.9	10749.1
27.5°	9111.0	9108.0	9090.2	8881.7	8560.0	8488.5	8768.5	9313.5	9396.9	10737.2	10764.0
30°	9894.3	9870.5	9831.8	9596.5	9105.1	8777.4	8881.7	9277.8	9355.2	10677.7	10725.3
32.5°	10665.8	10755.1	10749.1	10525.8	9912.2	9292.7	9117.0	9325.5	9382.0	10638.9	10668.7
35°	11565.2	11562.3	11791.6	11708.2	10990.4	9950.9	9519.1	9483.3	9528.0	10665.8	10641.9
37.5°	12399.2	12476.6	12834.0	12920.4	12265.2	10880.2	10087.9	9822.9	9837.7	10847.4	10707.5
40°	13438.7	13587.6	14120.7	14409.6	13831.8	12259.2	10927.9	10445.3	10448.3	11294.2	10954.7
42.5°	14779.0	15014.3	15511.7	15994.2	15684.4	13891.4	12187.7	11431.2	11425.3	12080.5	11520.6
45°	16408.2	16572.0	17137.9	17903.3	17706.8	16169.9	14022.4	12959.1	12881.7	13370.2	12524.3
47.5°	17814.0	18037.4	18612.2	19484.9	20378.4	18951.7	16214.6	15058.9	15008.3	15422.3	14245.8
50°	18427.5	18624.1	19228.7	20452.9	22618.2	22603.3	19478.9	18123.7	18037.4	18260.7	16908.5
52.5°	17754.4	17939.1	18549.7	20074.6	23672.5	27053.1	24208.7	21968.9	21864.6	21578.7	20089.5
55°	15449.1	15601.0	16503.5	18254.8	23267.5	30019.6	30725.5	26719.5	26314.4	25203.5	23690.4
57.5°	12300.9	12223.5	12783.4	14817.7	20890.7	31014.4	37415.0	32637.6	31913.9	28336.8	26737.4
60°	8524.3	8762.5	8988.9	10329.2	15708.2	29289.9	41575.9	40077.7	39124.6	31419.4	29656.2
62.5°	6266.6	6424.5	6573.4	7192.9	9876.5	23386.6	42311.6	47720.4	46874.5	34692.7	32441.0
65°	4956.1	4968.0	5027.6	5638.2	6507.9	15207.9	38776.2	52030.2	51812.7	37843.9	33569.9
66°	4515.3	4518.3	4610.6	5265.9	5840.7	12384.3	35943.7	52357.8	52476.9	38600.4	33239.3
67.5°	3946.4	3934.5	4068.5	4732.7	5319.5	8929.3	30874.4	51029.4	51735.3	39181.2	32050.9
70°	3058.8	3044.0	3207.8	3970.2	4899.5	5956.9	20521.4	43815.7	44953.4	37992.8	28357.6
72.5°	2037.2	2049.2	2329.1	3133.3	4676.1	5245.0	12345.6	33331.6	34939.9	31374.8	22308.4
75°	1188.4	1209.2	1527.9	2329.1	4059.6	5000.8	6987.4	23767.9	24795.4	21665.1	13897.3
77.5°	622.5	631.4	854.8	1536.9	3112.5	4643.4	4655.3	15184.0	15666.5	10528.7	5501.2
80°	330.6	321.7	458.7	926.3	2141.5	4077.5	3776.6	8038.8	8357.5	3127.3	1390.9
82.5°	125.1	137.0	244.2	607.6	1265.8	2927.8	3252.4	3553.3	3443.1	688.0	583.8
85°	23.8	29.8	104.2	360.4	637.4	1224.1	2397.6	1742.4	1614.3	259.1	336.6
87.5°	3.0	6.0	29.8	86.4	92.3	414.0	708.9	482.5	417.0	95.3	140.0
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°	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3	10457.3
2.5°	10463.2	10382.8	10114.7	9849.7	9578.6	9334.4	9167.6	8896.6	8828.1	8729.8	8673.2
5°	10442.4	10254.7	9739.5	9176.5	8652.3	8086.4	7654.6	7237.6	7014.2	6901.0	6859.3
7.5°	10382.8	10085.0	9280.8	8399.2	7559.3	6713.4	5977.7	5417.8	5057.4	4810.2	4643.4
10°	10263.7	9852.6	8747.6	7535.4	6266.6	5149.7	4217.5	3508.6	2960.6	2787.8	2793.8
12.5°	10141.5	9593.5	8152.0	6576.4	5003.8	3595.0	2606.1	2046.2	1784.1	1697.7	1679.8
15°	10028.4	9346.3	7568.2	5647.1	3726.0	2329.1	1679.8	1483.3	1411.8	1396.9	1393.9
17.5°	9968.8	9117.0	6945.7	4583.8	2600.2	1581.5	1346.2	1292.6	1271.8	1256.9	1250.9
20°	9918.2	8917.4	6350.0	3589.0	1778.1	1295.6	1206.3	1155.6	1119.9	1105.0	1096.1
22.5°	9882.4	8711.9	5733.5	2778.9	1361.1	1149.7	1069.3	1003.7	953.1	935.2	923.3
25°	9828.8	8485.5	5111.0	2031.3	1146.7	1021.6	929.3	851.8	786.3	753.5	747.6
27.5°	9751.4	8229.4	4428.9	1504.1	1024.6	908.4	795.2	699.9	634.4	598.7	601.6
30°	9626.3	7961.3	3746.9	1194.3	926.3	792.3	670.1	577.8	515.3	488.5	485.5
32.5°	9477.4	7636.7	3121.4	1024.6	836.9	688.0	559.9	479.5	431.9	411.0	408.0
35°	9337.4	7309.1	2484.0	920.3	744.6	592.7	470.6	402.1	366.3	348.5	351.5
37.5°	9259.9	7017.2	1936.0	836.9	670.1	509.3	405.1	345.5	312.7	297.8	294.9
40°	9310.6	6778.9	1539.8	762.5	586.8	437.8	348.5	297.8	265.1	244.2	244.2
42.5°	9548.8	6674.7	1242.0	691.0	509.3	378.3	303.8	256.1	220.4	199.6	202.5
45°	10275.6	6784.9	1039.5	625.5	437.8	327.6	262.1	211.5	178.7	163.8	160.8
47.5°	11481.8	7198.9	899.5	557.0	375.3	280.0	220.4	175.7	143.0	131.1	128.1
50°	13590.6	8053.7	795.2	488.5	318.7	238.3	181.7	140.0	113.2	101.3	101.3
52.5°	16491.6	9918.2	720.8	411.0	268.1	202.5	148.9	113.2	89.4	80.4	77.4
55°	19523.6	11883.9	682.1	345.5	223.4	166.8	119.1	89.4	68.5	59.6	56.6
57.5°	22439.5	13426.8	637.4	280.0	178.7	128.1	92.3	68.5	47.7	41.7	38.7
60°	25236.2	14674.7	542.1	223.4	140.0	92.3	68.5	47.7	32.8	26.8	26.8
62.5°	27738.1	15401.5	425.9	178.7	107.2	65.5	44.7	35.7	23.8	17.9	17.9
65°	28030.0	14457.3	321.7	137.0	77.4	41.7	26.8	26.8	17.9	11.9	11.9
66°	27443.2	13656.1	283.0	125.1	68.5	35.7	23.8	20.8	14.9	8.9	8.9
67.5°	26132.7	12289.0	244.2	107.2	56.6	26.8	17.9	17.9	11.9	6.0	6.0
70°	22579.5	10037.3	193.6	80.4	41.7	20.8	11.9	11.9	8.9	6.0	6.0
72.5°	17209.4	7493.7	157.9	59.6	29.8	14.9	8.9	8.9	8.9	6.0	6.0
75°	10379.8	4035.8	122.1	44.7	26.8	11.9	6.0	8.9	11.9	8.9	6.0
77.5°	3824.3	1373.1	95.3	35.7	20.8	11.9	6.0	6.0	11.9	8.9	8.9
80°	938.2	357.4	68.5	29.8	20.8	11.9	6.0	6.0	11.9	11.9	11.9
82.5°	434.9	151.9	47.7	26.8	20.8	11.9	6.0	6.0	8.9	11.9	11.9
85°	250.2	71.5	38.7	29.8	20.8	11.9	6.0	6.0	8.9	11.9	11.9
87.5°	101.3	35.7	35.7	29.8	23.8	14.9	6.0	6.0	6.0	8.9	8.9
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)