

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: P646963

Luminaire Tested: **GALN-SA5C-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22071.2 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

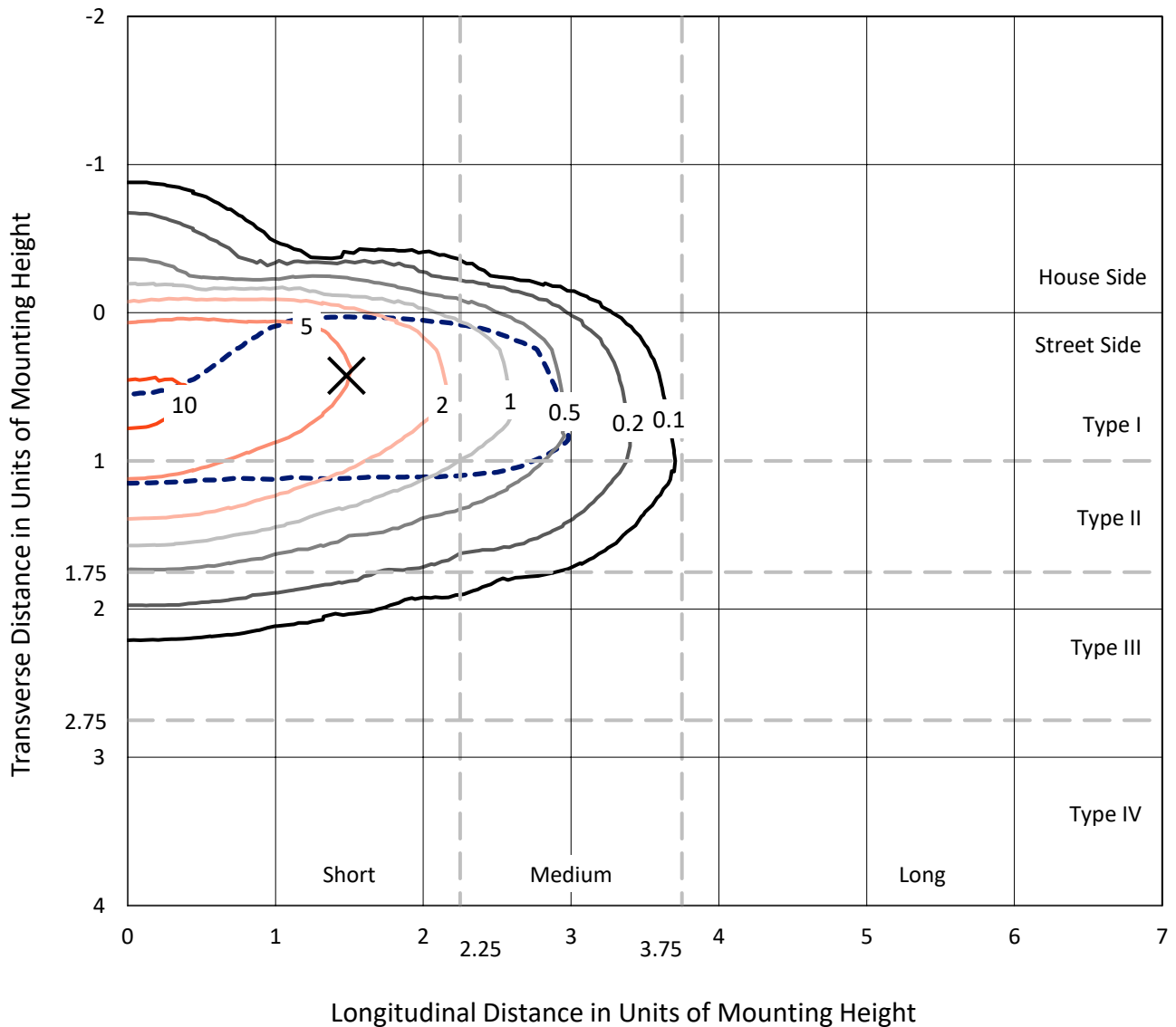
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA5C-835-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

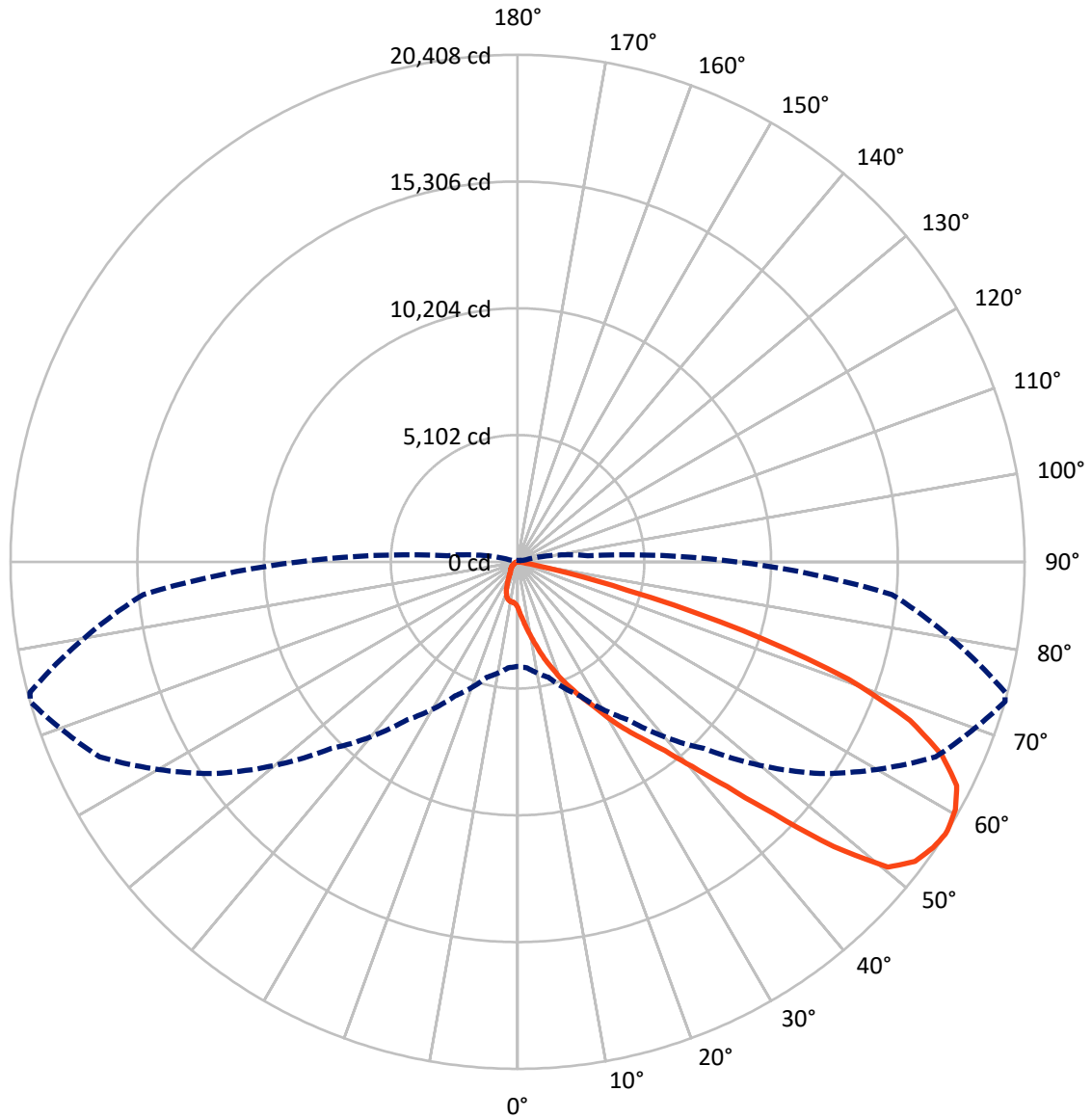
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

REPORT NUMBER: P646963
CATALOG NUMBER: GALN-SA5C-835-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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 CATALOG NUMBER: GALN-SA5C-835-U-T2R-HSS

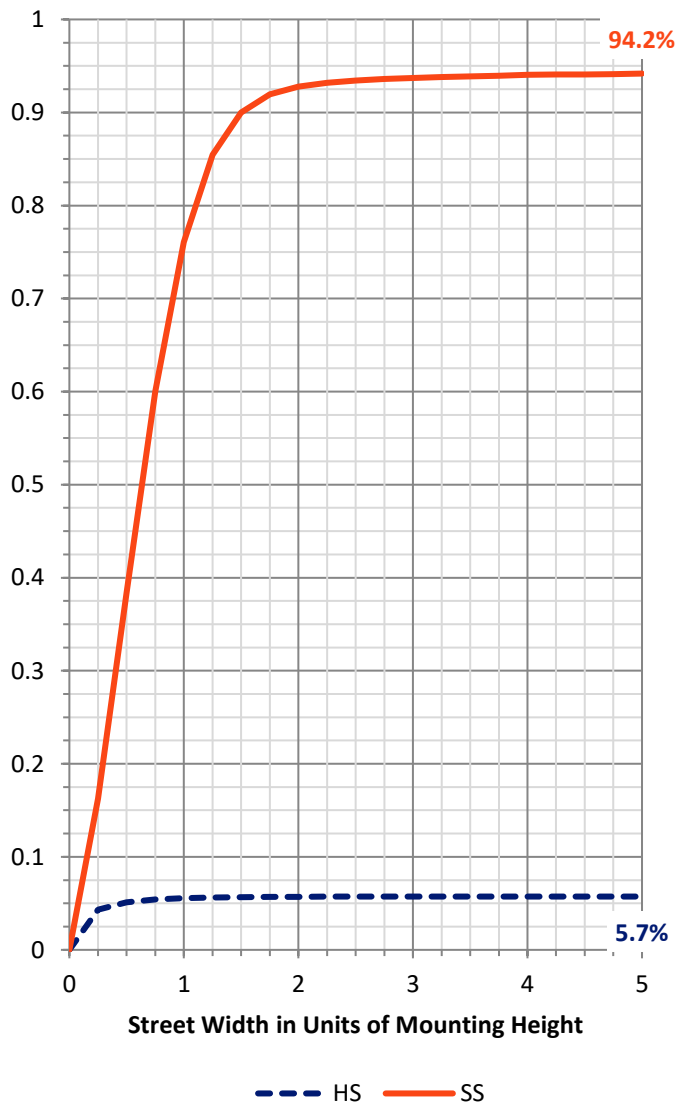
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1273.0	0.0	1273.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	20798.2	0.0	20798.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	22071.2	0.0	22071.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	1.0
10°-20°	879.4	4.0
20°-30°	1881.7	8.5
30°-40°	3458.6	15.7
40°-50°	5302.1	24.0
50°-60°	5608.9	25.4
60°-70°	3662.7	16.6
70°-80°	1000.8	4.5
80°-90°	53.9	0.2
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°	22071.2	100.0
0°-180°	22071.2	100.0

Coefficient of Utilization



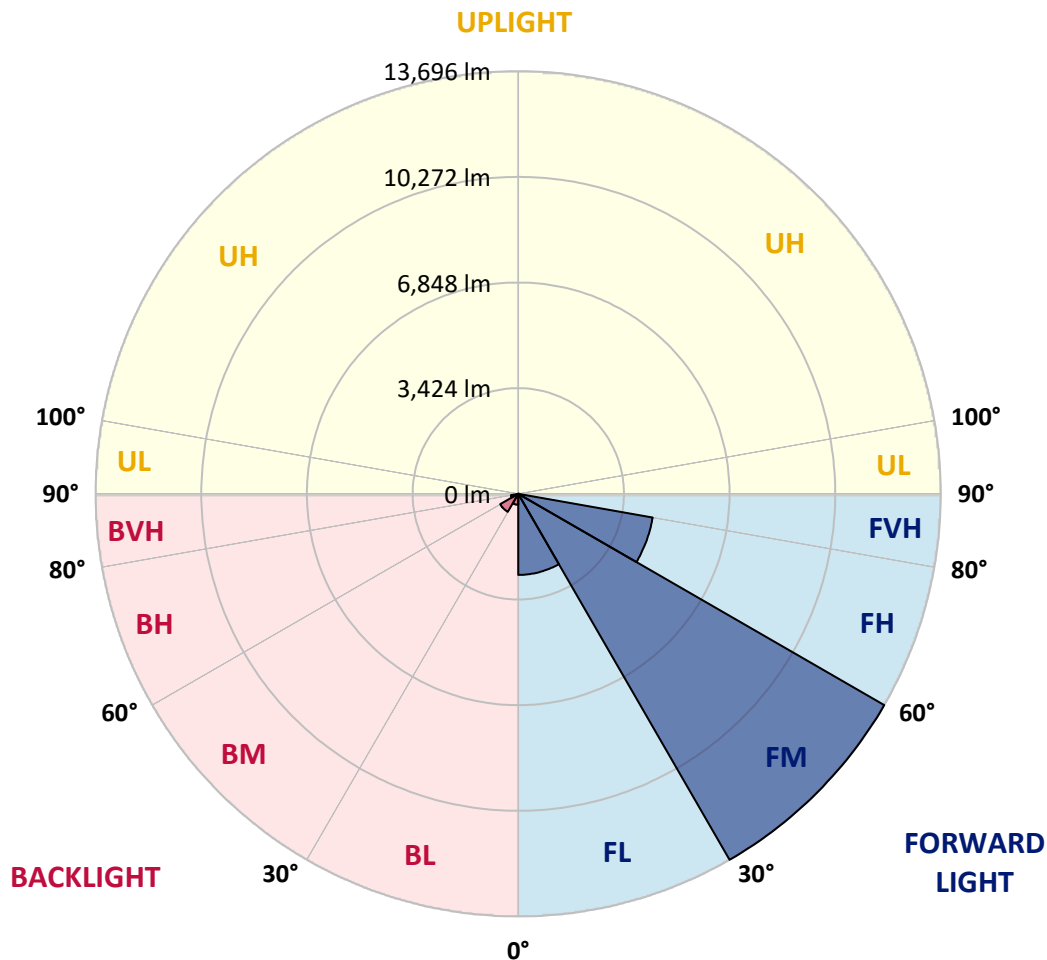
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 CATALOG NUMBER: GALN-SA5C-835-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2628.6	11.9			
FM (30°-60°)	13695.6	62.1			
FH (60°-80°)	4424.6	20.0			G2/5000
FVH (80°-90°)	49.4	0.2			G1/100
BL (0°-30°)	355.6	1.6	B1/500		
BM (30°-60°)	674.0	3.1	B1/1000		
BH (60°-80°)	239.0	1.1	B1/500		G1/500
BVH (80°-90°)	4.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CATALOG NUMBER: GALN-SA5C-835-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4
2.5°	2704.9	2680.4	2631.7	2614.9	2543.3	2432.1	2334.5	2203.5	2099.8	2089.2	1964.2
5°	3622.2	3567.3	3544.5	3434.8	3262.6	3101.1	2823.7	2613.4	2371.1	2352.8	2101.4
7.5°	4506.0	4429.8	4407.0	4303.4	4102.2	3847.7	3488.1	3105.6	2721.6	2686.6	2285.8
10°	5146.0	5156.8	5115.6	5047.0	4884.0	4624.9	4181.5	3658.8	3111.7	3067.5	2493.0
12.5°	5604.7	5603.2	5610.8	5609.3	5522.4	5325.9	4859.5	4257.6	3541.4	3454.6	2730.7
15°	5903.4	5908.0	5930.8	6010.1	6019.2	5897.3	5508.7	4830.6	4039.7	3931.5	2988.2
17.5°	6205.1	6237.1	6273.7	6348.4	6415.4	6366.7	6092.4	5428.0	4490.8	4410.0	3264.1
20°	6703.4	6747.7	6726.3	6772.0	6807.1	6811.6	6599.8	5979.6	5037.8	4902.2	3579.6
22.5°	7500.4	7498.9	7444.1	7361.8	7293.2	7290.1	7098.1	6546.5	5534.6	5403.6	3896.5
25°	8507.7	8512.2	8405.6	8170.9	8000.2	7791.5	7570.5	7043.2	6066.4	5904.9	4230.2
27.5°	9662.8	9633.8	9472.3	9149.2	8810.9	8454.4	8135.8	7620.8	6630.3	6496.2	4612.7
30°	10700.5	10689.8	10500.9	10106.2	9661.2	9303.1	8841.4	8344.6	7360.2	7195.6	5040.9
32.5°	11666.6	11681.9	11419.7	11011.3	10581.6	10168.7	9681.0	9036.4	8076.4	7843.3	5507.2
35°	12421.0	12436.2	12164.9	11825.1	11383.2	11040.3	10575.5	9774.0	8783.5	8586.9	6043.6
37.5°	12823.2	12843.0	12686.1	12430.0	12154.3	11982.1	11549.2	10723.3	9643.0	9524.1	6677.5
40°	12899.5	12922.3	12853.7	12785.1	12769.9	12893.3	12766.8	11841.9	10834.6	10648.7	7622.3
42.5°	12670.8	12701.4	12731.8	12884.2	13195.0	13647.6	14088.0	13359.6	12369.1	12119.2	8777.4
45°	12070.4	12067.4	12187.8	12582.5	13278.9	14245.0	15468.6	15259.9	14459.8	14162.7	10409.4
47.5°	11043.4	11028.2	11288.7	11851.0	12936.0	14354.7	16594.7	17567.0	17128.1	16853.8	12163.4
50°	9478.4	9553.1	9963.0	10747.8	12084.2	14022.5	16942.2	19080.1	19317.9	19026.8	13580.6
52.5°	7645.2	7642.2	8285.2	9350.4	10822.4	13291.0	16699.9	19354.4	20029.5	19807.1	14278.5
55°	5658.0	5697.7	6366.7	7441.0	9184.3	11956.2	15909.0	19072.5	20300.8	20143.8	14738.7
57°	4208.9	4279.0	4815.4	5952.2	7758.0	10634.9	14856.0	18568.1	20407.5	20322.1	15121.2
57.5°	3928.5	3931.5	4454.3	5487.4	7340.4	10127.6	14554.3	18357.9	20404.4	20357.1	15183.7
60°	2418.4	2494.6	2855.7	3709.1	5373.1	7904.2	12532.1	17149.4	20246.0	20314.5	15450.4
62.5°	1447.7	1479.6	1714.3	2235.5	3463.8	5769.3	10255.5	15602.8	19832.9	20041.7	15432.1
65°	931.1	938.7	1045.4	1353.2	2165.4	3899.6	7902.7	13559.3	18764.8	19148.7	14828.6
67.5°	719.3	731.5	774.2	888.4	1255.6	2429.0	5589.5	11378.6	17036.7	17531.9	13365.7
70°	638.5	644.6	659.8	696.4	830.5	1371.5	3477.5	8888.6	14127.7	14267.8	10459.7
72.5°	521.2	537.9	585.1	597.4	658.3	856.4	1935.3	5965.9	9492.1	9527.2	5851.6
75°	403.8	406.8	477.0	512.0	554.7	589.8	864.0	3008.1	4559.4	4315.6	2255.3
77.5°	301.7	315.5	347.4	391.7	452.6	422.1	387.0	1133.8	1415.7	1389.7	655.3
80°	193.6	201.2	242.3	294.1	352.0	275.9	217.9	332.2	310.9	320.0	157.0
82.5°	97.6	99.0	155.4	239.2	224.0	138.7	137.2	135.6	115.8	114.3	73.1
85°	10.6	22.9	100.5	137.2	100.5	45.7	64.0	62.5	60.9	62.5	42.7
87.5°	1.5	1.5	16.8	19.8	13.7	15.3	18.3	19.8	24.4	22.9	18.3
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°	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4	1848.4
2.5°	1903.3	1842.3	1729.6	1621.4	1540.6	1488.8	1421.8	1397.3	1362.3	1357.7	1341.0
5°	1985.6	1869.8	1673.2	1517.8	1392.8	1298.3	1216.0	1147.5	1092.6	1080.4	1086.5
7.5°	2102.9	1930.7	1656.4	1444.6	1270.9	1109.4	978.3	897.6	839.6	818.3	821.4
10°	2235.5	2011.4	1653.4	1366.9	1101.8	903.7	760.4	688.8	655.3	643.1	629.4
12.5°	2392.5	2104.5	1645.8	1246.5	915.9	720.8	618.6	576.1	544.0	534.9	534.9
15°	2569.2	2203.5	1609.2	1097.1	743.6	595.9	527.3	493.8	483.0	473.9	473.9
17.5°	2753.6	2301.0	1533.0	912.8	617.2	510.5	467.8	448.0	432.8	422.1	422.1
20°	2963.9	2397.0	1411.1	749.7	521.2	455.6	422.1	399.3	387.0	378.0	374.9
22.5°	3163.6	2474.7	1255.6	615.7	454.1	409.9	379.4	355.1	342.9	338.3	338.3
25°	3370.7	2522.0	1068.2	509.0	414.5	371.8	338.3	318.5	307.8	304.7	303.3
27.5°	3571.9	2549.4	903.7	445.0	378.0	336.8	304.7	289.6	278.8	275.9	277.3
30°	3815.7	2554.0	743.6	399.3	345.9	303.3	274.3	260.6	254.5	251.4	249.9
32.5°	4062.6	2547.9	624.8	371.8	315.5	274.3	249.9	239.2	234.7	230.1	230.1
35°	4339.9	2515.9	531.8	344.4	286.5	249.9	228.6	219.4	213.4	208.7	207.3
37.5°	4684.3	2499.1	478.5	313.9	260.6	227.1	207.3	198.1	193.6	187.5	185.9
40°	5226.8	2573.8	461.7	286.5	234.7	205.7	187.5	176.8	170.7	164.6	163.0
42.5°	5903.4	2704.9	434.3	259.0	211.8	185.9	167.6	155.4	144.8	137.2	134.1
45°	6779.6	2877.1	391.7	230.1	192.0	164.6	147.8	132.6	118.9	112.8	111.3
47.5°	7698.5	3043.1	353.5	207.3	170.7	146.3	128.0	111.3	99.0	94.5	92.9
50°	8262.4	3076.6	329.2	181.3	149.3	126.5	108.2	92.9	85.3	80.7	80.7
52.5°	8519.9	3023.3	295.7	158.5	129.5	111.3	92.9	80.7	76.2	73.1	71.6
55°	8699.7	2941.0	251.4	137.2	111.3	94.5	82.3	73.1	67.0	64.0	62.5
57°	8804.8	2829.8	217.9	120.3	96.0	82.3	73.1	65.5	59.4	53.3	53.3
57.5°	8809.4	2787.2	208.7	118.9	91.5	79.2	71.6	64.0	56.4	50.3	48.8
60°	8673.8	2494.6	167.6	100.5	73.1	67.0	59.4	50.3	39.6	33.5	32.0
62.5°	8237.9	2122.7	138.7	85.3	59.4	51.8	42.7	38.1	27.4	19.8	19.8
65°	7578.1	1722.0	118.9	68.6	48.8	38.1	29.0	27.4	16.8	9.2	7.6
67.5°	6624.2	1341.0	100.5	56.4	41.1	27.4	19.8	18.3	9.2	3.1	0.0
70°	5047.0	914.3	83.8	45.7	30.5	19.8	13.7	10.6	6.1	1.5	0.0
72.5°	2909.0	502.8	70.1	35.1	22.9	15.3	10.6	6.1	6.1	0.0	0.0
75°	1039.3	216.4	53.3	25.9	18.3	12.2	7.6	3.1	4.5	1.5	0.0
77.5°	330.7	115.8	35.1	19.8	15.3	9.2	6.1	3.1	3.1	1.5	0.0
80°	97.6	60.9	21.3	16.8	10.6	7.6	4.5	1.5	3.1	1.5	0.0
82.5°	53.3	30.5	16.8	12.2	10.6	6.1	4.5	1.5	1.5	1.5	0.0
85°	27.4	18.3	13.7	12.2	10.6	6.1	4.5	1.5	0.0	1.5	1.5
87.5°	15.3	13.7	13.7	12.2	10.6	7.6	4.5	1.5	0.0	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)