

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: P532083

Luminaire Tested: **GALN-SA7B-830-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17411 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 286
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



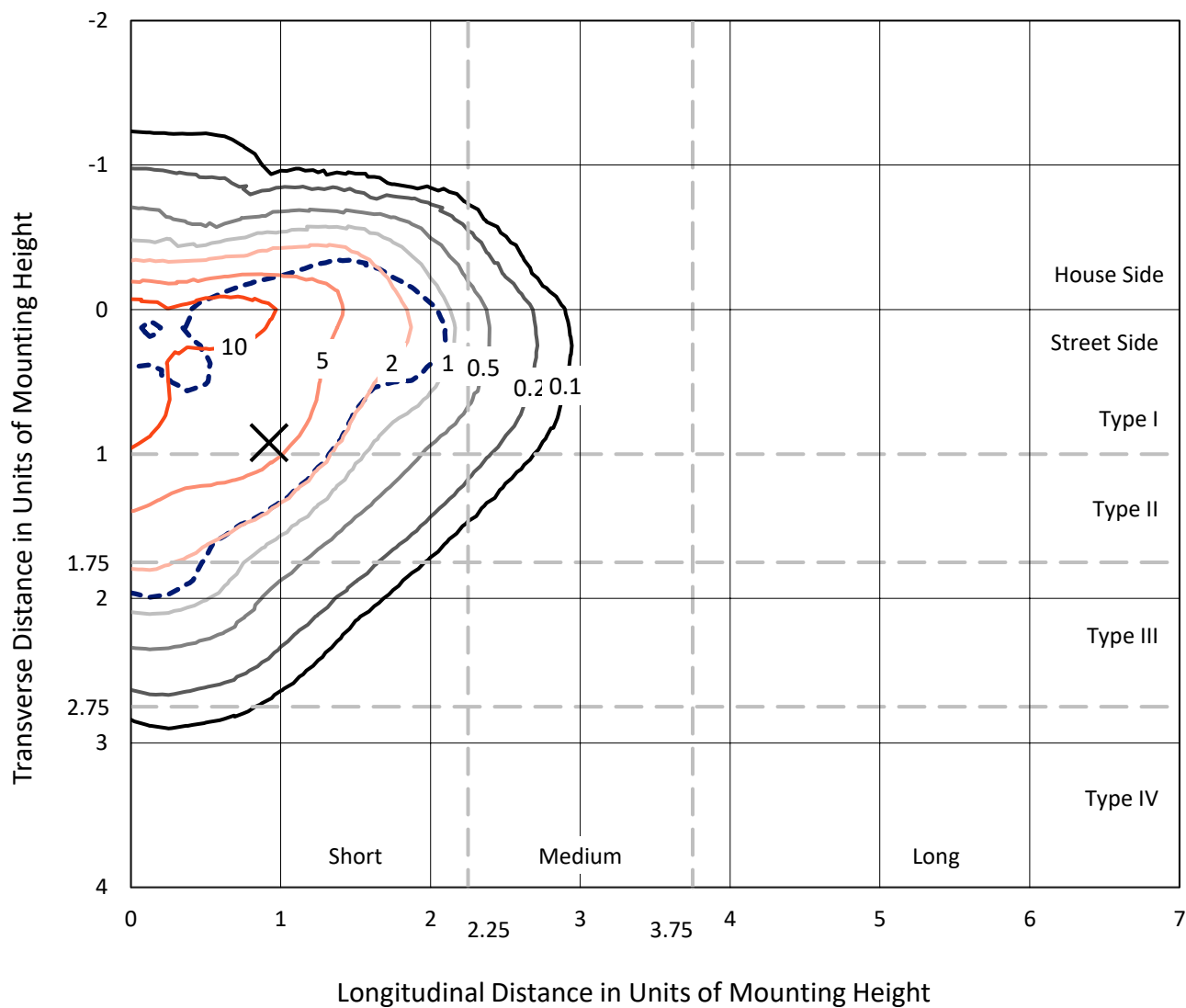
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

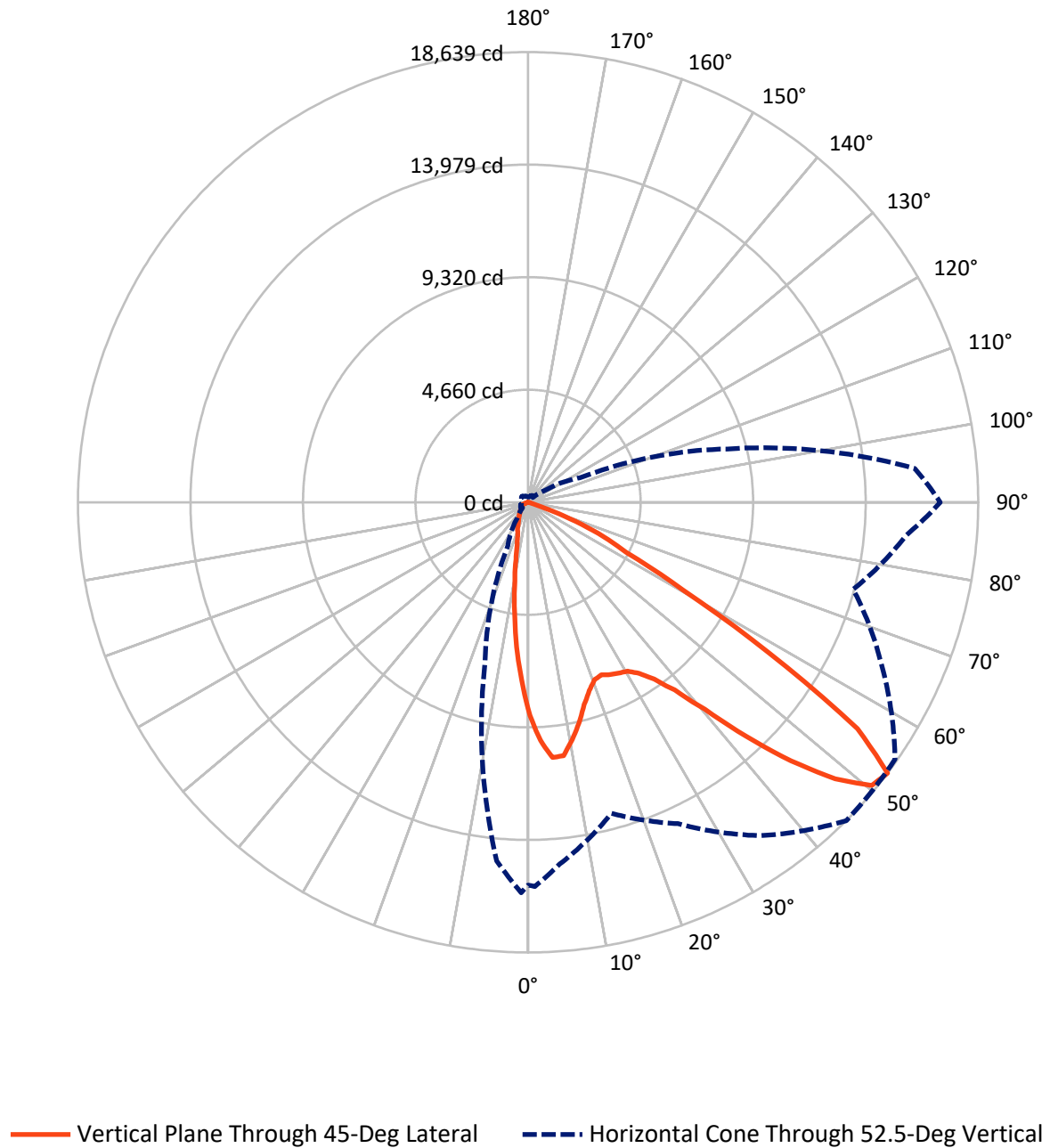
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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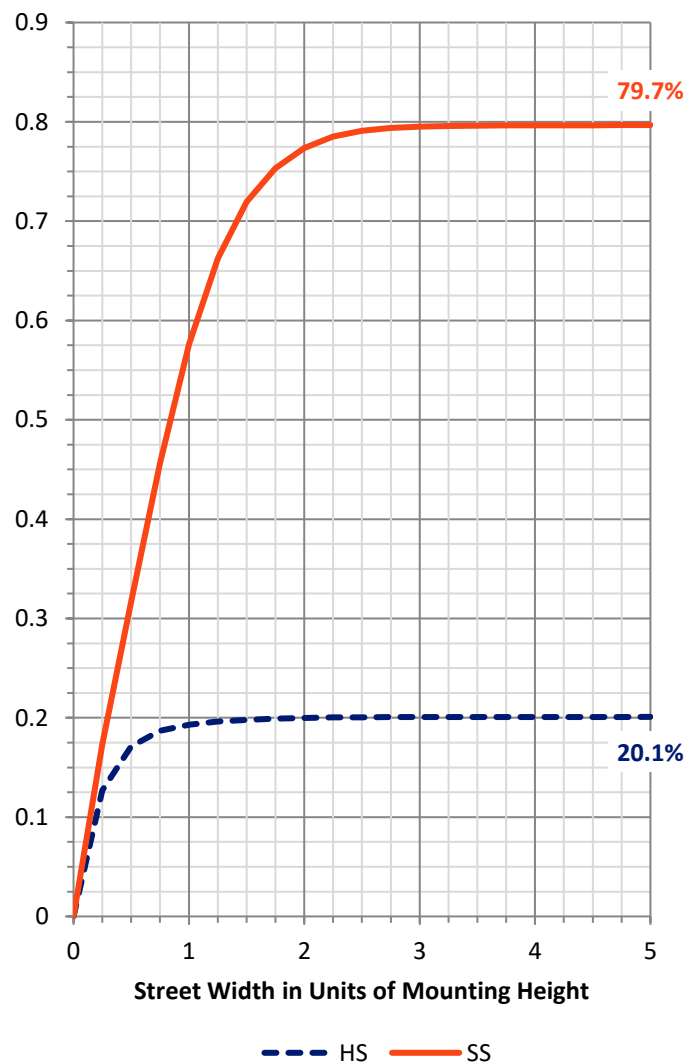
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3533.6	0.0	3533.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13877.4	0.0	13877.4
	% Fixture	79.7	0.0	79.7
Total	Lumens	17411.0	0.0	17411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.8	3.7
10°-20°	1270.2	7.3
20°-30°	1933.1	11.1
30°-40°	2889.2	16.6
40°-50°	4114.6	23.6
50°-60°	4423.0	25.4
60°-70°	1959.9	11.3
70°-80°	158.6	0.9
80°-90°	18.5	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°	17411.0	100.0
0°-180°	17411.0	100.0

Coefficient of Utilization



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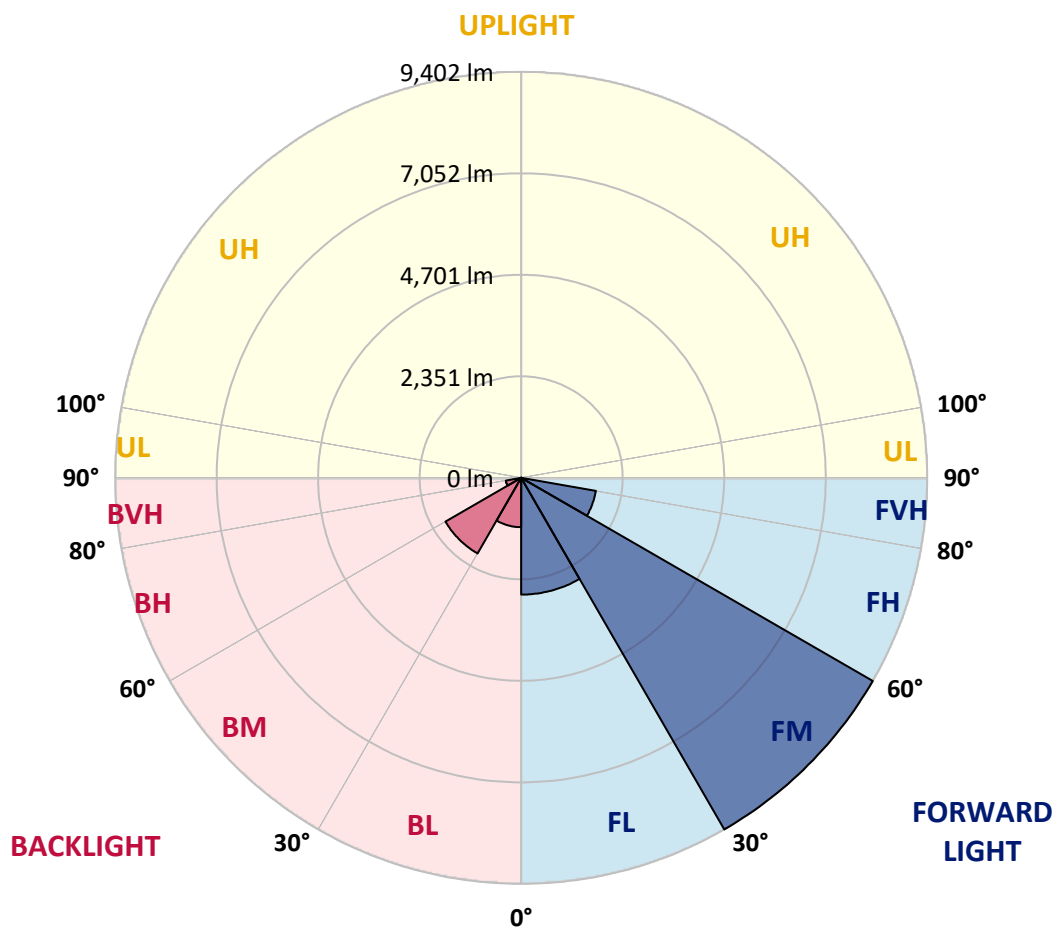
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2704.3	15.5			
FM	(30°-60°)	9402.5	54.0			
FH	(60°-80°)	1757.0	10.1			G1/1800
FVH	(80°-90°)	13.7	0.1			G1/100
BL	(0°-30°)	1142.9	6.6	B3/2500		
BM	(30°-60°)	2024.3	11.6	B2/2500		
BH	(60°-80°)	361.5	2.1	B1/500		G1/500
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	9341.9	9369.2	9519.9	9708.3	9807.6	10033.6	9876.1	9917.2	9831.5	9530.2	9293.9
5°	9057.6	9054.2	9246.0	9711.7	10153.4	10602.0	10615.7	10376.0	9954.8	9492.5	8831.6
7.5°	8201.5	8335.1	8533.7	9276.8	10095.2	10430.8	10591.8	10311.0	9663.7	9002.8	8287.1
10°	7554.3	7622.8	7958.4	8855.6	9454.9	9903.5	10002.8	9841.8	9345.3	8520.0	7718.7
12.5°	7181.0	7215.3	7609.1	8362.5	8996.0	9328.2	9376.1	9451.4	9095.3	8321.4	7359.1
15°	7184.5	7211.9	7742.6	8372.7	8622.7	8533.7	8691.2	8687.8	8841.9	8283.7	7660.5
17.5°	7701.5	7732.4	8211.8	8523.4	8413.8	8204.9	8194.7	8352.2	8677.5	8752.8	8115.9
20°	8591.9	8663.8	9016.5	8999.4	8383.0	7961.8	7845.4	7965.2	8722.0	9150.1	9033.7
22.5°	9790.5	9889.8	10136.3	9663.7	8523.4	7797.4	7759.8	7992.6	9016.5	10037.0	10074.7
25°	11180.8	11348.6	11468.4	10862.3	9023.4	8081.7	7903.6	8304.2	9413.8	10999.3	11399.9
27.5°	12101.9	12276.6	12249.2	11382.8	9359.0	8157.0	8006.3	8379.6	9759.6	11228.7	12091.7
30°	12821.1	12927.2	13119.0	11663.6	9694.6	8369.3	8112.5	8698.1	9872.6	11625.9	12927.2
32.5°	13660.1	13732.0	13745.7	12160.2	10211.7	8636.4	8441.2	9095.3	10372.6	12006.1	13666.9
35°	14505.9	14612.1	14389.5	12773.1	10530.1	9133.0	8989.1	9783.6	10773.3	12399.9	14481.9
37.5°	15423.6	15478.4	14964.8	13026.5	10985.6	9941.1	9862.4	10526.7	11468.4	13112.2	15386.0
40°	16194.1	16245.5	15577.7	13338.2	11465.0	11071.2	11273.2	11944.4	12413.6	13574.4	15838.0
42.5°	16622.2	16742.0	15783.2	13166.9	12427.3	12351.9	13249.1	13485.4	13509.4	13704.6	16242.1
45°	16738.6	16683.8	15444.2	13307.3	13269.7	14458.0	15273.0	15584.6	14598.4	13944.3	16344.8
47.5°	16201.0	16272.9	14944.2	13184.1	14375.8	16053.7	17108.5	17687.2	15409.9	13735.4	16091.4
50°	15766.1	15673.6	14783.3	13095.0	14673.7	16807.1	18433.7	18563.8	16156.5	13992.2	15814.0
52.5°	15851.7	15909.9	15040.1	13331.3	14680.5	16851.6	18639.2	18550.1	16180.4	13934.0	15714.7
55°	16033.2	15776.4	14930.5	12810.8	13697.7	15608.6	16543.4	16406.5	14933.9	13314.2	15471.6
57.5°	13834.7	14231.9	13728.5	11437.6	11242.4	11759.5	11742.4	12163.6	11139.7	11458.2	14084.7
60°	11228.7	11297.2	11485.5	9783.6	7780.3	7602.2	7355.7	7088.6	7496.1	9797.3	12810.8
62.5°	9876.1	9793.9	10465.1	8900.1	5492.8	4599.0	4557.9	4722.3	5783.9	9345.3	12016.3
65°	7177.6	7280.3	7766.6	6907.1	4123.0	3510.0	3448.4	3934.7	4681.2	7489.2	9170.6
67.5°	4383.3	4581.9	4626.4	4260.0	2797.8	2222.5	2133.4	2575.2	3379.9	4845.6	5376.4
70°	2023.8	2263.5	2489.6	2325.2	1619.8	914.3	863.0	1082.1	1705.4	2787.5	2852.6
72.5°	613.0	616.4	863.0	900.6	523.9	205.5	181.5	239.7	578.7	921.2	969.1
75°	44.5	47.9	116.4	133.6	99.3	51.4	54.8	65.1	123.3	205.5	154.1
77.5°	3.4	3.4	3.4	17.1	30.8	34.2	44.5	51.4	65.1	75.3	68.5
80°	3.4	0.0	3.4	13.7	24.0	34.2	41.1	47.9	51.4	58.2	51.4
82.5°	0.0	0.0	0.0	10.3	24.0	34.2	37.7	51.4	58.2	68.5	58.2
85°	0.0	0.0	0.0	10.3	24.0	37.7	34.2	17.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	9335.0	9201.4	8896.7	8742.6	8379.6	8328.2	7972.1	7913.9	7794.0	7728.9	7571.4
5°	8540.5	8379.6	7883.0	7465.3	6979.0	6640.0	6379.7	6143.4	6006.5	5879.8	5938.0
7.5°	7893.3	7424.2	6872.8	6174.3	5612.6	5249.7	4852.4	4527.1	4335.3	4205.2	4236.0
10°	7215.3	6910.5	6143.4	5359.2	4681.2	4424.4	4112.7	3862.8	3592.2	3359.4	3249.8
12.5°	7003.0	6550.9	5588.7	4790.8	4277.1	4027.1	3671.0	3383.3	3037.5	2753.2	2653.9
15°	7040.6	6605.7	5438.0	4585.3	3979.2	3547.7	3123.1	2766.9	2386.8	2188.2	2085.5
17.5°	7653.6	6900.2	5537.3	4369.6	3564.8	2965.6	2441.6	1989.6	1705.4	1499.9	1455.4
20°	8407.0	7537.2	5749.6	4212.1	3225.8	2359.4	1784.1	1393.7	1157.5	1123.2	1112.9
22.5°	9509.6	8578.2	6205.1	4105.9	2811.5	1838.9	1222.5	1013.6	948.6	941.7	945.1
25°	11050.6	9882.9	6701.6	4016.9	2499.8	1417.7	999.9	859.5	839.0	828.7	845.8
27.5°	11718.4	10670.5	6965.3	3825.1	2215.6	1277.3	986.2	852.7	794.5	777.3	787.6
30°	12543.7	11194.5	7379.7	3496.3	1797.8	1051.3	921.2	928.0	900.6	815.0	787.6
32.5°	13639.5	11848.5	7588.5	3263.5	1606.1	869.8	674.6	619.8	691.7	705.4	729.4
35°	14341.5	12512.9	7694.7	3126.5	1506.8	743.1	571.9	520.5	503.4	506.8	520.5
37.5°	15646.2	13410.1	7828.3	2982.7	1431.4	647.2	517.1	469.1	445.2	445.2	458.9
40°	16427.0	14122.4	8009.7	2903.9	1356.1	589.0	469.1	428.1	407.5	407.5	414.4
42.5°	16622.2	14475.1	7948.1	2876.5	1270.5	575.3	428.1	397.2	373.3	369.8	366.4
45°	16971.5	15012.7	7958.4	2845.7	1181.4	523.9	404.1	369.8	335.6	332.2	328.7
47.5°	17355.0	15399.7	7978.9	2725.8	1095.8	438.3	421.2	342.4	301.4	294.5	294.5
50°	17026.3	15707.9	8157.0	2606.0	986.2	356.1	414.4	321.9	267.1	256.8	260.3
52.5°	17067.4	16070.9	8533.7	2438.2	849.3	284.2	335.6	304.8	243.1	226.0	229.4
55°	16409.9	15687.3	8585.1	2260.1	664.3	219.2	256.8	267.1	205.5	198.6	198.6
57.5°	14125.8	13283.4	7574.8	1832.1	438.3	181.5	184.9	232.9	178.1	171.2	174.6
60°	12088.2	10663.7	6095.5	1208.8	274.0	143.8	133.6	236.3	157.5	154.1	164.4
62.5°	11019.8	8763.1	4623.0	750.0	188.3	109.6	92.5	191.8	137.0	137.0	150.7
65°	7961.8	5886.6	2688.2	393.8	133.6	85.6	68.5	109.6	113.0	116.4	123.3
67.5°	4931.2	2972.4	1133.5	191.8	89.0	58.2	44.5	68.5	75.3	75.3	82.2
70°	2434.8	1184.9	376.7	109.6	68.5	47.9	30.8	37.7	37.7	34.2	37.7
72.5°	753.4	356.1	95.9	68.5	47.9	30.8	17.1	13.7	6.8	0.0	3.4
75°	85.6	68.5	61.6	47.9	30.8	13.7	3.4	0.0	0.0	0.0	0.0
77.5°	51.4	58.2	58.2	47.9	30.8	10.3	0.0	0.0	0.0	0.0	0.0
80°	41.1	44.5	47.9	44.5	27.4	13.7	0.0	0.0	0.0	0.0	0.0
82.5°	51.4	58.2	65.1	58.2	37.7	17.1	6.8	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	10.3	3.4	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	7506.4	7431.0	7537.2	7379.7	7376.2	7379.7	7335.1	7294.0	7359.1	7533.8	7550.9
5°	5729.1	5890.0	5941.4	6109.2	6016.7	5879.8	5907.1	5814.7	6040.7	6140.0	6061.2
7.5°	4171.0	4160.7	4506.6	4527.1	4571.6	4575.0	4568.2	4386.7	4201.8	4242.9	4366.2
10°	3236.1	3061.4	3229.2	3212.1	3321.7	3290.9	3335.4	3140.2	3205.3	3205.3	3284.0
12.5°	2636.8	2451.9	2421.1	2376.6	2421.1	2438.2	2455.3	2417.6	2527.2	2578.6	2633.4
15°	2013.6	1910.8	1883.4	1797.8	1811.5	1859.5	1900.6	1917.7	1883.4	1962.2	1969.0
17.5°	1462.2	1458.8	1475.9	1472.5	1458.8	1448.5	1445.1	1400.6	1386.9	1393.7	1421.1
20°	1109.5	1136.9	1195.1	1253.3	1284.2	1246.5	1195.1	1119.8	1089.0	1095.8	1099.2
22.5°	948.6	989.7	1068.4	1133.5	1164.3	1095.8	1003.4	938.3	924.6	921.2	917.7
25°	859.5	907.5	965.7	986.2	982.8	941.7	873.2	845.8	839.0	832.1	801.3
27.5°	811.6	828.7	839.0	863.0	873.2	845.8	828.7	787.6	780.8	780.8	760.2
30°	784.2	773.9	787.6	770.5	784.2	763.6	767.1	767.1	750.0	756.8	756.8
32.5°	729.4	732.8	732.8	698.6	708.9	684.9	708.9	729.4	732.8	736.3	763.6
35°	534.2	595.9	626.7	626.7	636.9	619.8	616.4	592.4	561.6	530.8	517.1
37.5°	469.1	493.1	534.2	558.2	575.3	561.6	530.8	493.1	476.0	462.3	448.6
40°	417.8	438.3	465.7	493.1	527.4	510.2	462.3	445.2	424.6	424.6	410.9
42.5°	376.7	387.0	404.1	445.2	482.8	448.6	414.4	400.7	390.4	387.0	383.5
45°	339.0	342.4	359.6	393.8	438.3	404.1	369.8	352.7	356.1	359.6	356.1
47.5°	304.8	311.6	321.9	363.0	390.4	373.3	335.6	325.3	325.3	325.3	328.7
50°	263.7	280.8	301.4	335.6	356.1	345.9	315.0	301.4	294.5	294.5	297.9
52.5°	236.3	250.0	277.4	318.5	345.9	328.7	297.9	277.4	263.7	260.3	267.1
55°	205.5	229.4	274.0	304.8	342.4	325.3	291.1	267.1	243.1	239.7	239.7
57.5°	184.9	222.6	263.7	301.4	332.2	318.5	291.1	260.3	229.4	226.0	226.0
60°	174.6	215.7	256.8	291.1	332.2	311.6	287.7	253.4	219.2	219.2	215.7
62.5°	164.4	202.0	243.1	277.4	318.5	301.4	277.4	243.1	208.9	208.9	202.0
65°	137.0	174.6	202.0	232.9	277.4	260.3	236.3	212.3	184.9	178.1	181.5
67.5°	95.9	119.9	147.3	178.1	205.5	198.6	188.3	171.2	147.3	143.8	140.4
70°	47.9	65.1	89.0	119.9	143.8	137.0	130.1	116.4	102.7	99.3	99.3
72.5°	6.8	20.5	37.7	54.8	75.3	78.8	75.3	71.9	68.5	65.1	68.5
75°	0.0	0.0	0.0	13.7	30.8	37.7	44.5	51.4	51.4	44.5	54.8
77.5°	0.0	0.0	0.0	0.0	3.4	17.1	34.2	44.5	54.8	47.9	65.1
80°	0.0	0.0	0.0	0.0	3.4	20.5	34.2	47.9	54.8	47.9	68.5
82.5°	0.0	0.0	0.0	0.0	3.4	24.0	34.2	44.5	51.4	47.9	61.6
85°	0.0	0.0	0.0	0.0	10.3	20.5	13.7	6.8	3.4	3.4	10.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2	8828.2
2.5°	7646.8	7889.9	8150.1	8249.5	8557.7	8790.5	8948.0	9287.1	9338.4	9341.9
5°	6143.4	6266.7	6711.9	6920.8	7379.7	7735.8	8115.9	8663.8	9030.2	9057.6
7.5°	4366.2	4708.6	4896.9	5441.4	6006.5	6564.6	7129.7	7766.6	8191.2	8201.5
10°	3513.5	3736.1	4071.6	4479.2	4955.2	5523.6	6277.0	7016.7	7448.1	7554.3
12.5°	2828.6	3219.0	3602.5	4023.7	4386.7	4814.8	5626.3	6612.6	6968.7	7181.0
15°	2177.9	2534.1	2986.1	3479.2	3890.2	4462.0	5386.6	6513.3	7112.5	7184.5
17.5°	1606.1	1924.5	2342.3	2808.0	3424.4	4236.0	5427.7	7016.7	7581.7	7701.5
20°	1154.0	1339.0	1667.7	2208.8	2993.0	3972.3	5468.8	7526.9	8386.4	8591.9
22.5°	914.3	989.7	1205.4	1684.8	2510.1	3695.0	5759.9	8502.9	9492.5	9790.5
25°	794.5	835.6	938.3	1328.7	2205.3	3667.6	6225.6	9674.0	10965.0	11180.8
27.5°	767.1	773.9	863.0	1219.1	2041.0	3486.1	6403.7	10506.2	11882.8	12101.9
30°	808.2	917.7	924.6	1030.8	1736.2	3126.5	6496.1	11310.9	12660.1	12821.1
32.5°	698.6	664.3	688.3	797.9	1527.3	2917.6	6670.8	12012.9	13547.1	13660.1
35°	486.3	510.2	565.0	691.7	1335.5	2698.5	6715.3	12786.8	14389.5	14505.9
37.5°	448.6	462.3	506.8	589.0	1174.6	2575.2	6653.7	13351.9	15262.7	15423.6
40°	417.8	434.9	458.9	534.2	1054.7	2438.2	6568.1	13862.1	15796.9	16194.1
42.5°	393.8	407.5	428.1	510.2	952.0	2301.2	6448.2	14581.2	16276.3	16622.2
45°	366.4	387.0	410.9	496.5	893.8	2208.8	6359.2	14536.7	16553.7	16738.6
47.5°	339.0	373.3	400.7	462.3	876.7	2164.2	6396.8	14368.9	16327.7	16201.0
50°	311.6	356.1	404.1	383.5	835.6	2075.2	6441.4	14598.4	15790.1	15766.1
52.5°	287.7	339.0	376.7	315.0	743.1	1989.6	6872.8	14899.7	16170.2	15851.7
55°	253.4	304.8	301.4	253.4	602.7	1924.5	7211.9	14906.6	15913.3	16033.2
57.5°	229.4	270.5	236.3	212.3	445.2	1609.5	6660.5	12499.2	13622.4	13834.7
60°	212.3	263.7	178.1	167.8	291.1	1160.9	5814.7	9680.9	10828.1	11228.7
62.5°	195.2	250.0	140.4	137.0	202.0	825.3	4780.5	8102.2	9331.6	9876.1
65°	171.2	178.1	113.0	106.2	143.8	445.2	2910.8	5578.4	6975.6	7177.6
67.5°	140.4	137.0	92.5	85.6	95.9	215.7	1284.2	2794.3	4044.3	4383.3
70°	113.0	113.0	78.8	68.5	68.5	99.3	335.6	1112.9	1828.6	2023.8
72.5°	82.2	85.6	61.6	54.8	51.4	47.9	54.8	222.6	479.4	613.0
75°	71.9	75.3	61.6	47.9	37.7	30.8	24.0	20.5	27.4	44.5
77.5°	78.8	78.8	65.1	44.5	34.2	24.0	13.7	6.8	6.8	3.4
80°	99.3	102.7	85.6	58.2	41.1	27.4	17.1	6.8	3.4	3.4
82.5°	106.2	116.4	95.9	71.9	51.4	30.8	17.1	3.4	0.0	0.0
85°	27.4	44.5	75.3	65.1	51.4	30.8	17.1	3.4	0.0	0.0
87.5°	0.0	3.4	10.3	10.3	13.7	13.7	10.3	3.4	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

(END OF REPORT)