

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: P533726

Luminaire Tested: **GALN-SA9A-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27633 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 274
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

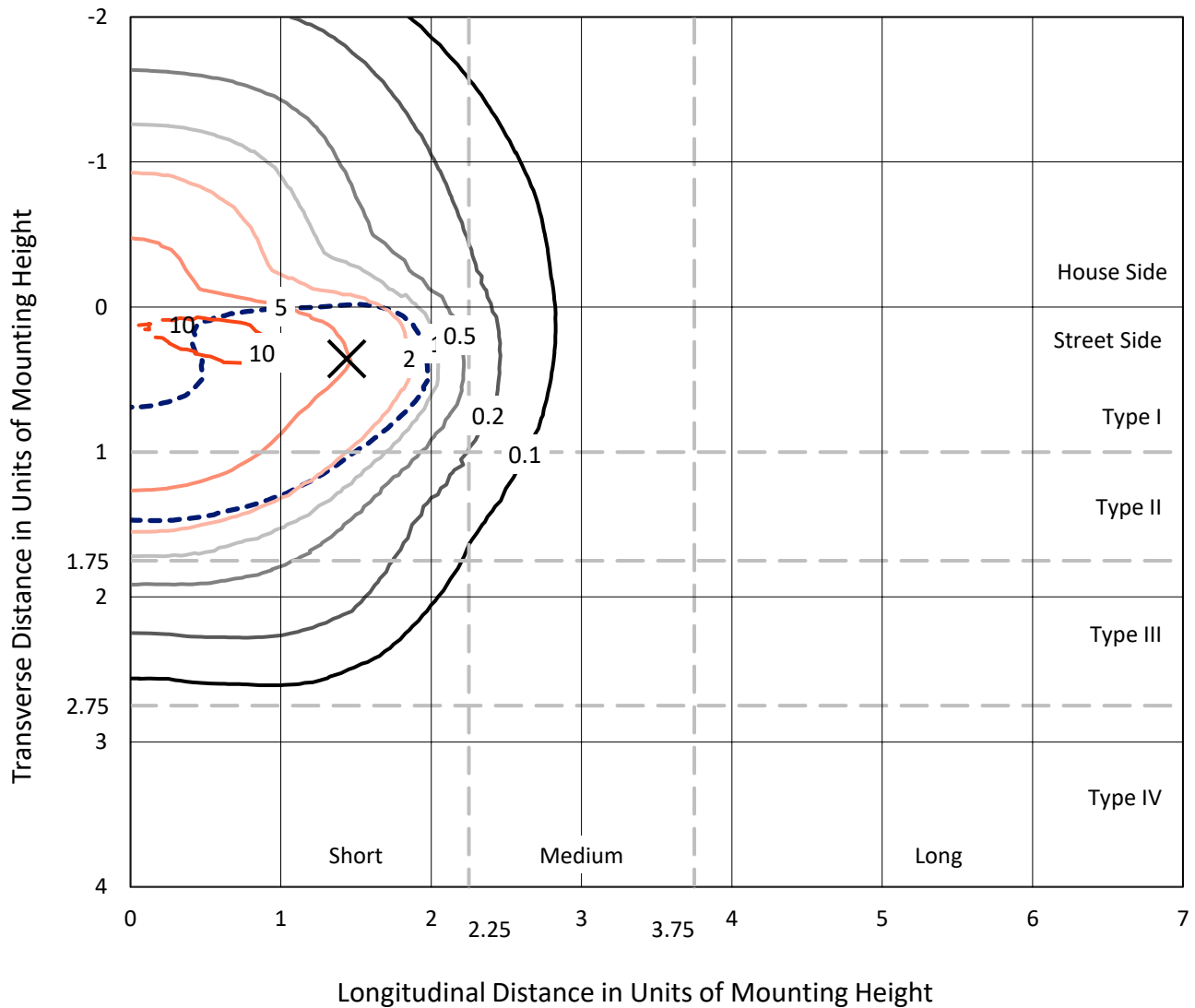


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

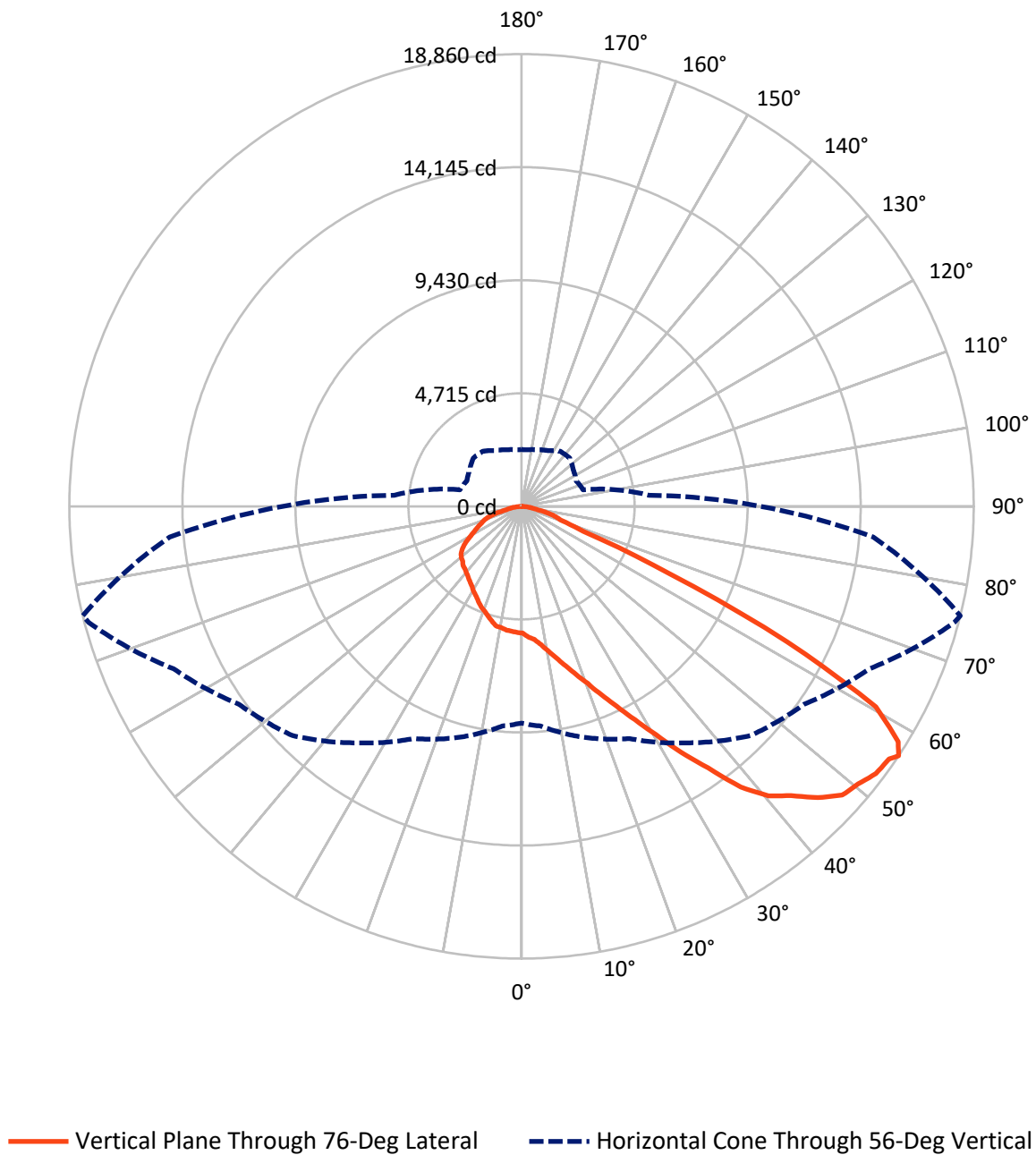


Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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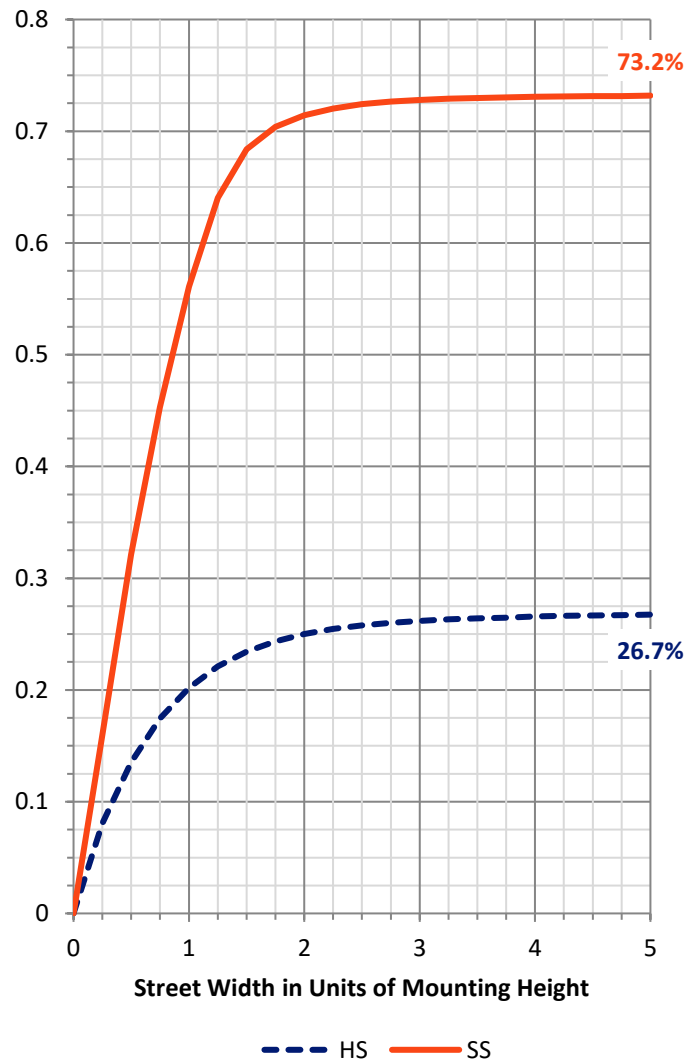
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7429.7	0.0	7429.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20203.3	0.0	20203.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	27633.0	0.0	27633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.3	1.9
10°-20°	1647.1	6.0
20°-30°	2880.6	10.4
30°-40°	4510.1	16.3
40°-50°	6560.9	23.7
50°-60°	7210.9	26.1
60°-70°	3218.6	11.6
70°-80°	929.7	3.4
80°-90°	150.8	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°	27633.0	100.0
0°-180°	27633.0	100.0

Coefficient of Utilization



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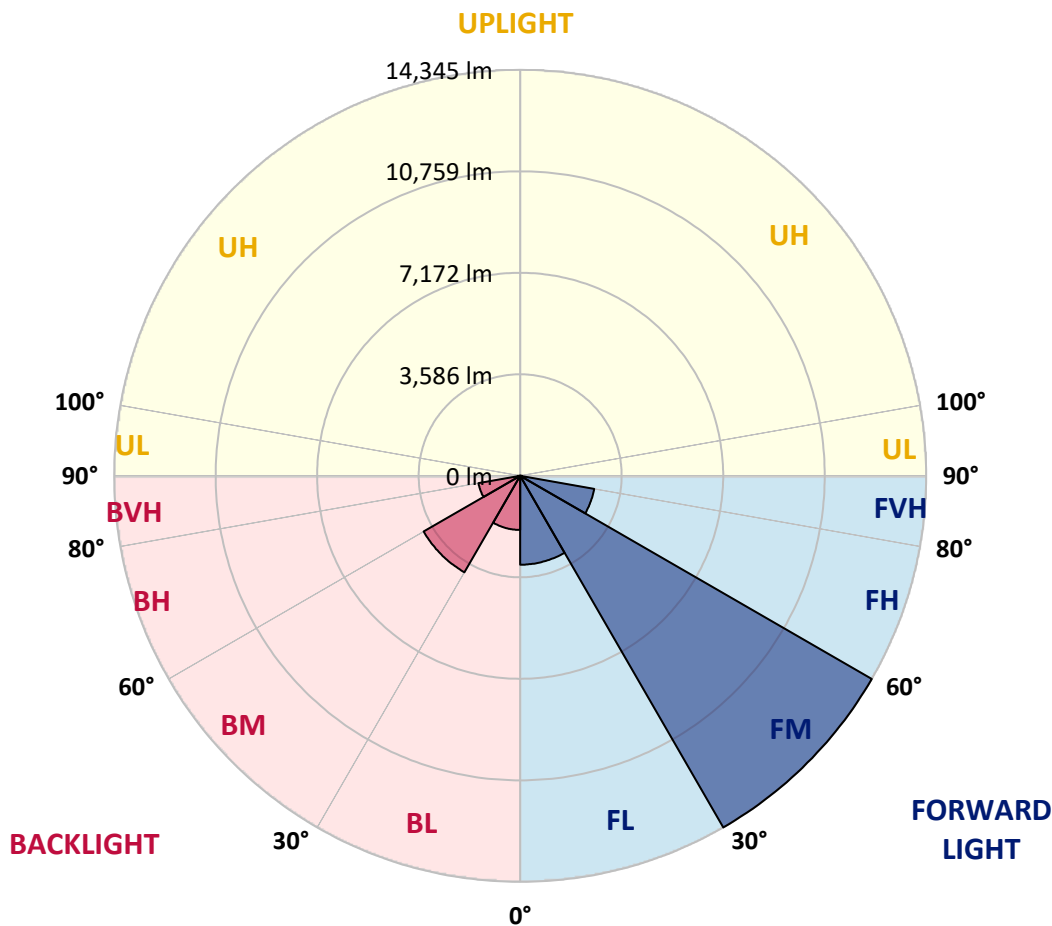
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3140.2	11.4			
FM	(30°-60°)	14344.8	51.9			
FH	(60°-80°)	2653.4	9.6			G2/5000
FVH	(80°-90°)	64.9	0.2			G1/100
BL	(0°-30°)	1911.8	6.9	B3/2500		
BM	(30°-60°)	3937.1	14.2	B3/5000		
BH	(60°-80°)	1494.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	85.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2
2.5°	5824.5	5731.4	5724.2	5699.2	5713.5	5649.0	5581.0	5491.4	5398.3	5455.6	5319.5
5°	6232.9	6107.5	6157.7	6071.7	6082.5	5996.5	5856.8	5752.9	5638.3	5570.2	5473.5
7.5°	6376.2	6386.9	6422.8	6408.4	6336.8	6336.8	6243.6	6061.0	5860.4	5821.0	5659.8
10°	6569.6	6573.2	6533.8	6544.5	6644.8	6598.3	6515.9	6437.1	6179.2	6132.6	5846.0
12.5°	6637.7	6573.2	6637.7	6695.0	6813.2	6877.7	6859.8	6802.5	6526.6	6494.4	6075.3
15°	6648.4	6609.0	6662.8	6791.7	6895.6	7167.8	7304.0	7264.6	6899.2	6902.8	6333.2
17.5°	6598.3	6652.0	6673.5	6784.5	7024.6	7278.9	7672.9	7726.6	7425.7	7379.2	6659.2
20°	6666.3	6626.9	6655.6	6755.9	7074.7	7472.3	7988.1	8342.8	7920.1	7887.8	6995.9
22.5°	6927.8	6874.1	6866.9	6931.4	7160.7	7572.6	8321.3	8958.9	8521.9	8539.8	7415.0
25°	7132.0	7160.7	7135.6	7132.0	7275.3	7723.1	8761.9	9693.2	9338.6	9234.7	7909.3
27.5°	7483.1	7551.1	7501.0	7569.0	7536.8	7948.7	9077.1	10506.4	10219.8	10080.1	8357.1
30°	7970.2	8006.1	7959.5	7959.5	7862.8	8264.0	9363.7	11355.3	11237.1	11047.3	8883.7
32.5°	8611.4	8665.2	8572.0	8518.3	8504.0	8733.2	9879.5	12193.6	12394.2	12233.0	9582.2
35°	9460.4	9428.2	9317.1	9267.0	9073.5	9453.2	10646.1	13157.2	13683.7	13397.2	10427.6
37.5°	10209.1	10158.9	10151.7	9872.3	9918.9	10230.6	11298.0	13887.9	14933.9	14851.5	11319.5
40°	10907.6	10954.1	11029.4	10871.8	10800.1	11144.0	12057.4	14446.7	15904.6	15872.4	12007.3
42.5°	11656.2	11613.3	11745.8	11613.3	11505.8	11993.0	12881.3	14833.6	16757.2	16492.1	12727.3
45°	12741.6	12605.5	12652.1	12662.8	12584.0	12763.1	13221.6	15113.0	17355.4	17326.7	13253.9
47.5°	13647.9	13651.5	13572.7	13511.8	13271.8	13450.9	13601.3	15288.5	18043.2	17996.6	13458.1
50°	13984.6	13938.1	14167.3	14299.9	14314.2	13948.8	13898.7	15385.2	18405.0	18200.8	13662.2
52.5°	12773.9	12816.9	13178.6	13966.7	14421.6	14461.0	14246.1	15585.8	18551.8	18508.9	13827.0
55°	10280.7	10488.5	11083.1	11993.0	13071.2	14256.9	14622.2	15793.6	18630.6	18594.8	14557.8
56°	9037.7	9198.9	9972.6	10685.5	12039.5	13515.4	14385.8	16015.7	18691.5	18859.9	14729.7
57.5°	7275.3	7461.6	8016.8	8826.4	10424.0	12104.0	13733.9	15743.4	18455.1	18519.6	14855.1
60°	4549.3	4567.2	5233.5	5767.2	6892.0	8532.6	10481.3	13698.1	17079.6	16986.4	13343.4
62.5°	2983.9	2987.5	3592.9	4029.9	4542.1	4918.3	6168.4	9084.3	12601.9	12437.1	9499.8
65°	2095.5	2142.1	2611.4	3195.3	3403.0	3206.0	3166.6	4789.3	7038.9	6802.5	5104.5
67.5°	1533.2	1536.7	1952.3	2579.1	2880.0	2439.4	1980.9	2339.1	2786.9	2779.7	2364.2
70°	1013.7	1056.7	1375.5	1927.2	2271.1	1959.4	1619.1	1672.9	1773.2	1773.2	1758.8
72.5°	591.1	630.5	841.8	1221.5	1275.2	1225.1	1282.4	1432.9	1497.3	1493.7	1475.8
75°	336.7	354.6	401.2	508.7	634.0	748.7	942.1	1085.4	1149.9	1189.3	1142.7
77.5°	197.0	207.8	236.4	290.2	329.6	404.8	512.2	612.5	698.5	687.8	694.9
80°	103.9	103.9	132.5	171.9	229.3	286.6	340.3	397.6	444.2	454.9	465.7
82.5°	60.9	64.5	86.0	125.4	164.8	204.2	261.5	300.9	343.9	347.5	354.6
85°	32.2	35.8	53.7	82.4	111.0	125.4	129.0	121.8	132.5	125.4	143.3
87.5°	10.7	10.7	17.9	14.3	14.3	17.9	21.5	21.5	28.7	28.7	28.7
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°	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2	5287.2
2.5°	5315.9	5315.9	5255.0	5140.4	5122.4	5075.9	5032.9	5029.3	4997.1	4968.4	4954.1
5°	5416.2	5305.1	5215.6	5111.7	4989.9	4932.6	4868.1	4796.5	4767.8	4796.5	4792.9
7.5°	5530.8	5437.7	5169.0	4975.6	4835.9	4778.6	4706.9	4631.7	4638.9	4638.9	4588.7
10°	5641.9	5516.5	5086.6	4839.5	4635.3	4592.3	4552.9	4581.5	4617.4	4624.5	4592.3
12.5°	5828.1	5545.1	5047.2	4703.3	4574.4	4481.2	4506.3	4585.1	4660.3	4638.9	4663.9
15°	5967.8	5570.2	4868.1	4563.6	4402.4	4445.4	4535.0	4588.7	4714.1	4699.8	4724.8
17.5°	6103.9	5584.5	4692.6	4377.4	4309.3	4427.5	4495.6	4649.6	4689.0	4775.0	4807.2
20°	6383.4	5613.2	4513.5	4262.7	4241.2	4377.4	4495.6	4567.2	4653.2	4728.4	4728.4
22.5°	6526.6	5598.9	4395.3	4112.3	4180.3	4266.3	4373.8	4495.6	4495.6	4567.2	4570.8
25°	6705.7	5541.6	4209.0	4040.6	4090.8	4173.2	4295.0	4252.0	4298.6	4298.6	4355.9
27.5°	6909.9	5419.8	4047.8	3911.7	4012.0	4101.5	4119.4	4090.8	4037.1	4029.9	4008.4
30°	7074.7	5269.3	3929.6	3868.7	3951.1	4001.2	3943.9	3883.0	3789.9	3782.7	3732.6
32.5°	7300.4	5083.0	3782.7	3761.2	3854.4	3858.0	3840.0	3746.9	3610.8	3553.5	3496.2
35°	7680.1	4975.6	3671.7	3703.9	3732.6	3721.8	3689.6	3589.3	3453.2	3428.1	3406.6
37.5°	7959.5	4896.8	3557.1	3596.5	3621.5	3635.9	3539.1	3428.1	3431.7	3381.5	3367.2
40°	8274.7	4846.6	3463.9	3481.8	3485.4	3532.0	3413.8	3360.0	3385.1	3352.9	3374.4
42.5°	8679.5	4860.9	3367.2	3352.9	3420.9	3403.0	3345.7	3274.1	3288.4	3191.7	3206.0
45°	8894.4	4957.7	3309.9	3245.4	3320.6	3317.0	3241.8	3173.8	3087.8	2901.5	2908.7
47.5°	9037.7	4982.7	3173.8	3130.8	3209.6	3256.2	3170.2	3012.6	2890.8	2758.2	2726.0
50°	9184.6	5029.3	3109.3	3019.7	3052.0	3163.0	3055.6	2905.1	2786.9	2668.7	2686.6
52.5°	9313.5	5118.9	2983.9	2851.4	2908.7	3030.5	2973.2	2790.5	2661.5	2564.8	2536.1
55°	9886.7	5319.5	2772.6	2600.6	2736.7	2890.8	2858.5	2636.4	2496.7	2446.6	2439.4
56°	9976.2	5326.6	2661.5	2514.7	2640.0	2844.2	2804.8	2568.4	2443.0	2364.2	2367.8
57.5°	9990.6	5240.7	2503.9	2435.8	2543.3	2776.1	2726.0	2514.7	2342.7	2271.1	2249.6
60°	8790.5	4090.8	2306.9	2263.9	2389.3	2568.4	2550.5	2367.8	2174.4	2092.0	2131.4
62.5°	5992.9	2998.2	2152.9	2145.7	2210.2	2385.7	2339.1	2174.4	2013.2	1959.4	1934.3
65°	3489.0	2274.7	2002.4	1973.8	2027.5	2120.6	2152.9	1980.9	1812.6	1776.7	1766.0
67.5°	2059.7	1880.6	1809.0	1762.4	1744.5	1801.8	1826.9	1726.6	1558.2	1508.1	1551.1
70°	1723.0	1672.9	1676.4	1597.6	1554.6	1515.2	1493.7	1404.2	1264.5	1200.0	1182.1
72.5°	1486.6	1465.1	1450.8	1379.1	1339.7	1250.2	1157.0	1067.5	963.6	909.9	913.4
75°	1135.5	1128.4	1135.5	1099.7	1031.7	960.0	874.0	759.4	680.6	612.5	626.9
77.5°	677.0	698.5	709.3	694.9	666.3	601.8	548.1	472.8	397.6	343.9	336.7
80°	465.7	483.6	501.5	483.6	454.9	408.4	351.0	293.7	240.0	211.3	204.2
82.5°	354.6	372.5	383.3	365.4	329.6	279.4	240.0	200.6	157.6	129.0	121.8
85°	129.0	146.9	143.3	171.9	186.3	179.1	154.0	118.2	89.6	64.5	60.9
87.5°	35.8	32.2	35.8	35.8	35.8	32.2	28.7	28.7	28.7	17.9	14.3
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)