

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: P533720

Luminaire Tested: **GALN-SA9A-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27871 lumens
Efficiency: N/A
Efficacy: 101.7 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



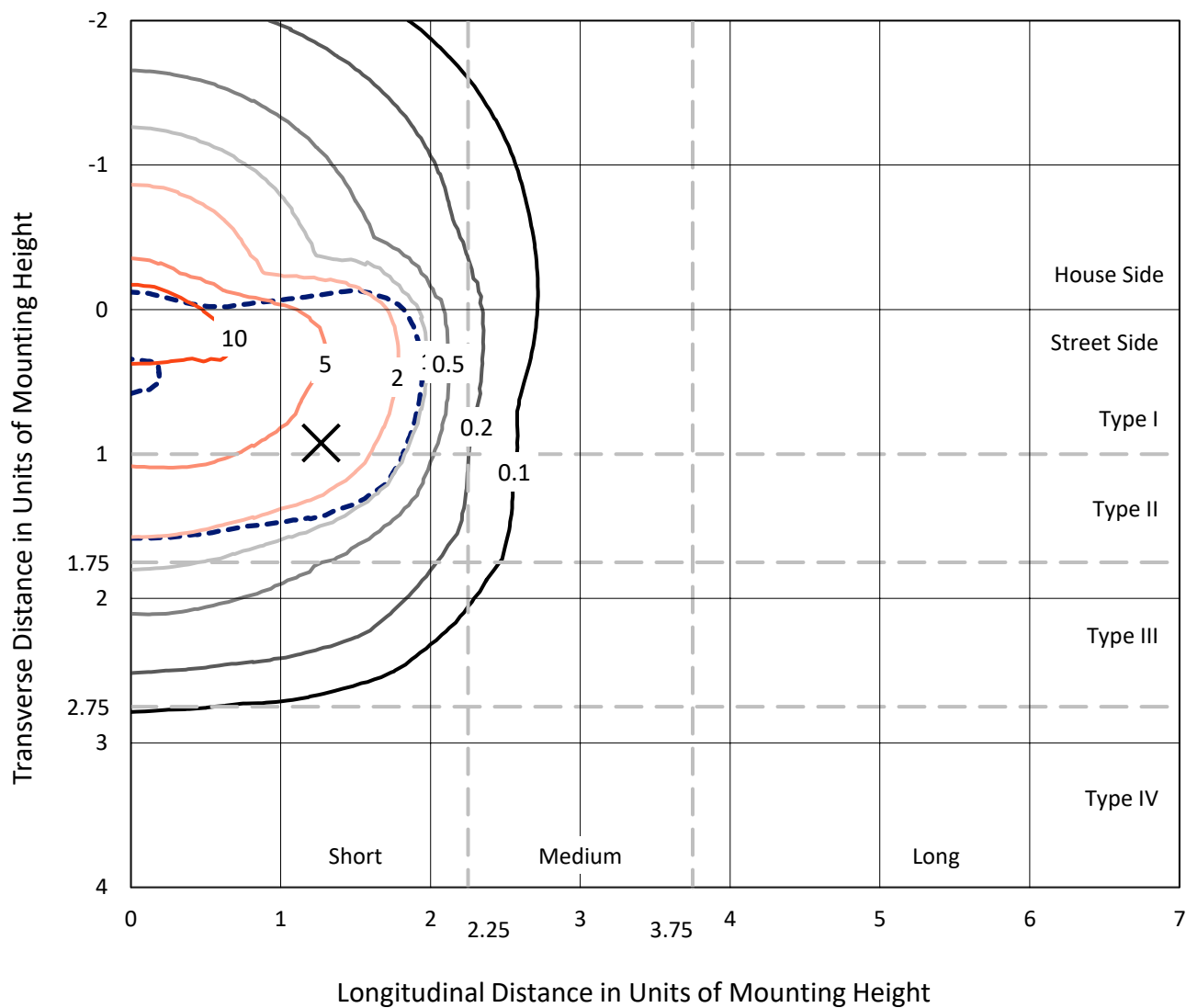
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

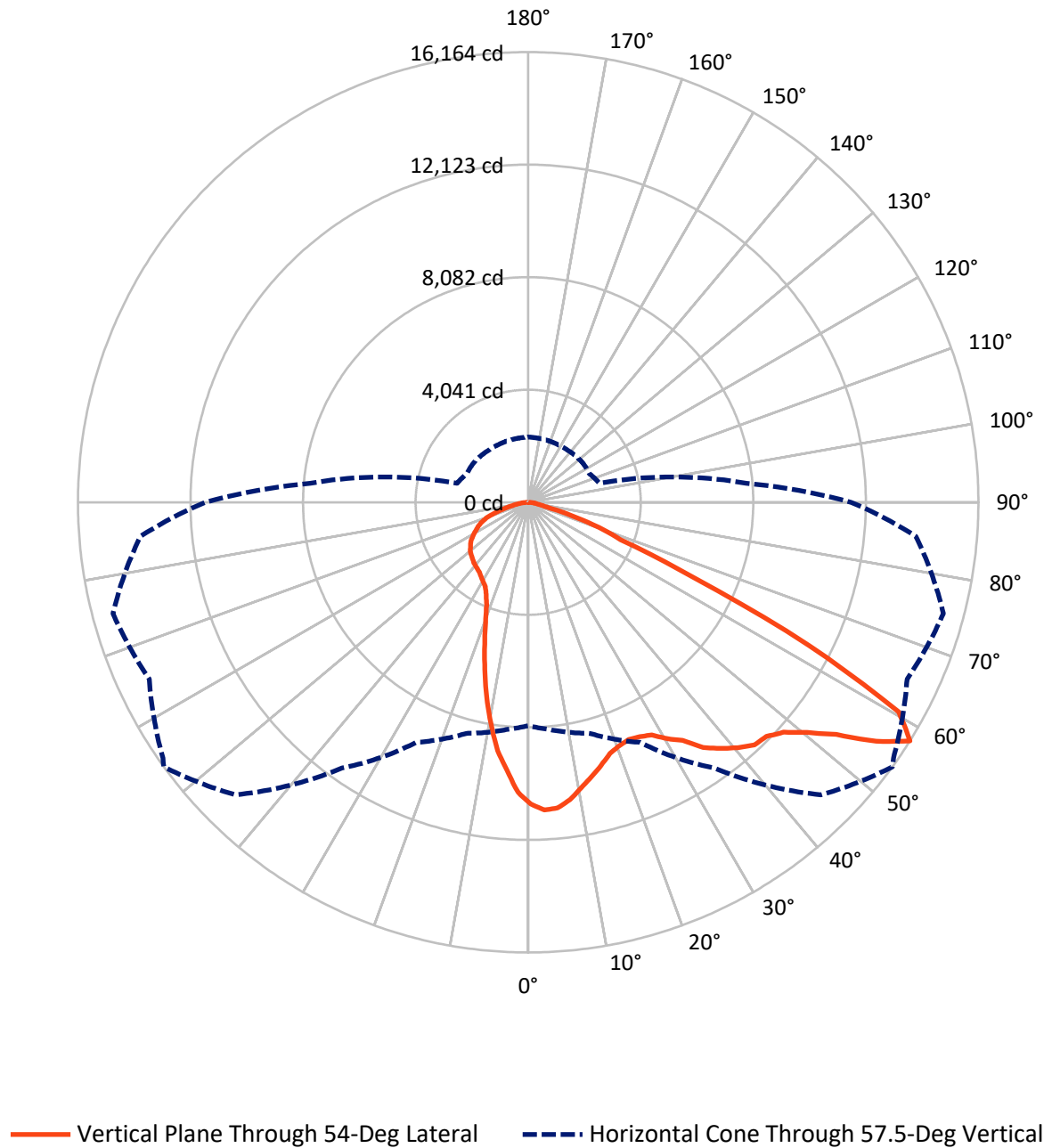


Based on 25 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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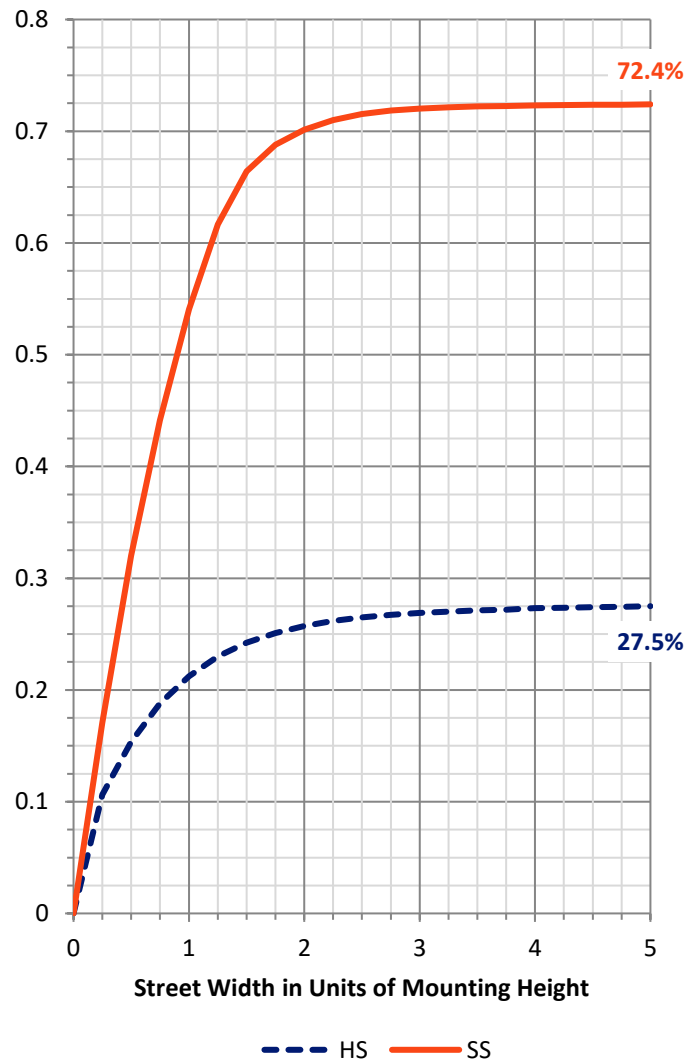
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7710.7	0.0	7710.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	20160.3	0.0	20160.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	27871.0	0.0	27871.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	934.3	3.4
10°-20°	2163.1	7.8
20°-30°	3039.2	10.9
30°-40°	4248.9	15.2
40°-50°	5752.2	20.6
50°-60°	7006.4	25.1
60°-70°	3649.2	13.1
70°-80°	935.1	3.4
80°-90°	142.6	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°	27871.0	100.0
0°-180°	27871.0	100.0

Coefficient of Utilization



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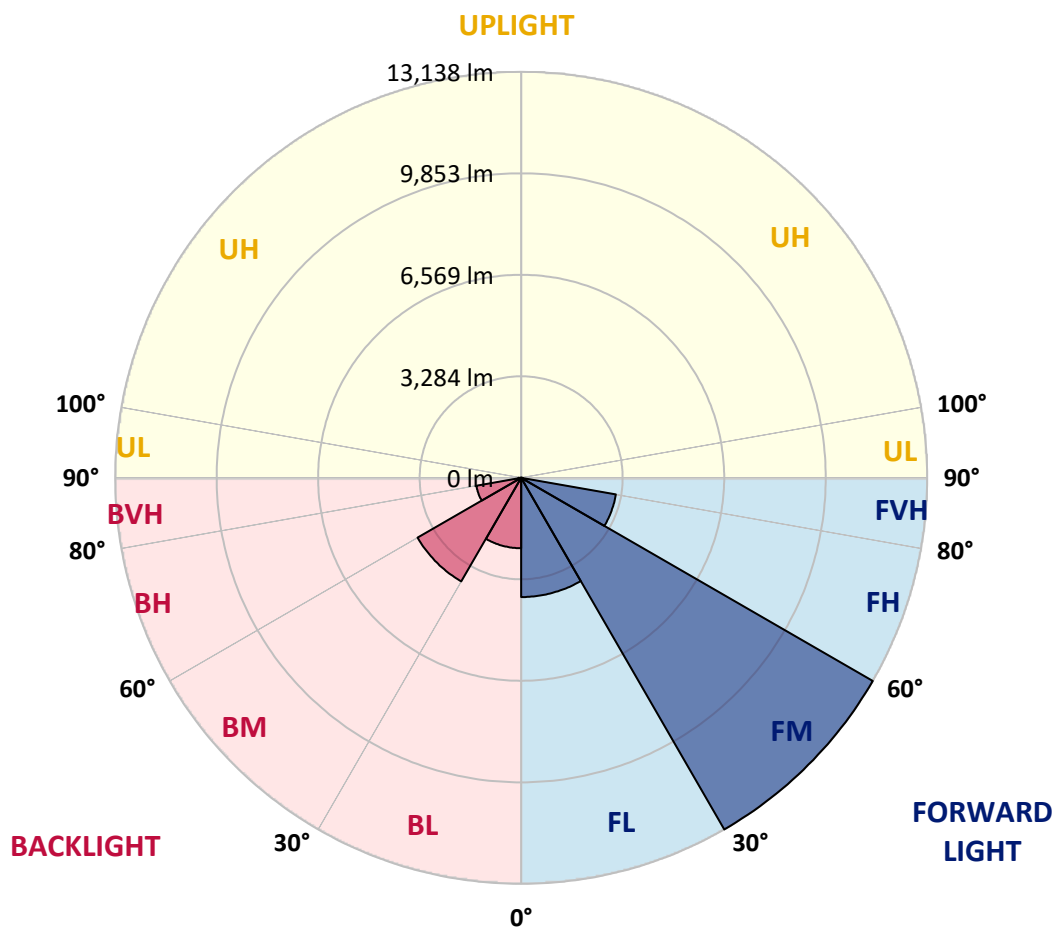
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3857.7	13.8			
FM	(30°-60°)	13137.5	47.1			
FH	(60°-80°)	3111.2	11.2			G2/5000
FVH	(80°-90°)	53.9	0.2			G1/100
BL	(0°-30°)	2278.9	8.2	B3/2500		
BM	(30°-60°)	3869.9	13.9	B3/5000		
BH	(60°-80°)	1473.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	88.7	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°	54°	55°	65°	75°	85°
0°	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1
2.5°	11141.2	11098.2	11105.4	11162.7	11091.1	11062.4	11062.4	10922.7	10933.4	10836.7	10811.6
5°	10883.3	10783.0	10851.1	10937.0	10951.4	10980.0	11026.6	10990.8	10890.5	10786.6	10618.2
7.5°	10209.8	10299.4	10324.4	10385.3	10514.3	10632.5	10779.4	10679.1	10675.5	10571.6	10471.3
10°	9618.7	9565.0	9701.1	9790.7	10005.6	10202.6	10428.3	10417.6	10471.3	10353.1	10181.1
12.5°	9031.2	8988.2	9052.7	9256.9	9557.8	9844.4	10113.1	10012.8	10299.4	10277.9	9908.9
15°	8407.9	8440.1	8533.2	8723.1	9117.2	9461.1	9801.4	9805.0	10059.3	10145.3	9651.0
17.5°	7970.8	7935.0	8053.2	8336.2	8687.3	9099.3	9486.2	9565.0	9955.5	10005.6	9572.1
20°	7644.8	7695.0	7849.0	7992.3	8397.1	8895.1	9332.1	9360.8	9934.0	10070.1	9446.8
22.5°	7566.0	7537.3	7587.5	7820.4	8153.5	8694.5	9249.7	9357.2	9930.4	10048.6	9210.3
25°	7483.6	7576.7	7573.2	7806.0	8049.6	8533.2	9317.8	9436.0	10120.2	10159.6	9242.6
27.5°	7669.9	7659.1	7759.5	7777.4	8078.3	8576.2	9461.1	9550.6	10435.5	10403.3	9267.6
30°	7856.2	7802.4	7863.3	8074.7	8214.4	8823.4	9855.1	9848.0	10843.9	10822.4	9346.4
32.5°	8085.4	8060.4	8099.8	8286.1	8522.5	9153.0	10188.3	10399.7	11259.4	11395.6	9618.7
35°	8128.4	8232.3	8325.5	8576.2	8913.0	9686.8	10815.2	10990.8	11739.5	12165.8	10138.2
37.5°	8400.7	8440.1	8658.6	9102.8	9410.9	10399.7	11212.9	11323.9	12176.5	12660.2	10686.3
40°	8690.9	8737.4	9067.0	9532.7	9955.5	10865.4	11585.4	11621.3	12316.2	13039.9	11044.5
42.5°	9084.9	9127.9	9453.9	10037.8	10603.9	11263.0	11915.0	11954.4	12305.5	13476.9	11614.1
45°	9493.3	9597.2	9980.5	10643.3	11152.0	11728.7	11990.2	12151.5	12405.8	13867.4	12076.2
47.5°	10066.5	10163.2	10478.5	11126.9	11721.6	12137.1	12337.7	12495.4	12645.8	14207.7	12373.6
50°	10675.5	10693.4	11076.7	11664.3	12101.3	12599.3	12986.2	13039.9	12961.1	14601.8	12878.7
52.5°	11123.3	11180.6	11478.0	12051.2	12703.1	13315.7	13845.9	13903.2	13749.2	14748.7	13050.6
55°	10381.8	10349.5	10833.1	11596.2	13108.0	14383.3	15153.5	15196.5	14322.4	15203.7	13613.1
57.5°	8024.5	8178.6	8590.6	9511.2	11646.3	14856.2	16163.7	16009.7	15010.2	15432.9	13971.3
60°	5832.1	5796.3	6072.1	6688.3	8776.8	12803.5	15282.5	15440.1	14447.8	13910.4	11521.0
62.5°	4750.2	4700.1	4721.6	4743.1	5663.8	8497.4	11313.2	11309.6	11126.9	9998.4	7770.2
65°	3797.3	3915.5	3926.3	4087.5	4205.7	5076.2	6555.8	6906.8	6014.8	4932.9	3578.8
67.5°	2862.3	2819.3	2962.6	3535.8	3757.9	3664.8	3578.8	3618.2	2572.2	1855.7	1748.2
70°	1687.3	1669.4	1841.3	2464.7	3095.2	2912.5	2697.5	2701.1	1766.1	1296.8	1443.7
72.5°	924.3	920.7	956.5	1250.3	1759.0	1827.0	1619.2	1669.4	1053.2	1049.6	1128.5
75°	515.9	505.1	494.4	551.7	634.1	669.9	684.2	691.4	723.6	809.6	841.9
77.5°	189.9	182.7	182.7	211.4	268.7	336.7	426.3	433.5	512.3	587.5	619.8
80°	64.5	71.6	96.7	132.5	179.1	240.0	290.2	297.3	361.8	412.0	422.7
82.5°	39.4	43.0	64.5	93.1	129.0	168.4	214.9	218.5	268.7	300.9	315.3
85°	17.9	21.5	35.8	57.3	82.4	111.1	114.6	114.6	111.1	114.6	107.5
87.5°	0.0	0.0	7.2	7.2	7.2	10.7	14.3	10.7	17.9	21.5	21.5
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°	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1	10833.1
2.5°	10736.4	10697.0	10575.2	10467.7	10435.5	10292.2	10080.8	10105.9	9951.9	10023.5	9948.3
5°	10589.5	10457.0	10145.3	10012.8	9665.3	9507.7	9400.2	9131.5	9006.1	8981.0	8873.6
7.5°	10213.4	10131.0	9740.5	9382.3	9013.3	8698.0	8293.2	8017.4	7820.4	7766.6	7609.0
10°	9916.0	9733.3	9192.4	8647.9	8121.3	7573.2	7046.6	6634.6	6434.0	6201.1	6122.3
12.5°	9622.3	9346.4	8615.6	7917.1	7236.4	6545.0	5907.4	5405.8	4968.8	4864.9	4829.1
15°	9439.6	8959.6	8099.8	7257.9	6290.7	5387.9	4750.2	4420.7	4152.0	4040.9	4119.7
17.5°	9199.6	8640.7	7605.4	6484.1	5420.2	4589.0	4055.3	3851.1	3754.3	3765.1	3732.8
20°	8898.6	8339.8	6957.0	5782.0	4642.8	3980.0	3675.5	3600.3	3614.6	3639.7	3629.0
22.5°	8683.7	7974.4	6487.7	5065.5	4012.3	3643.3	3517.9	3464.2	3510.7	3532.2	3514.3
25°	8518.9	7662.7	5918.1	4431.4	3646.9	3453.4	3396.1	3392.5	3464.2	3492.8	3474.9
27.5°	8368.5	7372.6	5352.1	3947.8	3403.3	3306.5	3288.6	3331.6	3378.2	3406.9	3431.9
30°	8278.9	7150.4	4821.9	3543.0	3281.5	3234.9	3202.7	3242.1	3267.1	3295.8	3281.5
32.5°	8364.9	6992.8	4309.6	3313.7	3181.2	3134.6	3177.6	3152.5	3195.5	3220.6	3181.2
35°	8633.6	6853.1	3944.2	3191.9	3066.5	3084.4	3091.6	3080.9	3098.8	3077.3	3123.8
37.5°	8898.6	6803.0	3607.5	3088.0	3012.8	3012.8	3005.6	2984.1	3020.0	3012.8	3034.3
40°	9235.4	6835.2	3320.9	2977.0	2962.6	2955.5	2926.8	2923.2	2908.9	2912.5	2919.6
42.5°	9529.1	6906.8	3156.1	2905.3	2916.1	2930.4	2876.7	2833.7	2851.6	2815.8	2815.8
45°	9840.8	6971.3	3009.2	2855.2	2844.4	2840.8	2797.8	2772.8	2758.4	2762.0	2794.3
47.5°	10331.6	7064.5	2898.2	2787.1	2794.3	2740.5	2729.8	2697.5	2711.9	2733.4	2736.9
50°	10679.1	7261.5	2812.2	2708.3	2733.4	2697.5	2633.1	2618.7	2618.7	2654.5	2647.4
52.5°	10922.7	7537.3	2729.8	2622.3	2633.1	2604.4	2582.9	2550.7	2529.2	2579.3	2604.4
55°	11667.8	7995.9	2708.3	2550.7	2547.1	2518.4	2479.0	2446.8	2436.0	2443.2	2493.3
57.5°	11596.2	7852.6	2640.2	2425.3	2418.1	2378.7	2339.3	2328.6	2325.0	2332.1	2346.5
60°	9414.5	5799.9	2357.2	2282.0	2271.2	2264.1	2224.7	2181.7	2160.2	2181.7	2163.8
62.5°	6229.8	3883.3	2077.8	2110.0	2117.2	2099.3	2034.8	1991.8	1999.0	2024.0	1984.6
65°	3059.4	2282.0	1884.3	1970.3	1977.5	1927.3	1866.4	1816.3	1791.2	1812.7	1794.8
67.5°	1748.2	1744.6	1726.7	1816.3	1812.7	1762.5	1665.8	1622.8	1579.8	1587.0	1576.3
70°	1483.1	1511.8	1547.6	1601.3	1597.7	1540.4	1425.8	1393.5	1332.6	1325.5	1307.6
72.5°	1167.9	1218.0	1296.8	1336.2	1304.0	1232.3	1157.1	1103.4	1049.6	1017.4	1028.1
75°	866.9	938.6	981.6	1006.7	956.5	917.1	856.2	791.7	727.2	698.6	687.8
77.5°	630.5	652.0	691.4	709.3	677.1	637.7	601.8	537.4	476.5	437.1	426.3
80°	440.6	455.0	483.6	483.6	483.6	465.7	419.1	354.7	315.3	279.4	272.3
82.5°	308.1	322.4	351.1	336.7	333.2	311.7	283.0	232.9	189.9	164.8	157.6
85°	107.5	118.2	143.3	172.0	182.7	179.1	161.2	129.0	100.3	82.4	75.2
87.5°	25.1	25.1	28.7	25.1	25.1	28.7	25.1	25.1	25.1	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)