

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: P531436

Luminaire Tested: **GALN-SA6D-727-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28572 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

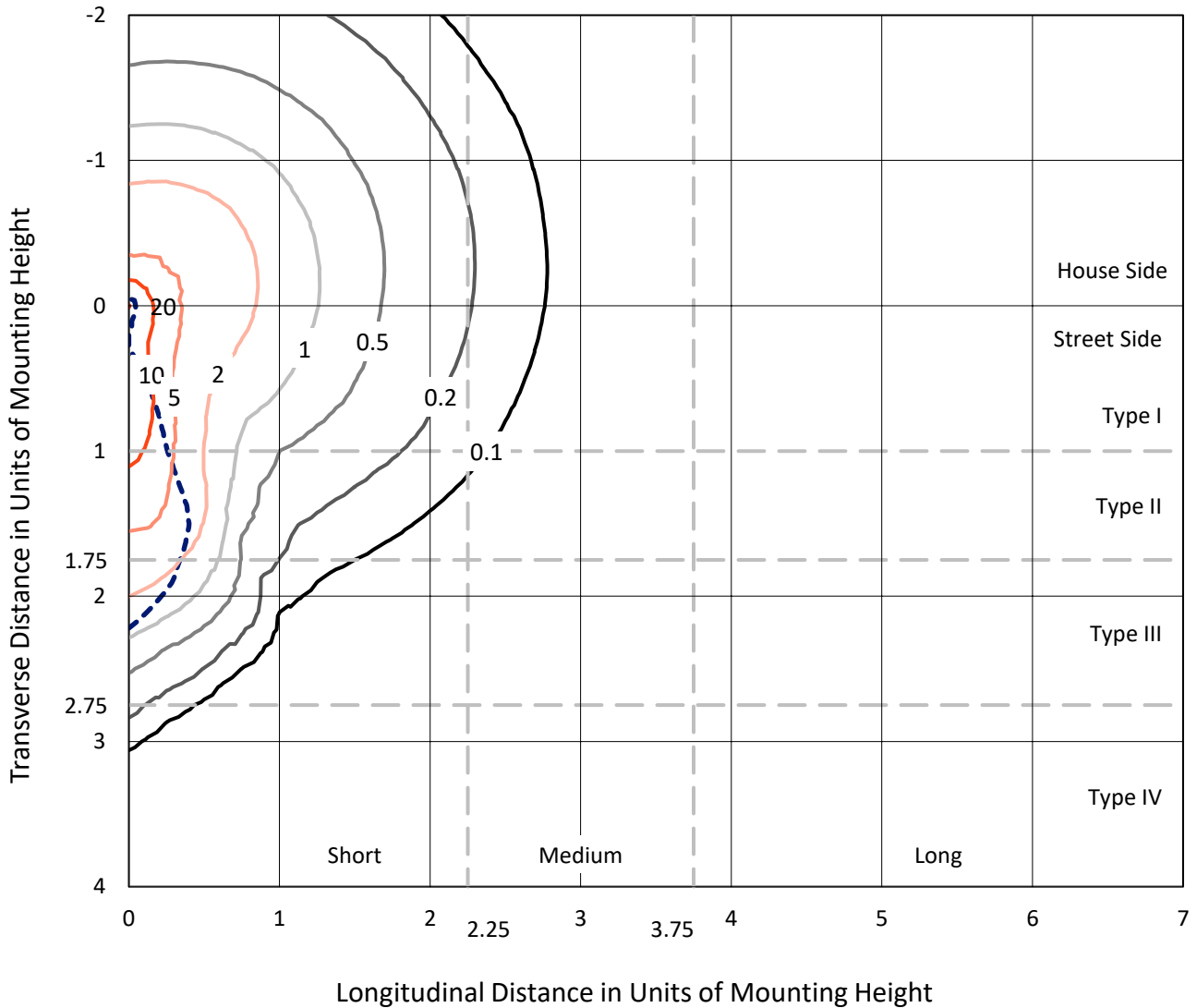
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

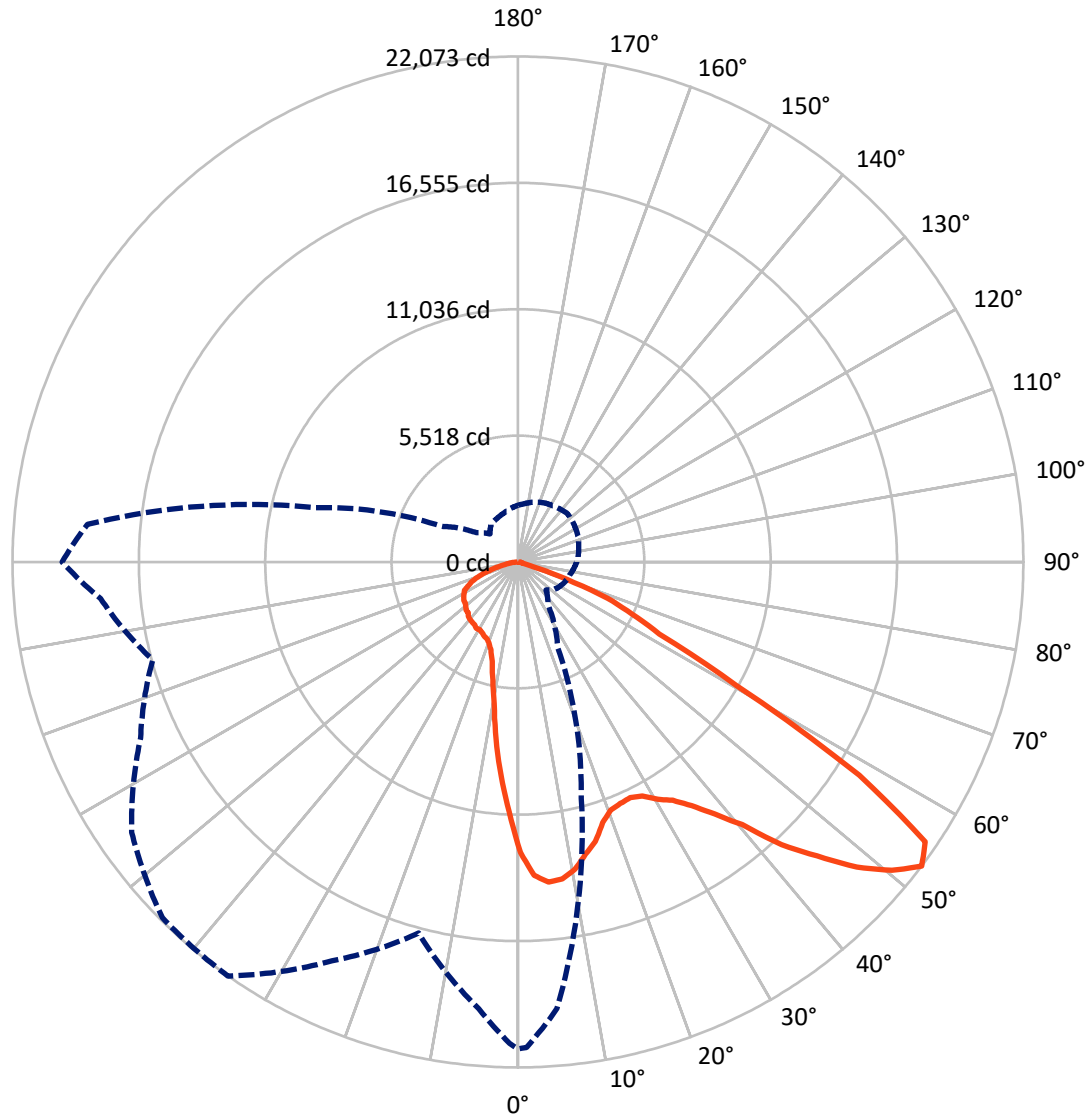
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8613.3	0.0	8613.3
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	19958.7	0.0	19958.7
	% Fixture	69.9	0.0	69.9
Total	Lumens	28572.0	0.0	28572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	967.4	3.4
10°-20°	2097.2	7.3
20°-30°	3168.7	11.1
30°-40°	4578.9	16.0
40°-50°	6093.7	21.3
50°-60°	6815.9	23.9
60°-70°	3841.4	13.4
70°-80°	856.3	3.0
80°-90°	152.5	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°	28572.0	100.0
0°-180°	28572.0	100.0

Coefficient of Utilization

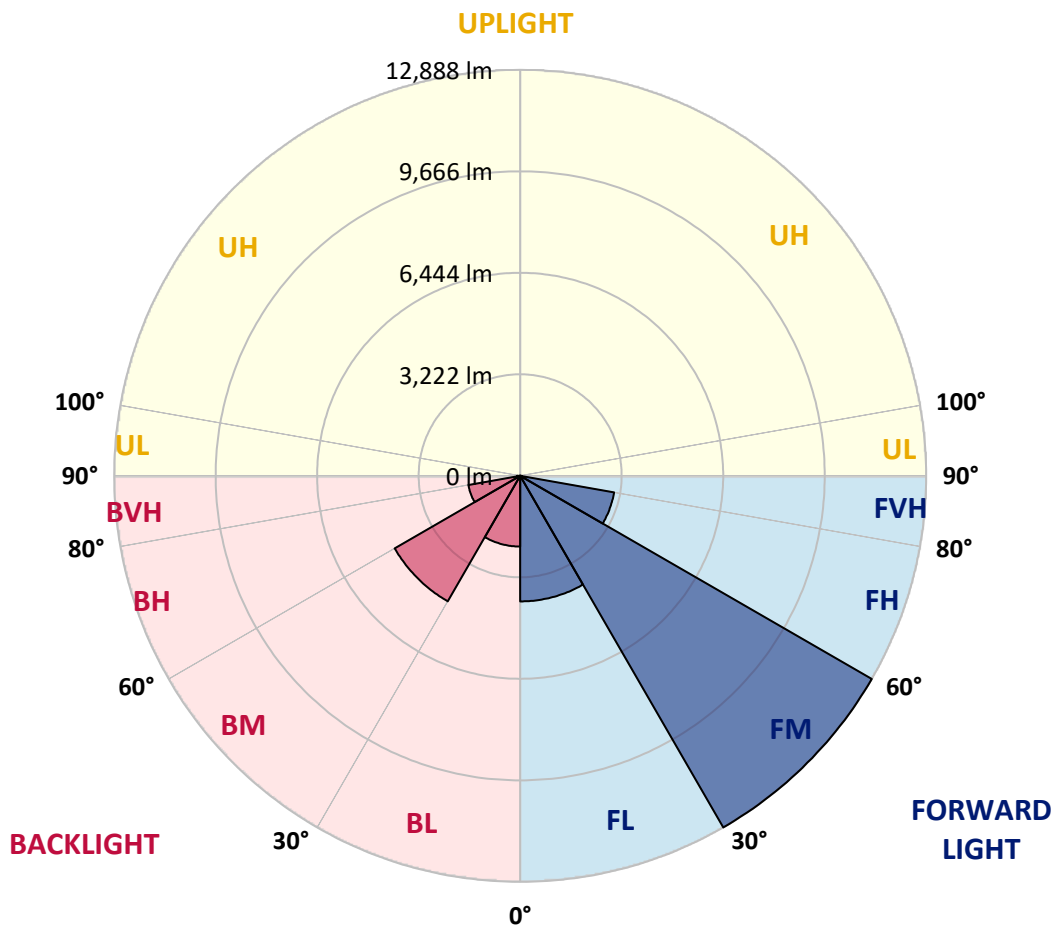


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3987.2	14.0			
FM (30°-60°)	12888.2	45.1			
FH (60°-80°)	3028.2	10.6			G2/5000
FVH (80°-90°)	55.2	0.2			G1/100
BL (0°-30°)	2246.1	7.9	B3/2500		
BM (30°-60°)	4600.3	16.1	B3/5000		
BH (60°-80°)	1669.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	97.3	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4
2.5°	12891.6	13098.7	12875.1	12477.5	12195.9	11939.2	11670.0	11616.1	11264.1	11202.0	10945.3
5°	12158.6	12113.1	11839.8	11318.0	10742.3	10220.5	9835.4	9462.7	9210.1	8916.1	8895.4
7.5°	11268.3	11003.2	10845.9	10054.9	9342.6	8522.6	8170.6	7603.3	7425.2	7160.2	7023.5
10°	10473.2	10278.5	9910.0	9119.0	8125.1	7582.6	7205.7	6899.3	6692.2	6418.9	6075.2
12.5°	10079.7	10001.1	9586.9	8361.1	7624.0	7044.2	6779.2	6481.0	6129.0	5690.0	5520.3
15°	10150.1	9885.1	9570.4	8216.2	7197.4	6638.4	6216.0	5843.3	5391.9	4973.6	4729.3
17.5°	10676.1	10473.2	9843.7	8307.3	7035.9	6228.4	5462.3	4911.5	4505.7	4128.8	3959.0
20°	11711.4	11417.4	10709.2	8423.3	6688.1	5656.9	4779.0	4099.8	3665.0	3466.2	3408.2
22.5°	12858.5	12684.6	11554.0	8684.1	6410.6	5126.8	4054.3	3375.1	3213.6	3159.8	3267.4
25°	14254.1	13802.7	12866.8	9110.7	6195.3	4675.4	3441.4	3064.5	2981.7	3035.5	3159.8
27.5°	15314.2	15194.2	13786.1	9512.4	5901.2	4132.9	3097.6	2849.2	2874.0	2927.8	3043.8
30°	16573.2	15964.4	14676.5	9789.9	5636.2	3760.2	2857.4	2791.2	2816.0	2907.1	2965.1
32.5°	17331.0	17103.3	15235.6	10208.1	5329.8	3437.2	2671.1	2609.0	2646.2	2782.9	2919.6
35°	18295.9	17844.5	15927.1	10315.8	5114.4	3308.8	2538.6	2493.0	2580.0	2675.2	2828.5
37.5°	19422.3	19111.8	16883.8	10241.2	4998.5	3176.3	2426.8	2406.1	2468.2	2600.7	2778.8
40°	20089.1	19993.8	17384.9	10286.8	4816.2	3060.4	2298.4	2323.2	2451.6	2555.1	2729.1
42.5°	20731.0	20109.8	18126.1	10270.2	4700.3	2903.0	2310.8	2281.8	2381.2	2501.3	2666.9
45°	20871.8	20254.7	18300.1	10154.3	4559.5	2749.8	2215.6	2228.0	2348.1	2497.2	2604.8
47.5°	20780.7	20325.1	18623.1	10121.2	4427.0	2642.1	2074.8	2223.8	2294.2	2414.3	2567.6
50°	20718.5	20693.7	18896.4	10278.5	4248.9	2472.3	1905.0	2170.0	2240.4	2360.5	2526.1
52.5°	21265.2	21211.4	19579.7	10692.6	4108.1	2290.1	1731.0	2033.3	2203.1	2319.1	2480.6
55°	21596.5	21360.4	20751.7	11202.0	3872.0	2049.9	1610.9	1863.6	2112.0	2215.6	2381.2
57.5°	19426.5	19265.0	18772.2	10456.6	3474.5	1735.2	1461.9	1689.6	1987.8	2149.3	2319.1
60°	16163.2	15910.6	14647.5	8887.1	2563.4	1350.0	1370.7	1553.0	1954.7	2016.8	2215.6
62.5°	15239.7	14614.4	12895.8	7151.9	1967.1	1159.5	1229.9	1428.7	1780.7	1884.3	2083.0
65°	12092.4	11628.6	9226.6	5164.1	1316.9	1006.3	1122.3	1287.9	1536.4	1739.3	1921.5
67.5°	7570.2	7127.0	4923.9	2443.3	919.4	861.4	1002.2	1176.1	1379.0	1561.2	1764.2
70°	3954.9	3470.3	2273.5	882.1	633.6	704.0	836.5	1002.2	1201.0	1350.0	1507.4
72.5°	1474.3	1196.8	741.3	381.0	439.0	538.4	679.2	799.3	940.1	1122.3	1209.2
75°	227.8	194.6	190.5	231.9	298.2	389.3	484.5	604.6	728.9	844.8	902.8
77.5°	107.7	103.5	116.0	153.2	198.8	277.5	352.0	468.0	567.3	641.9	675.0
80°	70.4	66.3	74.5	103.5	149.1	207.1	281.6	360.3	451.4	513.5	505.2
82.5°	41.4	45.6	45.6	70.4	103.5	149.1	202.9	273.3	335.4	389.3	356.1
85°	24.8	20.7	20.7	41.4	70.4	120.1	169.8	116.0	120.1	120.1	136.7
87.5°	8.3	8.3	8.3	4.1	8.3	8.3	12.4	20.7	24.8	29.0	37.3
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°	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4
2.5°	10937.0	11065.4	11019.8	10858.3	10982.5	11003.2	10920.4	11206.2	11260.0	11173.0	11197.9
5°	8866.4	8899.5	8974.0	9131.4	9243.2	9375.7	9375.7	9384.0	9272.2	9553.8	9471.0
7.5°	6907.6	6928.3	7015.2	7350.7	7445.9	7698.5	7806.2	7731.7	7508.0	7412.8	7491.5
10°	5963.4	5843.3	5814.3	5855.7	6071.0	6178.7	6269.8	6245.0	6207.7	6133.2	6050.3
12.5°	5333.9	5246.9	5176.5	5077.1	5089.6	5193.1	5263.5	5205.5	5222.1	5238.6	5263.5
15°	4650.6	4588.5	4551.2	4402.1	4385.6	4456.0	4480.8	4513.9	4576.1	4580.2	4551.2
17.5°	3925.9	3872.0	3954.9	4037.7	3979.7	3983.9	4029.4	4058.4	4041.8	3967.3	3930.0
20°	3428.9	3486.9	3569.7	3648.4	3710.5	3747.8	3764.4	3718.8	3665.0	3511.8	3507.6
22.5°	3284.0	3358.5	3428.9	3549.0	3607.0	3702.3	3615.3	3511.8	3437.2	3362.7	3275.7
25°	3176.3	3238.4	3379.2	3424.8	3536.6	3615.3	3553.2	3449.6	3321.3	3213.6	3147.3
27.5°	3097.6	3168.0	3259.1	3383.4	3470.3	3515.9	3453.8	3412.4	3279.8	3151.5	3056.2
30°	3047.9	3122.5	3288.1	3391.7	3466.2	3503.5	3395.8	3346.1	3250.9	3143.2	3060.4
32.5°	3014.8	3081.1	3221.9	3354.4	3404.1	3404.1	3420.7	3362.7	3230.2	3047.9	2977.5
35°	2907.1	2998.2	3114.2	3267.4	3358.5	3412.4	3329.5	3263.3	3176.3	2990.0	2861.6
37.5°	2845.0	2907.1	3056.2	3201.2	3279.8	3337.8	3304.7	3188.7	3072.8	2919.6	2816.0
40°	2778.8	2878.2	3010.7	3147.3	3234.3	3292.3	3267.4	3130.8	2990.0	2845.0	2774.6
42.5°	2733.2	2799.5	2936.1	3089.4	3192.9	3304.7	3230.2	3060.4	2961.0	2762.2	2683.5
45°	2695.9	2803.6	2948.6	3010.7	3118.3	3234.3	3101.8	2998.2	2882.3	2737.3	2671.1
47.5°	2650.4	2749.8	2845.0	3010.7	3060.4	3114.2	3089.4	2923.7	2824.3	2666.9	2621.4
50°	2633.8	2671.1	2845.0	2936.1	3006.5	3060.4	2994.1	2869.9	2774.6	2613.1	2513.7
52.5°	2567.6	2638.0	2749.8	2869.9	2956.8	3023.1	2915.4	2836.7	2708.4	2538.6	2476.5
55°	2484.7	2526.1	2724.9	2849.2	2894.7	2940.3	2898.9	2770.5	2638.0	2464.0	2401.9
57.5°	2377.1	2472.3	2633.8	2807.8	2865.7	2890.6	2824.3	2720.8	2555.1	2401.9	2302.5
60°	2265.2	2364.6	2542.7	2683.5	2741.5	2832.6	2733.2	2671.1	2480.6	2310.8	2203.1
62.5°	2153.4	2265.2	2397.8	2575.8	2625.5	2662.8	2638.0	2551.0	2397.8	2207.3	2074.8
65°	2020.9	2103.7	2269.4	2360.5	2393.6	2480.6	2393.6	2360.5	2223.8	2041.6	1929.8
67.5°	1822.1	1892.5	2037.5	2124.4	2149.3	2186.6	2182.4	2145.2	1991.9	1867.7	1768.3
70°	1594.4	1656.5	1747.6	1851.1	1863.6	1909.1	1867.7	1859.4	1760.0	1590.2	1536.4
72.5°	1279.6	1337.6	1457.7	1503.3	1507.4	1524.0	1503.3	1474.3	1449.4	1271.4	1217.5
75°	981.5	1014.6	1072.6	1114.0	1114.0	1134.7	1122.3	1093.3	1027.0	915.2	861.4
77.5°	683.3	716.4	791.0	815.8	811.7	820.0	782.7	753.7	654.3	596.3	550.8
80°	496.9	517.7	554.9	571.5	575.6	588.1	542.5	517.7	459.7	393.4	372.7
82.5°	360.3	372.7	376.9	397.6	397.6	376.9	364.4	339.6	298.2	256.8	240.2
85°	149.1	153.2	157.4	182.2	186.4	223.6	207.1	194.6	169.8	144.9	132.5
87.5°	37.3	41.4	53.8	45.6	53.8	53.8	58.0	66.3	66.3	53.8	53.8
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°	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4
2.5°	11293.1	11326.2	11748.7	11802.5	12009.6	12220.8	12647.3	12953.8	13202.2	13363.7	13409.3
5°	9557.9	9769.1	9963.8	10278.5	10564.3	10970.1	11438.1	12017.8	12746.7	13119.4	13268.5
7.5°	7483.2	7731.7	8013.3	8319.7	8738.0	9466.8	10092.2	10763.0	11694.8	12080.0	12663.9
10°	6108.3	6385.8	6758.5	6994.5	7499.8	8195.5	8924.3	9698.7	10589.1	11144.0	11819.1
12.5°	5400.2	5627.9	5971.6	6468.6	6845.4	7296.8	7839.3	8816.7	10092.2	10618.1	11081.9
15°	4617.5	4870.1	5267.6	5818.4	6269.8	6808.2	7416.9	8481.2	9839.5	10651.2	11044.6
17.5°	3971.4	4153.6	4571.9	5048.2	5565.8	6153.9	7027.7	8464.7	10104.6	11144.0	11785.9
20°	3524.2	3549.0	3776.8	4182.6	4886.6	5652.8	6787.5	8381.8	10953.5	11993.0	12804.7
22.5°	3242.6	3217.7	3221.9	3565.6	4058.4	5160.0	6410.6	8663.4	11918.4	13343.0	13889.7
25°	3101.8	3035.5	2994.1	3068.6	3515.9	4576.1	6124.9	9036.2	12957.9	14457.0	15127.9
27.5°	3027.2	2911.3	2828.5	2840.9	3168.0	4282.0	5946.8	9197.7	13989.1	16010.0	16246.0
30°	2998.2	2853.3	2733.2	2691.8	2907.1	3872.0	5565.8	9475.1	14912.5	16863.1	17066.0
32.5°	2894.7	2716.6	2600.7	2563.4	2650.4	3511.8	5292.5	9673.9	15728.4	17790.7	17720.3
35°	2774.6	2625.5	2480.6	2410.2	2472.3	3279.8	5073.0	9578.7	16689.1	18511.3	18474.0
37.5°	2762.2	2567.6	2447.5	2331.5	2327.4	2994.1	4774.8	9669.8	17302.0	19803.3	19294.0
40°	2654.5	2530.3	2372.9	2277.7	2223.8	2849.2	4484.9	9454.4	18200.7	20325.1	19824.0
42.5°	2658.7	2472.3	2335.7	2223.8	2170.0	2638.0	4286.2	9396.4	18515.4	21174.1	20072.5
45°	2592.4	2410.2	2294.2	2161.7	2132.7	2476.5	4095.7	9127.3	19070.3	21215.5	19761.9
47.5°	2526.1	2364.6	2240.4	2083.0	2016.8	2418.5	3946.6	8903.6	18780.5	20826.2	19331.2
50°	2480.6	2294.2	2178.3	2066.5	1880.1	2319.1	3751.9	8849.8	18374.6	20300.3	18532.0
52.5°	2401.9	2236.3	2116.2	2029.2	1731.0	2228.0	3677.4	9164.5	18871.6	19906.9	18300.1
55°	2327.4	2157.6	2004.4	1834.6	1606.8	1987.8	3470.3	9458.6	19596.3	20813.8	19351.9
57.5°	2248.7	2087.2	1921.5	1718.6	1486.7	1739.3	3255.0	9512.4	18238.0	19236.0	18370.5
60°	2145.2	1938.1	1813.9	1548.8	1358.3	1441.1	2580.0	8386.0	14146.4	16063.8	16092.8
62.5°	2029.2	1805.6	1697.9	1387.3	1225.8	1242.4	2103.7	7048.4	11475.3	13297.5	14088.4
65°	1876.0	1660.6	1532.3	1283.8	1130.6	1076.7	1540.5	5164.1	8717.3	10787.9	11686.5
67.5°	1677.2	1474.3	1312.8	1118.1	1010.5	923.5	1051.9	2907.1	5147.5	7243.0	7516.3
70°	1466.0	1292.1	1122.3	960.8	840.7	778.6	770.3	1287.9	2459.9	3896.9	4435.3
72.5°	1155.4	1031.2	894.5	774.4	695.7	604.6	550.8	534.2	832.4	1586.1	2190.7
75°	828.2	724.7	646.0	567.3	509.4	459.7	418.3	381.0	347.9	397.6	546.6
77.5°	521.8	484.5	422.4	401.7	368.6	356.1	339.6	318.9	294.0	277.5	277.5
80°	352.0	327.2	306.5	302.3	289.9	285.7	289.9	269.2	244.3	223.6	231.9
82.5°	236.0	231.9	227.8	223.6	227.8	231.9	240.2	236.0	215.3	202.9	207.1
85°	140.8	149.1	157.4	165.6	182.2	161.5	132.5	111.8	99.4	91.1	87.0
87.5°	53.8	74.5	66.3	62.1	66.3	62.1	58.0	53.8	45.6	41.4	41.4
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°	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4	12680.4
2.5°	13711.6	13794.4	13864.8	13848.3	13703.3	13508.7	13430.0	13028.3	12945.5	12891.6
5°	13897.9	14378.3	14481.9	14419.7	14042.9	13566.7	13102.8	12514.8	12171.1	12158.6
7.5°	13554.2	14146.4	14332.8	14473.6	13972.5	13144.2	12349.1	11467.1	11251.7	11268.3
10°	12680.4	13624.6	14084.3	14229.2	13653.6	12937.2	11835.6	10941.1	10481.4	10473.2
12.5°	12195.9	12937.2	13065.6	13268.5	13098.7	12374.0	11537.5	10535.3	10088.0	10079.7
15°	11765.2	12253.9	12291.2	12576.9	12668.0	12179.3	11616.1	10547.7	10187.4	10150.1
17.5°	12142.1	11802.5	11661.7	11699.0	11968.1	12146.2	12071.7	11251.7	10883.1	10676.1
20°	12394.7	11636.8	11210.3	11251.7	11570.6	12220.8	12750.8	12270.4	11686.5	11711.4
22.5°	13069.7	11661.7	10995.0	10949.4	11454.6	12610.0	13517.0	13558.4	12995.2	12858.5
25°	14080.2	11947.4	10928.7	10916.3	11400.8	13028.3	14411.5	15082.3	14506.7	14254.1
27.5°	14891.8	12394.7	11135.8	11177.2	11570.6	13367.9	15173.4	16063.8	15624.8	15314.2
30°	15604.1	12858.5	11425.6	11235.1	12026.1	13545.9	15500.6	17181.9	16829.9	16573.2
32.5°	15898.2	13517.0	11885.3	11570.6	12403.0	13761.3	16179.8	18266.9	17964.6	17331.0
35°	16395.1	13885.5	12133.8	12108.9	13061.4	14278.9	16498.6	18983.4	18859.1	18295.9
37.5°	16792.7	14258.2	13015.9	12742.5	13964.2	15148.6	17012.1	19973.1	19687.4	19422.3
40°	17099.1	14925.0	13840.0	14200.3	15074.1	15939.6	17484.2	20035.2	20859.3	20089.1
42.5°	16817.5	15521.3	15194.2	16055.5	16883.8	16842.4	17538.1	20515.6	21132.7	20731.0
45°	16747.1	16531.8	17335.2	18117.9	18308.4	17591.9	17153.0	19985.5	21049.8	20871.8
47.5°	16577.3	17525.7	18925.4	20200.9	19911.0	18093.0	16693.3	19890.3	21099.5	20780.7
50°	16519.3	17741.0	20101.5	21343.9	21169.9	18527.8	16477.9	19277.4	20747.5	20718.5
52.5°	16515.2	18184.1	20590.2	21965.1	22072.7	19215.3	16772.0	19588.0	21020.9	21265.2
55°	16701.6	18043.3	20528.0	21621.3	21579.9	18908.8	16805.1	19795.1	21356.3	21596.5
57.5°	15753.2	16163.2	16941.7	17807.3	17583.6	15662.1	15007.8	18300.1	19600.4	19426.5
60°	13603.9	12320.1	11442.2	11400.8	10966.0	10365.5	12282.9	16333.0	16333.0	16163.2
62.5°	11914.3	8087.8	6949.0	6626.0	6936.6	7628.1	11848.0	15885.7	15434.3	15239.7
65°	10419.3	6174.6	5023.3	4932.2	5470.6	6514.1	10713.3	13533.5	12738.4	12092.4
67.5°	6704.6	4522.2	3735.4	3573.9	4224.0	4783.1	7131.2	8323.9	7822.8	7570.2
70°	4323.4	2944.4	2078.9	1950.5	2203.1	2948.6	4555.3	4853.5	4124.7	3954.9
72.5°	2045.8	1271.4	728.9	600.5	675.0	1126.4	1801.4	1938.1	1610.9	1474.3
75°	650.2	468.0	298.2	256.8	244.3	289.9	414.1	318.9	231.9	227.8
77.5°	289.9	277.5	236.0	198.8	173.9	144.9	120.1	99.4	103.5	107.7
80°	240.2	219.5	194.6	173.9	144.9	111.8	87.0	66.3	66.3	70.4
82.5°	211.2	190.5	169.8	144.9	124.2	91.1	66.3	45.6	41.4	41.4
85°	91.1	107.7	116.0	124.2	99.4	74.5	45.6	29.0	24.8	24.8
87.5°	37.3	33.1	29.0	24.8	20.7	20.7	16.6	12.4	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)