

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: P531592

Luminaire Tested: **GALN-SA6D-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531592
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-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 25115 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

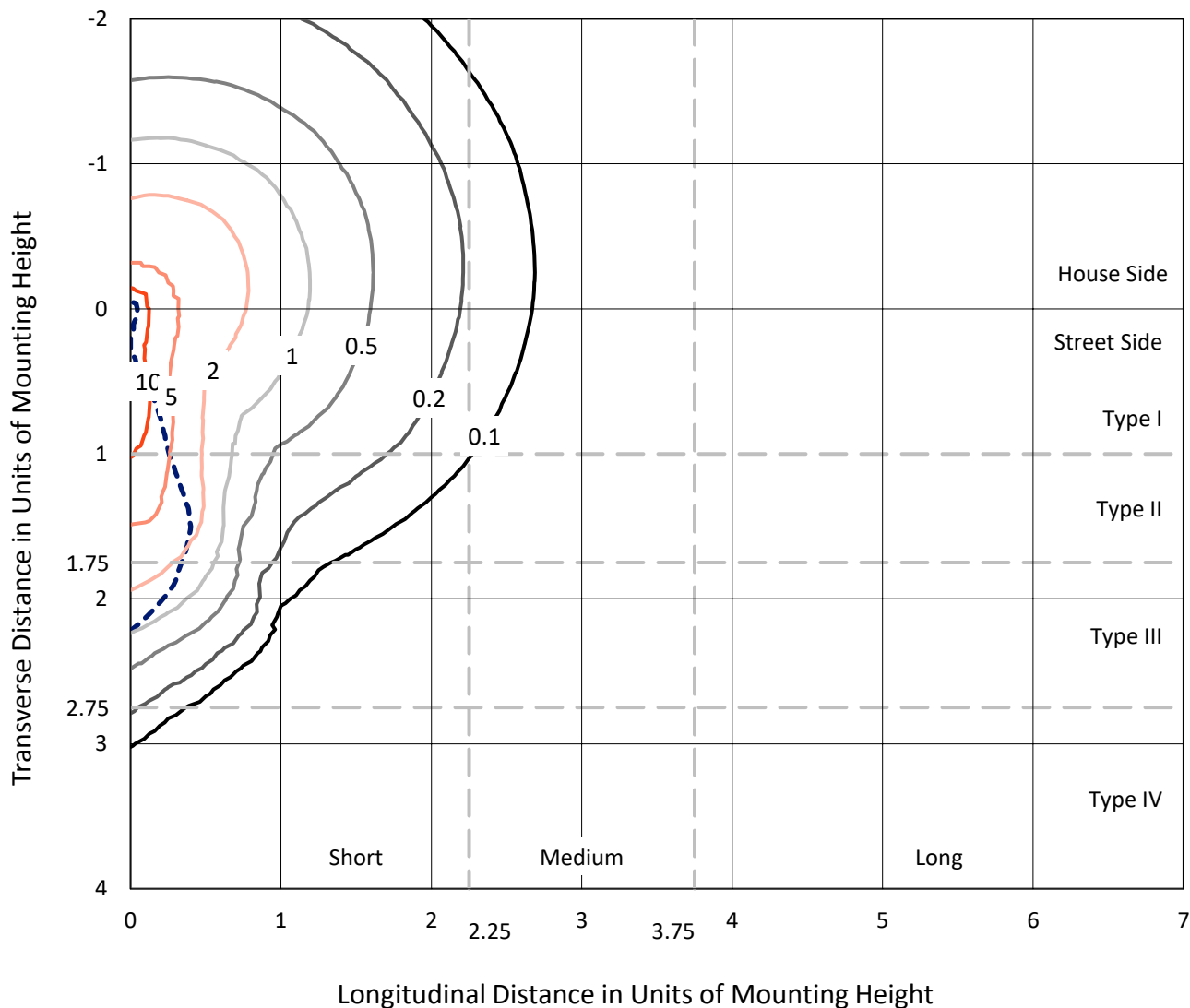
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

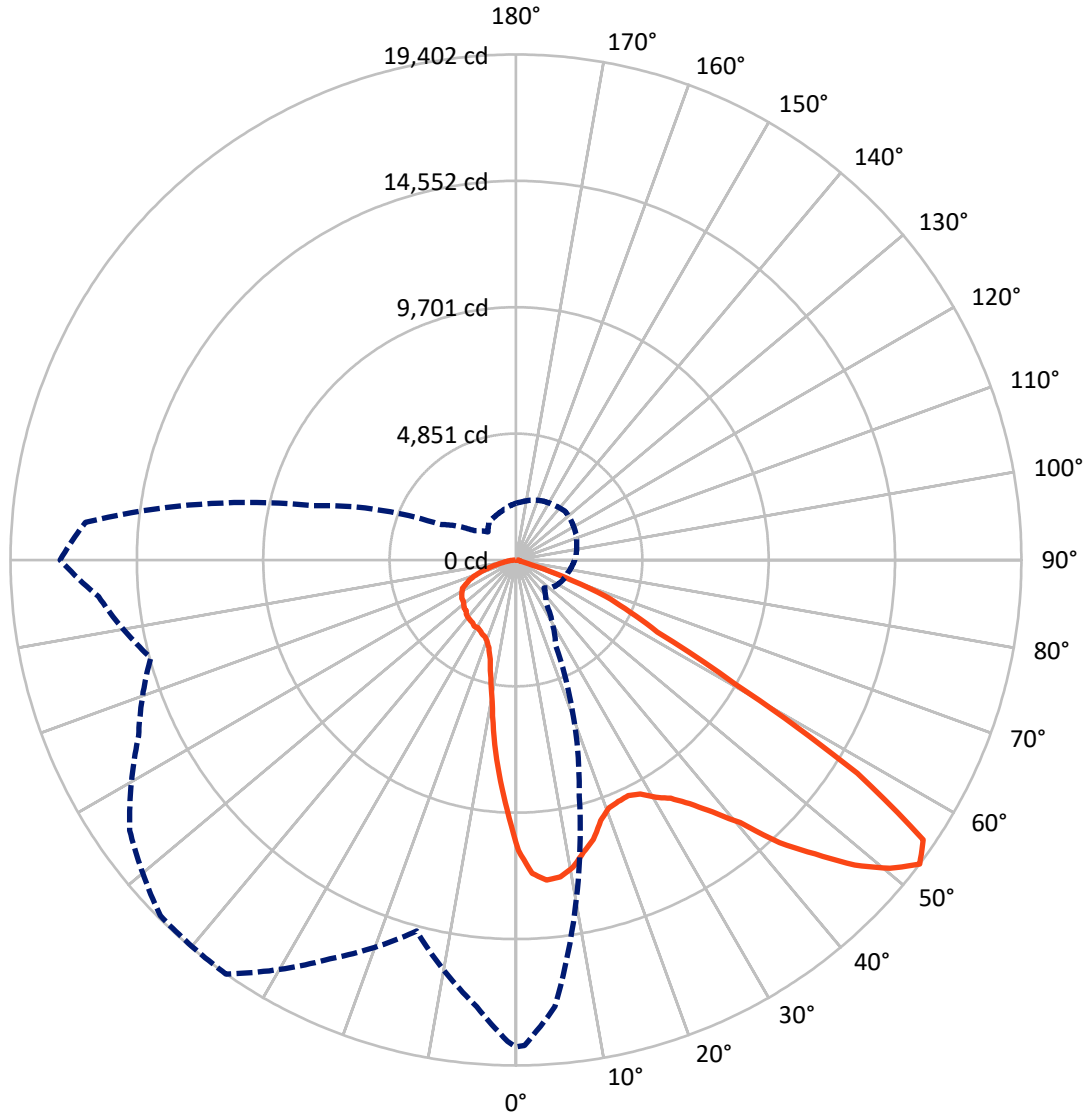
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 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	7571.1	0.0	7571.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	17543.9	0.0	17543.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	25115.0	0.0	25115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	850.4	3.4
10°-20°	1843.4	7.3
20°-30°	2785.3	11.1
30°-40°	4024.9	16.0
40°-50°	5356.4	21.3
50°-60°	5991.3	23.9
60°-70°	3376.6	13.4
70°-80°	752.7	3.0
80°-90°	134.0	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°	25115.0	100.0
0°-180°	25115.0	100.0

Coefficient of Utilization



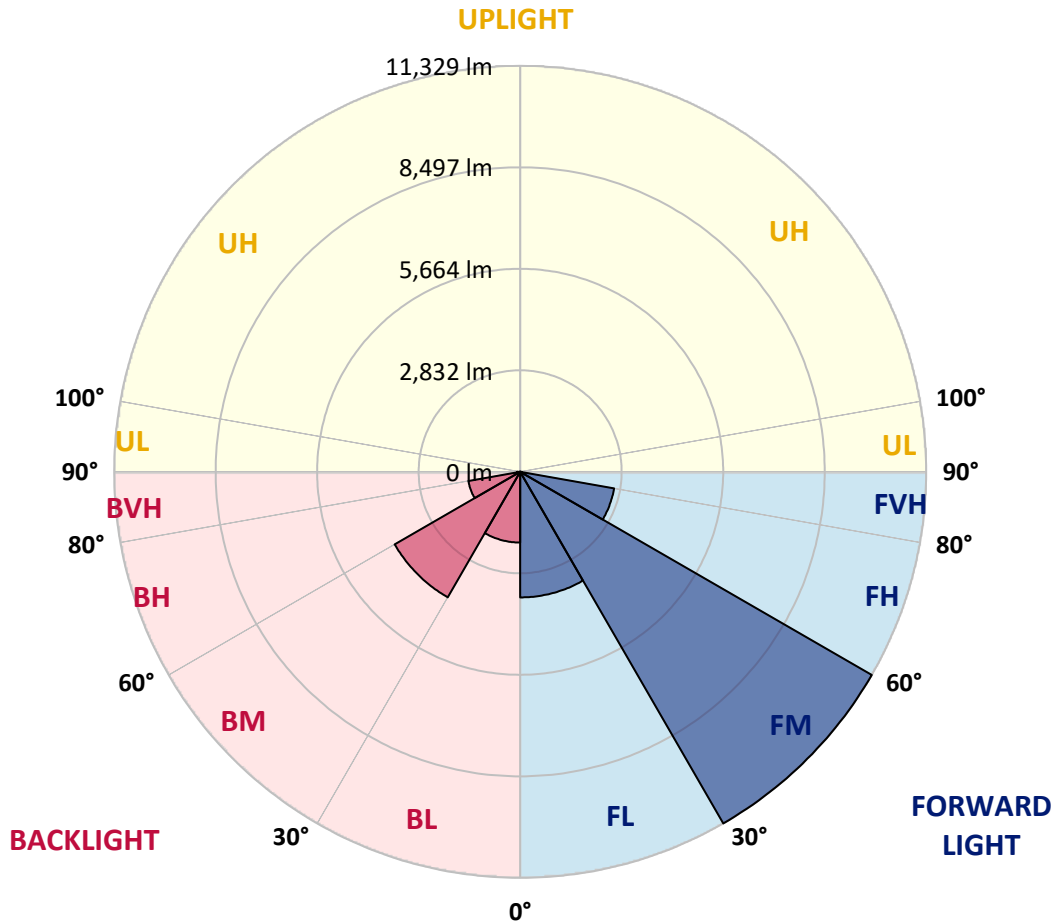
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3504.7	14.0			
FM (30°-60°)	11328.8	45.1			
FH (60°-80°)	2661.8	10.6			G2/5000
FVH (80°-90°)	48.5	0.2			G1/100
BL (0°-30°)	1974.4	7.9	B3/2500		
BM (30°-60°)	4043.7	16.1	B3/5000		
BH (60°-80°)	1467.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	85.5	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°	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2
2.5°	11331.8	11513.8	11317.3	10967.8	10720.3	10494.6	10258.0	10210.7	9901.3	9846.7	9621.0
5°	10687.5	10647.5	10407.2	9948.6	9442.6	8983.9	8645.4	8317.8	8095.7	7837.3	7819.1
7.5°	9904.9	9671.9	9533.6	8838.3	8212.2	7491.5	7182.0	6683.3	6526.8	6293.8	6173.7
10°	9206.0	9034.9	8710.9	8015.6	7142.0	6665.1	6333.9	6064.5	5882.5	5642.3	5340.1
12.5°	8860.2	8791.0	8427.0	7349.5	6701.5	6191.9	5959.0	5696.9	5387.4	5001.6	4852.3
15°	8922.0	8689.1	8412.4	7222.1	6326.6	5835.2	5463.9	5136.3	4739.5	4371.8	4157.1
17.5°	9384.4	9206.0	8652.7	7302.2	6184.6	5474.8	4801.4	4317.2	3960.5	3629.2	3480.0
20°	10294.4	10035.9	9413.5	7404.1	5878.9	4972.5	4200.8	3603.8	3221.5	3046.8	2995.9
22.5°	11302.7	11149.8	10156.1	7633.4	5635.0	4506.5	3563.7	2966.7	2824.8	2777.4	2872.1
25°	12529.5	12132.7	11310.0	8008.4	5445.7	4109.7	3025.0	2693.7	2620.9	2668.2	2777.4
27.5°	13461.3	13355.8	12118.1	8361.5	5187.2	3632.9	2722.8	2504.4	2526.3	2573.6	2675.5
30°	14567.9	14032.8	12900.8	8605.4	4954.3	3305.3	2511.7	2453.5	2475.3	2555.4	2606.4
32.5°	15234.1	15033.9	13392.2	8973.0	4684.9	3021.3	2347.9	2293.3	2326.1	2446.2	2566.3
35°	16082.3	15685.5	14000.1	9067.7	4495.6	2908.5	2231.4	2191.4	2267.8	2351.5	2486.2
37.5°	17072.4	16799.4	14841.0	9002.1	4393.7	2792.0	2133.1	2114.9	2169.5	2286.0	2442.6
40°	17658.5	17574.7	15281.4	9042.2	4233.5	2690.1	2020.3	2042.1	2155.0	2246.0	2398.9
42.5°	18222.7	17676.7	15933.0	9027.6	4131.6	2551.8	2031.2	2005.7	2093.1	2198.7	2344.3
45°	18346.4	17804.1	16085.9	8925.7	4007.8	2417.1	1947.5	1958.4	2064.0	2195.0	2289.7
47.5°	18266.4	17865.9	16369.8	8896.6	3891.3	2322.4	1823.7	1954.8	2016.7	2122.2	2256.9
50°	18211.8	18189.9	16610.1	9034.9	3734.8	2173.2	1674.5	1907.4	1969.3	2074.9	2220.5
52.5°	18692.3	18644.9	17210.7	9398.9	3611.0	2013.0	1521.6	1787.3	1936.6	2038.5	2180.5
55°	18983.5	18776.0	18240.9	9846.7	3403.6	1801.9	1416.0	1638.1	1856.5	1947.5	2093.1
57.5°	17076.0	16934.1	16500.9	9191.4	3054.1	1525.2	1285.0	1485.2	1747.3	1889.2	2038.5
60°	14207.6	13985.5	12875.3	7811.8	2253.3	1186.7	1204.9	1365.1	1718.2	1772.8	1947.5
62.5°	13395.8	12846.1	11335.5	6286.6	1729.1	1019.2	1081.1	1255.9	1565.3	1656.3	1831.0
65°	10629.3	10221.6	8110.3	4539.3	1157.6	884.6	986.5	1132.1	1350.5	1528.9	1689.0
67.5°	6654.2	6264.7	4328.2	2147.7	808.1	757.2	880.9	1033.8	1212.2	1372.3	1550.7
70°	3476.4	3050.5	1998.5	775.4	556.9	618.8	735.3	880.9	1055.6	1186.7	1325.0
72.5°	1295.9	1052.0	651.6	334.9	385.9	473.2	597.0	702.6	826.3	986.5	1062.9
75°	200.2	171.1	167.4	203.8	262.1	342.2	425.9	531.5	640.7	742.6	793.6
77.5°	94.6	91.0	101.9	134.7	174.7	243.9	309.4	411.3	498.7	564.2	593.3
80°	61.9	58.2	65.5	91.0	131.0	182.0	247.5	316.7	396.8	451.4	444.1
82.5°	36.4	40.0	40.0	61.9	91.0	131.0	178.4	240.3	294.9	342.2	313.1
85°	21.8	18.2	18.2	36.4	61.9	105.6	149.2	101.9	105.6	105.6	120.1
87.5°	7.3	7.3	7.3	3.6	7.3	7.3	10.9	18.2	21.8	25.5	32.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2
2.5°	9613.7	9726.5	9686.5	9544.5	9653.7	9671.9	9599.1	9850.3	9897.6	9821.2	9843.0
5°	7793.6	7822.7	7888.2	8026.6	8124.9	8241.3	8241.3	8248.6	8150.3	8397.9	8325.1
7.5°	6071.8	6090.0	6166.4	6461.3	6545.0	6767.1	6861.7	6796.2	6599.6	6515.9	6585.1
10°	5241.8	5136.3	5110.8	5147.2	5336.5	5431.1	5511.2	5489.4	5456.6	5391.1	5318.3
12.5°	4688.5	4612.1	4550.2	4462.8	4473.8	4564.8	4626.7	4575.7	4590.3	4604.8	4626.7
15°	4087.9	4033.3	4000.5	3869.5	3854.9	3916.8	3938.7	3967.8	4022.4	4026.0	4000.5
17.5°	3450.9	3403.6	3476.4	3549.2	3498.2	3501.8	3541.9	3567.4	3552.8	3487.3	3454.5
20°	3014.1	3065.0	3137.8	3207.0	3261.6	3294.4	3308.9	3268.9	3221.5	3086.9	3083.2
22.5°	2886.7	2952.2	3014.1	3119.6	3170.6	3254.3	3177.9	3086.9	3021.3	2955.8	2879.4
25°	2792.0	2846.6	2970.4	3010.4	3108.7	3177.9	3123.3	3032.3	2919.4	2824.8	2766.5
27.5°	2722.8	2784.7	2864.8	2974.0	3050.5	3090.5	3035.9	2999.5	2883.0	2770.2	2686.4
30°	2679.2	2744.7	2890.3	2981.3	3046.8	3079.6	2984.9	2941.3	2857.5	2762.9	2690.1
32.5°	2650.0	2708.3	2832.0	2948.5	2992.2	2992.2	3006.8	2955.8	2839.3	2679.2	2617.3
35°	2555.4	2635.5	2737.4	2872.1	2952.2	2999.5	2926.7	2868.5	2792.0	2628.2	2515.4
37.5°	2500.8	2555.4	2686.4	2813.8	2883.0	2934.0	2904.9	2802.9	2701.0	2566.3	2475.3
40°	2442.6	2529.9	2646.4	2766.5	2843.0	2893.9	2872.1	2752.0	2628.2	2500.8	2438.9
42.5°	2402.5	2460.8	2580.9	2715.6	2806.6	2904.9	2839.3	2690.1	2602.7	2428.0	2358.8
45°	2369.7	2464.4	2591.8	2646.4	2741.0	2843.0	2726.5	2635.5	2533.6	2406.2	2347.9
47.5°	2329.7	2417.1	2500.8	2646.4	2690.1	2737.4	2715.6	2570.0	2482.6	2344.3	2304.2
50°	2315.1	2347.9	2500.8	2580.9	2642.8	2690.1	2631.8	2522.6	2438.9	2296.9	2209.6
52.5°	2256.9	2318.8	2417.1	2522.6	2599.1	2657.3	2562.7	2493.5	2380.7	2231.4	2176.8
55°	2184.1	2220.5	2395.2	2504.4	2544.5	2584.5	2548.1	2435.3	2318.8	2165.9	2111.3
57.5°	2089.5	2173.2	2315.1	2468.0	2519.0	2540.8	2482.6	2391.6	2246.0	2111.3	2023.9
60°	1991.2	2078.5	2235.1	2358.8	2409.8	2489.9	2402.5	2347.9	2180.5	2031.2	1936.6
62.5°	1892.9	1991.2	2107.7	2264.2	2307.9	2340.6	2318.8	2242.3	2107.7	1940.2	1823.7
65°	1776.4	1849.2	1994.8	2074.9	2104.0	2180.5	2104.0	2074.9	1954.8	1794.6	1696.3
67.5°	1601.7	1663.6	1791.0	1867.4	1889.2	1922.0	1918.4	1885.6	1750.9	1641.7	1554.4
70°	1401.5	1456.1	1536.2	1627.2	1638.1	1678.1	1641.7	1634.4	1547.1	1397.8	1350.5
72.5°	1124.8	1175.8	1281.3	1321.4	1325.0	1339.6	1321.4	1295.9	1274.1	1117.5	1070.2
75°	862.7	891.8	942.8	979.2	979.2	997.4	986.5	961.0	902.8	804.5	757.2
77.5°	600.6	629.7	695.3	717.1	713.5	720.8	688.0	662.5	575.1	524.2	484.1
80°	436.8	455.0	487.8	502.3	506.0	516.9	476.9	455.0	404.1	345.8	327.6
82.5°	316.7	327.6	331.3	349.5	349.5	331.3	320.3	298.5	262.1	225.7	211.1
85°	131.0	134.7	138.3	160.2	163.8	196.6	182.0	171.1	149.2	127.4	116.5
87.5°	32.8	36.4	47.3	40.0	47.3	47.3	51.0	58.2	58.2	47.3	47.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2
2.5°	9926.7	9955.9	10327.2	10374.5	10556.5	10742.1	11117.1	11386.4	11604.9	11746.8	11786.9
5°	8401.5	8587.2	8758.2	9034.9	9286.1	9642.8	10054.1	10563.8	11204.4	11532.0	11663.1
7.5°	6577.8	6796.2	7043.7	7313.1	7680.8	8321.4	8871.1	9460.8	10279.8	10618.4	11131.6
10°	5369.2	5613.1	5940.8	6148.2	6592.3	7203.9	7844.6	8525.3	9307.9	9795.7	10389.0
12.5°	4746.8	4947.0	5249.1	5685.9	6017.2	6414.0	6890.8	7749.9	8871.1	9333.4	9741.1
15°	4058.8	4280.8	4630.3	5114.4	5511.2	5984.4	6519.5	7455.1	8649.0	9362.5	9708.3
17.5°	3490.9	3651.1	4018.7	4437.4	4892.4	5409.3	6177.4	7440.5	8882.0	9795.7	10359.9
20°	3097.8	3119.6	3319.8	3676.6	4295.4	4968.8	5966.2	7367.7	9628.2	10541.9	11255.4
22.5°	2850.3	2828.4	2832.0	3134.2	3567.4	4535.6	5635.0	7615.2	10476.4	11728.6	12209.1
25°	2726.5	2668.2	2631.8	2697.4	3090.5	4022.4	5383.8	7942.8	11390.1	12707.8	13297.5
27.5°	2661.0	2559.0	2486.2	2497.2	2784.7	3763.9	5227.3	8084.8	12296.5	14072.9	14280.4
30°	2635.5	2508.1	2402.5	2366.1	2555.4	3403.6	4892.4	8328.7	13108.2	14822.8	15001.1
32.5°	2544.5	2387.9	2286.0	2253.3	2329.7	3086.9	4652.1	8503.4	13825.4	15638.2	15576.3
35°	2438.9	2307.9	2180.5	2118.6	2173.2	2883.0	4459.2	8419.7	14669.9	16271.5	16238.8
37.5°	2428.0	2256.9	2151.3	2049.4	2045.8	2631.8	4197.1	8499.8	15208.6	17407.3	16959.5
40°	2333.3	2224.1	2085.8	2002.1	1954.8	2504.4	3942.3	8310.5	15998.5	17865.9	17425.5
42.5°	2337.0	2173.2	2053.1	1954.8	1907.4	2318.8	3767.6	8259.5	16275.2	18612.2	17643.9
45°	2278.7	2118.6	2016.7	1900.2	1874.7	2176.8	3600.1	8022.9	16763.0	18648.6	17370.9
47.5°	2220.5	2078.5	1969.3	1831.0	1772.8	2125.9	3469.1	7826.4	16508.2	18306.4	16992.3
50°	2180.5	2016.7	1914.7	1816.4	1652.6	2038.5	3298.0	7779.0	16151.4	17844.1	16289.7
52.5°	2111.3	1965.7	1860.1	1783.7	1521.6	1958.4	3232.5	8055.7	16588.2	17498.3	16085.9
55°	2045.8	1896.5	1761.8	1612.6	1412.4	1747.3	3050.5	8314.1	17225.3	18295.5	17010.5
57.5°	1976.6	1834.6	1689.0	1510.7	1306.8	1528.9	2861.2	8361.5	16031.3	16908.6	16147.8
60°	1885.6	1703.6	1594.4	1361.4	1194.0	1266.8	2267.8	7371.3	12434.8	14120.2	14145.7
62.5°	1783.7	1587.1	1492.5	1219.5	1077.5	1092.1	1849.2	6195.6	10086.9	11688.6	12383.8
65°	1649.0	1459.7	1346.9	1128.5	993.8	946.4	1354.1	4539.3	7662.6	9482.6	10272.6
67.5°	1474.3	1295.9	1153.9	982.8	888.2	811.8	924.6	2555.4	4524.7	6366.7	6606.9
70°	1288.6	1135.7	986.5	844.5	739.0	684.4	677.1	1132.1	2162.3	3425.4	3898.6
72.5°	1015.6	906.4	786.3	680.7	611.5	531.5	484.1	469.6	731.7	1394.2	1925.6
75°	728.0	637.0	567.9	498.7	447.7	404.1	367.7	334.9	305.8	349.5	480.5
77.5°	458.7	425.9	371.3	353.1	324.0	313.1	298.5	280.3	258.5	243.9	243.9
80°	309.4	287.6	269.4	265.7	254.8	251.2	254.8	236.6	214.8	196.6	203.8
82.5°	207.5	203.8	200.2	196.6	200.2	203.8	211.1	207.5	189.3	178.4	182.0
85°	123.8	131.0	138.3	145.6	160.2	142.0	116.5	98.3	87.4	80.1	76.4
87.5°	47.3	65.5	58.2	54.6	58.2	54.6	51.0	47.3	40.0	36.4	36.4
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°	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2	11146.2
2.5°	12052.6	12125.4	12187.3	12172.7	12045.3	11874.2	11805.1	11452.0	11379.2	11331.8
5°	12216.4	12638.7	12729.7	12675.1	12343.8	11925.2	11517.5	11000.6	10698.5	10687.5
7.5°	11914.3	12434.8	12598.6	12722.4	12281.9	11553.9	10855.0	10079.6	9890.3	9904.9
10°	11146.2	11976.1	12380.2	12507.6	12001.6	11371.9	10403.6	9617.3	9213.3	9206.0
12.5°	10720.3	11371.9	11484.7	11663.1	11513.8	10876.8	10141.5	9260.6	8867.4	8860.2
15°	10341.7	10771.3	10804.0	11055.2	11135.3	10705.7	10210.7	9271.5	8954.8	8922.0
17.5°	10673.0	10374.5	10250.7	10283.5	10520.1	10676.6	10611.1	9890.3	9566.4	9384.4
20°	10895.0	10228.9	9853.9	9890.3	10170.6	10742.1	11208.1	10785.8	10272.6	10294.4
22.5°	11488.4	10250.7	9664.6	9624.6	10068.7	11084.3	11881.5	11917.9	11422.8	11302.7
25°	12376.6	10501.9	9606.4	9595.5	10021.4	11452.0	12667.8	13257.5	12751.5	12529.5
27.5°	13090.0	10895.0	9788.4	9824.8	10170.6	11750.5	13337.6	14120.2	13734.4	13461.3
30°	13716.1	11302.7	10043.2	9875.8	10571.0	11907.0	13625.1	15103.1	14793.6	14567.9
32.5°	13974.6	11881.5	10447.3	10170.6	10902.3	12096.3	14222.1	16056.8	15791.0	15234.1
35°	14411.4	12205.5	10665.7	10643.8	11481.1	12551.3	14502.4	16686.5	16577.3	16082.3
37.5°	14760.9	12533.1	11441.0	11200.8	12274.6	13315.7	14953.8	17556.5	17305.4	17072.4
40°	15030.2	13119.2	12165.4	12482.1	13250.2	14011.0	15368.8	17611.1	18335.5	17658.5
42.5°	14782.7	13643.3	13355.8	14112.9	14841.0	14804.6	15416.1	18033.4	18575.8	18222.7
45°	14720.8	14531.5	15237.7	15925.7	16093.2	15463.4	15077.6	17567.4	18503.0	18346.4
47.5°	14571.6	15405.2	16635.6	17756.7	17501.9	15903.9	14673.5	17483.7	18546.7	18266.4
50°	14520.6	15594.5	17669.4	18761.4	18608.5	16286.1	14484.2	16945.0	18237.2	18211.8
52.5°	14517.0	15984.0	18098.9	19307.4	19402.1	16890.4	14742.7	17218.0	18477.5	18692.3
55°	14680.8	15860.2	18044.3	19005.3	18968.9	16621.0	14771.8	17400.0	18772.3	18983.5
57.5°	13847.2	14207.6	14891.9	15652.7	15456.1	13767.1	13192.0	16085.9	17228.9	17076.0
60°	11957.9	10829.5	10057.8	10021.4	9639.2	9111.3	10796.7	14356.8	14356.8	14207.6
62.5°	10472.8	7109.2	6108.2	5824.3	6097.3	6705.2	10414.5	13963.7	13566.9	13395.8
65°	9158.7	5427.5	4415.5	4335.4	4808.7	5726.0	9417.1	11896.1	11197.2	10629.3
67.5°	5893.4	3975.1	3283.4	3141.5	3713.0	4204.4	6268.4	7316.7	6876.3	6654.2
70°	3800.3	2588.2	1827.4	1714.5	1936.6	2591.8	4004.2	4266.3	3625.6	3476.4
72.5°	1798.2	1117.5	640.7	527.8	593.3	990.1	1583.5	1703.6	1416.0	1295.9
75°	571.5	411.3	262.1	225.7	214.8	254.8	364.0	280.3	203.8	200.2
77.5°	254.8	243.9	207.5	174.7	152.9	127.4	105.6	87.4	91.0	94.6
80°	211.1	192.9	171.1	152.9	127.4	98.3	76.4	58.2	58.2	61.9
82.5°	185.6	167.4	149.2	127.4	109.2	80.1	58.2	40.0	36.4	36.4
85°	80.1	94.6	101.9	109.2	87.4	65.5	40.0	25.5	21.8	21.8
87.5°	32.8	29.1	25.5	21.8	18.2	18.2	14.6	10.9	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)