

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: P451887

Luminaire Tested: **GALN-SA2D-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451887
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13410 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

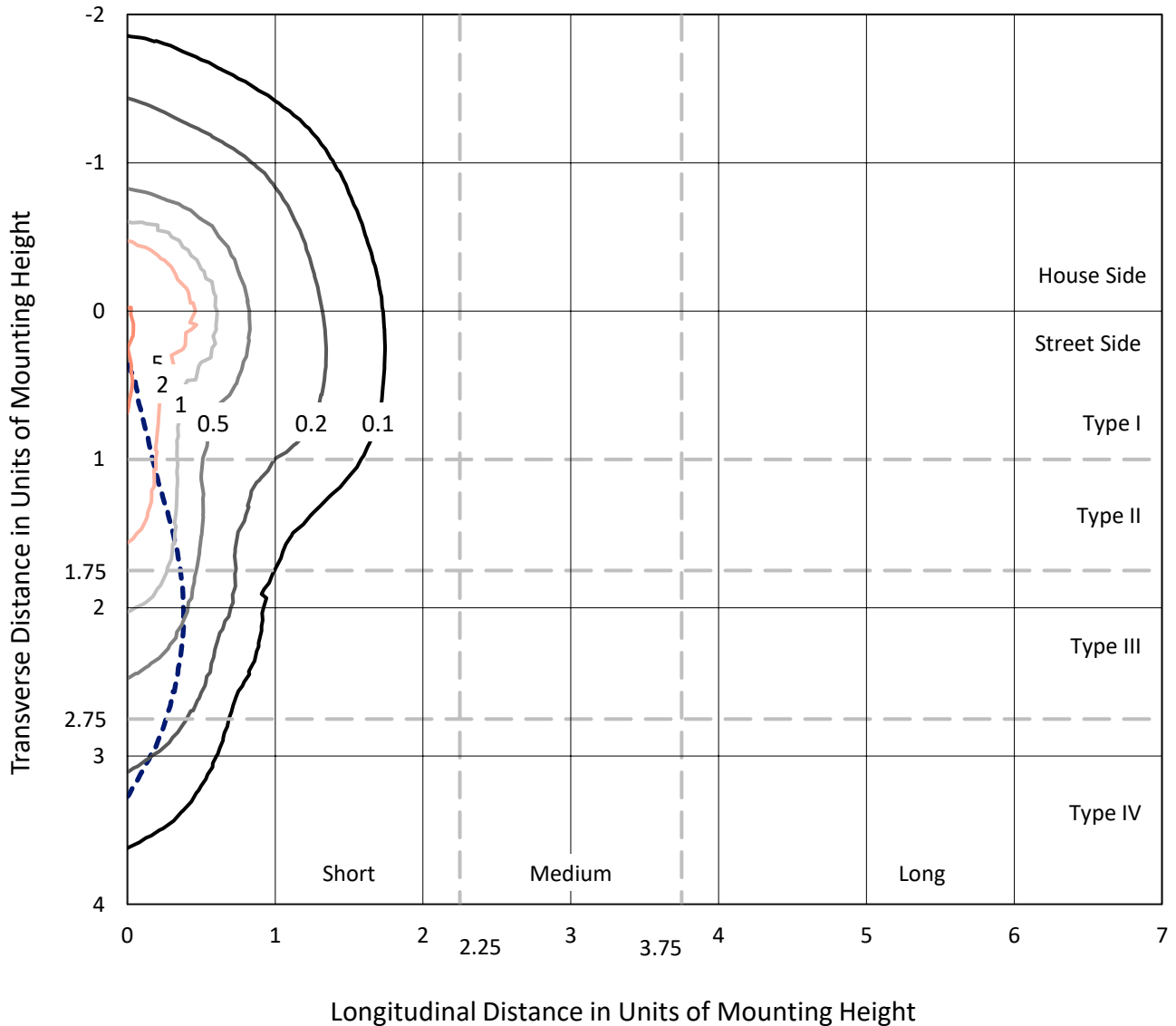
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

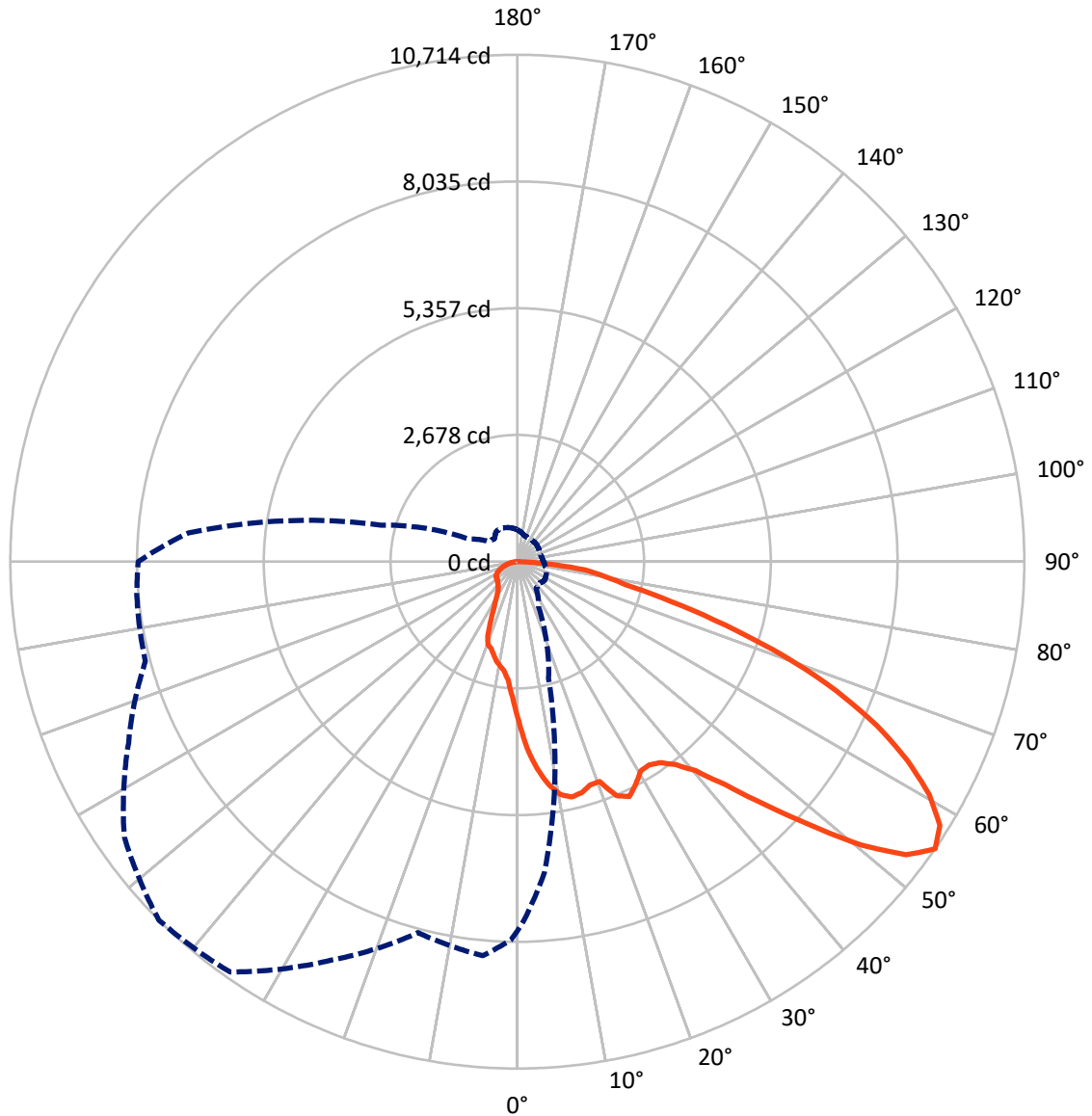
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2933.4	0.0	2933.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10476.6	0.0	10476.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	13410.0	0.0	13410.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	2.1
10°-20°	756.7	5.6
20°-30°	1307.3	9.7
30°-40°	1519.2	11.3
40°-50°	2119.6	15.8
50°-60°	2876.1	21.4
60°-70°	2736.3	20.4
70°-80°	1478.2	11.0
80°-90°	331.3	2.5
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°	13410.0	100.0
0°-180°	13410.0	100.0



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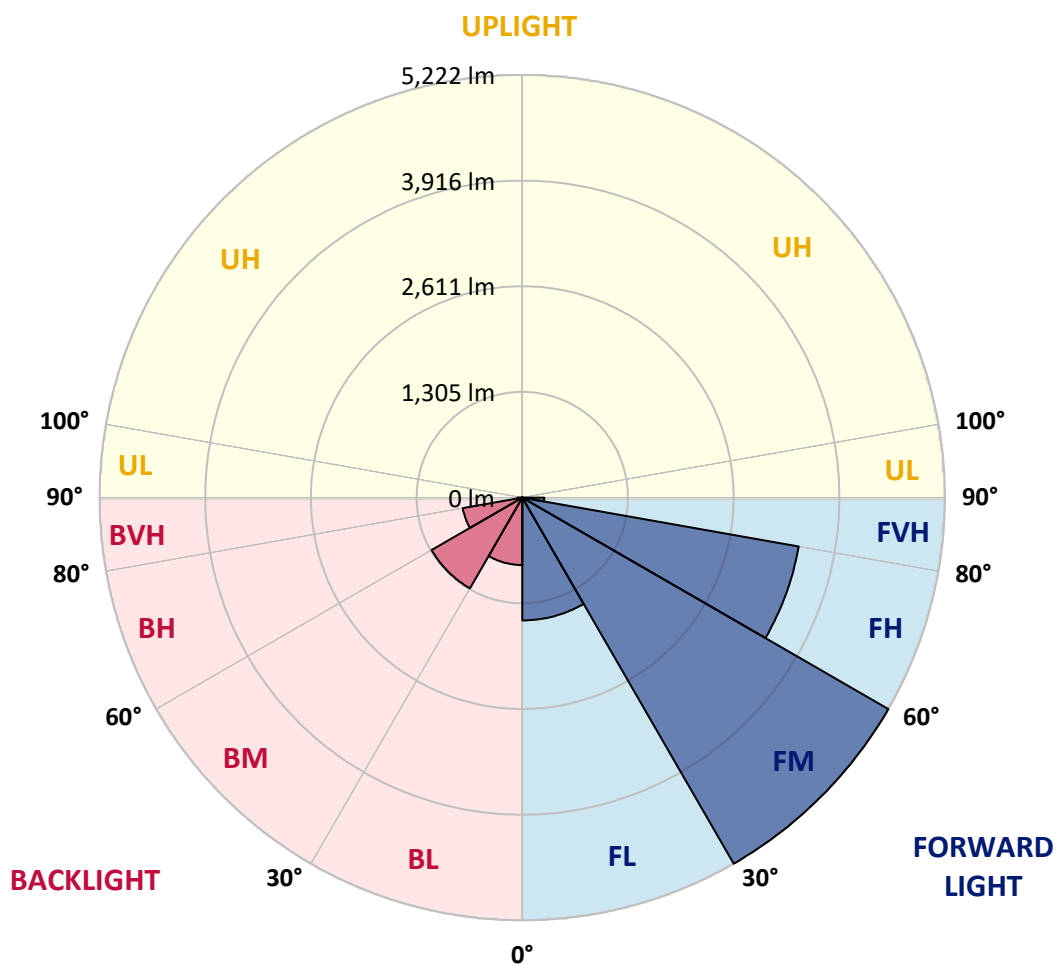
CATALOG NUMBER: GALN-SA2D-740-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1516.7	11.3			
FM	(30°-60°)	5221.6	38.9			
FH	(60°-80°)	3467.6	25.9			G2/5000
FVH	(80°-90°)	270.7	2.0			G3/500
BL	(0°-30°)	832.5	6.2	B2/1000		
BM	(30°-60°)	1293.4	9.6	B2/2500		
BH	(60°-80°)	746.9	5.6	B2/1000		G2/1000
BVH	(80°-90°)	60.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	3738.7	3724.6	3684.8	3580.4	3475.1	3368.0	3285.8	3183.1	3076.1	3018.6	2945.2
5°	3790.0	3774.1	3680.3	3445.0	3231.8	3008.0	2829.3	2672.7	2609.0	2515.2	2440.0
7.5°	3669.7	3662.6	3522.0	3184.0	2892.1	2599.2	2396.6	2271.0	2156.9	2114.4	2123.3
10°	3560.0	3531.7	3355.7	2914.2	2573.6	2335.6	2190.5	2067.5	1987.0	1965.8	1970.2
12.5°	3468.9	3430.9	3223.0	2732.8	2434.7	2244.5	2059.6	1931.3	1857.9	1878.2	1947.2
15°	3450.3	3399.0	3167.2	2670.9	2358.6	2113.5	1910.9	1763.2	1708.3	1752.6	1863.2
17.5°	3570.6	3506.1	3262.8	2691.2	2286.1	1980.0	1731.4	1562.4	1516.4	1587.1	1731.4
20°	3957.2	3861.7	3560.9	2808.9	2279.0	1913.6	1627.0	1457.1	1476.6	1611.0	1761.4
22.5°	4672.1	4528.8	4082.9	2980.5	2316.1	1896.8	1605.7	1517.3	1624.3	1738.4	1837.5
25°	4813.6	4701.3	4176.7	3019.5	2308.2	1885.3	1665.9	1710.1	1829.6	1886.2	1851.7
27.5°	4893.3	4765.0	4170.5	2826.6	2064.0	1710.1	1592.5	1665.9	1696.0	1641.1	1547.3
30°	5079.0	4945.5	4275.7	2624.0	1699.5	1268.7	1112.1	1082.0	1102.3	1112.9	1079.3
32.5°	5334.7	5202.9	4473.9	2491.3	1469.5	1049.3	895.3	852.8	843.1	831.6	818.3
35°	5665.6	5463.0	4668.5	2406.4	1374.8	970.5	829.0	796.2	783.0	767.0	752.9
37.5°	6001.8	5789.5	4914.5	2317.0	1312.0	915.7	784.7	769.7	746.7	729.9	709.5
40°	6359.2	6121.2	5138.3	2239.2	1251.0	880.3	752.9	751.1	721.0	701.6	677.7
42.5°	6668.8	6423.8	5338.3	2191.4	1204.1	843.1	733.4	738.7	707.8	678.6	647.6
45°	6914.8	6674.2	5523.2	2191.4	1166.0	806.0	729.9	726.3	695.4	659.1	623.7
47.5°	7130.7	6882.1	5703.6	2247.1	1142.1	775.0	710.4	716.6	684.8	638.8	604.2
50°	7297.9	7078.5	5946.9	2333.8	1118.3	750.2	685.6	719.3	675.9	628.1	588.3
52.5°	7511.1	7314.7	6239.8	2452.4	1097.9	722.8	663.5	719.3	675.0	629.0	585.7
55°	7806.6	7599.5	6592.8	2550.6	1065.2	697.1	644.1	698.9	672.4	624.6	578.6
57.5°	8013.6	7858.8	6842.2	2616.0	1018.3	664.4	626.4	679.4	660.9	607.8	557.4
58°	8023.3	7872.0	6878.5	2631.1	1006.8	658.2	621.9	670.6	655.6	600.7	550.3
60°	7911.8	7781.8	6885.6	2609.9	941.3	627.2	598.9	634.3	627.2	559.1	512.2
62.5°	7506.7	7367.8	6599.8	2437.3	854.6	589.2	563.6	585.7	569.7	500.7	457.4
65°	6930.7	6675.0	6012.4	2166.6	792.7	548.5	515.8	517.5	500.7	451.2	413.2
67.5°	6163.7	5877.9	5090.5	1826.0	745.8	503.4	459.2	454.7	434.4	402.5	371.6
70°	5219.7	5024.2	4136.8	1485.4	693.6	453.8	395.5	392.8	380.4	356.5	329.1
72.5°	4230.6	3982.0	3340.6	1189.0	629.9	406.1	336.2	341.5	325.6	308.8	284.0
75°	3122.1	2959.3	2582.4	953.7	544.1	353.9	280.4	282.2	275.1	257.4	238.0
77.5°	2056.0	2007.4	1847.2	626.4	418.5	281.3	229.1	230.9	225.6	209.7	189.3
80°	1383.7	1350.9	1251.8	403.4	279.6	203.5	176.9	178.7	177.8	161.0	133.6
82.5°	852.8	838.7	806.8	272.5	193.7	146.0	116.8	122.1	131.8	113.2	91.1
85°	402.5	403.4	487.5	148.6	114.1	93.8	63.7	68.1	68.1	68.1	51.3
87.5°	52.2	54.9	67.2	62.8	41.6	35.4	23.0	19.5	16.8	22.1	15.9
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°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	2919.5	2901.8	2863.8	2854.9	2849.6	2864.6	2824.8	2835.5	2817.8	2867.3	2859.3
5°	2444.4	2446.2	2477.2	2497.5	2504.6	2497.5	2471.0	2425.0	2389.6	2375.4	2378.9
7.5°	2106.5	2137.4	2190.5	2249.8	2303.8	2319.7	2304.6	2217.0	2121.5	2061.3	2041.9
10°	1994.1	2035.7	2096.7	2143.6	2191.4	2229.4	2237.4	2169.3	2056.0	1913.6	1857.9
12.5°	2000.3	2056.9	2115.3	2130.3	2125.9	2141.0	2133.9	2122.4	2048.1	1866.7	1773.8
15°	1941.9	2009.1	2049.8	2041.9	2027.7	2014.5	1995.9	1966.7	1940.1	1812.7	1710.1
17.5°	1807.4	1876.4	1910.1	1912.7	1912.7	1909.2	1864.1	1853.4	1849.9	1788.0	1725.2
20°	1832.2	1870.2	1855.2	1830.4	1837.5	1861.4	1834.9	1829.6	1849.9	1877.3	1865.8
22.5°	1846.4	1833.1	1719.9	1610.1	1585.4	1659.7	1674.7	1734.0	1816.3	1915.4	1980.0
25°	1758.8	1651.7	1449.1	1325.3	1255.4	1324.4	1414.6	1524.3	1647.3	1774.7	1849.9
27.5°	1470.4	1389.0	1243.9	1132.4	1071.4	1082.0	1159.0	1258.9	1373.0	1458.9	1513.7
30°	1107.6	1071.4	996.2	958.1	921.0	912.1	944.9	982.9	1033.3	1043.9	1058.1
32.5°	815.7	810.4	814.8	802.4	795.3	794.5	784.7	793.6	798.9	805.1	792.7
35°	737.8	730.8	718.4	714.8	710.4	712.2	707.8	703.3	706.9	712.2	715.7
37.5°	698.0	687.4	669.7	663.5	663.5	666.2	659.1	657.3	663.5	680.3	689.2
40°	667.1	654.7	634.3	626.4	631.7	638.8	629.0	625.5	640.5	658.2	672.4
42.5°	637.9	628.1	608.7	599.8	604.2	617.5	603.4	600.7	620.2	639.6	656.4
45°	613.1	603.4	585.7	581.2	583.0	595.4	585.7	585.7	604.2	625.5	640.5
47.5°	593.6	581.2	569.7	566.2	568.0	575.1	573.3	573.3	591.0	613.1	628.1
50°	574.2	563.6	548.5	550.3	554.7	564.4	563.6	566.2	583.9	611.3	627.2
52.5°	565.3	549.4	532.6	534.4	547.6	559.1	555.6	558.2	578.6	629.9	652.9
55°	555.6	534.4	514.9	517.5	532.6	549.4	545.0	548.5	572.4	642.3	674.1
57.5°	537.0	512.2	491.0	492.8	514.9	532.6	525.5	529.9	558.2	629.0	662.6
58°	529.0	507.8	487.5	488.4	509.6	529.0	521.1	524.6	553.8	625.5	657.3
60°	495.4	483.0	465.4	466.2	486.6	503.4	499.0	502.5	530.8	599.8	623.7
62.5°	449.4	442.3	437.9	437.9	450.3	466.2	470.7	475.1	500.7	542.3	563.6
65°	399.9	399.9	400.8	400.8	408.7	429.1	431.7	443.2	467.1	487.5	503.4
67.5°	366.3	364.5	366.3	361.8	365.4	377.8	391.0	401.7	426.4	440.6	445.9
70°	322.9	322.0	322.9	316.7	321.1	331.8	340.6	358.3	384.0	394.6	397.2
72.5°	280.4	280.4	282.2	277.8	277.8	289.3	295.5	315.0	338.8	345.0	345.9
75°	236.2	238.9	238.9	232.7	234.4	241.5	249.5	265.4	287.5	291.9	291.9
77.5°	187.6	197.3	197.3	191.1	193.7	194.6	205.2	213.2	230.0	231.8	224.7
80°	136.2	146.0	153.9	148.6	153.1	147.7	153.9	159.2	176.1	168.1	156.6
82.5°	97.3	104.4	110.6	111.5	107.0	97.3	105.3	106.2	114.1	103.5	97.3
85°	54.0	60.2	68.1	64.6	57.5	51.3	54.0	55.7	54.9	52.2	48.7
87.5°	14.2	15.0	16.8	12.4	11.5	9.7	13.3	13.3	15.0	15.9	15.0
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°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	2865.5	2904.5	2988.5	3052.2	3130.1	3224.7	3336.2	3448.5	3569.8	3607.8	3660.9
5°	2371.0	2468.3	2509.0	2624.9	2739.9	2912.4	3096.4	3309.7	3543.2	3655.6	3763.5
7.5°	2026.0	2078.2	2120.6	2205.5	2343.6	2553.2	2784.1	3050.4	3381.3	3545.0	3703.3
10°	1840.2	1845.5	1897.7	2003.0	2123.3	2308.2	2526.7	2824.8	3193.8	3392.8	3578.6
12.5°	1717.2	1694.2	1750.8	1860.5	1996.8	2167.5	2368.3	2652.3	3058.4	3262.8	3487.5
15°	1609.3	1573.0	1615.5	1727.8	1862.3	2063.1	2279.0	2579.8	3005.3	3243.3	3492.8
17.5°	1611.9	1511.9	1527.0	1621.6	1755.2	1959.6	2221.5	2577.1	3085.8	3360.1	3655.6
20°	1811.0	1650.8	1582.7	1600.4	1729.6	1952.5	2248.0	2701.0	3350.3	3750.2	4066.1
22.5°	2006.5	1910.1	1800.4	1764.1	1834.9	2068.4	2417.0	2993.8	3925.4	4527.9	5098.5
25°	1938.4	2020.6	1993.2	1941.9	1957.8	2151.6	2532.0	3234.5	4372.2	5050.7	5586.9
27.5°	1550.9	1700.4	1730.5	1729.6	1735.8	1895.0	2277.2	3072.6	4427.9	5150.7	5662.9
30°	1089.9	1103.2	1119.1	1150.1	1178.4	1320.9	1781.8	2697.4	4403.1	5195.8	5708.9
32.5°	786.5	804.2	826.3	868.8	936.0	1117.4	1558.8	2578.0	4534.1	5382.5	5843.4
35°	719.3	739.6	760.8	809.5	873.2	1041.3	1470.4	2528.5	4749.1	5685.1	6084.9
37.5°	698.0	721.0	739.6	775.0	826.3	986.4	1389.9	2494.8	4969.3	6005.3	6408.7
40°	683.0	709.5	724.6	752.9	788.3	936.0	1318.2	2468.3	5182.6	6298.2	6668.8
42.5°	669.7	697.1	716.6	737.0	766.1	890.9	1254.5	2441.8	5367.5	6582.1	6928.1
45°	653.8	688.3	713.1	729.0	754.6	852.8	1205.8	2420.5	5578.0	6834.3	7189.9
47.5°	640.5	678.6	709.5	728.1	737.8	826.3	1166.9	2449.7	5831.0	7097.9	7433.2
50°	641.4	677.7	716.6	745.8	720.1	804.2	1143.0	2565.6	6160.1	7411.1	7625.2
52.5°	669.7	714.0	744.9	752.0	695.4	777.6	1130.6	2768.2	6549.4	7688.0	7818.9
55°	701.6	747.6	781.2	776.8	682.1	744.0	1128.0	2984.1	6975.8	8010.9	8071.1
57.5°	690.1	757.3	808.6	785.6	683.0	711.3	1116.5	3158.4	7332.4	8252.5	8320.6
58°	686.5	753.8	812.2	783.8	680.3	701.6	1113.8	3173.4	7381.9	8269.3	8356.0
60°	652.0	722.8	809.5	770.6	665.3	675.0	1084.6	3222.1	7368.6	8182.6	8377.2
62.5°	589.2	647.6	748.5	706.0	619.3	639.6	1019.2	3161.9	7009.5	7765.0	8066.7
65°	518.4	561.8	629.0	621.1	553.8	603.4	929.8	2923.9	6290.2	7087.3	7404.9
67.5°	465.4	500.7	543.2	531.7	498.1	554.7	833.4	2521.4	5483.4	6273.4	6673.3
70°	411.4	438.8	460.0	452.1	441.5	506.9	747.6	2046.3	4710.1	5500.2	5887.7
72.5°	356.5	382.2	399.9	388.4	382.2	456.5	677.7	1588.0	3720.1	4537.6	5035.7
75°	298.1	323.8	336.2	322.9	319.4	402.5	574.2	1186.4	2791.2	3498.1	3928.1
77.5°	230.9	258.3	274.3	269.8	271.6	330.9	463.6	812.2	1995.9	2384.3	2837.2
80°	161.9	192.0	202.6	198.2	210.6	252.1	327.3	515.8	1376.6	1547.3	1866.7
82.5°	100.0	128.3	130.1	134.5	143.3	186.7	246.8	314.1	864.3	893.5	1125.3
85°	50.4	61.0	65.5	72.5	80.5	114.1	140.7	194.6	556.5	421.1	629.0
87.5°	16.8	17.7	21.2	26.5	32.7	46.9	60.2	79.6	138.0	76.1	194.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451887

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4	3365.4
2.5°	3767.9	3843.1	3898.0	3948.4	3899.7	3895.3	3847.5	3770.6	3738.7	3738.7
5°	3990.0	4166.0	4308.5	4399.6	4360.7	4266.9	4112.1	3914.8	3808.6	3790.0
7.5°	4051.0	4398.7	4663.2	4757.0	4691.5	4484.5	4188.2	3855.5	3703.3	3669.7
10°	4013.9	4465.9	4854.3	5003.0	4911.8	4598.7	4194.3	3786.5	3598.9	3560.0
12.5°	3974.9	4474.8	4889.7	5104.7	5045.4	4690.7	4239.5	3741.4	3524.6	3468.9
15°	4003.3	4478.3	4846.4	5068.4	5106.5	4801.2	4313.8	3774.1	3509.6	3450.3
17.5°	4182.0	4545.6	4784.4	4964.0	5097.6	4951.6	4525.2	3930.7	3644.1	3570.6
20°	4555.3	4706.6	4819.8	4958.7	5173.7	5258.6	4957.8	4360.7	4021.8	3957.2
22.5°	5636.4	5609.0	5377.2	5374.5	5685.9	6026.6	6006.2	5234.8	4725.2	4672.1
25°	6041.6	5914.2	5578.9	5497.5	5634.6	6160.1	6084.1	5413.5	4942.8	4813.6
27.5°	5883.2	5567.4	5347.1	5328.5	5283.4	5779.7	5962.9	5486.0	5018.9	4893.3
30°	5873.5	5409.0	5094.1	5131.2	5174.6	5648.8	6030.1	5713.4	5213.5	5079.0
32.5°	5897.4	5431.2	5112.7	5119.7	5248.9	5668.3	6104.4	5961.1	5469.2	5334.7
35°	5993.8	5556.8	5231.2	5214.4	5416.1	5795.6	6230.9	6350.4	5818.7	5665.6
37.5°	6149.5	5807.1	5448.0	5443.5	5736.4	6025.7	6388.4	6743.2	6166.3	6001.8
40°	6378.7	6100.0	5833.7	5809.8	6171.6	6399.9	6592.8	7161.6	6570.6	6359.2
42.5°	6655.6	6451.2	6342.4	6437.1	6784.7	6820.1	6911.3	7548.2	6914.8	6668.8
45°	6912.1	6902.4	7053.7	7304.9	7507.5	7295.2	7243.9	7807.4	7182.0	6914.8
47.5°	7217.4	7481.0	7937.5	8305.5	8517.9	7848.1	7527.9	7976.4	7376.6	7130.7
50°	7527.0	8173.7	8902.7	9415.8	9460.9	8448.9	7723.4	8135.7	7553.5	7297.9
52.5°	7852.6	8726.6	9697.2	10293.4	10205.9	8971.7	7912.7	8243.6	7735.8	7511.1
55°	8135.7	9065.5	10141.3	10713.7	10585.4	9290.2	8117.1	8360.4	7995.9	7806.6
57.5°	8294.0	9093.8	10030.7	10530.5	10391.6	9228.3	8210.9	8447.1	8162.2	8013.6
58°	8317.0	9055.8	9932.5	10424.4	10282.8	9176.1	8210.0	8443.5	8172.8	8023.3
60°	8296.7	8808.9	9567.1	10005.0	9856.4	8848.7	8176.4	8377.2	8038.4	7911.8
62.5°	8108.2	8380.7	8936.3	9254.8	9212.3	8337.4	8038.4	8126.8	7628.7	7506.7
65°	7860.5	7796.8	8128.6	8354.2	8386.0	7954.3	7901.2	7585.4	7103.2	6930.7
67.5°	7559.7	7135.1	7134.2	7262.5	7315.6	7365.1	7615.5	6997.1	6345.9	6163.7
70°	7049.3	6115.0	5833.7	5985.0	5940.7	6359.2	7105.0	6170.8	5432.9	5219.7
72.5°	6113.3	4852.6	4402.3	4596.9	4485.4	4987.0	6216.8	5078.2	4492.5	4230.6
75°	4955.2	3629.9	3165.4	3344.2	3275.1	3783.0	5172.8	3688.3	3222.1	3122.1
77.5°	3847.5	2630.2	2360.4	2335.6	2386.9	2815.1	3794.5	2490.4	2124.2	2056.0
80°	2471.8	1882.6	1898.6	1866.7	1893.3	1774.7	2303.8	1588.9	1438.5	1383.7
82.5°	1627.0	1312.0	1564.1	1443.8	1371.3	1193.5	1511.1	1040.4	882.9	852.8
85°	1108.5	966.1	879.4	672.4	791.8	919.2	1133.3	560.0	444.1	402.5
87.5°	500.7	336.2	246.8	152.2	240.6	277.8	550.3	65.5	50.4	52.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)