

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: P457426

Luminaire Tested: **GALN-SA8D-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457426
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-SA8D-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 49038 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

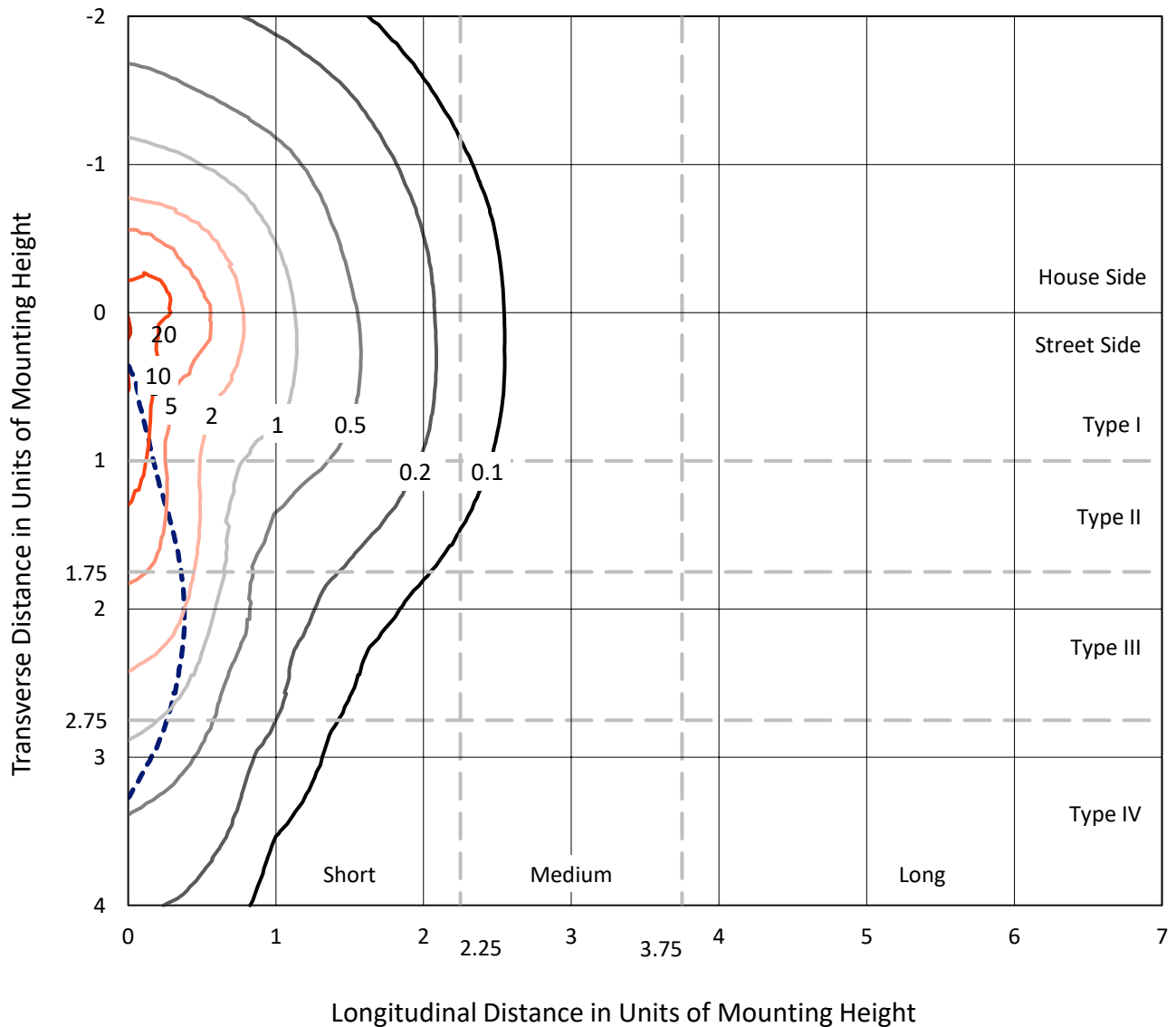
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

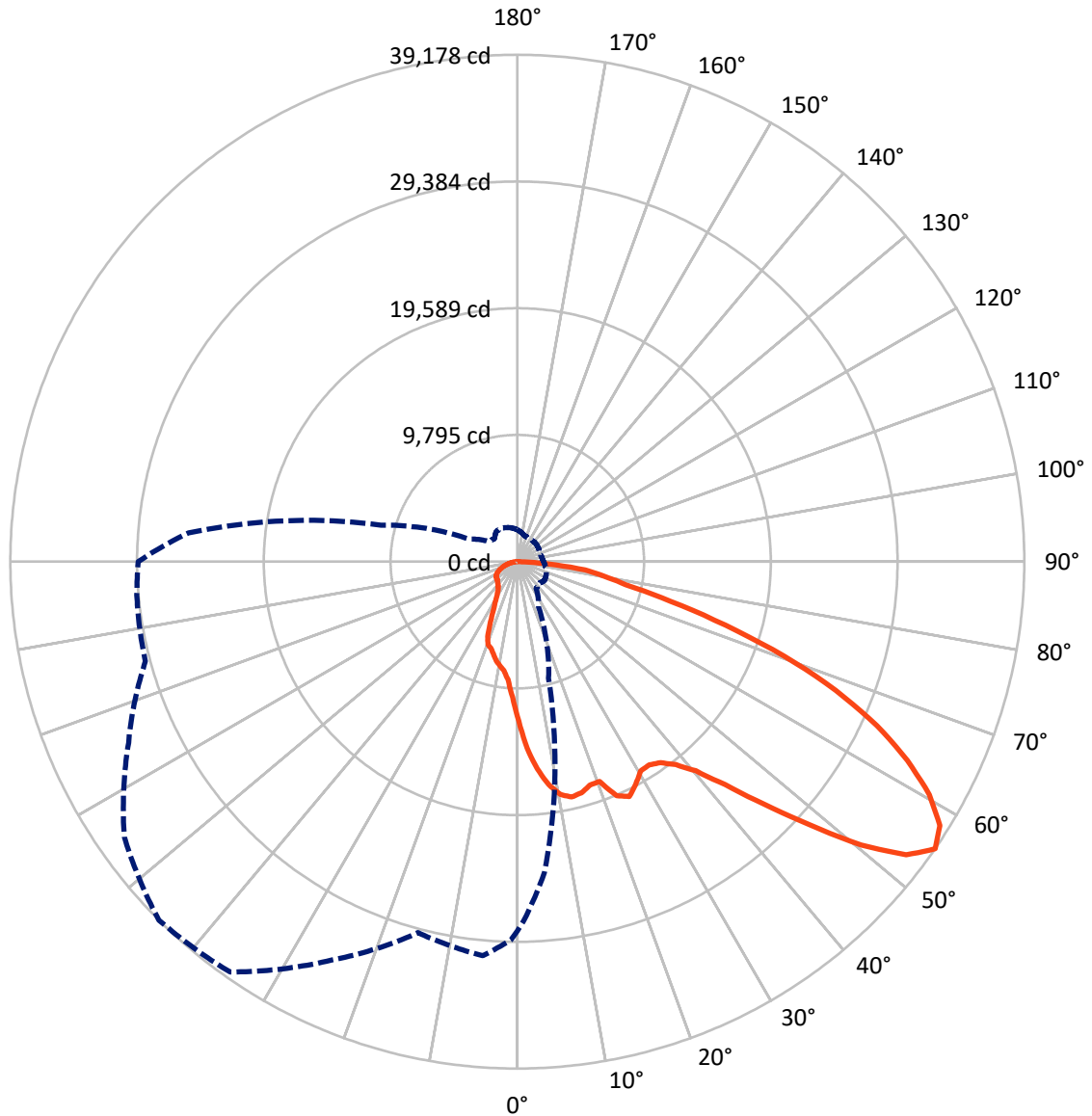
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 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	10726.8	0.0	10726.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	38311.2	0.0	38311.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	49038.0	0.0	49038.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1043.0	2.1
10°-20°	2767.2	5.6
20°-30°	4780.4	9.7
30°-40°	5555.6	11.3
40°-50°	7751.2	15.8
50°-60°	10517.5	21.4
60°-70°	10006.1	20.4
70°-80°	5405.6	11.0
80°-90°	1211.5	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°	49038.0	100.0
0°-180°	49038.0	100.0

Coefficient of Utilization



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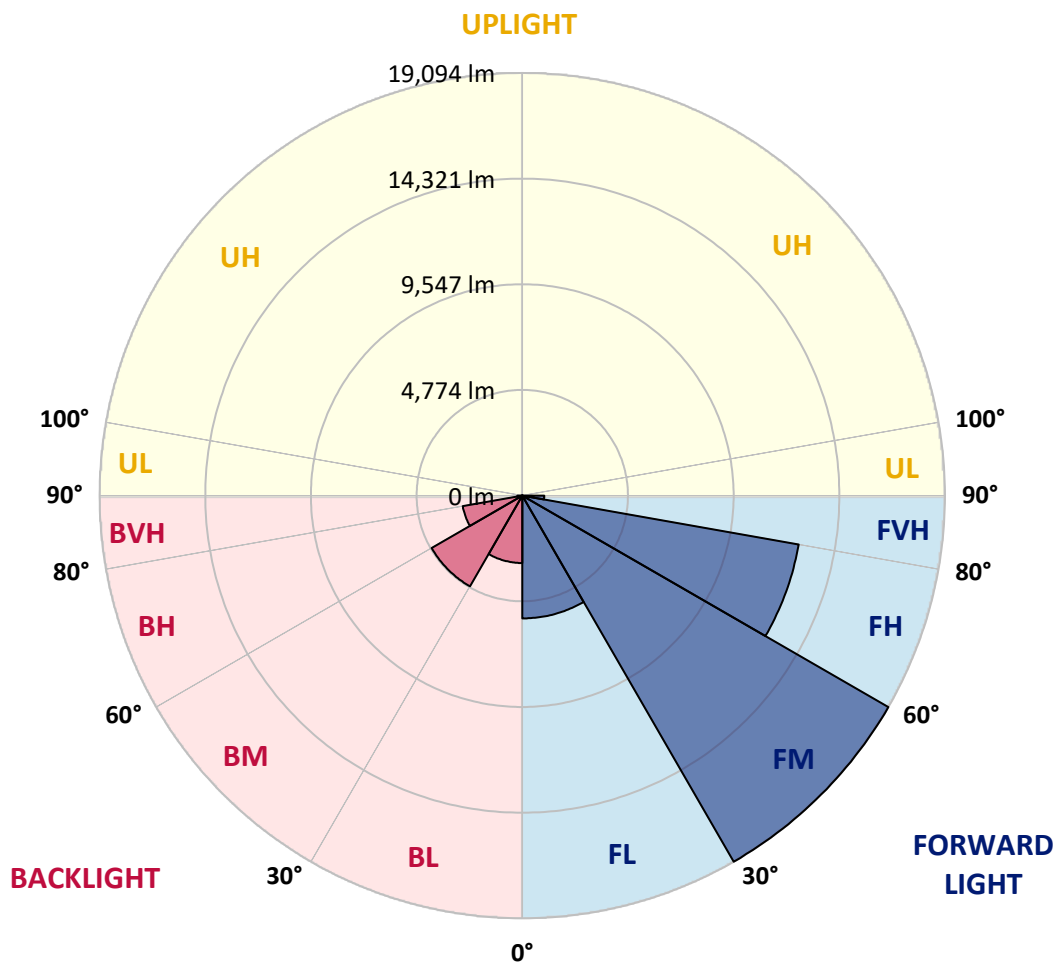
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5546.3	11.3			
FM	(30°-60°)	19094.4	38.9			
FH	(60°-80°)	12680.4	25.9			G5
FVH	(80°-90°)	990.1	2.0			G5
BL	(0°-30°)	3044.3	6.2	B4/5000		
BM	(30°-60°)	4729.8	9.6	B3/5000		
BH	(60°-80°)	2731.3	5.6	B4/5000		G4/5000
BVH	(80°-90°)	221.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6
2.5°	13671.9	13620.1	13474.5	13092.8	12707.8	12316.3	12015.5	11640.2	11248.7	11038.4	10769.9
5°	13859.5	13801.3	13458.3	12597.8	11818.1	10999.6	10346.1	9773.5	9540.5	9197.6	8922.6
7.5°	13419.5	13393.6	12879.2	11643.4	10575.8	9505.0	8764.1	8304.7	7887.4	7732.1	7764.4
10°	13018.4	12914.8	12271.0	10656.7	9411.1	8540.9	8010.3	7560.6	7266.2	7188.6	7204.7
12.5°	12685.1	12546.0	11785.8	9993.5	8903.2	8207.7	7531.5	7062.4	6793.9	6868.3	7120.6
15°	12617.2	12429.6	11581.9	9767.0	8625.0	7728.8	6988.0	6447.7	6247.1	6408.9	6813.3
17.5°	13057.2	12821.0	11931.3	9841.4	8359.7	7240.3	6331.2	5713.3	5545.1	5803.9	6331.2
20°	14471.0	14121.6	13021.6	10271.7	8333.8	6997.7	5949.5	5328.3	5399.5	5891.3	6441.2
22.5°	17085.0	16560.9	14930.4	10899.3	8469.7	6936.2	5871.9	5548.3	5939.8	6357.1	6719.5
25°	17602.6	17191.7	15273.3	11041.7	8440.6	6894.2	6091.8	6253.6	6690.4	6897.4	6771.2
27.5°	17893.8	17424.7	15250.6	10336.4	7547.7	6253.6	5823.3	6091.8	6201.8	6001.3	5658.3
30°	18573.2	18084.7	15635.6	9595.5	6214.8	4639.2	4066.6	3956.6	4031.0	4069.9	3946.9
32.5°	19508.1	19026.1	16360.3	9110.3	5373.6	3836.9	3274.0	3118.7	3083.1	3041.1	2992.5
35°	20718.1	19977.2	17072.0	8799.7	5027.5	3549.0	3031.4	2911.7	2863.1	2804.9	2753.1
37.5°	21947.5	21171.0	17971.4	8472.9	4797.8	3348.4	2869.6	2814.6	2730.5	2669.0	2594.6
40°	23254.5	22384.2	18789.9	8188.2	4574.5	3219.0	2753.1	2746.7	2636.7	2565.5	2478.1
42.5°	24386.8	23490.6	19521.1	8013.5	4403.1	3083.1	2682.0	2701.4	2588.1	2481.4	2368.2
45°	25286.2	24406.2	20197.2	8013.5	4264.0	2947.2	2669.0	2656.1	2542.9	2410.2	2280.8
47.5°	26075.5	25166.5	20857.2	8217.4	4176.6	2834.0	2597.8	2620.5	2504.0	2335.8	2209.6
50°	26687.0	25884.7	21746.9	8534.4	4089.3	2743.4	2507.3	2630.2	2471.7	2297.0	2151.4
52.5°	27466.7	26748.5	22817.7	8967.9	4014.9	2643.1	2426.4	2630.2	2468.4	2300.2	2141.7
55°	28547.2	27790.2	24108.6	9327.0	3895.2	2549.3	2355.2	2555.8	2458.7	2284.0	2115.8
57.5°	29304.3	28738.1	25020.9	9566.4	3723.7	2429.6	2290.5	2484.6	2416.7	2222.6	2038.2
58°	29339.8	28786.6	25153.5	9621.4	3681.6	2407.0	2274.3	2452.3	2397.3	2196.7	2012.3
60°	28932.2	28456.6	25179.4	9543.8	3442.2	2293.7	2190.2	2319.6	2293.7	2044.6	1873.2
62.5°	27450.5	26942.6	24134.4	8912.9	3125.2	2154.6	2060.8	2141.7	2083.5	1831.1	1672.6
65°	25344.4	24409.4	21986.3	7923.0	2898.7	2005.8	1886.1	1892.6	1831.1	1649.9	1510.8
67.5°	22539.5	21494.5	18615.2	6677.4	2727.3	1840.8	1679.1	1662.9	1588.5	1472.0	1358.8
70°	19087.6	18372.6	15127.7	5431.9	2536.4	1659.6	1446.1	1436.4	1391.1	1303.8	1203.5
72.5°	15470.6	14561.5	12216.0	4348.1	2303.4	1484.9	1229.4	1248.8	1190.5	1129.1	1038.5
75°	11416.9	10821.7	9443.5	3487.5	1989.6	1294.1	1025.6	1032.0	1006.1	941.4	870.3
77.5°	7518.6	7340.6	6755.1	2290.5	1530.2	1028.8	837.9	844.4	825.0	766.7	692.3
80°	5059.8	4940.1	4577.8	1475.2	1022.3	744.1	647.0	653.5	650.3	588.8	488.5
82.5°	3118.7	3067.0	2950.5	996.4	708.5	533.8	427.0	446.5	482.0	414.1	333.2
85°	1472.0	1475.2	1782.6	543.5	417.3	342.9	232.9	249.1	249.1	249.1	187.6
87.5°	190.9	200.6	245.9	229.7	152.1	129.4	84.1	71.2	61.5	80.9	58.2
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°	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6
2.5°	10676.1	10611.4	10472.3	10439.9	10420.5	10475.5	10329.9	10368.7	10304.0	10485.2	10456.1
5°	8938.8	8945.3	9058.5	9132.9	9158.8	9132.9	9035.9	8867.6	8738.2	8686.5	8699.4
7.5°	7703.0	7816.2	8010.3	8227.1	8424.4	8482.6	8427.6	8107.4	7758.0	7538.0	7466.8
10°	7292.1	7444.1	7667.4	7838.8	8013.5	8152.7	8181.8	7932.7	7518.6	6997.7	6793.9
12.5°	7314.7	7521.8	7735.3	7790.3	7774.1	7829.1	7803.3	7761.2	7489.4	6826.2	6486.5
15°	7101.2	7347.1	7495.9	7466.8	7415.0	7366.5	7298.6	7191.8	7094.7	6628.9	6253.6
17.5°	6609.5	6861.8	6984.8	6994.5	6994.5	6981.5	6816.5	6777.7	6764.8	6538.3	6308.6
20°	6700.1	6839.2	6784.2	6693.6	6719.5	6806.8	6709.8	6690.4	6764.8	6865.1	6823.0
22.5°	6751.8	6703.3	6289.2	5888.0	5797.4	6069.2	6124.2	6341.0	6641.8	7004.2	7240.3
25°	6431.5	6040.1	5299.2	4846.3	4590.7	4843.1	5173.1	5574.2	6023.9	6489.8	6764.8
27.5°	5376.9	5079.2	4548.7	4141.0	3917.8	3956.6	4238.1	4603.7	5021.0	5334.8	5535.4
30°	4050.4	3917.8	3642.8	3503.7	3367.8	3335.5	3455.2	3594.3	3778.7	3817.5	3869.3
32.5°	2982.8	2963.4	2979.6	2934.3	2908.4	2905.2	2869.6	2902.0	2921.4	2944.0	2898.7
35°	2698.1	2672.3	2627.0	2614.0	2597.8	2604.3	2588.1	2572.0	2584.9	2604.3	2617.3
37.5°	2552.6	2513.7	2449.0	2426.4	2426.4	2436.1	2410.2	2403.7	2426.4	2487.9	2520.2
40°	2439.3	2394.0	2319.6	2290.5	2309.9	2335.8	2300.2	2287.3	2342.3	2407.0	2458.7
42.5°	2332.6	2297.0	2225.8	2193.5	2209.6	2258.2	2206.4	2196.7	2267.9	2339.0	2400.5
45°	2242.0	2206.4	2141.7	2125.5	2132.0	2177.3	2141.7	2141.7	2209.6	2287.3	2342.3
47.5°	2170.8	2125.5	2083.5	2070.5	2077.0	2102.9	2096.4	2096.4	2161.1	2242.0	2297.0
50°	2099.6	2060.8	2005.8	2012.3	2028.5	2064.0	2060.8	2070.5	2135.2	2235.5	2293.7
52.5°	2067.3	2009.0	1947.6	1954.0	2002.6	2044.6	2031.7	2041.4	2115.8	2303.4	2387.6
55°	2031.7	1954.0	1882.9	1892.6	1947.6	2009.0	1992.9	2005.8	2093.2	2348.7	2465.2
57.5°	1963.8	1873.2	1795.5	1802.0	1882.9	1947.6	1921.7	1937.9	2041.4	2300.2	2423.1
58°	1934.6	1857.0	1782.6	1785.8	1863.5	1934.6	1905.5	1918.5	2025.2	2287.3	2403.7
60°	1811.7	1766.4	1701.7	1704.9	1779.3	1840.8	1824.6	1837.6	1941.1	2193.5	2280.8
62.5°	1643.5	1617.6	1601.4	1601.4	1646.7	1704.9	1721.1	1737.3	1831.1	1983.2	2060.8
65°	1462.3	1462.3	1465.5	1465.5	1494.7	1569.1	1578.8	1620.8	1708.2	1782.6	1840.8
67.5°	1339.4	1332.9	1339.4	1323.2	1336.1	1381.4	1429.9	1468.8	1559.4	1611.1	1630.5
70°	1180.8	1177.6	1180.8	1158.2	1174.4	1213.2	1245.5	1310.2	1404.1	1442.9	1452.6
72.5°	1025.6	1025.6	1032.0	1015.8	1015.8	1057.9	1080.5	1151.7	1239.1	1261.7	1265.0
75°	863.8	873.5	873.5	850.9	857.3	883.2	912.3	970.6	1051.4	1067.6	1067.6
77.5°	685.9	721.4	721.4	698.8	708.5	711.7	750.6	779.7	841.1	847.6	821.7
80°	498.2	533.8	562.9	543.5	559.7	540.3	562.9	582.3	643.8	614.7	572.6
82.5°	355.9	381.8	404.4	407.6	391.5	355.9	385.0	388.2	417.3	378.5	355.9
85°	197.3	220.0	249.1	236.2	210.3	187.6	197.3	203.8	200.6	190.9	177.9
87.5°	51.8	55.0	61.5	45.3	42.1	35.6	48.5	48.5	55.0	58.2	55.0
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°	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6
2.5°	10478.7	10621.1	10928.4	11161.4	11446.1	11792.2	12199.9	12610.7	13053.9	13193.1	13387.2
5°	8670.3	9026.2	9175.0	9598.8	10019.4	10650.2	11323.1	12102.8	12956.9	13367.8	13762.5
7.5°	7408.6	7599.4	7754.7	8065.3	8570.0	9336.7	10181.1	11154.9	12364.9	12963.4	13542.5
10°	6729.2	6748.6	6939.5	7324.4	7764.4	8440.6	9239.7	10329.9	11679.0	12406.9	13086.3
12.5°	6279.5	6195.4	6402.4	6803.6	7301.8	7926.2	8660.6	9699.1	11184.0	11931.3	12753.1
15°	5884.8	5752.1	5907.4	6318.3	6810.1	7544.4	8333.8	9433.8	10989.9	11860.2	12772.5
17.5°	5894.5	5528.9	5583.9	5930.1	6418.6	7165.9	8123.5	9424.1	11284.3	12287.2	13367.8
20°	6622.4	6036.8	5787.7	5852.4	6324.8	7140.0	8220.6	9877.0	12251.6	13713.9	14868.9
22.5°	7337.4	6984.8	6583.6	6450.9	6709.8	7563.8	8838.5	10947.8	14354.5	16557.6	18644.3
25°	7088.3	7389.1	7288.9	7101.2	7159.5	7868.0	9259.1	11827.8	15988.3	18469.6	20430.2
27.5°	5671.3	6218.0	6328.0	6324.8	6347.4	6929.8	8327.4	11235.8	16192.1	18835.2	20708.4
30°	3985.7	4034.3	4092.5	4205.7	4309.3	4830.1	6515.7	9864.1	16101.5	19000.2	20876.6
32.5°	2876.1	2940.8	3021.7	3176.9	3422.8	4086.0	5700.4	9427.3	16580.3	19682.8	21368.4
35°	2630.2	2704.6	2782.3	2960.2	3193.1	3807.8	5376.9	9246.1	17366.4	20789.3	22251.6
37.5°	2552.6	2636.7	2704.6	2834.0	3021.7	3607.2	5082.5	9123.2	18172.0	21960.4	23435.6
40°	2497.6	2594.6	2649.6	2753.1	2882.5	3422.8	4820.4	9026.2	18951.7	23031.2	24386.8
42.5°	2449.0	2549.3	2620.5	2694.9	2801.7	3257.8	4587.5	8929.1	19627.8	24069.7	25334.7
45°	2390.8	2517.0	2607.6	2665.8	2759.6	3118.7	4409.5	8851.5	20397.8	24991.8	26292.3
47.5°	2342.3	2481.4	2594.6	2662.6	2698.1	3021.7	4267.2	8958.2	21323.1	25955.8	27182.0
50°	2345.5	2478.1	2620.5	2727.3	2633.4	2940.8	4179.9	9382.0	22526.6	27101.1	27884.0
52.5°	2449.0	2610.8	2724.0	2749.9	2542.9	2843.7	4134.6	10122.9	23950.0	28113.7	28592.5
55°	2565.5	2733.7	2856.7	2840.5	2494.3	2720.8	4124.9	10912.3	25509.4	29294.5	29514.5
57.5°	2523.4	2769.3	2957.0	2872.8	2497.6	2601.1	4082.8	11549.6	26813.2	30177.8	30426.9
58°	2510.5	2756.4	2969.9	2866.4	2487.9	2565.5	4073.1	11604.6	26994.3	30239.2	30556.3
60°	2384.3	2643.1	2960.2	2817.8	2432.9	2468.4	3966.3	11782.5	26945.8	29922.2	30633.9
62.5°	2154.6	2368.2	2737.0	2581.7	2264.6	2339.0	3726.9	11562.5	25632.3	28395.2	29498.4
65°	1895.8	2054.3	2300.2	2271.1	2025.2	2206.4	3400.2	10692.3	23002.1	25917.0	27078.5
67.5°	1701.7	1831.1	1986.4	1944.3	1821.4	2028.5	3047.5	9220.3	20051.6	22940.7	24403.0
70°	1504.4	1604.6	1682.3	1653.2	1614.4	1853.8	2733.7	7483.0	17224.1	20113.1	21530.1
72.5°	1303.8	1397.6	1462.3	1420.2	1397.6	1669.4	2478.1	5807.1	13603.9	16593.2	18414.6
75°	1090.3	1184.1	1229.4	1180.8	1167.9	1472.0	2099.6	4338.4	10207.0	12791.9	14364.2
77.5°	844.4	944.7	1002.9	986.7	993.2	1210.0	1695.2	2969.9	7298.6	8718.8	10375.2
80°	592.0	702.0	740.9	724.7	770.0	922.0	1197.0	1886.1	5033.9	5658.3	6826.2
82.5°	365.6	469.1	475.6	491.7	524.1	682.6	902.6	1148.5	3160.8	3267.5	4115.1
85°	184.4	223.2	239.4	265.3	294.4	417.3	514.4	711.7	2034.9	1539.9	2300.2
87.5°	61.5	64.7	77.6	97.1	119.7	171.5	220.0	291.2	504.7	278.2	711.7
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: P457426

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6	12306.6
2.5°	13778.6	14053.6	14254.2	14438.6	14260.7	14244.5	14069.8	13788.3	13671.9	13671.9
5°	14590.7	15234.5	15755.3	16088.5	15946.2	15603.3	15037.1	14315.7	13927.4	13859.5
7.5°	14813.9	16085.3	17052.6	17395.6	17156.2	16399.1	15315.3	14098.9	13542.5	13419.5
10°	14678.0	16331.2	17751.4	18294.9	17961.7	16816.5	15338.0	13846.6	13160.7	13018.4
12.5°	14535.7	16363.5	17880.8	18667.0	18450.2	17152.9	15503.0	13681.6	12889.0	12685.1
15°	14639.2	16376.5	17722.3	18534.3	18673.5	17557.3	15774.7	13801.3	12834.0	12617.2
17.5°	15292.7	16622.4	17495.9	18152.6	18641.1	18107.3	16547.9	14373.9	13325.7	13057.2
20°	16657.9	17211.2	17625.3	18133.2	18919.3	19229.9	18129.9	15946.2	14707.1	14471.0
22.5°	20611.3	20511.0	19663.4	19653.7	20792.5	22038.0	21963.6	19142.6	17279.1	17085.0
25°	22093.0	21627.2	20401.0	20103.4	20604.9	22526.6	22248.3	19796.1	18074.9	17602.6
27.5°	21513.9	20359.0	19553.4	19485.5	19320.5	21135.4	21805.1	20061.3	18353.2	17893.8
30°	21478.4	19779.9	18628.2	18764.0	18922.6	20656.6	22051.0	20892.8	19064.9	18573.2
32.5°	21565.7	19860.8	18696.1	18722.0	19194.3	20727.8	22322.7	21798.6	19999.9	19508.1
35°	21918.3	20320.2	19129.6	19068.1	19805.8	21193.7	22785.4	23222.1	21277.8	20718.1
37.5°	22487.7	21235.7	19922.2	19906.1	20976.9	22034.8	23361.2	24658.5	22549.2	21947.5
40°	23325.6	22306.6	21332.8	21245.4	22568.6	23403.3	24108.6	26188.8	24027.7	23254.5
42.5°	24338.3	23590.9	23193.0	23539.2	24810.6	24940.0	25273.2	27602.6	25286.2	24386.8
45°	25276.5	25240.9	25794.1	26712.9	27453.7	26677.3	26489.6	28550.5	26263.2	25286.2
47.5°	26392.6	27356.7	29026.0	30371.9	31148.3	28699.3	27528.1	29168.4	26974.9	26075.5
50°	27524.9	29889.8	32555.6	34432.0	34597.0	30896.0	28243.1	29750.7	27622.0	26687.0
52.5°	28715.5	31911.8	35460.8	37641.3	37321.0	32808.0	28935.4	30145.4	28288.4	27466.7
55°	29750.7	33150.9	37084.9	39178.0	38708.9	33972.6	29682.8	30572.4	29239.6	28547.2
57.5°	30329.8	33254.4	36680.5	38508.3	38000.4	33746.2	30025.7	30889.5	29847.8	29304.3
58°	30413.9	33115.3	36321.4	38120.1	37602.5	33555.3	30022.5	30876.6	29886.6	29339.8
60°	30339.5	32212.7	34985.2	36586.6	36043.1	32358.3	29899.5	30633.9	29394.8	28932.2
62.5°	29650.4	30646.9	32678.5	33843.2	33687.9	30488.3	29394.8	29718.4	27897.0	27450.5
65°	28744.6	28511.6	29724.8	30549.8	30666.3	29087.5	28893.4	27738.4	25975.3	25344.4
67.5°	27644.6	26091.7	26088.5	26557.6	26751.7	26932.9	27848.4	25587.0	23205.9	22539.5
70°	25777.9	22361.6	21332.8	21886.0	21724.2	23254.5	25981.7	22565.4	19867.2	19087.6
72.5°	22355.1	17745.0	16098.3	16810.0	16402.4	18236.7	22733.6	18569.9	16428.2	15470.6
75°	18120.2	13273.9	11575.5	12229.0	11976.6	13833.6	18916.1	13487.5	11782.5	11416.9
77.5°	14069.8	9618.2	8631.5	8540.9	8728.5	10294.3	13875.7	9107.0	7767.7	7518.6
80°	9039.1	6884.5	6942.7	6826.2	6923.3	6489.8	8424.4	5810.4	5260.4	5059.8
82.5°	5949.5	4797.8	5719.8	5279.8	5014.5	4364.3	5525.7	3804.6	3228.7	3118.7
85°	4053.7	3532.8	3215.8	2458.7	2895.5	3361.4	4144.3	2047.9	1624.1	1472.0
87.5°	1831.1	1229.4	902.6	556.5	880.0	1015.8	2012.3	239.4	184.4	190.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)