

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: P459427

Luminaire Tested: **GALN-SA8D-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459427
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-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 50160 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 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

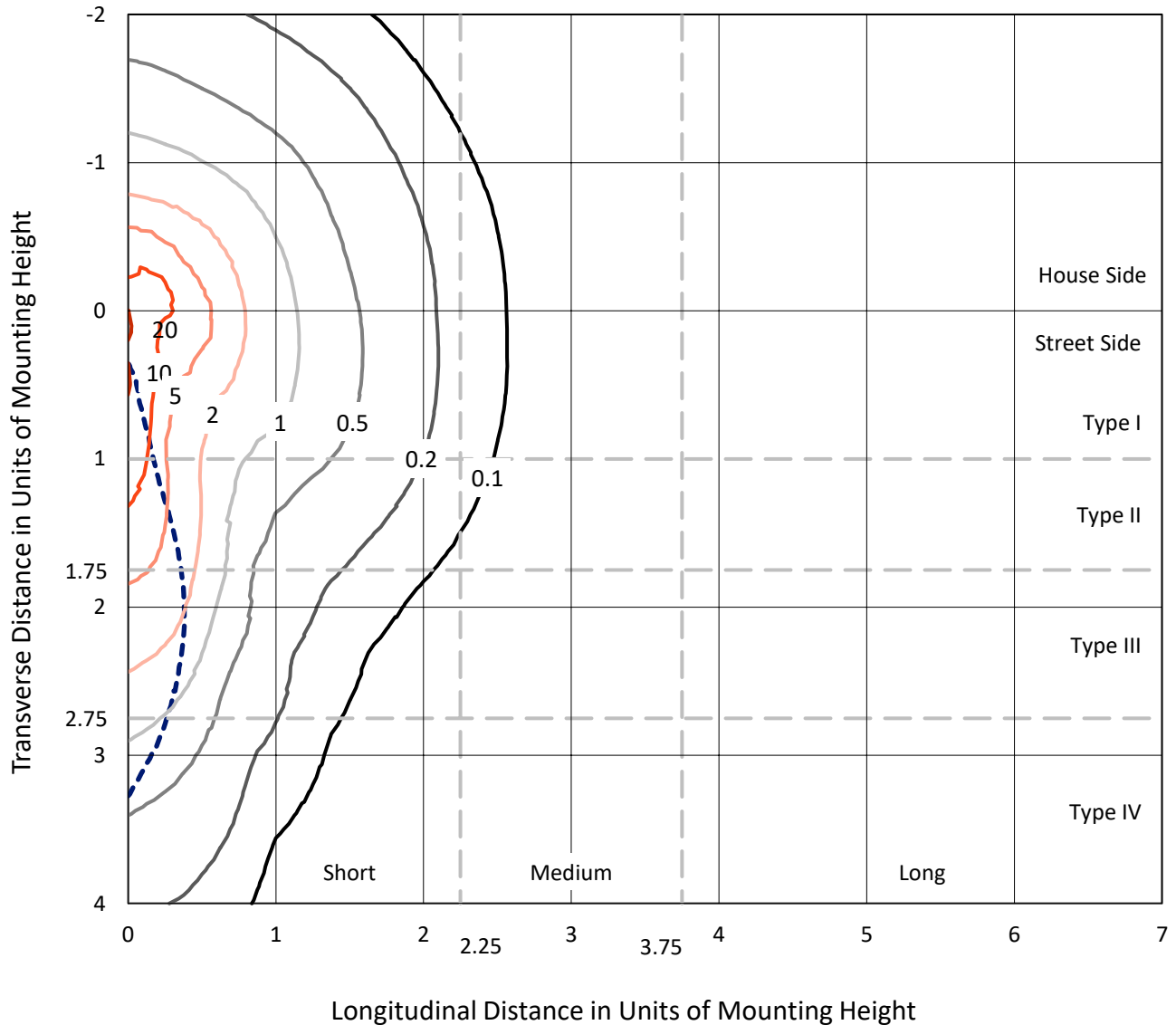




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Iso-Footcandle Lines of Horizontal Illumination

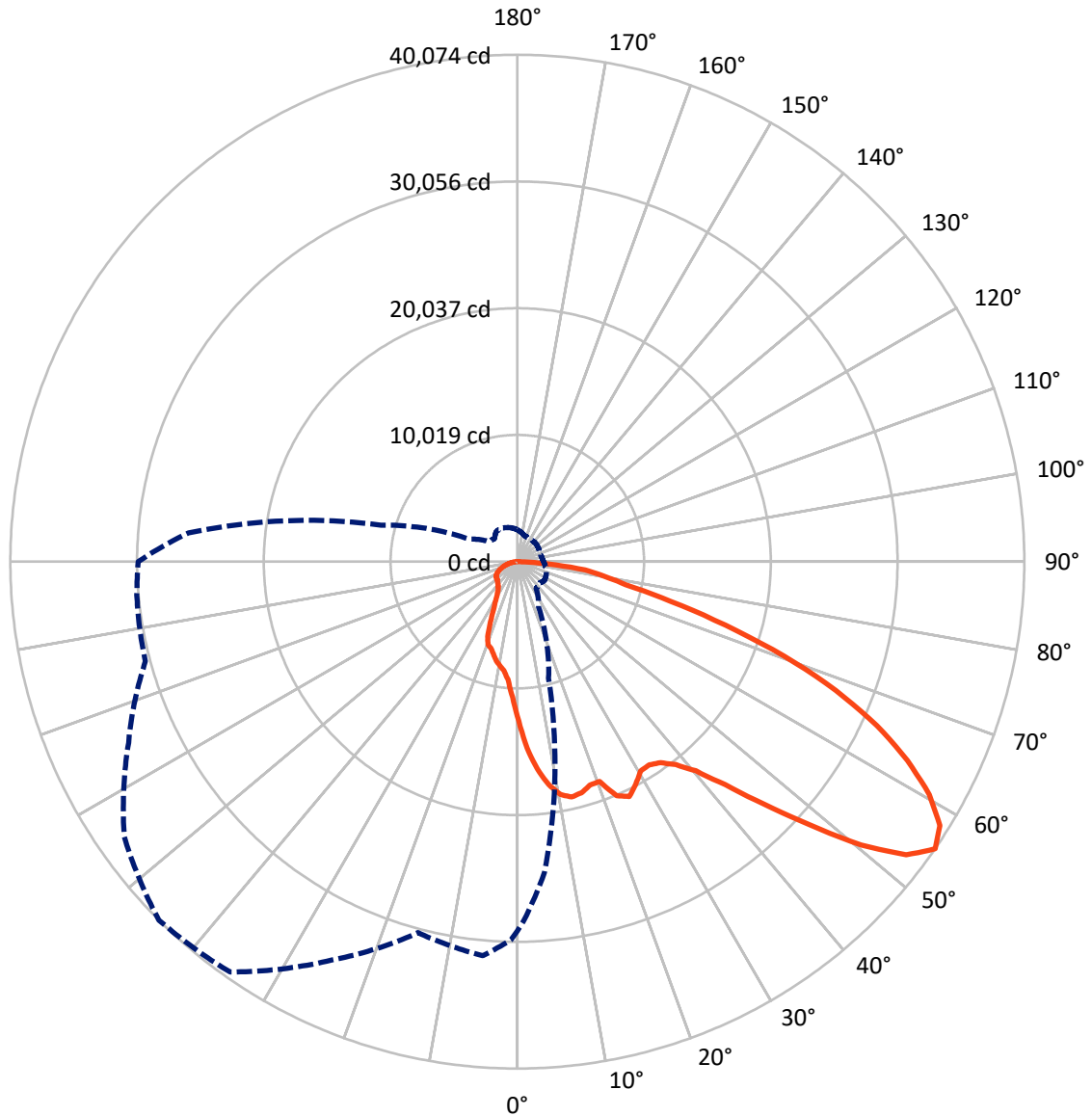
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.6 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	10972.3	0.0	10972.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	39187.7	0.0	39187.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	50160.0	0.0	50160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1066.9	2.1
10°-20°	2830.5	5.6
20°-30°	4889.8	9.7
30°-40°	5682.7	11.3
40°-50°	7928.5	15.8
50°-60°	10758.1	21.4
60°-70°	10235.1	20.4
70°-80°	5529.3	11.0
80°-90°	1239.2	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°	50160.0	100.0
0°-180°	50160.0	100.0

Coefficient of Utilization



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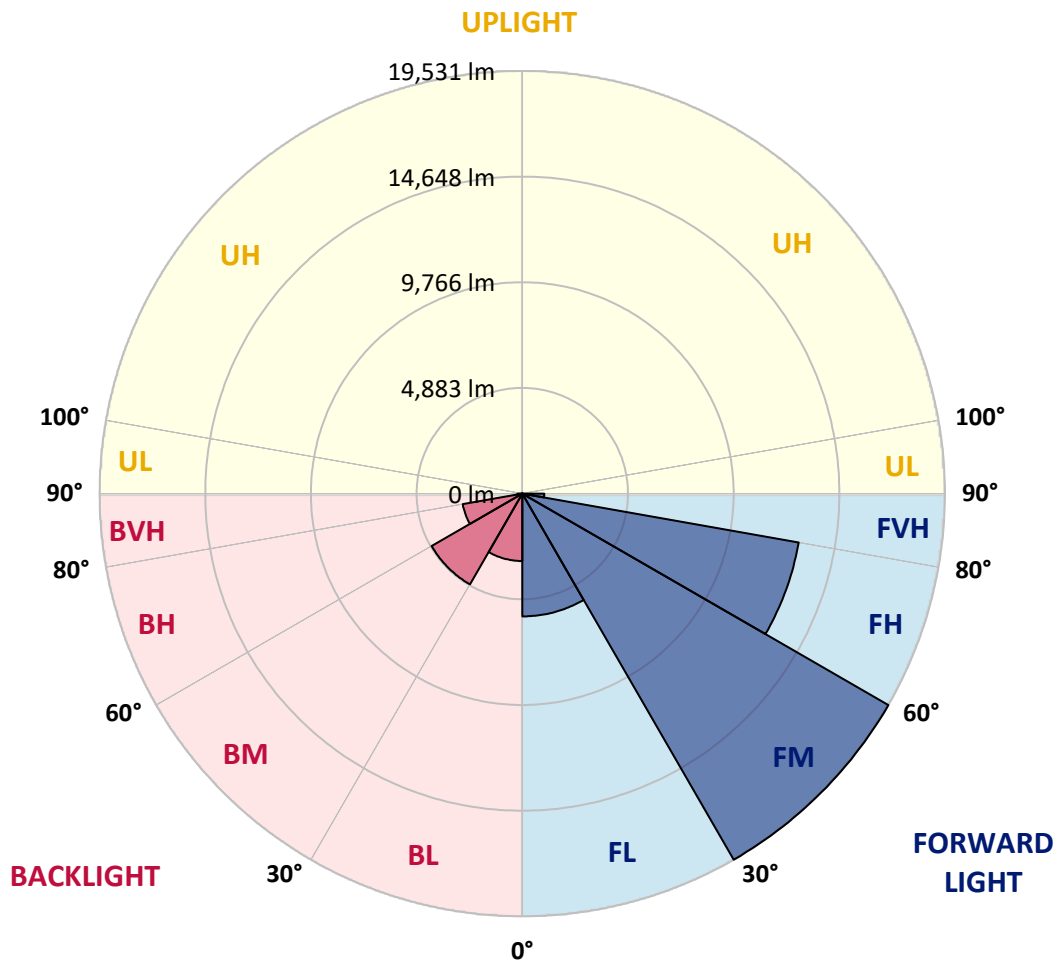
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5673.2	11.3			
FM	(30°-60°)	19531.3	38.9			
FH	(60°-80°)	12970.5	25.9			G5
FVH	(80°-90°)	1012.7	2.0			G5
BL	(0°-30°)	3114.0	6.2	B4/5000		
BM	(30°-60°)	4838.1	9.6	B3/5000		
BH	(60°-80°)	2793.8	5.6	B4/5000		G4/5000
BVH	(80°-90°)	226.5	0.5			G3/500
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°	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2
2.5°	13984.7	13931.7	13782.8	13392.3	12998.5	12598.1	12290.4	11906.5	11506.1	11291.0	11016.3
5°	14176.6	14117.1	13766.3	12886.0	12088.5	11251.3	10582.8	9997.1	9758.8	9408.1	9126.8
7.5°	13726.6	13700.1	13173.9	11909.8	10817.8	9722.4	8964.6	8494.7	8067.8	7909.0	7942.1
10°	13316.2	13210.3	12551.8	10900.5	9626.5	8736.3	8193.6	7733.6	7432.5	7353.0	7369.6
12.5°	12975.4	12833.1	12055.4	10222.1	9106.9	8395.4	7703.8	7224.0	6949.3	7025.4	7283.6
15°	12905.9	12714.0	11846.9	9990.5	8822.3	7905.7	7147.9	6595.2	6390.1	6555.5	6969.2
17.5°	13355.9	13114.4	12204.3	10066.6	8551.0	7406.0	6476.1	5844.0	5672.0	5936.7	6476.1
20°	14802.1	14444.7	13319.5	10506.7	8524.5	7157.8	6085.6	5450.3	5523.1	6026.1	6588.6
22.5°	17475.9	16939.8	15272.0	11148.7	8663.5	7094.9	6006.2	5675.3	6075.7	6502.6	6873.2
25°	18005.4	17585.1	15622.7	11294.3	8633.7	7051.9	6231.2	6396.7	6843.4	7055.2	6926.2
27.5°	18303.2	17823.4	15599.6	10572.9	7720.4	6396.7	5956.6	6231.2	6343.7	6138.6	5787.8
30°	18998.1	18498.4	15993.4	9815.1	6357.0	4745.4	4159.7	4047.2	4123.3	4163.0	4037.2
32.5°	19954.5	19461.4	16734.6	9318.7	5496.6	3924.7	3348.9	3190.1	3153.7	3110.6	3061.0
35°	21192.1	20434.3	17462.7	9001.0	5142.5	3630.2	3100.7	2978.3	2928.6	2869.1	2816.1
37.5°	22449.6	21655.4	18382.6	8666.8	4907.5	3425.0	2935.3	2879.0	2793.0	2730.1	2654.0
40°	23786.5	22896.4	19219.8	8375.6	4679.2	3292.7	2816.1	2809.5	2697.0	2624.2	2534.8
42.5°	24944.8	24028.1	19967.7	8196.9	4503.8	3153.7	2743.3	2763.2	2647.4	2538.2	2422.3
45°	25864.7	24964.6	20659.3	8196.9	4361.5	3014.7	2730.1	2716.9	2601.0	2465.4	2333.0
47.5°	26672.2	25742.3	21334.4	8405.4	4272.2	2898.9	2657.3	2680.5	2561.3	2389.2	2260.2
50°	27297.6	26476.9	22244.4	8729.7	4182.8	2806.2	2564.6	2690.4	2528.2	2349.5	2200.6
52.5°	28095.1	27360.5	23339.8	9173.1	4106.7	2703.6	2481.9	2690.4	2524.9	2352.8	2190.7
55°	29200.4	28426.0	24660.2	9540.4	3984.3	2607.7	2409.1	2614.3	2515.0	2336.3	2164.2
57.5°	29974.7	29395.6	25593.4	9785.3	3808.9	2485.2	2342.9	2541.5	2472.0	2273.4	2084.8
58°	30011.1	29445.3	25729.0	9841.6	3765.9	2462.0	2326.4	2508.4	2452.1	2246.9	2058.3
60°	29594.2	29107.7	25755.5	9762.1	3521.0	2346.2	2240.3	2372.7	2346.2	2091.4	1916.0
62.5°	28078.6	27559.0	24686.6	9116.8	3196.7	2203.9	2108.0	2190.7	2131.1	1873.0	1710.9
65°	25924.3	24967.9	22489.3	8104.2	2965.0	2051.7	1929.3	1935.9	1873.0	1687.7	1545.4
67.5°	23055.2	21986.3	19041.1	6830.2	2789.7	1882.9	1717.5	1700.9	1624.8	1505.7	1389.9
70°	19524.3	18793.0	15473.8	5556.1	2594.4	1697.6	1479.2	1469.3	1423.0	1333.6	1231.0
72.5°	15824.6	14894.7	12495.5	4447.6	2356.2	1518.9	1257.5	1277.4	1217.8	1154.9	1062.3
75°	11678.2	11069.3	9659.6	3567.3	2035.2	1323.7	1049.0	1055.6	1029.2	963.0	890.2
77.5°	7690.6	7508.6	6909.6	2342.9	1565.3	1052.3	857.1	863.7	843.8	784.3	708.2
80°	5175.6	5053.1	4682.5	1509.0	1045.7	761.1	661.8	668.5	665.1	602.3	499.7
82.5°	3190.1	3137.1	3018.0	1019.2	724.7	546.0	436.8	456.7	493.1	423.6	340.8
85°	1505.7	1509.0	1823.4	555.9	426.9	350.8	238.3	254.8	254.8	254.8	191.9
87.5°	195.2	205.2	251.5	235.0	155.5	132.4	86.0	72.8	62.9	82.7	59.6
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°	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2
2.5°	10920.4	10854.2	10711.9	10678.8	10658.9	10715.2	10566.3	10606.0	10539.8	10725.1	10695.3
5°	9143.3	9149.9	9265.8	9341.9	9368.3	9341.9	9242.6	9070.5	8938.2	8885.2	8898.4
7.5°	7879.2	7995.0	8193.6	8415.3	8617.2	8676.7	8620.5	8292.9	7935.5	7710.4	7637.6
10°	7458.9	7614.5	7842.8	8018.2	8196.9	8339.2	8369.0	8114.2	7690.6	7157.8	6949.3
12.5°	7482.1	7693.9	7912.3	7968.6	7952.0	8008.3	7981.8	7938.8	7660.8	6982.4	6634.9
15°	7263.7	7515.2	7667.4	7637.6	7584.7	7535.1	7465.6	7356.4	7257.1	6780.6	6396.7
17.5°	6760.7	7018.8	7144.6	7154.5	7154.5	7141.3	6972.5	6932.8	6919.5	6687.9	6452.9
20°	6853.4	6995.7	6939.4	6846.7	6873.2	6962.6	6863.3	6843.4	6919.5	7022.1	6979.1
22.5°	6906.3	6856.7	6433.1	6022.7	5930.1	6208.1	6264.3	6486.0	6793.8	7164.4	7406.0
25°	6578.7	6178.3	5420.5	4957.2	4695.8	4953.9	5291.4	5701.8	6161.7	6638.3	6919.5
27.5°	5499.9	5195.4	4652.7	4235.8	4007.4	4047.2	4335.1	4709.0	5135.9	5456.9	5662.0
30°	4143.1	4007.4	3726.2	3583.9	3444.9	3411.8	3534.2	3676.5	3865.1	3904.9	3957.8
32.5°	3051.1	3031.2	3047.8	3001.4	2975.0	2971.7	2935.3	2968.4	2988.2	3011.4	2965.0
35°	2759.9	2733.4	2687.1	2673.8	2657.3	2663.9	2647.4	2630.8	2644.1	2663.9	2677.1
37.5°	2611.0	2571.2	2505.1	2481.9	2481.9	2491.8	2465.4	2458.7	2481.9	2544.8	2577.9
40°	2495.1	2448.8	2372.7	2342.9	2362.8	2389.2	2352.8	2339.6	2395.9	2462.0	2515.0
42.5°	2385.9	2349.5	2276.7	2243.6	2260.2	2309.8	2256.9	2246.9	2319.7	2392.6	2455.4
45°	2293.3	2256.9	2190.7	2174.1	2180.8	2227.1	2190.7	2190.7	2260.2	2339.6	2395.9
47.5°	2220.5	2174.1	2131.1	2117.9	2124.5	2151.0	2144.4	2144.4	2210.5	2293.3	2349.5
50°	2147.7	2108.0	2051.7	2058.3	2074.9	2111.3	2108.0	2117.9	2184.1	2286.7	2346.2
52.5°	2114.6	2055.0	1992.1	1998.8	2048.4	2091.4	2078.2	2088.1	2164.2	2356.2	2442.2
55°	2078.2	1998.8	1926.0	1935.9	1992.1	2055.0	2038.5	2051.7	2141.1	2402.5	2521.6
57.5°	2008.7	1916.0	1836.6	1843.2	1926.0	1992.1	1965.7	1982.2	2088.1	2352.8	2478.6
58°	1978.9	1899.5	1823.4	1826.7	1906.1	1978.9	1949.1	1962.4	2071.6	2339.6	2458.7
60°	1853.2	1806.8	1740.6	1743.9	1820.1	1882.9	1866.4	1879.6	1985.5	2243.6	2333.0
62.5°	1681.1	1654.6	1638.1	1638.1	1684.4	1743.9	1760.5	1777.0	1873.0	2028.5	2108.0
65°	1495.8	1495.8	1499.1	1499.1	1528.9	1605.0	1614.9	1657.9	1747.3	1823.4	1882.9
67.5°	1370.0	1363.4	1370.0	1353.5	1366.7	1413.0	1462.7	1502.4	1595.0	1648.0	1667.8
70°	1207.9	1204.5	1207.9	1184.7	1201.2	1241.0	1274.0	1340.2	1436.2	1475.9	1485.8
72.5°	1049.0	1049.0	1055.6	1039.1	1039.1	1082.1	1105.3	1178.1	1267.4	1290.6	1293.9
75°	883.6	893.5	893.5	870.3	876.9	903.4	933.2	992.8	1075.5	1092.0	1092.0
77.5°	701.6	738.0	738.0	714.8	724.7	728.0	767.7	797.5	860.4	867.0	840.5
80°	509.6	546.0	575.8	555.9	572.5	552.6	575.8	595.7	658.5	628.7	585.7
82.5°	364.0	390.5	413.7	417.0	400.4	364.0	393.8	397.1	426.9	387.2	364.0
85°	201.9	225.0	254.8	241.6	215.1	191.9	201.9	208.5	205.2	195.2	182.0
87.5°	52.9	56.3	62.9	46.3	43.0	36.4	49.6	49.6	56.3	59.6	56.3
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°	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2
2.5°	10718.5	10864.1	11178.5	11416.7	11708.0	12062.0	12479.0	12899.3	13352.6	13494.9	13693.5
5°	8868.7	9232.7	9384.9	9818.4	10248.6	10893.9	11582.2	12379.7	13253.4	13673.6	14077.3
7.5°	7578.1	7773.3	7932.2	8249.8	8766.1	9550.4	10414.1	11410.1	12647.8	13260.0	13852.3
10°	6883.1	6903.0	7098.2	7492.0	7942.1	8633.7	9451.1	10566.3	11946.2	12690.8	13385.7
12.5°	6423.2	6337.1	6548.9	6959.2	7468.9	8107.5	8858.7	9921.0	11439.9	12204.3	13044.9
15°	6019.4	5883.8	6042.6	6462.9	6965.9	7717.1	8524.5	9649.6	11241.4	12131.5	13064.7
17.5°	6029.4	5655.4	5711.7	6065.8	6565.5	7329.9	8309.4	9639.7	11542.5	12568.3	13673.6
20°	6773.9	6175.0	5920.2	5986.3	6469.5	7303.4	8408.7	10103.0	12531.9	14027.7	15209.1
22.5°	7505.3	7144.6	6734.2	6598.5	6863.3	7736.9	9040.7	11198.3	14682.9	16936.5	19070.9
25°	7250.5	7558.2	7455.6	7263.7	7323.3	8048.0	9470.9	12098.4	16354.1	18892.2	20897.6
27.5°	5801.0	6360.3	6472.8	6469.5	6492.7	7088.3	8517.9	11492.9	16562.6	19266.2	21182.2
30°	4076.9	4126.6	4186.1	4302.0	4407.9	4940.6	6664.7	10089.8	16469.9	19434.9	21354.3
32.5°	2941.9	3008.1	3090.8	3249.6	3501.1	4179.5	5830.8	9643.0	16959.7	20133.2	21857.3
35°	2690.4	2766.5	2845.9	3027.9	3266.2	3894.9	5499.9	9457.7	17763.8	21264.9	22760.7
37.5°	2611.0	2697.0	2766.5	2898.9	3090.8	3689.8	5198.8	9331.9	18587.8	22462.9	23971.9
40°	2554.7	2654.0	2710.2	2816.1	2948.5	3501.1	4930.7	9232.7	19385.3	23558.2	24944.8
42.5°	2505.1	2607.7	2680.5	2756.6	2865.8	3332.4	4692.4	9133.4	20076.9	24620.5	25914.4
45°	2445.5	2574.6	2667.2	2726.8	2822.7	3190.1	4510.4	9054.0	20864.5	25563.6	26893.9
47.5°	2395.9	2538.2	2654.0	2723.5	2759.9	3090.8	4364.8	9163.2	21810.9	26549.7	27803.9
50°	2399.2	2534.8	2680.5	2789.7	2693.7	3008.1	4275.5	9596.7	23042.0	27721.2	28522.0
52.5°	2505.1	2670.5	2786.3	2812.8	2601.0	2908.8	4229.2	10354.5	24498.0	28757.0	29246.7
55°	2624.2	2796.3	2922.0	2905.5	2551.4	2783.0	4219.2	11161.9	26093.0	29964.8	30189.8
57.5°	2581.2	2832.7	3024.6	2938.6	2554.7	2660.6	4176.2	11813.8	27426.7	30868.2	31123.0
58°	2567.9	2819.4	3037.8	2932.0	2544.8	2624.2	4166.3	11870.1	27612.0	30931.1	31255.4
60°	2438.9	2703.6	3027.9	2882.3	2488.5	2524.9	4057.1	12052.1	27562.3	30606.8	31334.8
62.5°	2203.9	2422.3	2799.6	2640.7	2316.4	2392.6	3812.2	11827.1	26218.8	29044.9	30173.3
65°	1939.2	2101.3	2352.8	2323.1	2071.6	2256.9	3478.0	10936.9	23528.4	26510.0	27698.0
67.5°	1740.6	1873.0	2031.8	1988.8	1863.1	2074.9	3117.3	9431.2	20510.4	23465.5	24961.3
70°	1538.8	1641.4	1720.8	1691.0	1651.3	1896.2	2796.3	7654.2	17618.2	20573.3	22022.7
72.5°	1333.6	1429.6	1495.8	1452.7	1429.6	1707.5	2534.8	5940.0	13915.2	16972.9	18836.0
75°	1115.2	1211.2	1257.5	1207.9	1194.6	1505.7	2147.7	4437.6	10440.5	13084.6	14692.9
77.5°	863.7	966.3	1025.9	1009.3	1015.9	1237.6	1734.0	3037.8	7465.6	8918.3	10612.6
80°	605.6	718.1	757.8	741.3	787.6	943.1	1224.4	1929.3	5149.1	5787.8	6982.4
82.5°	373.9	479.8	486.5	503.0	536.1	698.2	923.3	1174.8	3233.1	3342.3	4209.3
85°	188.6	228.3	244.9	271.4	301.1	426.9	526.2	728.0	2081.5	1575.2	2352.8
87.5°	62.9	66.2	79.4	99.3	122.4	175.4	225.0	297.8	516.2	284.6	728.0
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: P459427

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2	12588.2
2.5°	14093.9	14375.2	14580.3	14769.0	14587.0	14570.4	14391.7	14103.8	13984.7	13984.7
5°	14924.5	15583.0	16115.8	16456.7	16311.1	15960.3	15381.2	14643.2	14246.1	14176.6
7.5°	15152.8	16453.3	17442.8	17793.6	17548.7	16774.3	15665.8	14421.5	13852.3	13726.6
10°	15013.8	16704.8	18157.6	18713.5	18372.7	17201.2	15688.9	14163.4	13461.8	13316.2
12.5°	14868.2	16737.9	18290.0	19094.1	18872.4	17545.4	15857.7	13994.6	13183.9	12975.4
15°	14974.1	16751.2	18127.8	18958.4	19100.7	17959.0	16135.7	14117.1	13127.6	12905.9
17.5°	15642.6	17002.7	17896.2	18567.9	19067.6	18521.6	16926.6	14702.8	13630.6	13355.9
20°	17039.1	17604.9	18028.5	18548.1	19352.2	19669.9	18544.8	16311.1	15043.6	14802.1
22.5°	21082.9	20980.3	20113.3	20103.4	21268.2	22542.3	22466.2	19580.5	17674.4	17475.9
25°	22598.5	22122.0	20867.8	20563.4	21076.3	23042.0	22757.4	20249.0	18488.5	18005.4
27.5°	22006.2	20824.8	20000.8	19931.3	19762.5	21619.0	22304.0	20520.4	18773.1	18303.2
30°	21969.8	20232.5	19054.4	19193.4	19355.5	21129.2	22555.5	21370.8	19501.1	18998.1
32.5°	22059.1	20315.2	19123.9	19150.3	19633.5	21202.1	22833.5	22297.4	20457.5	19954.5
35°	22419.8	20785.1	19567.3	19504.4	20258.9	21678.6	23306.7	23753.4	21764.6	21192.1
37.5°	23002.3	21721.6	20378.1	20361.5	21456.9	22539.0	23895.7	25222.7	23065.1	22449.6
40°	23859.3	22816.9	21820.9	21731.5	23085.0	23938.8	24660.2	26788.0	24577.4	23786.5
42.5°	24895.1	24130.7	23723.7	24077.7	25378.3	25510.6	25851.5	28234.1	25864.7	24944.8
45°	25854.8	25818.4	26384.3	27324.1	28081.9	27287.7	27095.7	29203.7	26864.1	25864.7
47.5°	26996.5	27982.6	29690.2	31066.8	31861.0	29355.9	28158.0	29835.8	27592.1	26672.2
50°	28154.7	30573.7	33300.5	35219.8	35388.6	31602.9	28889.3	30431.4	28254.0	27297.6
52.5°	29372.5	32642.0	36272.2	38502.6	38174.9	33558.6	29597.5	30835.1	28935.7	28095.1
55°	30431.4	33909.4	37933.4	40074.4	39594.6	34749.9	30361.9	31271.9	29908.6	29200.4
57.5°	31023.8	34015.3	37519.7	39389.4	38869.9	34518.3	30712.7	31596.3	30530.7	29974.7
58°	31109.8	33873.0	37152.4	38992.3	38462.8	34323.0	30709.4	31583.0	30570.4	30011.1
60°	31033.7	32949.7	35785.7	37423.8	36867.8	33098.6	30583.6	31334.8	30067.4	29594.2
62.5°	30328.8	31348.1	33426.2	34617.6	34458.7	31185.9	30067.4	30398.3	28535.2	28078.6
65°	29402.3	29164.0	30404.9	31248.8	31367.9	29753.0	29554.5	28373.1	26569.6	25924.3
67.5°	28277.1	26688.7	26685.4	27165.2	27363.8	27549.1	28485.6	26172.5	23736.9	23055.2
70°	26367.7	22873.2	21820.9	22386.7	22221.3	23786.5	26576.2	23081.7	20321.8	19524.3
72.5°	22866.6	18151.0	16466.6	17194.6	16777.6	18654.0	23253.8	18994.8	16804.1	15824.6
75°	18534.8	13577.7	11840.3	12508.8	12250.7	14150.1	19348.9	13796.1	12052.1	11678.2
77.5°	14391.7	9838.3	8828.9	8736.3	8928.2	10529.9	14193.2	9315.4	7945.4	7690.6
80°	9245.9	7042.0	7101.5	6982.4	7081.7	6638.3	8617.2	5943.3	5380.8	5175.6
82.5°	6085.6	4907.5	5850.7	5400.6	5129.3	4464.1	5652.1	3891.6	3302.6	3190.1
85°	4146.4	3613.6	3289.3	2515.0	2961.7	3438.3	4239.1	2094.7	1661.2	1505.7
87.5°	1873.0	1257.5	923.3	569.2	900.1	1039.1	2058.3	244.9	188.6	195.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)