

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: P458789

Luminaire Tested: **GALN-SA3B-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458789
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-SA3B-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 13640 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

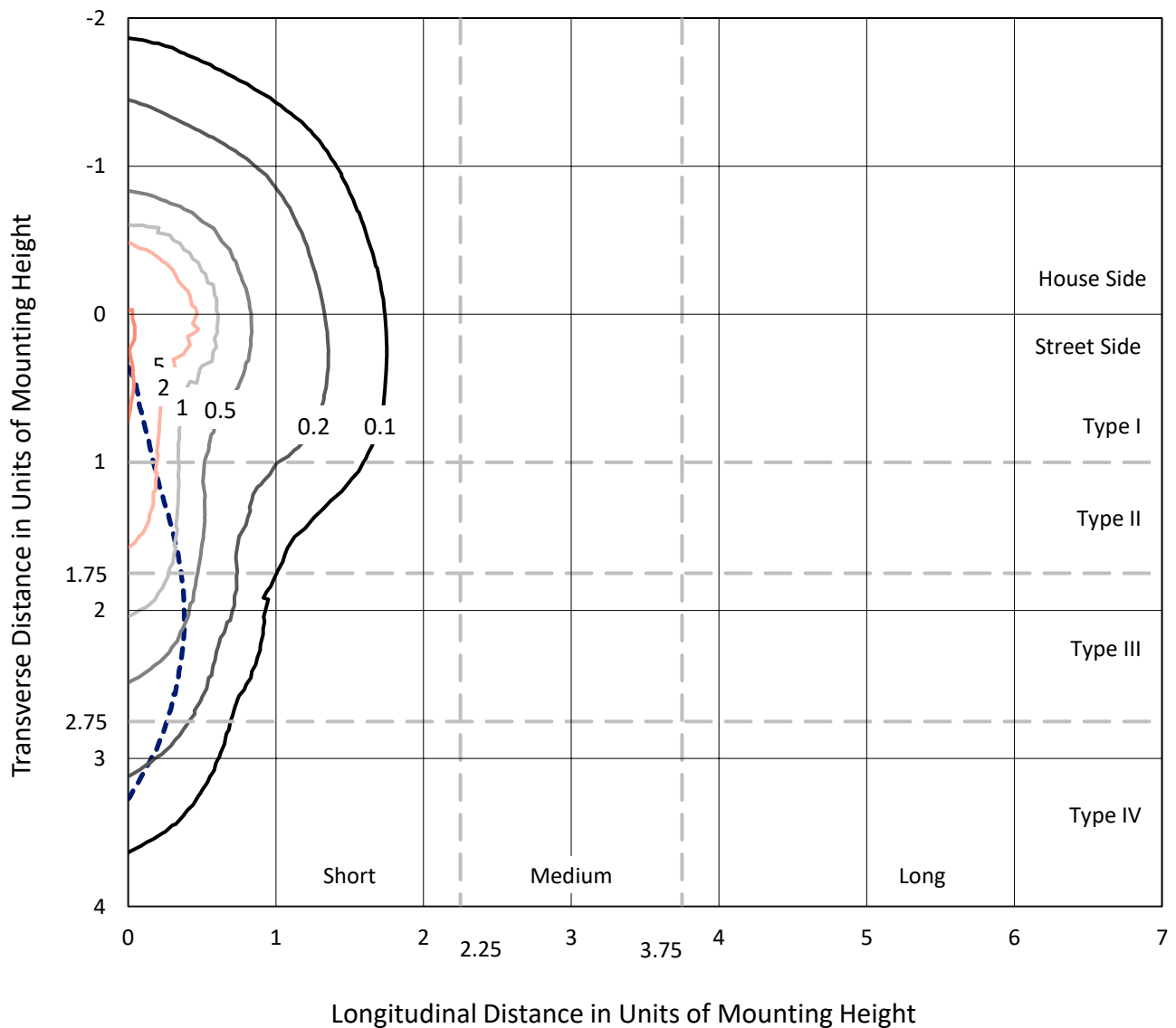
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

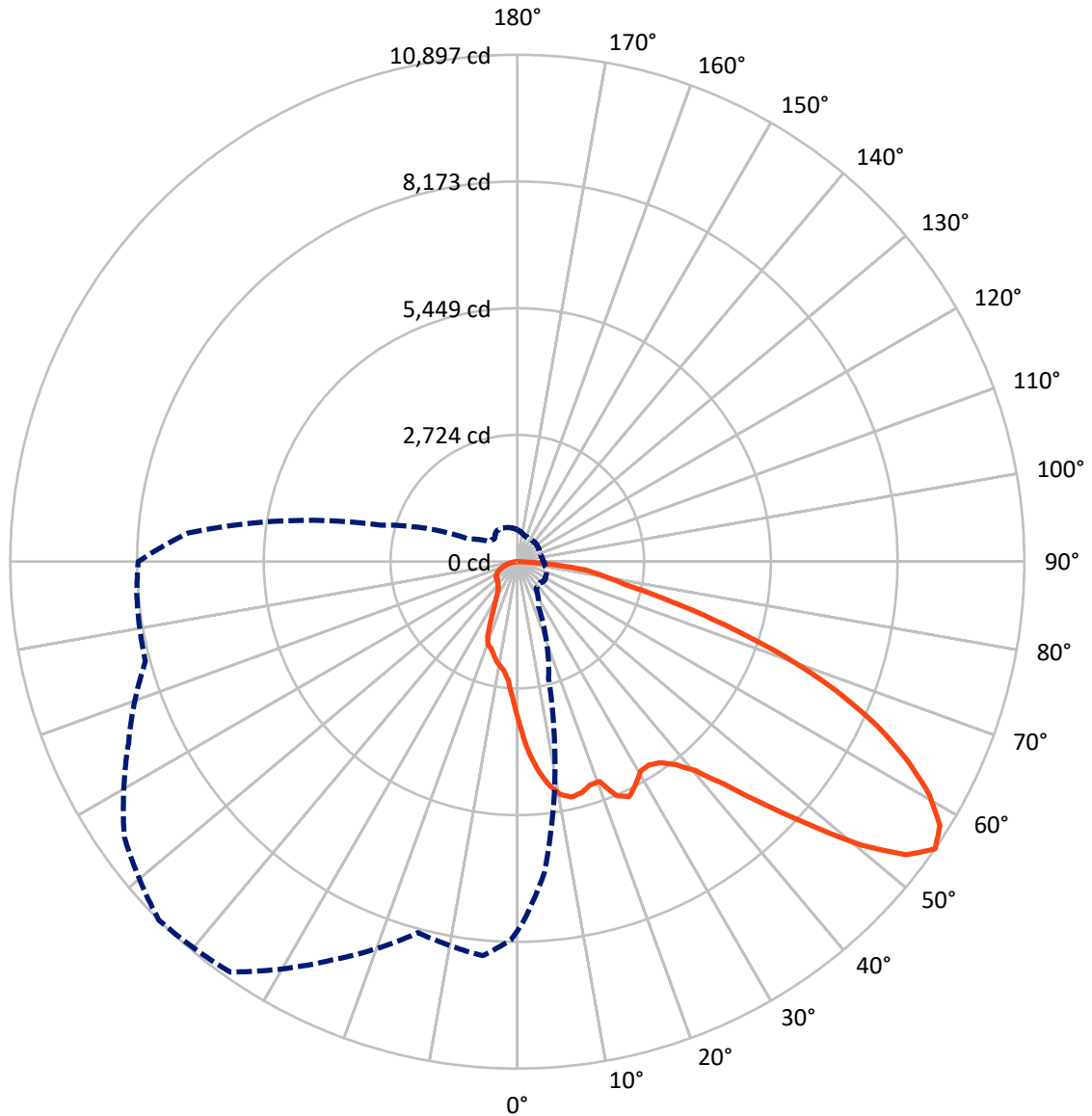
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2983.7	0.0	2983.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	10656.3	0.0	10656.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	13640.0	0.0	13640.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	2.1
10°-20°	769.7	5.6
20°-30°	1329.7	9.7
30°-40°	1545.3	11.3
40°-50°	2156.0	15.8
50°-60°	2925.4	21.4
60°-70°	2783.2	20.4
70°-80°	1503.6	11.0
80°-90°	337.0	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°	13640.0	100.0
0°-180°	13640.0	100.0



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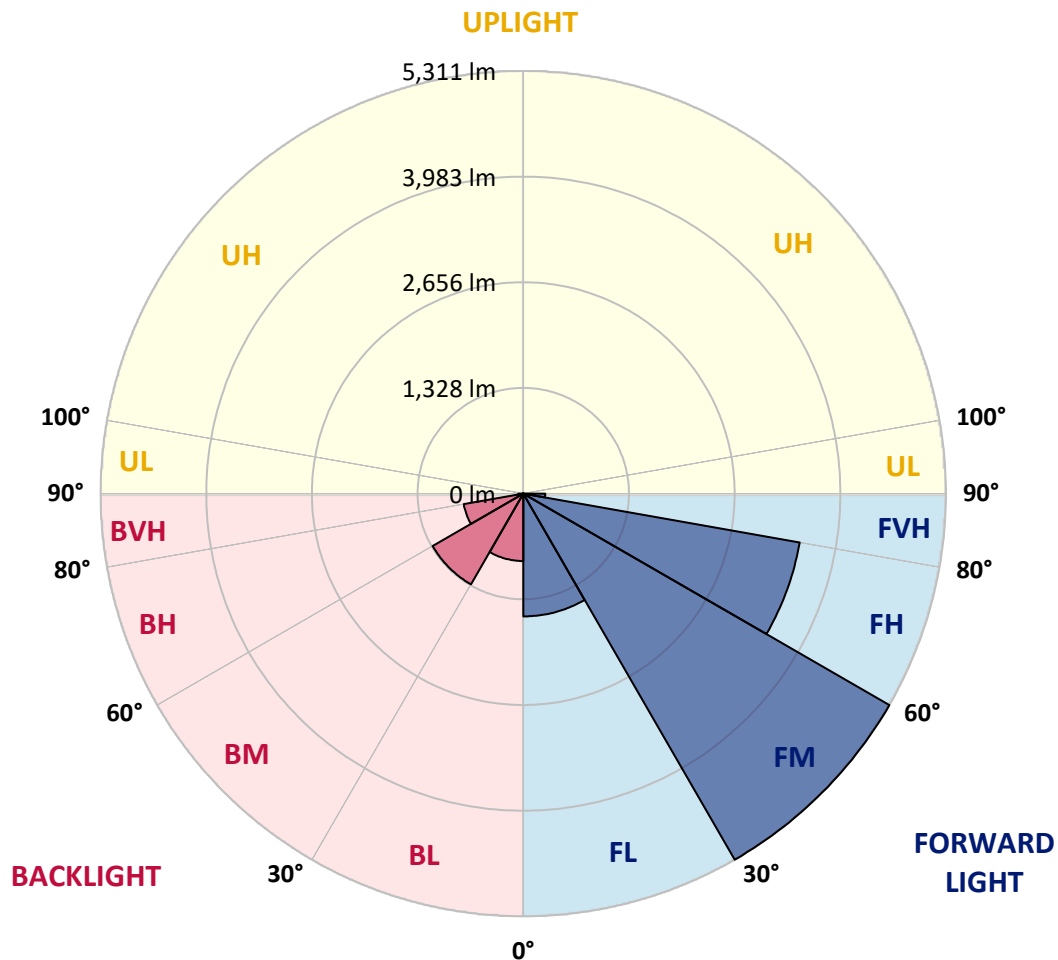
CATALOG NUMBER: GALN-SA3B-735-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.7	11.3			
FM	(30°-60°)	5311.1	38.9			
FH	(60°-80°)	3527.1	25.9			G2/5000
FVH	(80°-90°)	275.4	2.0			G3/500
BL	(0°-30°)	846.8	6.2	B2/1000		
BM	(30°-60°)	1315.6	9.6	B2/2500		
BH	(60°-80°)	759.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	61.6	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°	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1
2.5°	3802.9	3788.5	3748.0	3641.8	3534.7	3425.8	3342.1	3237.7	3128.8	3070.4	2995.7
5°	3855.0	3838.8	3743.5	3504.1	3287.2	3059.6	2877.8	2718.5	2653.7	2558.3	2481.8
7.5°	3732.7	3725.5	3582.4	3238.6	2941.7	2643.8	2437.7	2310.0	2193.9	2150.7	2159.7
10°	3621.1	3592.3	3413.2	2964.2	2617.7	2375.7	2228.1	2103.0	2021.1	1999.5	2004.0
12.5°	3528.4	3489.7	3278.2	2779.7	2476.4	2283.0	2094.9	1964.4	1889.7	1910.4	1980.6
15°	3509.5	3457.3	3221.5	2716.7	2399.1	2149.8	1943.7	1793.4	1737.6	1782.6	1895.1
17.5°	3631.9	3566.2	3318.7	2737.4	2325.3	2013.9	1761.0	1589.2	1542.4	1614.4	1761.0
20°	4025.1	3927.9	3622.0	2857.1	2318.1	1946.4	1654.9	1482.1	1501.9	1638.7	1791.6
22.5°	4752.2	4606.4	4152.9	3031.7	2355.9	1929.3	1633.3	1543.3	1652.2	1768.2	1869.0
25°	4896.2	4781.9	4248.3	3071.3	2347.8	1917.6	1694.5	1739.4	1860.9	1918.5	1883.4
27.5°	4977.2	4846.7	4242.0	2875.1	2099.4	1739.4	1619.8	1694.5	1725.1	1669.3	1573.9
30°	5166.2	5030.3	4349.1	2669.0	1728.7	1290.4	1131.1	1100.5	1121.2	1132.0	1097.8
32.5°	5426.2	5292.1	4550.6	2534.0	1494.7	1067.2	910.7	867.5	857.6	845.9	832.4
35°	5762.8	5556.7	4748.6	2447.6	1398.4	987.2	843.2	809.9	796.4	780.2	765.8
37.5°	6104.7	5888.8	4998.8	2356.8	1334.5	931.4	798.2	782.9	759.5	742.4	721.7
40°	6468.3	6226.2	5226.4	2277.6	1272.4	895.4	765.8	764.0	733.4	713.6	689.3
42.5°	6783.2	6534.0	5429.8	2229.0	1224.7	857.6	746.0	751.4	719.9	690.2	658.7
45°	7033.4	6788.6	5617.9	2229.0	1186.0	819.8	742.4	738.8	707.3	670.4	634.4
47.5°	7253.0	7000.1	5801.5	2285.7	1161.7	788.3	722.6	728.9	696.5	649.7	614.6
50°	7423.0	7199.9	6048.9	2373.9	1137.4	763.1	697.4	731.6	687.5	638.9	598.4
52.5°	7639.9	7440.1	6346.8	2494.4	1116.7	735.2	674.9	731.6	686.6	639.8	595.7
55°	7940.5	7729.9	6705.8	2594.3	1083.4	709.1	655.1	710.9	683.9	635.3	588.5
57.5°	8151.0	7993.5	6959.6	2660.9	1035.8	675.8	637.1	691.1	672.2	618.2	566.9
58°	8160.9	8007.0	6996.5	2676.2	1024.1	669.5	632.6	682.1	666.8	611.0	559.7
60°	8047.5	7915.3	7003.7	2654.6	957.5	638.0	609.2	645.2	638.0	568.7	521.0
62.5°	7635.4	7494.1	6713.0	2479.1	869.3	599.3	573.2	595.7	579.5	509.3	465.2
65°	7049.6	6789.5	6115.5	2203.8	806.3	557.9	524.6	526.4	509.3	458.9	420.2
67.5°	6269.4	5978.7	5177.9	1857.3	758.6	512.0	467.0	462.5	441.8	409.4	377.9
70°	5309.2	5110.4	4207.8	1510.9	705.5	461.6	402.2	399.5	386.9	362.6	334.8
72.5°	4303.2	4050.3	3397.9	1209.4	640.7	413.0	342.0	347.3	331.2	314.1	288.9
75°	3175.6	3010.1	2626.7	970.1	553.4	359.9	285.3	287.1	279.9	261.9	242.1
77.5°	2091.3	2041.8	1878.9	637.1	425.6	286.2	233.1	234.9	229.5	213.3	192.6
80°	1407.4	1374.1	1273.3	410.3	284.4	207.0	180.0	181.8	180.9	163.8	135.9
82.5°	867.5	853.1	820.7	277.2	197.1	148.5	118.8	124.2	134.1	115.2	92.7
85°	409.4	410.3	495.8	151.2	116.1	95.4	64.8	69.3	69.3	69.3	52.2
87.5°	53.1	55.8	68.4	63.9	42.3	36.0	23.4	19.8	17.1	22.5	16.2
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°	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1
2.5°	2969.6	2951.6	2912.9	2903.9	2898.5	2913.8	2873.3	2884.1	2866.1	2916.5	2908.4
5°	2486.3	2488.1	2519.6	2540.3	2547.5	2540.3	2513.3	2466.5	2430.6	2416.2	2419.8
7.5°	2142.6	2174.1	2228.1	2288.4	2343.3	2359.5	2344.2	2255.1	2157.9	2096.7	2076.9
10°	2028.3	2070.6	2132.7	2180.4	2229.0	2267.7	2275.8	2206.5	2091.3	1946.4	1889.7
12.5°	2034.6	2092.2	2151.6	2166.9	2162.4	2177.7	2170.5	2158.8	2083.2	1898.7	1804.2
15°	1975.2	2043.6	2085.0	2076.9	2062.5	2049.0	2030.1	2000.4	1973.4	1843.8	1739.4
17.5°	1838.4	1908.6	1942.8	1945.5	1945.5	1941.9	1896.0	1885.2	1881.6	1818.6	1754.7
20°	1863.6	1902.3	1887.0	1861.8	1869.0	1893.3	1866.3	1860.9	1881.6	1909.5	1897.8
22.5°	1878.0	1864.5	1749.3	1637.8	1612.6	1688.2	1703.5	1763.7	1847.4	1948.2	2013.9
25°	1788.9	1680.1	1474.0	1348.0	1276.9	1347.1	1438.9	1550.5	1675.6	1805.1	1881.6
27.5°	1495.6	1412.8	1265.2	1151.8	1089.7	1100.5	1178.8	1280.5	1396.6	1483.9	1539.7
30°	1126.6	1089.7	1013.3	974.6	936.8	927.8	961.1	999.8	1051.0	1061.8	1076.2
32.5°	829.7	824.3	828.8	816.2	809.0	808.1	798.2	807.2	812.6	818.9	806.3
35°	750.5	743.3	730.7	727.1	722.6	724.4	719.9	715.4	719.0	724.4	728.0
37.5°	710.0	699.2	681.2	674.9	674.9	677.6	670.4	668.6	674.9	692.0	701.0
40°	678.5	665.9	645.2	637.1	642.5	649.7	639.8	636.2	651.5	669.5	683.9
42.5°	648.8	638.9	619.1	610.1	614.6	628.1	613.7	611.0	630.8	650.6	667.7
45°	623.6	613.7	595.7	591.2	593.0	605.6	595.7	595.7	614.6	636.2	651.5
47.5°	603.8	591.2	579.5	575.9	577.7	584.9	583.1	583.1	601.1	623.6	638.9
50°	584.0	573.2	557.9	559.7	564.2	574.1	573.2	575.9	593.9	621.8	638.0
52.5°	575.0	558.8	541.7	543.5	557.0	568.7	565.1	567.8	588.5	640.7	664.1
55°	565.1	543.5	523.7	526.4	541.7	558.8	554.3	557.9	582.2	653.3	685.7
57.5°	546.2	521.0	499.4	501.2	523.7	541.7	534.5	539.0	567.8	639.8	674.0
58°	538.1	516.5	495.8	496.7	518.3	538.1	530.0	533.6	563.3	636.2	668.6
60°	503.9	491.3	473.3	474.2	494.9	512.0	507.5	511.1	539.9	610.1	634.4
62.5°	457.1	449.9	445.4	445.4	458.0	474.2	478.7	483.2	509.3	551.6	573.2
65°	406.7	406.7	407.6	407.6	415.7	436.4	439.1	450.8	475.1	495.8	512.0
67.5°	372.5	370.7	372.5	368.0	371.6	384.2	397.7	408.5	433.7	448.1	453.5
70°	328.5	327.6	328.5	322.2	326.7	337.5	346.5	364.4	390.5	401.3	404.0
72.5°	285.3	285.3	287.1	282.6	282.6	294.3	300.6	320.4	344.7	350.9	351.8
75°	240.3	243.0	243.0	236.7	238.5	245.7	253.8	270.0	292.5	297.0	297.0
77.5°	190.8	200.7	200.7	194.4	197.1	198.0	208.8	216.9	234.0	235.8	228.6
80°	138.6	148.5	156.6	151.2	155.7	150.3	156.6	162.0	179.1	171.0	159.3
82.5°	99.0	106.2	112.5	113.4	108.9	99.0	107.1	108.0	116.1	105.3	99.0
85°	54.9	61.2	69.3	65.7	58.5	52.2	54.9	56.7	55.8	53.1	49.5
87.5°	14.4	15.3	17.1	12.6	11.7	9.9	13.5	13.5	15.3	16.2	15.3
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°	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1
2.5°	2914.7	2954.3	3039.8	3104.6	3183.7	3280.0	3393.4	3507.7	3631.0	3669.7	3723.7
5°	2411.7	2510.6	2552.0	2669.9	2786.9	2962.4	3149.5	3366.4	3604.0	3718.3	3828.0
7.5°	2060.7	2113.8	2157.0	2243.4	2383.8	2597.0	2831.9	3102.8	3439.3	3605.8	3766.9
10°	1871.7	1877.1	1930.2	2037.3	2159.7	2347.8	2570.0	2873.3	3248.5	3451.0	3640.0
12.5°	1746.6	1723.3	1780.8	1892.4	2031.0	2204.7	2409.0	2697.8	3110.9	3318.7	3547.3
15°	1636.9	1600.0	1643.2	1757.4	1894.2	2098.5	2318.1	2624.0	3056.9	3298.9	3552.7
17.5°	1639.6	1537.9	1553.2	1649.5	1785.3	1993.2	2259.6	2621.3	3138.7	3417.7	3718.3
20°	1842.0	1679.2	1609.9	1627.9	1759.2	1986.0	2286.6	2747.3	3407.8	3814.6	4135.8
22.5°	2040.9	1942.8	1831.2	1794.3	1866.3	2103.9	2458.4	3045.2	3992.7	4605.5	5186.0
25°	1971.6	2055.3	2027.4	1975.2	1991.4	2188.5	2575.4	3289.9	4447.2	5137.4	5682.7
27.5°	1577.5	1729.6	1760.1	1759.2	1765.5	1927.5	2316.3	3125.3	4503.9	5239.0	5760.1
30°	1108.6	1122.1	1138.3	1169.8	1198.6	1343.5	1812.3	2743.7	4478.7	5284.9	5806.9
32.5°	800.0	818.0	840.5	883.7	952.1	1136.5	1585.6	2622.2	4611.8	5474.8	5943.6
35°	731.6	752.3	773.9	823.4	888.2	1059.1	1495.6	2571.8	4830.5	5782.6	6189.3
37.5°	710.0	733.4	752.3	788.3	840.5	1003.4	1413.7	2537.6	5054.6	6108.3	6518.7
40°	694.7	721.7	737.0	765.8	801.8	952.1	1340.8	2510.6	5271.4	6406.2	6783.2
42.5°	681.2	709.1	728.9	749.6	779.3	906.2	1276.0	2483.6	5459.5	6695.0	7046.9
45°	665.0	700.1	725.3	741.5	767.6	867.5	1226.5	2462.0	5673.7	6951.5	7313.2
47.5°	651.5	690.2	721.7	740.6	750.5	840.5	1186.9	2491.7	5931.0	7219.7	7560.7
50°	652.4	689.3	728.9	758.6	732.5	818.0	1162.6	2609.6	6265.8	7538.2	7756.0
52.5°	681.2	726.2	757.7	764.9	707.3	791.0	1150.0	2815.7	6661.7	7819.9	7953.1
55°	713.6	760.4	794.6	790.1	693.8	756.8	1147.3	3035.3	7095.5	8148.3	8209.5
57.5°	701.9	770.3	822.5	799.1	694.7	723.5	1135.6	3212.5	7458.1	8394.0	8463.3
58°	698.3	766.7	826.1	797.3	692.0	713.6	1132.9	3227.8	7508.5	8411.1	8499.3
60°	663.2	735.2	823.4	783.8	676.7	686.6	1103.2	3277.3	7495.0	8322.9	8520.9
62.5°	599.3	658.7	761.3	718.1	629.9	650.6	1036.7	3216.1	7129.7	7898.2	8205.0
65°	527.3	571.4	639.8	631.7	563.3	613.7	945.8	2974.1	6398.1	7208.9	7531.9
67.5°	473.3	509.3	552.5	540.8	506.6	564.2	847.7	2564.6	5577.4	6381.0	6787.7
70°	418.4	446.3	467.9	459.8	449.0	515.6	760.4	2081.4	4790.9	5594.5	5988.6
72.5°	362.6	388.7	406.7	395.0	388.7	464.3	689.3	1615.3	3784.0	4615.4	5122.1
75°	303.3	329.4	342.0	328.5	324.9	409.4	584.0	1206.7	2839.1	3558.1	3995.4
77.5°	234.9	262.8	279.0	274.5	276.3	336.6	471.5	826.1	2030.1	2425.2	2885.9
80°	164.7	195.3	206.1	201.6	214.2	256.5	333.0	524.6	1400.2	1573.9	1898.7
82.5°	101.7	130.5	132.3	136.8	145.8	189.9	251.1	319.5	879.2	908.9	1144.6
85°	51.3	62.1	66.6	73.8	81.9	116.1	143.1	198.0	566.0	428.3	639.8
87.5°	17.1	18.0	21.6	27.0	33.3	47.7	61.2	81.0	140.4	77.4	198.0
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: P458789

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1	3423.1
2.5°	3832.5	3909.0	3964.8	4016.1	3966.6	3962.1	3913.5	3835.2	3802.9	3802.9
5°	4058.4	4237.5	4382.4	4475.1	4435.5	4340.1	4182.6	3981.9	3873.9	3855.0
7.5°	4120.5	4474.2	4743.2	4838.6	4772.0	4561.4	4260.0	3921.6	3766.9	3732.7
10°	4082.7	4542.5	4937.6	5088.8	4996.1	4677.5	4266.3	3851.4	3660.7	3621.1
12.5°	4043.1	4551.5	4973.6	5192.3	5132.0	4771.1	4312.2	3805.6	3585.1	3528.4
15°	4071.9	4555.1	4929.5	5155.4	5194.1	4883.6	4387.8	3838.8	3569.8	3509.5
17.5°	4253.7	4623.5	4866.5	5049.2	5185.1	5036.6	4602.8	3998.1	3706.6	3631.9
20°	4633.4	4787.3	4902.5	5043.8	5262.4	5348.8	5042.9	4435.5	4090.8	4025.1
22.5°	5733.1	5705.2	5469.4	5466.7	5783.5	6129.9	6109.2	5324.5	4806.2	4752.2
25°	6145.2	6015.6	5674.6	5591.8	5731.3	6265.8	6188.4	5506.3	5027.6	4896.2
27.5°	5984.1	5662.9	5438.8	5419.9	5374.0	5878.9	6065.1	5580.1	5105.0	4977.2
30°	5974.2	5501.8	5181.5	5219.2	5263.3	5745.7	6133.5	5811.4	5302.9	5166.2
32.5°	5998.5	5524.3	5200.4	5207.6	5338.9	5765.5	6209.1	6063.3	5563.0	5426.2
35°	6096.6	5652.1	5320.9	5303.8	5509.0	5895.1	6337.8	6459.3	5918.4	5762.8
37.5°	6255.0	5906.7	5541.4	5536.9	5834.8	6129.0	6498.0	6858.8	6272.1	6104.7
40°	6488.1	6204.6	5933.7	5909.4	6277.5	6509.7	6705.8	7284.5	6683.3	6468.3
42.5°	6769.7	6561.9	6451.2	6547.5	6901.1	6937.1	7029.8	7677.7	7033.4	6783.2
45°	7030.7	7020.8	7174.7	7430.2	7636.3	7420.3	7368.1	7941.4	7305.1	7033.4
47.5°	7341.1	7609.3	8073.6	8448.0	8664.0	7982.8	7657.0	8113.2	7503.1	7253.0
50°	7656.1	8313.9	9055.4	9577.3	9623.2	8593.8	7855.9	8275.2	7683.1	7423.0
52.5°	7987.3	8876.3	9863.5	10470.0	10380.9	9125.6	8048.4	8385.0	7868.5	7639.9
55°	8275.2	9221.0	10315.2	10897.4	10766.9	9449.5	8256.3	8503.8	8133.0	7940.5
57.5°	8436.3	9249.8	10202.7	10711.2	10569.9	9386.5	8351.7	8592.0	8302.2	8151.0
58°	8459.7	9211.1	10102.8	10603.2	10459.2	9333.5	8350.8	8588.4	8313.0	8160.9
60°	8439.0	8960.0	9731.2	10176.6	10025.5	9000.5	8316.6	8520.9	8176.2	8047.5
62.5°	8247.3	8524.5	9089.6	9413.5	9370.4	8480.4	8176.2	8266.2	7759.6	7635.4
65°	7995.3	7930.6	8268.0	8497.5	8529.9	8090.7	8036.7	7715.5	7225.1	7049.6
67.5°	7689.4	7257.5	7256.6	7387.0	7441.0	7491.4	7746.1	7117.1	6454.8	6269.4
70°	7170.2	6219.9	5933.7	6087.6	6042.6	6468.3	7226.9	6276.6	5526.1	5309.2
72.5°	6218.1	4935.8	4477.8	4675.7	4562.3	5072.6	6323.4	5165.3	4569.5	4303.2
75°	5040.2	3692.2	3219.7	3401.5	3331.3	3847.8	5261.5	3751.6	3277.3	3175.6
77.5°	3913.5	2675.3	2400.9	2375.7	2427.9	2863.4	3859.5	2533.1	2160.6	2091.3
80°	2514.2	1914.9	1931.1	1898.7	1925.7	1805.1	2343.3	1616.2	1463.2	1407.4
82.5°	1654.9	1334.5	1591.0	1468.6	1394.8	1213.9	1537.0	1058.2	898.1	867.5
85°	1127.5	982.7	894.5	683.9	805.4	935.0	1152.7	569.6	451.7	409.4
87.5°	509.3	342.0	251.1	154.8	244.8	282.6	559.7	66.6	51.3	53.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)