

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: P452119

Luminaire Tested: **GALN-SA3A-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452119
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-SA3A-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA 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: 11768 lumens
Efficiency: N/A
Efficacy: 126.5 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): 93
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

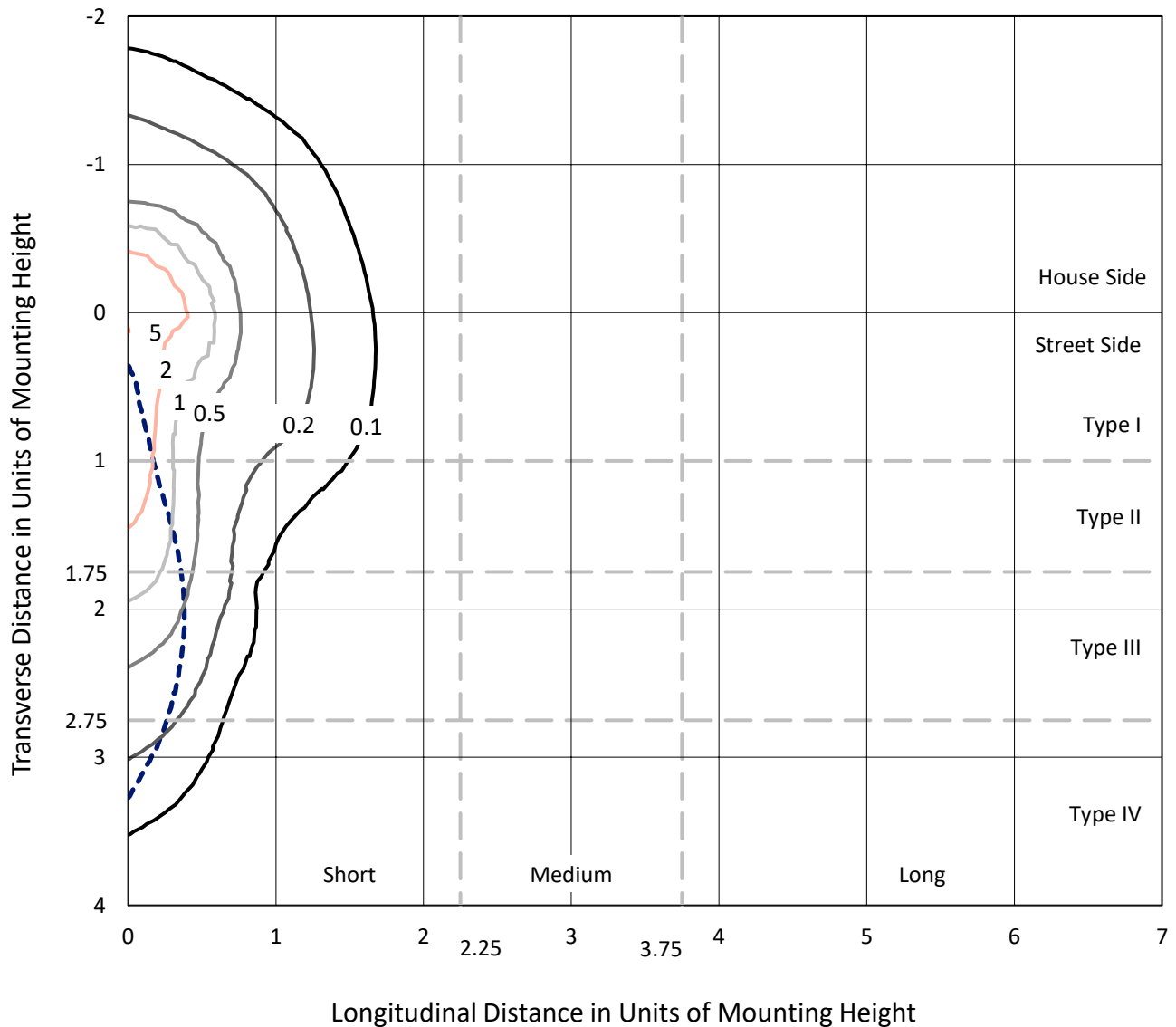




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Iso-Footcandle Lines of Horizontal Illumination

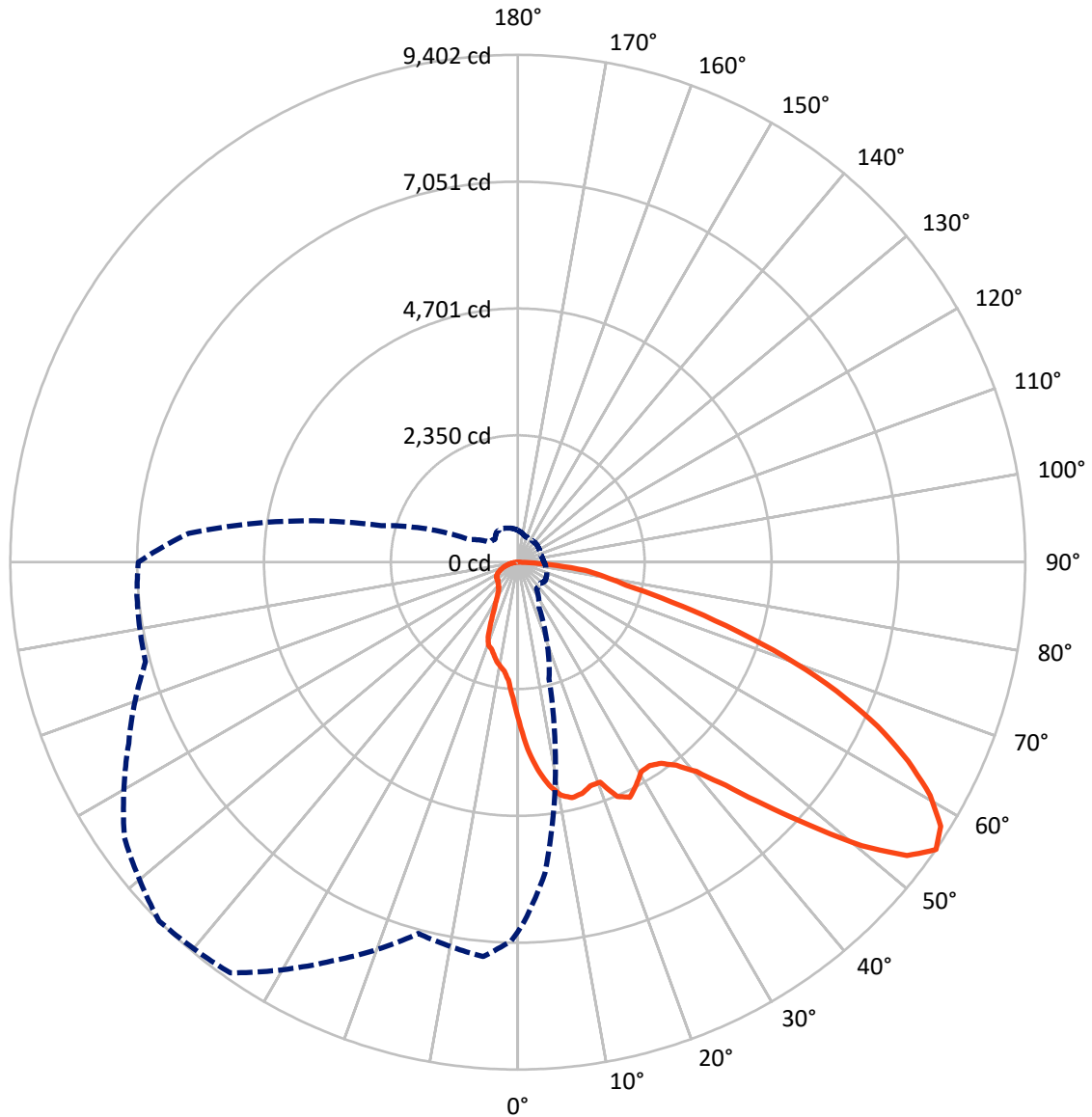
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2574.2	0.0	2574.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9193.8	0.0	9193.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	11768.0	0.0	11768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.3	2.1
10°-20°	664.1	5.6
20°-30°	1147.2	9.7
30°-40°	1333.2	11.3
40°-50°	1860.1	15.8
50°-60°	2524.0	21.4
60°-70°	2401.2	20.4
70°-80°	1297.2	11.0
80°-90°	290.7	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°	11768.0	100.0
0°-180°	11768.0	100.0

Coefficient of Utilization



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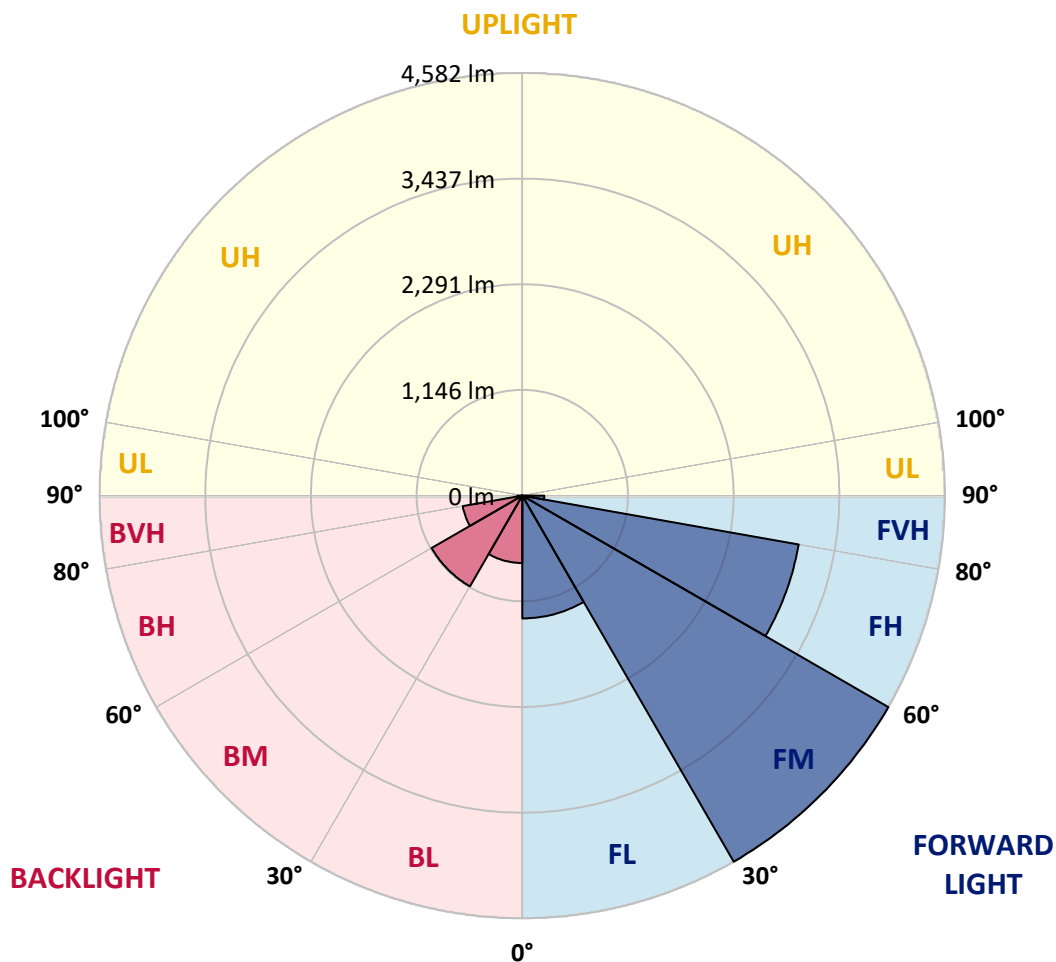
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1331.0	11.3			
FM	(30°-60°)	4582.2	38.9			
FH	(60°-80°)	3043.0	25.9			G2/5000
FVH	(80°-90°)	237.6	2.0			G3/500
BL	(0°-30°)	730.6	6.2	B2/1000		
BM	(30°-60°)	1135.1	9.6	B2/2500		
BH	(60°-80°)	655.4	5.6	B2/1000		G2/1000
BVH	(80°-90°)	53.1	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°	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3
2.5°	3280.9	3268.5	3233.6	3142.0	3049.6	2955.6	2883.4	2793.4	2699.4	2649.0	2584.5
5°	3326.0	3312.0	3229.7	3023.2	2836.1	2639.7	2482.8	2345.4	2289.5	2207.2	2141.2
7.5°	3220.4	3214.2	3090.7	2794.2	2538.0	2281.0	2103.2	1992.9	1892.8	1855.5	1863.3
10°	3124.1	3099.3	2944.8	2557.4	2258.5	2049.6	1922.3	1814.4	1743.7	1725.1	1729.0
12.5°	3044.1	3010.8	2828.3	2398.2	2136.6	1969.6	1807.4	1694.8	1630.4	1648.2	1708.8
15°	3027.8	2982.8	2779.4	2343.9	2069.8	1854.7	1677.0	1547.3	1499.2	1538.0	1635.0
17.5°	3133.4	3076.8	2863.2	2361.7	2006.1	1737.5	1519.4	1371.1	1330.7	1392.8	1519.4
20°	3472.7	3388.9	3124.9	2465.0	1999.9	1679.3	1427.7	1278.7	1295.8	1413.8	1545.8
22.5°	4100.0	3974.2	3582.9	2615.6	2032.5	1664.5	1409.1	1331.5	1425.4	1525.6	1612.5
25°	4224.2	4125.6	3665.2	2649.7	2025.5	1654.4	1461.9	1500.7	1605.5	1655.2	1624.9
27.5°	4294.1	4181.5	3659.8	2480.5	1811.3	1500.7	1397.5	1461.9	1488.3	1440.2	1357.9
30°	4457.1	4339.9	3752.2	2302.7	1491.4	1113.3	975.9	949.5	967.4	976.7	947.2
32.5°	4681.5	4565.8	3926.1	2186.3	1289.5	920.8	785.7	748.4	739.9	729.8	718.1
35°	4971.9	4794.1	4096.9	2111.7	1206.5	851.7	727.5	698.7	687.1	673.1	660.7
37.5°	5266.9	5080.6	4312.7	2033.3	1151.4	803.5	688.6	675.4	655.3	640.5	622.6
40°	5580.5	5371.7	4509.2	1965.0	1097.8	772.5	660.7	659.1	632.7	615.7	594.7
42.5°	5852.3	5637.2	4684.6	1923.1	1056.6	739.9	643.6	648.3	621.1	595.5	568.3
45°	6068.1	5856.9	4846.9	1923.1	1023.3	707.3	640.5	637.4	610.2	578.4	547.3
47.5°	6257.5	6039.4	5005.3	1972.0	1002.3	680.1	623.4	628.9	600.9	560.5	530.3
50°	6404.3	6211.7	5218.8	2048.1	981.3	658.4	601.7	631.2	593.1	551.2	516.3
52.5°	6591.4	6419.0	5475.7	2152.1	963.5	634.3	582.3	631.2	592.4	552.0	514.0
55°	6850.7	6669.0	5785.5	2238.3	934.7	611.8	565.2	613.3	590.0	548.1	507.7
57.5°	7032.4	6896.5	6004.4	2295.7	893.6	583.1	549.7	596.3	579.9	533.4	489.1
58°	7040.9	6908.1	6036.3	2308.9	883.5	577.6	545.8	588.5	575.3	527.2	482.9
60°	6943.1	6828.9	6042.5	2290.3	826.1	550.4	525.6	556.7	550.4	490.7	449.5
62.5°	6587.5	6465.6	5791.7	2138.9	750.0	517.1	494.5	514.0	500.0	439.4	401.4
65°	6082.1	5857.7	5276.2	1901.3	695.6	481.3	452.6	454.2	439.4	395.9	362.6
67.5°	5409.0	5158.2	4467.2	1602.4	654.5	441.8	402.9	399.1	381.2	353.2	326.1
70°	4580.6	4409.0	3630.3	1303.5	608.7	398.3	347.0	344.7	333.8	312.9	288.8
72.5°	3712.6	3494.4	2931.6	1043.4	552.8	356.4	295.0	299.7	285.7	271.0	249.2
75°	2739.8	2597.0	2266.2	836.9	477.5	310.5	246.1	247.7	241.5	225.9	208.8
77.5°	1804.3	1761.6	1621.1	549.7	367.2	246.9	201.1	202.6	198.0	184.0	166.1
80°	1214.2	1185.5	1098.6	354.0	245.3	178.6	155.3	156.8	156.1	141.3	117.2
82.5°	748.4	736.0	708.0	239.1	170.0	128.1	102.5	107.1	115.7	99.4	80.0
85°	353.2	354.0	427.8	130.4	100.2	82.3	55.9	59.8	59.8	59.8	45.0
87.5°	45.8	48.1	59.0	55.1	36.5	31.1	20.2	17.1	14.8	19.4	14.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3
2.5°	2562.0	2546.5	2513.1	2505.3	2500.7	2513.9	2478.9	2488.3	2472.7	2516.2	2509.2
5°	2145.1	2146.7	2173.8	2191.7	2197.9	2191.7	2168.4	2128.0	2097.0	2084.6	2087.7
7.5°	1848.5	1875.7	1922.3	1974.3	2021.7	2035.6	2022.4	1945.6	1861.7	1808.9	1791.9
10°	1749.9	1786.4	1840.0	1881.1	1923.1	1956.5	1963.4	1903.7	1804.3	1679.3	1630.4
12.5°	1755.4	1805.1	1856.3	1869.5	1865.6	1878.8	1872.6	1862.5	1797.3	1638.1	1556.6
15°	1704.1	1763.1	1798.8	1791.9	1779.4	1767.8	1751.5	1725.9	1702.6	1590.8	1500.7
17.5°	1586.1	1646.7	1676.2	1678.5	1678.5	1675.4	1635.8	1626.5	1623.4	1569.0	1513.9
20°	1607.9	1641.2	1628.0	1606.3	1612.5	1633.5	1610.2	1605.5	1623.4	1647.5	1637.4
22.5°	1620.3	1608.6	1509.3	1413.0	1391.3	1456.5	1469.7	1521.7	1593.9	1680.8	1737.5
25°	1543.4	1449.5	1271.7	1163.0	1101.7	1162.2	1241.4	1337.7	1445.6	1557.4	1623.4
27.5°	1290.3	1218.9	1091.6	993.8	940.2	949.5	1017.0	1104.8	1204.9	1280.2	1328.4
30°	972.0	940.2	874.2	840.8	808.2	800.4	829.2	862.5	906.8	916.1	928.5
32.5°	715.8	711.2	715.0	704.2	698.0	697.2	688.6	696.4	701.1	706.5	695.6
35°	647.5	641.3	630.4	627.3	623.4	625.0	621.1	617.2	620.3	625.0	628.1
37.5°	612.6	603.2	587.7	582.3	582.3	584.6	578.4	576.8	582.3	597.0	604.8
40°	585.4	574.5	556.7	549.7	554.3	560.5	552.0	548.9	562.1	577.6	590.0
42.5°	559.8	551.2	534.1	526.4	530.3	541.9	529.5	527.2	544.2	561.3	576.1
45°	538.0	529.5	514.0	510.1	511.6	522.5	514.0	514.0	530.3	548.9	562.1
47.5°	520.9	510.1	500.0	496.9	498.4	504.6	503.1	503.1	518.6	538.0	551.2
50°	503.9	494.5	481.3	482.9	486.8	495.3	494.5	496.9	512.4	536.5	550.4
52.5°	496.1	482.1	467.4	468.9	480.6	490.7	487.6	489.9	507.7	552.8	573.0
55°	487.6	468.9	451.8	454.2	467.4	482.1	478.2	481.3	502.3	563.6	591.6
57.5°	471.3	449.5	430.9	432.4	451.8	467.4	461.2	465.0	489.9	552.0	581.5
58°	464.3	445.6	427.8	428.6	447.2	464.3	457.3	460.4	486.0	548.9	576.8
60°	434.8	423.9	408.4	409.1	427.0	441.8	437.9	441.0	465.8	526.4	547.3
62.5°	394.4	388.2	384.3	384.3	395.2	409.1	413.0	416.9	439.4	475.9	494.5
65°	350.9	350.9	351.7	351.7	358.7	376.5	378.9	389.0	409.9	427.8	441.8
67.5°	321.4	319.9	321.4	317.5	320.6	331.5	343.2	352.5	374.2	386.6	391.3
70°	283.4	282.6	283.4	277.9	281.8	291.1	298.9	314.4	336.9	346.3	348.6
72.5°	246.1	246.1	247.7	243.8	243.8	253.9	259.3	276.4	297.3	302.8	303.6
75°	207.3	209.6	209.6	204.2	205.7	211.9	218.9	232.9	252.3	256.2	256.2
77.5°	164.6	173.1	173.1	167.7	170.0	170.8	180.1	187.1	201.9	203.4	197.2
80°	119.6	128.1	135.1	130.4	134.3	129.7	135.1	139.7	154.5	147.5	137.4
82.5°	85.4	91.6	97.0	97.8	93.9	85.4	92.4	93.2	100.2	90.8	85.4
85°	47.4	52.8	59.8	56.7	50.5	45.0	47.4	48.9	48.1	45.8	42.7
87.5°	12.4	13.2	14.8	10.9	10.1	8.5	11.6	11.6	13.2	14.0	13.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3
2.5°	2514.7	2548.8	2622.6	2678.5	2746.8	2829.9	2927.7	3026.3	3132.6	3166.0	3212.6
5°	2080.7	2166.1	2201.8	2303.5	2404.4	2555.8	2717.3	2904.4	3109.4	3208.0	3302.7
7.5°	1777.9	1823.7	1861.0	1935.5	2056.6	2240.6	2443.2	2676.9	2967.3	3110.9	3249.9
10°	1614.8	1619.5	1665.3	1757.7	1863.3	2025.5	2217.3	2478.9	2802.7	2977.4	3140.4
12.5°	1506.9	1486.7	1536.4	1632.7	1752.3	1902.1	2078.3	2327.6	2683.9	2863.2	3060.4
15°	1412.2	1380.4	1417.7	1516.2	1634.3	1810.5	1999.9	2263.9	2637.3	2846.2	3065.1
17.5°	1414.5	1326.8	1340.0	1423.1	1540.3	1719.7	1949.5	2261.6	2708.0	2948.7	3208.0
20°	1589.2	1448.7	1388.9	1404.5	1517.8	1713.4	1972.8	2370.3	2940.1	3291.0	3568.2
22.5°	1760.8	1676.2	1579.9	1548.1	1610.2	1815.2	2121.0	2627.2	3444.7	3973.5	4474.2
25°	1701.0	1773.2	1749.2	1704.1	1718.1	1888.1	2222.0	2838.4	3836.8	4432.3	4902.8
27.5°	1361.0	1492.2	1518.6	1517.8	1523.2	1663.0	1998.4	2696.3	3885.7	4520.0	4969.5
30°	956.5	968.1	982.1	1009.3	1034.1	1159.1	1563.6	2367.1	3864.0	4559.6	5009.9
32.5°	690.2	705.7	725.1	762.4	821.4	980.6	1368.0	2262.3	3978.9	4723.4	5127.9
35°	631.2	649.0	667.7	710.4	766.3	913.8	1290.3	2218.9	4167.5	4988.9	5339.9
37.5°	612.6	632.7	649.0	680.1	725.1	865.7	1219.7	2189.4	4360.9	5270.0	5624.0
40°	599.4	622.6	635.8	660.7	691.7	821.4	1156.8	2166.1	4548.0	5527.0	5852.3
42.5°	587.7	611.8	628.9	646.7	672.3	781.8	1100.9	2142.8	4710.2	5776.2	6079.7
45°	573.7	604.0	625.8	639.7	662.2	748.4	1058.2	2124.1	4895.0	5997.5	6309.6
47.5°	562.1	595.5	622.6	639.0	647.5	725.1	1024.0	2149.8	5117.0	6228.8	6523.1
50°	562.9	594.7	628.9	654.5	632.0	705.7	1003.1	2251.5	5405.9	6503.6	6691.5
52.5°	587.7	626.5	653.7	659.9	610.2	682.4	992.2	2429.3	5747.5	6746.6	6861.6
55°	615.7	656.0	685.5	681.7	598.6	652.9	989.9	2618.7	6121.7	7030.0	7082.8
57.5°	605.6	664.6	709.6	689.4	599.4	624.2	979.8	2771.6	6434.5	7242.0	7301.8
58°	602.5	661.5	712.7	687.9	597.0	615.7	977.4	2784.8	6478.0	7256.7	7332.8
60°	572.2	634.3	710.4	676.2	583.8	592.4	951.8	2827.5	6466.4	7180.6	7351.4
62.5°	517.1	568.3	656.8	619.5	543.5	561.3	894.4	2774.7	6151.2	6814.2	7078.9
65°	455.0	493.0	552.0	545.0	486.0	529.5	816.0	2565.9	5520.0	6219.5	6498.2
67.5°	408.4	439.4	476.7	466.6	437.1	486.8	731.3	2212.7	4811.9	5505.2	5856.2
70°	361.0	385.1	403.7	396.7	387.4	444.9	656.0	1795.7	4133.4	4826.7	5166.7
72.5°	312.9	335.4	350.9	340.8	335.4	400.6	594.7	1393.6	3264.6	3982.0	4419.1
75°	261.6	284.2	295.0	283.4	280.3	353.2	503.9	1041.1	2449.4	3069.8	3447.1
77.5°	202.6	226.7	240.7	236.8	238.3	290.4	406.8	712.7	1751.5	2092.3	2489.8
80°	142.1	168.5	177.8	173.9	184.8	221.3	287.3	452.6	1208.0	1357.9	1638.1
82.5°	87.7	112.6	114.1	118.0	125.8	163.8	216.6	275.6	758.5	784.1	987.5
85°	44.3	53.6	57.5	63.7	70.6	100.2	123.4	170.8	488.3	369.6	552.0
87.5°	14.8	15.5	18.6	23.3	28.7	41.1	52.8	69.9	121.1	66.8	170.8
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: P452119

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3	2953.3
2.5°	3306.6	3372.5	3420.7	3464.9	3422.2	3418.4	3376.4	3308.9	3280.9	3280.9
5°	3501.4	3655.9	3780.9	3860.9	3826.7	3744.4	3608.6	3435.4	3342.3	3326.0
7.5°	3555.0	3860.1	4092.2	4174.5	4117.1	3935.4	3675.3	3383.4	3249.9	3220.4
10°	3522.4	3919.1	4259.9	4390.4	4310.4	4035.6	3680.8	3322.9	3158.3	3124.1
12.5°	3488.2	3926.9	4291.0	4479.7	4427.6	4116.3	3720.4	3283.3	3093.1	3044.1
15°	3513.1	3930.0	4253.0	4447.8	4481.2	4213.4	3785.6	3312.0	3079.9	3027.8
17.5°	3669.9	3989.0	4198.6	4356.2	4473.4	4345.3	3971.1	3449.4	3197.9	3133.4
20°	3997.5	4130.3	4229.7	4351.5	4540.2	4614.7	4350.8	3826.7	3529.4	3472.7
22.5°	4946.2	4922.2	4718.8	4716.4	4989.7	5288.6	5270.8	4593.8	4146.6	4100.0
25°	5301.8	5190.0	4895.8	4824.4	4944.7	5405.9	5339.1	4750.6	4337.6	4224.2
27.5°	5162.9	4885.7	4692.4	4676.1	4636.5	5072.0	5232.7	4814.3	4404.3	4294.1
30°	5154.3	4746.7	4470.3	4502.9	4541.0	4957.1	5291.7	5013.8	4575.1	4457.1
32.5°	5175.3	4766.1	4486.6	4492.8	4606.2	4974.2	5356.9	5231.2	4799.5	4681.5
35°	5259.9	4876.4	4590.7	4575.9	4752.9	5086.0	5468.0	5572.8	5106.2	4971.9
37.5°	5396.5	5096.1	4780.9	4777.0	5034.0	5287.9	5606.2	5917.5	5411.3	5266.9
40°	5597.6	5353.1	5119.4	5098.4	5416.0	5616.3	5785.5	6284.7	5766.1	5580.5
42.5°	5840.6	5661.3	5565.8	5648.9	5954.0	5985.0	6065.0	6624.0	6068.1	5852.3
45°	6065.8	6057.2	6190.0	6410.5	6588.3	6401.9	6356.9	6851.5	6302.6	6068.1
47.5°	6333.6	6565.0	6965.6	7288.6	7474.9	6887.2	6606.1	6999.7	6473.4	6257.5
50°	6605.3	7172.9	7812.6	8262.9	8302.5	7414.3	6777.7	7139.5	6628.6	6404.3
52.5°	6891.1	7658.1	8509.8	9033.1	8956.2	7873.2	6943.8	7234.2	6788.6	6591.4
55°	7139.5	7955.5	8899.5	9401.8	9289.3	8152.7	7123.2	7336.7	7016.8	6850.7
57.5°	7278.5	7980.3	8802.5	9241.1	9119.2	8098.3	7205.5	7412.8	7162.8	7032.4
58°	7298.6	7946.9	8716.3	9148.0	9023.7	8052.5	7204.7	7409.7	7172.1	7040.9
60°	7280.8	7730.3	8395.7	8780.0	8649.5	7765.2	7175.2	7351.4	7054.1	6943.1
62.5°	7115.4	7354.5	7842.1	8121.6	8084.3	7316.5	7054.1	7131.7	6694.6	6587.5
65°	6898.0	6842.1	7133.3	7331.3	7359.2	6980.3	6933.8	6656.6	6233.5	6082.1
67.5°	6634.1	6261.4	6260.6	6373.2	6419.8	6463.3	6683.0	6140.3	5568.9	5409.0
70°	6186.1	5366.3	5119.4	5252.1	5213.3	5580.5	6235.0	5415.2	4767.7	4580.6
72.5°	5364.7	4258.4	3863.2	4034.0	3936.2	4376.4	5455.5	4456.4	3942.4	3712.6
75°	4348.4	3185.4	2777.8	2934.7	2874.1	3319.8	4539.4	3236.7	2827.5	2739.8
77.5°	3376.4	2308.1	2071.4	2049.6	2094.6	2470.4	3329.8	2185.5	1864.1	1804.3
80°	2169.2	1652.1	1666.1	1638.1	1661.4	1557.4	2021.7	1394.4	1262.4	1214.2
82.5°	1427.7	1151.4	1372.6	1267.0	1203.4	1047.3	1326.0	913.0	774.8	748.4
85°	972.8	847.8	771.7	590.0	694.9	806.6	994.5	491.4	389.7	353.2
87.5°	439.4	295.0	216.6	133.5	211.2	243.8	482.9	57.5	44.3	45.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)