

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: P453337

Luminaire Tested: **GALN-SA4B-760-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453337
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-SA4B-760-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 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: 19403 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

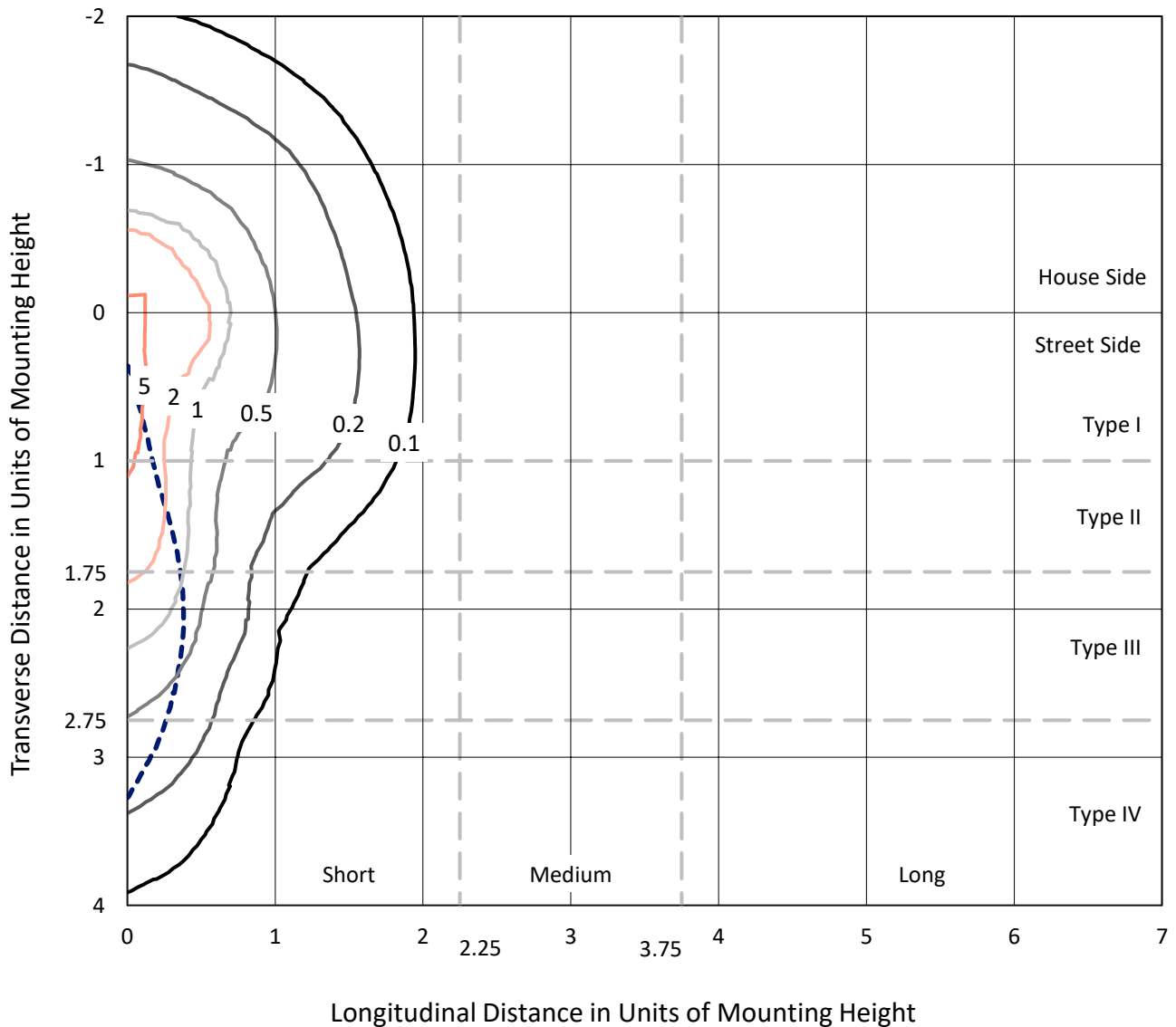
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

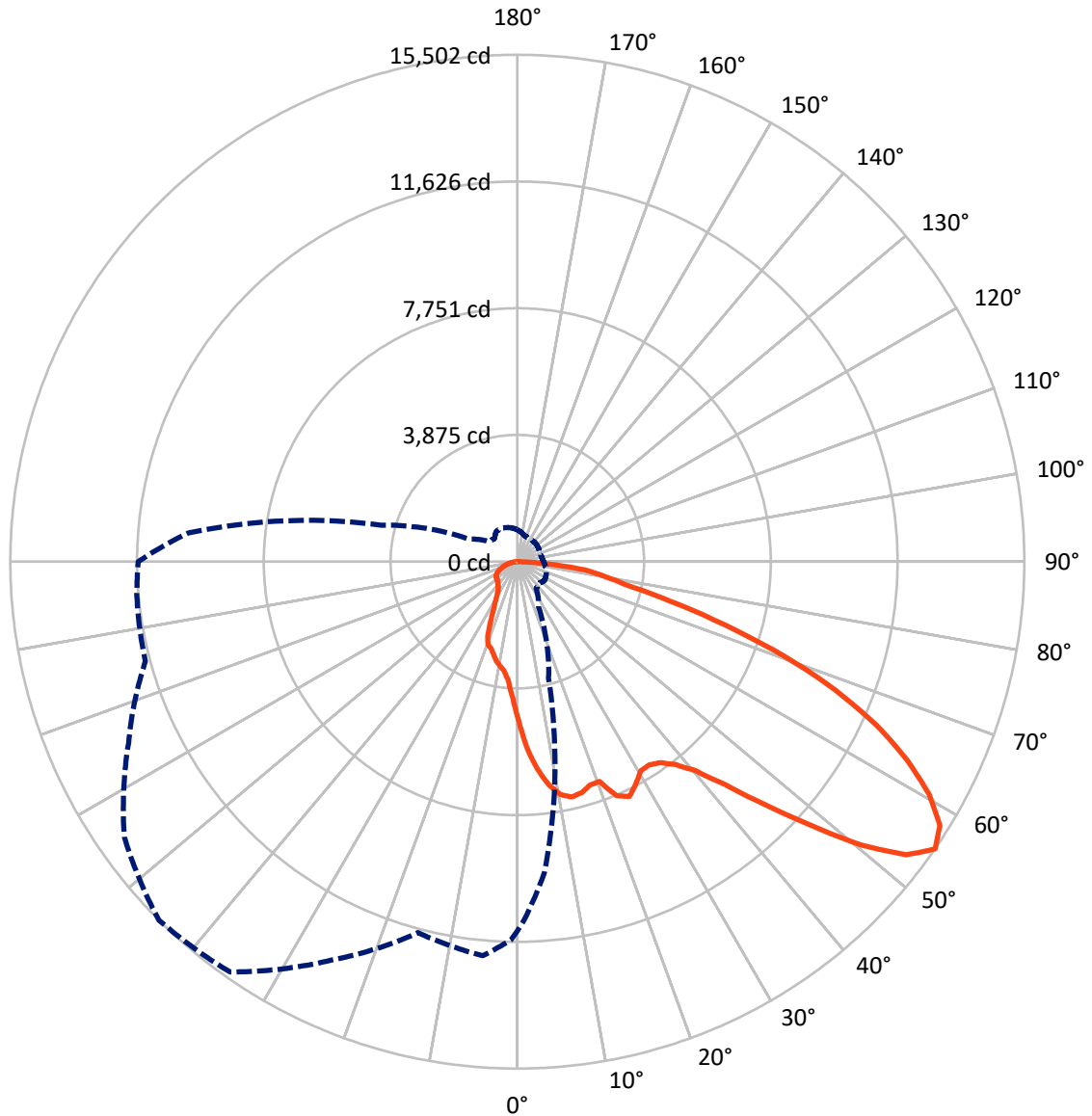
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	4244.3	0.0	4244.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15158.7	0.0	15158.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	19403.0	0.0	19403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.7	2.1
10°-20°	1094.9	5.6
20°-30°	1891.5	9.7
30°-40°	2198.2	11.3
40°-50°	3066.9	15.8
50°-60°	4161.5	21.4
60°-70°	3959.1	20.4
70°-80°	2138.8	11.0
80°-90°	479.3	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°	19403.0	100.0
0°-180°	19403.0	100.0

Coefficient of Utilization



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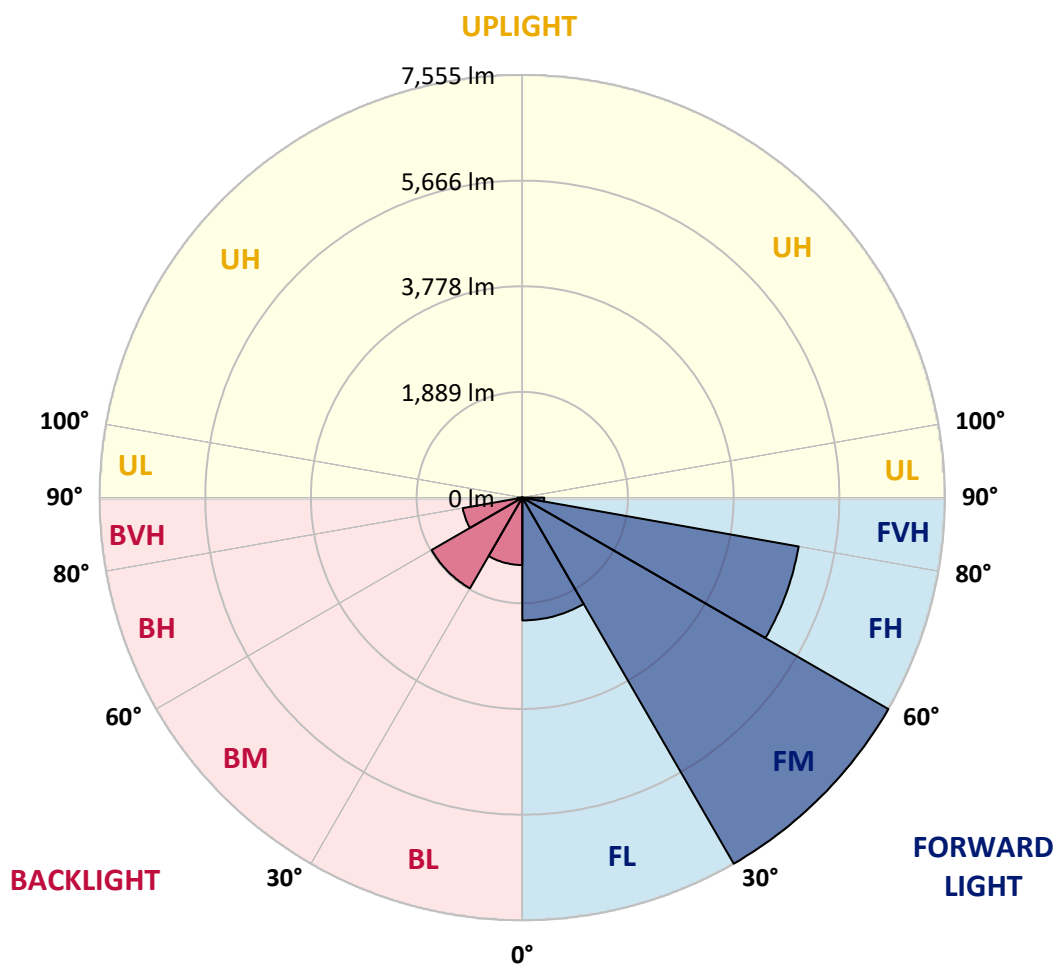
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2194.5	11.3			
FM	(30°-60°)	7555.1	38.9			
FH	(60°-80°)	5017.3	25.9			G3/7500
FVH	(80°-90°)	391.8	2.0			G3/500
BL	(0°-30°)	1204.5	6.2	B3/2500		
BM	(30°-60°)	1871.5	9.6	B2/2500		
BH	(60°-80°)	1080.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	87.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	5409.6	5389.1	5331.5	5180.5	5028.1	4873.2	4754.2	4605.7	4450.8	4367.6	4261.4
5°	5483.8	5460.8	5325.1	4984.6	4676.1	4352.2	4093.7	3867.1	3774.9	3639.2	3530.4
7.5°	5309.7	5299.5	5096.0	4607.0	4184.6	3760.9	3467.7	3285.9	3120.8	3059.4	3072.2
10°	5151.0	5110.0	4855.3	4216.6	3723.7	3379.4	3169.5	2991.5	2875.0	2844.3	2850.7
12.5°	5019.2	4964.1	4663.3	3954.1	3522.8	3247.5	2980.0	2794.4	2688.2	2717.6	2817.4
15°	4992.3	4918.0	4582.7	3864.5	3412.7	3058.1	2765.0	2551.2	2471.8	2535.8	2695.8
17.5°	5166.4	5072.9	4720.9	3894.0	3307.7	2864.8	2505.1	2260.6	2194.0	2296.4	2505.1
20°	5725.8	5587.5	5152.3	4064.2	3297.5	2768.8	2354.1	2108.3	2136.4	2331.0	2548.6
22.5°	6760.1	6552.7	5907.5	4312.6	3351.2	2744.5	2323.3	2195.3	2350.2	2515.3	2658.7
25°	6964.9	6802.3	6043.2	4368.9	3339.7	2727.8	2410.4	2474.4	2647.2	2729.1	2679.2
27.5°	7080.1	6894.5	6034.3	4089.8	2986.4	2474.4	2304.1	2410.4	2453.9	2374.5	2238.8
30°	7348.9	7155.6	6186.6	3796.7	2459.0	1835.6	1609.1	1565.5	1595.0	1610.3	1561.7
32.5°	7718.8	7528.1	6473.3	3604.7	2126.2	1518.2	1295.4	1234.0	1219.9	1203.3	1184.1
35°	8197.6	7904.4	6754.9	3481.8	1989.2	1404.2	1199.4	1152.1	1132.9	1109.8	1089.3
37.5°	8684.0	8376.8	7110.8	3352.5	1898.3	1324.9	1135.4	1113.7	1080.4	1056.1	1026.6
40°	9201.2	8856.8	7434.7	3239.9	1810.0	1273.7	1089.3	1086.8	1043.3	1015.1	980.5
42.5°	9649.2	9294.6	7724.0	3170.7	1742.2	1219.9	1061.2	1068.9	1024.1	981.8	937.0
45°	10005.0	9656.9	7991.5	3170.7	1687.1	1166.1	1056.1	1050.9	1006.1	953.7	902.5
47.5°	10317.4	9957.7	8252.6	3251.4	1652.6	1121.3	1027.9	1036.9	990.8	924.2	874.3
50°	10559.3	10241.9	8604.6	3376.8	1618.0	1085.5	992.1	1040.7	978.0	908.9	851.2
52.5°	10867.8	10583.6	9028.4	3548.4	1588.6	1045.8	960.1	1040.7	976.7	910.1	847.4
55°	11295.4	10995.8	9539.1	3690.4	1541.2	1008.7	931.9	1011.3	972.9	903.7	837.2
57.5°	11594.9	11370.9	9900.1	3785.2	1473.4	961.3	906.3	983.1	956.2	879.4	806.4
58°	11609.0	11390.1	9952.6	3806.9	1456.7	952.4	899.9	970.3	948.5	869.2	796.2
60°	11447.7	11259.5	9962.8	3776.2	1362.0	907.6	866.6	917.8	907.6	809.0	741.2
62.5°	10861.4	10660.4	9549.3	3526.6	1236.5	852.5	815.4	847.4	824.4	724.5	661.8
65°	10028.1	9658.1	8699.4	3134.9	1146.9	793.6	746.3	748.8	724.5	652.8	597.8
67.5°	8918.3	8504.8	7365.5	2642.1	1079.1	728.4	664.4	658.0	628.5	582.4	537.6
70°	7552.4	7269.5	5985.6	2149.2	1003.6	656.7	572.2	568.4	550.4	515.9	476.2
72.5°	6121.3	5761.6	4833.6	1720.4	911.4	587.6	486.4	494.1	471.1	446.7	410.9
75°	4517.4	4281.8	3736.5	1379.9	787.2	512.0	405.8	408.3	398.1	372.5	344.3
77.5°	2974.9	2904.5	2672.8	906.3	605.5	407.1	331.5	334.1	326.4	303.4	273.9
80°	2002.0	1954.7	1811.3	583.7	404.5	294.4	256.0	258.6	257.3	233.0	193.3
82.5°	1234.0	1213.5	1167.4	394.3	280.3	211.2	169.0	176.6	190.7	163.8	131.8
85°	582.4	583.7	705.3	215.1	165.1	135.7	92.2	98.6	98.6	98.6	74.2
87.5°	75.5	79.4	97.3	90.9	60.2	51.2	33.3	28.2	24.3	32.0	23.0
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°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	4224.2	4198.6	4143.6	4130.8	4123.1	4144.9	4087.3	4102.6	4077.0	4148.7	4137.2
5°	3536.8	3539.4	3584.2	3613.6	3623.9	3613.6	3575.2	3508.7	3457.5	3437.0	3442.1
7.5°	3047.9	3092.7	3169.5	3255.2	3333.3	3356.3	3334.6	3207.9	3069.6	2982.6	2954.4
10°	2885.3	2945.4	3033.8	3101.6	3170.7	3225.8	3237.3	3138.7	2974.9	2768.8	2688.2
12.5°	2894.2	2976.2	3060.7	3082.4	3076.0	3097.8	3087.5	3070.9	2963.4	2701.0	2566.5
15°	2809.8	2907.0	2965.9	2954.4	2933.9	2914.7	2887.8	2845.6	2807.2	2622.9	2474.4
17.5°	2615.2	2715.0	2763.7	2767.5	2767.5	2762.4	2697.1	2681.8	2676.6	2587.0	2496.1
20°	2651.0	2706.1	2684.3	2648.5	2658.7	2693.3	2654.9	2647.2	2676.6	2716.3	2699.7
22.5°	2671.5	2652.3	2488.5	2329.7	2293.9	2401.4	2423.2	2508.9	2628.0	2771.4	2864.8
25°	2544.8	2389.9	2096.8	1917.5	1816.4	1916.3	2046.8	2205.6	2383.5	2567.8	2676.6
27.5°	2127.5	2009.7	1799.8	1638.5	1550.2	1565.5	1676.9	1821.5	1986.7	2110.8	2190.2
30°	1602.7	1550.2	1441.4	1386.3	1332.6	1319.8	1367.1	1422.2	1495.1	1510.5	1531.0
32.5°	1180.2	1172.5	1178.9	1161.0	1150.8	1149.5	1135.4	1148.2	1155.9	1164.9	1146.9
35°	1067.6	1057.3	1039.4	1034.3	1027.9	1030.5	1024.1	1017.7	1022.8	1030.5	1035.6
37.5°	1010.0	994.6	969.0	960.1	960.1	963.9	953.7	951.1	960.1	984.4	997.2
40°	965.2	947.3	917.8	906.3	914.0	924.2	910.1	905.0	926.8	952.4	972.9
42.5°	922.9	908.9	880.7	867.9	874.3	893.5	873.0	869.2	897.3	925.5	949.8
45°	887.1	873.0	847.4	841.0	843.6	861.5	847.4	847.4	874.3	905.0	926.8
47.5°	858.9	841.0	824.4	819.2	821.8	832.0	829.5	829.5	855.1	887.1	908.9
50°	830.8	815.4	793.6	796.2	802.6	816.7	815.4	819.2	844.8	884.5	907.6
52.5°	818.0	794.9	770.6	773.2	792.4	809.0	803.9	807.7	837.2	911.4	944.7
55°	803.9	773.2	745.0	748.8	770.6	794.9	788.5	793.6	828.2	929.3	975.4
57.5°	777.0	741.2	710.4	713.0	745.0	770.6	760.4	766.8	807.7	910.1	958.8
58°	765.5	734.8	705.3	706.6	737.3	765.5	754.0	759.1	801.3	905.0	951.1
60°	716.8	698.9	673.3	674.6	704.0	728.4	722.0	727.1	768.0	867.9	902.5
62.5°	650.3	640.0	633.6	633.6	651.6	674.6	681.0	687.4	724.5	784.7	815.4
65°	578.6	578.6	579.9	579.9	591.4	620.8	624.7	641.3	675.9	705.3	728.4
67.5°	529.9	527.4	529.9	523.5	528.7	546.6	565.8	581.2	617.0	637.5	645.2
70°	467.2	465.9	467.2	458.3	464.7	480.0	492.8	518.4	555.6	570.9	574.8
72.5°	405.8	405.8	408.3	401.9	401.9	418.6	427.5	455.7	490.3	499.2	500.5
75°	341.8	345.6	345.6	336.7	339.2	349.5	361.0	384.0	416.0	422.4	422.4
77.5°	271.4	285.5	285.5	276.5	280.3	281.6	297.0	308.5	332.8	335.4	325.1
80°	197.1	211.2	222.7	215.1	221.5	213.8	222.7	230.4	254.7	243.2	226.6
82.5°	140.8	151.0	160.0	161.3	154.9	140.8	152.3	153.6	165.1	149.8	140.8
85°	78.1	87.0	98.6	93.4	83.2	74.2	78.1	80.6	79.4	75.5	70.4
87.5°	20.5	21.8	24.3	17.9	16.6	14.1	19.2	19.2	21.8	23.0	21.8
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°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	4146.2	4202.5	4324.1	4416.2	4528.9	4665.9	4827.2	4989.7	5165.1	5220.1	5296.9
5°	3430.6	3571.4	3630.3	3798.0	3964.4	4214.0	4480.3	4788.8	5126.7	5289.3	5445.4
7.5°	2931.4	3006.9	3068.3	3191.2	3390.9	3694.3	4028.4	4413.7	4892.4	5129.2	5358.4
10°	2662.6	2670.2	2745.8	2898.1	3072.2	3339.7	3655.9	4087.3	4621.1	4909.1	5177.9
12.5°	2484.6	2451.3	2533.3	2692.0	2889.1	3136.2	3426.8	3837.7	4425.2	4720.9	5046.0
15°	2328.5	2276.0	2337.4	2500.0	2694.6	2985.1	3297.5	3732.7	4348.4	4692.7	5053.7
17.5°	2332.3	2187.6	2209.4	2346.4	2539.7	2835.4	3214.3	3728.9	4464.9	4861.7	5289.3
20°	2620.3	2388.6	2290.0	2315.7	2502.5	2825.1	3252.7	3908.1	4847.6	5426.2	5883.2
22.5°	2903.2	2763.7	2604.9	2552.5	2654.9	2992.8	3497.2	4331.8	5679.7	6551.4	7377.1
25°	2804.6	2923.7	2884.0	2809.8	2832.8	3113.1	3663.6	4679.9	6326.1	7307.9	8083.7
27.5°	2244.0	2460.3	2503.8	2502.5	2511.5	2741.9	3294.9	4445.7	6406.8	7452.6	8193.7
30°	1577.0	1596.3	1619.3	1664.1	1705.1	1911.1	2578.1	3902.9	6370.9	7517.9	8260.3
32.5°	1138.0	1163.6	1195.6	1257.0	1354.3	1616.7	2255.5	3730.1	6560.4	7788.0	8454.9
35°	1040.7	1070.1	1100.9	1171.3	1263.4	1506.6	2127.5	3658.4	6871.4	8225.7	8804.3
37.5°	1010.0	1043.3	1070.1	1121.3	1195.6	1427.3	2011.0	3609.8	7190.2	8689.1	9272.8
40°	988.2	1026.6	1048.4	1089.3	1140.5	1354.3	1907.3	3571.4	7498.7	9112.8	9649.2
42.5°	969.0	1008.7	1036.9	1066.3	1108.5	1289.0	1815.1	3533.0	7766.2	9523.7	10024.2
45°	946.0	995.9	1031.7	1054.8	1091.9	1234.0	1744.7	3502.3	8070.9	9888.6	10403.1
47.5°	926.8	981.8	1026.6	1053.5	1067.6	1195.6	1688.4	3544.5	8437.0	10270.0	10755.2
50°	928.1	980.5	1036.9	1079.1	1042.0	1163.6	1653.9	3712.2	8913.1	10723.2	11032.9
52.5°	969.0	1033.0	1077.8	1088.1	1006.1	1125.2	1635.9	4005.3	9476.4	11123.8	11313.3
55°	1015.1	1081.7	1130.3	1123.9	986.9	1076.5	1632.1	4317.7	10093.4	11591.1	11678.1
57.5°	998.5	1095.7	1170.0	1136.7	988.2	1029.2	1615.5	4569.9	10609.2	11940.5	12039.1
58°	993.3	1090.6	1175.1	1134.1	984.4	1015.1	1611.6	4591.6	10680.9	11964.8	12090.3
60°	943.4	1045.8	1171.3	1114.9	962.6	976.7	1569.4	4662.0	10661.7	11839.4	12121.0
62.5°	852.5	937.0	1082.9	1021.5	896.1	925.5	1474.6	4575.0	10142.0	11235.2	11671.7
65°	750.1	812.8	910.1	898.6	801.3	873.0	1345.4	4230.6	9101.3	10254.7	10714.2
67.5°	673.3	724.5	786.0	769.3	720.7	802.6	1205.8	3648.2	7933.9	9077.0	9655.6
70°	595.2	634.9	665.6	654.1	638.8	733.5	1081.7	2960.8	6815.1	7958.2	8518.9
72.5°	515.9	553.0	578.6	562.0	553.0	660.5	980.5	2297.7	5382.7	6565.5	7286.2
75°	431.4	468.5	486.4	467.2	462.1	582.4	830.8	1716.6	4038.6	5061.4	5683.5
77.5°	334.1	373.8	396.8	390.4	393.0	478.7	670.8	1175.1	2887.8	3449.8	4105.2
80°	234.3	277.8	293.1	286.7	304.7	364.8	473.6	746.3	1991.8	2238.8	2701.0
82.5°	144.6	185.6	188.2	194.6	207.4	270.1	357.1	454.4	1250.6	1292.9	1628.3
85°	73.0	88.3	94.7	105.0	116.5	165.1	203.5	281.6	805.2	609.3	910.1
87.5°	24.3	25.6	30.7	38.4	47.4	67.8	87.0	115.2	199.7	110.1	281.6
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: P453337

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4	4869.4
2.5°	5451.8	5560.6	5640.0	5713.0	5642.6	5636.2	5567.0	5455.7	5409.6	5409.6
5°	5773.1	6027.9	6234.0	6365.8	6309.5	6173.8	5949.8	5664.3	5510.7	5483.8
7.5°	5861.5	6364.5	6747.3	6882.9	6788.2	6488.7	6059.9	5578.6	5358.4	5309.7
10°	5807.7	6461.8	7023.8	7238.8	7107.0	6653.8	6068.8	5478.7	5207.3	5151.0
12.5°	5751.4	6474.6	7075.0	7386.0	7300.3	6786.9	6134.1	5413.4	5099.8	5019.2
15°	5792.3	6479.7	7012.2	7333.5	7388.6	6947.0	6241.6	5460.8	5078.0	4992.3
17.5°	6050.9	6577.0	6922.6	7182.5	7375.8	7164.6	6547.6	5687.4	5272.6	5166.4
20°	6591.1	6810.0	6973.8	7174.8	7485.9	7608.7	7173.5	6309.5	5819.2	5725.8
22.5°	8155.3	8115.7	7780.3	7776.4	8227.0	8719.9	8690.4	7574.2	6836.9	6760.1
25°	8741.6	8557.3	8072.1	7954.4	8152.8	8913.1	8803.1	7832.8	7151.8	6964.9
27.5°	8512.5	8055.5	7736.8	7709.9	7644.6	8362.7	8627.7	7937.7	7261.9	7080.1
30°	8498.4	7826.4	7370.7	7424.4	7487.1	8173.3	8725.0	8266.7	7543.5	7348.9
32.5°	8533.0	7858.4	7397.5	7407.8	7594.7	8201.4	8832.5	8625.1	7913.4	7718.8
35°	8672.5	8040.1	7569.1	7544.7	7836.6	8385.8	9015.5	9188.4	8419.0	8197.6
37.5°	8897.8	8402.4	7882.7	7876.3	8300.0	8718.6	9243.4	9756.7	8922.1	8684.0
40°	9229.3	8826.1	8440.8	8406.2	8929.8	9260.0	9539.1	10362.2	9507.1	9201.2
42.5°	9630.0	9334.3	9176.8	9313.8	9816.9	9868.1	9999.9	10921.6	10005.0	9649.2
45°	10001.2	9987.1	10206.0	10569.6	10862.7	10555.5	10481.2	11296.6	10391.6	10005.0
47.5°	10442.8	10824.3	11484.8	12017.3	12324.5	11355.5	10892.1	11541.1	10673.2	10317.4
50°	10890.9	11826.6	12881.4	13623.8	13689.1	12224.7	11175.0	11771.5	10929.3	10559.3
52.5°	11361.9	12626.6	14030.9	14893.6	14766.9	12981.2	11449.0	11927.7	11193.0	10867.8
55°	11771.5	13116.9	14673.5	15501.7	15316.1	13442.0	11744.7	12096.7	11569.3	11295.4
57.5°	12000.7	13157.9	14513.5	15236.7	15035.7	13352.4	11880.4	12222.1	11809.9	11594.9
58°	12034.0	13102.8	14371.4	15083.1	14878.3	13276.9	11879.1	12217.0	11825.3	11609.0
60°	12004.5	12745.7	13842.7	14476.3	14261.3	12803.3	11830.4	12121.0	11630.7	11447.7
62.5°	11731.9	12126.1	12930.0	13390.8	13329.4	12063.4	11630.7	11758.7	11038.1	10861.4
65°	11373.4	11281.3	11761.3	12087.7	12133.8	11509.1	11432.3	10975.3	10277.7	10028.1
67.5°	10938.2	10323.8	10322.5	10508.1	10584.9	10656.6	11018.9	10124.1	9182.0	8918.3
70°	10199.6	8847.9	8440.8	8659.7	8595.7	9201.2	10280.3	8928.5	7860.9	7552.4
72.5°	8845.3	7021.2	6369.6	6651.3	6490.0	7215.8	8995.1	7347.6	6500.2	6121.3
75°	7169.7	5252.1	4580.1	4838.7	4738.8	5473.6	7484.6	5336.6	4662.0	4517.4
77.5°	5567.0	3805.7	3415.2	3379.4	3453.6	4073.2	5490.2	3603.4	3073.5	2974.9
80°	3576.5	2724.0	2747.0	2701.0	2739.4	2567.8	3333.3	2299.0	2081.4	2002.0
82.5°	2354.1	1898.3	2263.2	2089.1	1984.1	1726.8	2186.4	1505.4	1277.5	1234.0
85°	1603.9	1397.8	1272.4	972.9	1145.7	1330.0	1639.8	810.3	642.6	582.4
87.5°	724.5	486.4	357.1	220.2	348.2	401.9	796.2	94.7	73.0	75.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)