

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: P453395

Luminaire Tested: **GALN-SA4B-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453395
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-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 15419 lumens
Efficiency: N/A
Efficacy: 94.0 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): 164
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

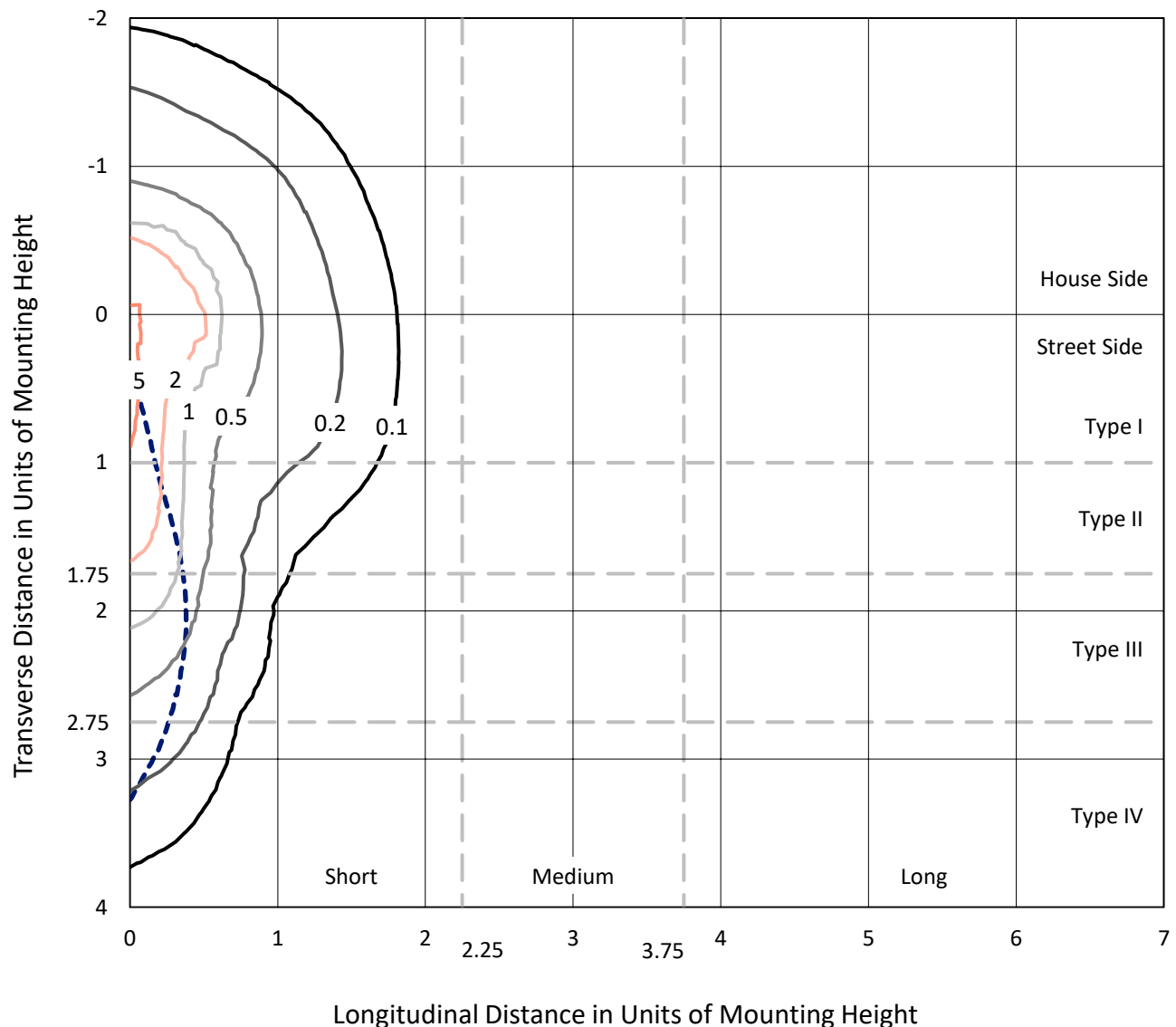


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

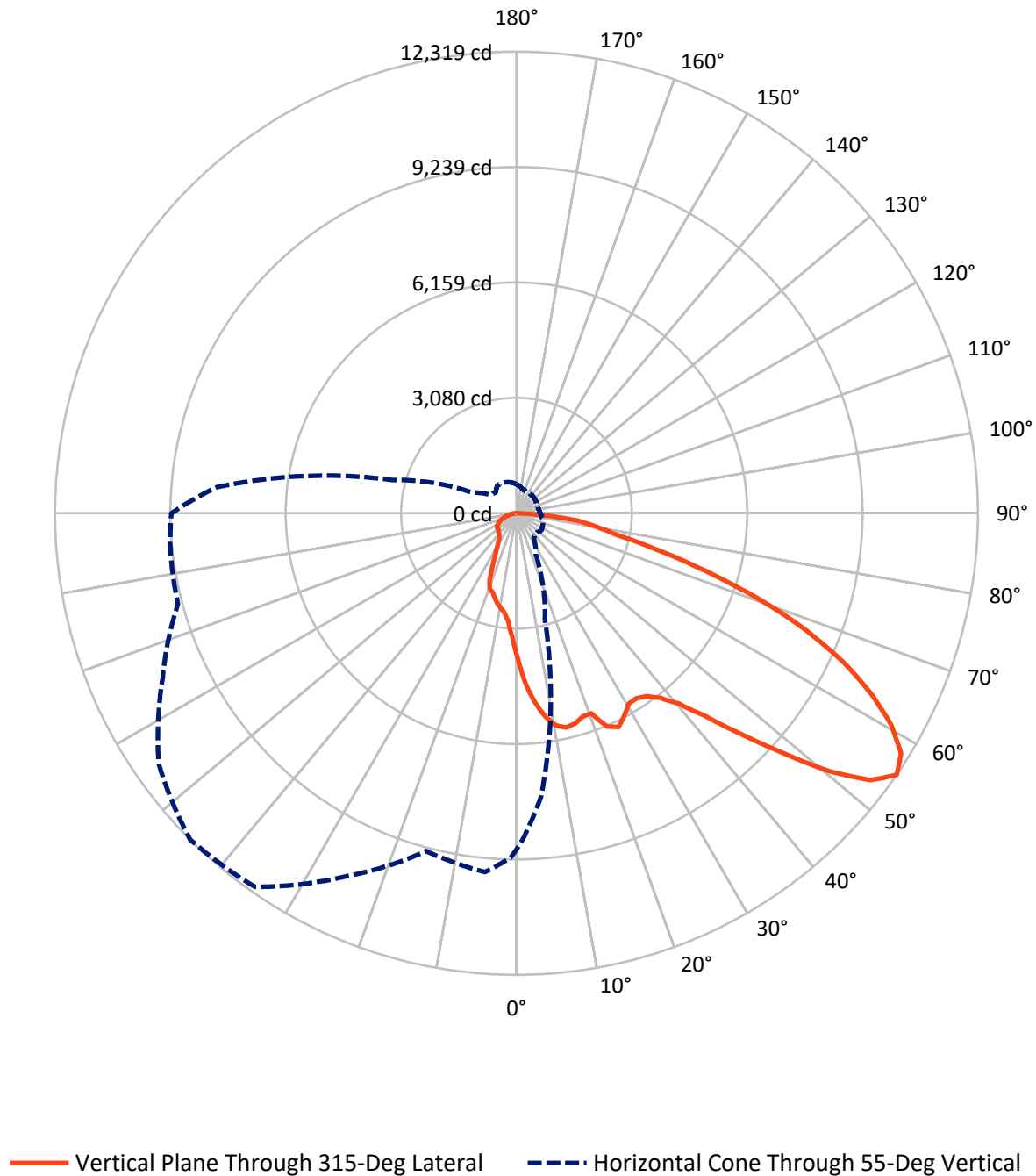


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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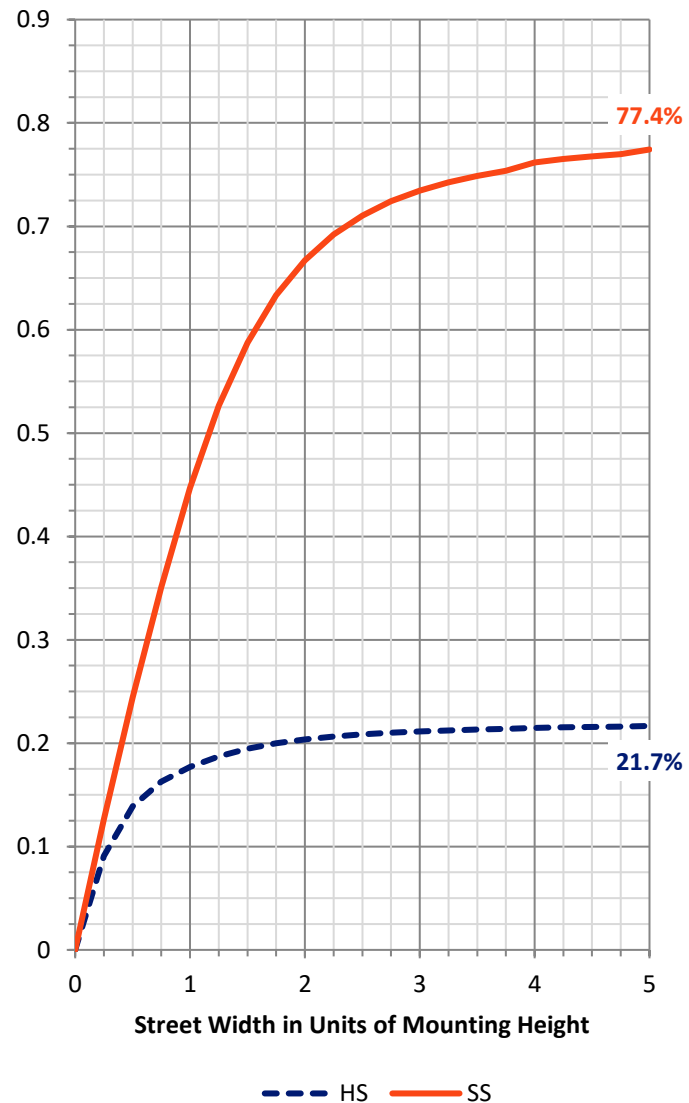
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3372.8	0.0	3372.8
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12046.2	0.0	12046.2
	% Fixture	78.1	0.0	78.1
Total	Lumens	15419.0	0.0	15419.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.0	2.1
10°-20°	870.1	5.6
20°-30°	1503.1	9.7
30°-40°	1746.8	11.3
40°-50°	2437.2	15.8
50°-60°	3307.0	21.4
60°-70°	3146.2	20.4
70°-80°	1699.7	11.0
80°-90°	380.9	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°	15419.0	100.0
0°-180°	15419.0	100.0

Coefficient of Utilization



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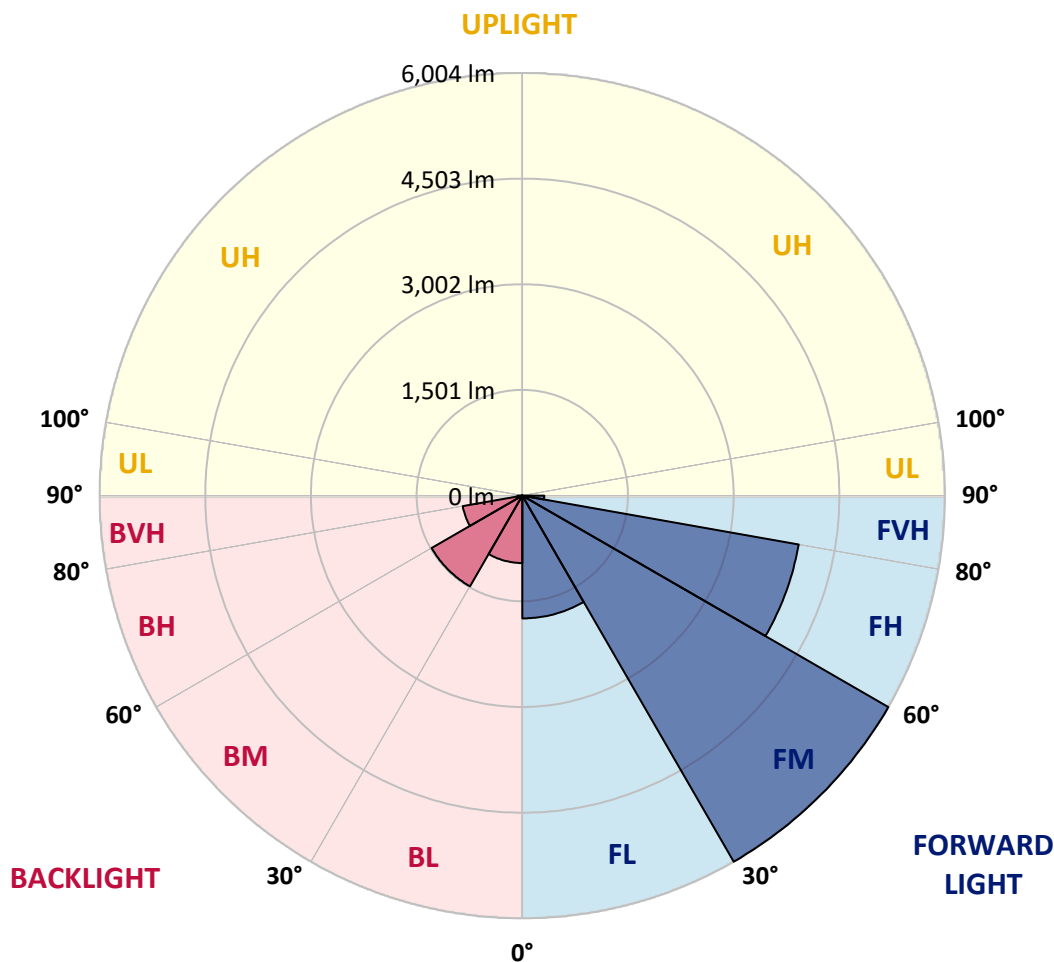
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1743.9	11.3			
FM	(30°-60°)	6003.8	38.9			
FH	(60°-80°)	3987.1	25.9			G2/5000
FVH	(80°-90°)	311.3	2.0			G3/500
BL	(0°-30°)	957.2	6.2	B2/1000		
BM	(30°-60°)	1487.2	9.6	B2/2500		
BH	(60°-80°)	858.8	5.6	B2/1000		G2/1000
BVH	(80°-90°)	69.6	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°	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6
2.5°	4298.8	4282.6	4236.8	4116.8	3995.7	3872.6	3778.0	3660.0	3536.9	3470.8	3386.4
5°	4357.8	4339.5	4231.7	3961.1	3716.0	3458.6	3253.1	3073.1	2999.8	2892.0	2805.5
7.5°	4219.5	4211.4	4049.6	3661.0	3325.3	2988.6	2755.7	2611.2	2480.0	2431.2	2441.4
10°	4093.4	4060.8	3858.4	3350.8	2959.1	2685.5	2518.7	2377.3	2284.7	2260.3	2265.4
12.5°	3988.6	3944.8	3705.8	3142.2	2799.4	2580.7	2368.1	2220.6	2136.2	2159.6	2238.9
15°	3967.2	3908.2	3641.7	3071.0	2712.0	2430.2	2197.2	2027.4	1964.3	2015.1	2142.3
17.5°	4105.6	4031.3	3751.6	3094.4	2628.5	2276.6	1990.7	1796.4	1743.5	1824.9	1990.7
20°	4550.1	4440.2	4094.4	3229.7	2620.4	2200.3	1870.7	1675.4	1697.8	1852.4	2025.3
22.5°	5372.0	5207.2	4694.5	3427.1	2663.1	2181.0	1846.3	1744.6	1867.6	1998.9	2112.8
25°	5534.8	5405.6	4802.4	3471.8	2654.0	2167.7	1915.5	1966.3	2103.6	2168.7	2129.1
27.5°	5626.3	5478.8	4795.3	3250.1	2373.2	1966.3	1831.0	1915.5	1950.0	1887.0	1779.1
30°	5840.0	5686.4	4916.3	3017.1	1954.1	1458.7	1278.7	1244.1	1267.5	1279.7	1241.0
32.5°	6133.9	5982.4	5144.2	2864.5	1689.6	1206.4	1029.4	980.6	969.4	956.2	940.9
35°	6514.4	6281.4	5368.0	2766.9	1580.8	1115.9	953.2	915.5	900.3	881.9	865.7
37.5°	6900.9	6656.8	5650.7	2664.1	1508.6	1052.8	902.3	885.0	858.5	839.2	815.8
40°	7311.9	7038.3	5908.1	2574.6	1438.4	1012.2	865.7	863.6	829.0	806.7	779.2
42.5°	7667.9	7386.2	6138.0	2519.7	1384.5	969.4	843.3	849.4	813.8	780.2	744.6
45°	7950.7	7674.0	6350.6	2519.7	1340.7	926.7	839.2	835.2	799.5	757.8	717.2
47.5°	8198.9	7913.1	6558.1	2583.8	1313.3	891.1	816.8	824.0	787.3	734.4	694.8
50°	8391.2	8138.9	6837.9	2683.5	1285.8	862.6	788.4	827.0	777.2	722.2	676.5
52.5°	8636.3	8410.5	7174.6	2819.8	1262.4	831.1	762.9	827.0	776.2	723.3	673.4
55°	8976.1	8738.1	7580.4	2932.7	1224.8	801.6	740.5	803.6	773.1	718.2	665.3
57.5°	9214.1	9036.1	7867.3	3008.0	1170.8	763.9	720.2	781.2	759.9	698.8	640.9
58°	9225.3	9051.4	7909.0	3025.3	1157.6	756.8	715.1	771.1	753.8	690.7	632.7
60°	9097.1	8947.6	7917.1	3000.8	1082.3	721.2	688.7	729.4	721.2	642.9	589.0
62.5°	8631.2	8471.5	7588.6	2802.5	982.7	677.5	648.0	673.4	655.1	575.8	525.9
65°	7969.0	7675.0	6913.1	2491.2	911.4	630.7	593.0	595.1	575.8	518.8	475.0
67.5°	7087.1	6758.5	5853.2	2099.6	857.5	578.8	527.9	522.9	499.5	462.8	427.2
70°	6001.7	5776.9	4756.6	1707.9	797.5	521.8	454.7	451.7	437.4	409.9	378.4
72.5°	4864.4	4578.6	3841.1	1367.2	724.3	466.9	386.5	392.7	374.3	355.0	326.5
75°	3589.8	3402.7	2969.3	1096.6	625.6	406.9	322.5	324.5	316.4	296.0	273.6
77.5°	2364.1	2308.1	2124.0	720.2	481.2	323.5	263.5	265.5	259.4	241.1	217.7
80°	1591.0	1553.3	1439.4	463.9	321.4	234.0	203.4	205.5	204.5	185.1	153.6
82.5°	980.6	964.3	927.7	313.3	222.8	167.8	134.3	140.4	151.6	130.2	104.8
85°	462.8	463.9	560.5	170.9	131.2	107.8	73.2	78.3	78.3	78.3	59.0
87.5°	60.0	63.1	77.3	72.2	47.8	40.7	26.4	22.4	19.3	25.4	18.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6
2.5°	3356.9	3336.5	3292.8	3282.6	3276.5	3293.8	3248.0	3260.2	3239.9	3296.9	3287.7
5°	2810.6	2812.7	2848.3	2871.7	2879.8	2871.7	2841.1	2788.2	2747.6	2731.3	2735.3
7.5°	2422.0	2457.6	2518.7	2586.8	2648.9	2667.2	2649.9	2549.2	2439.3	2370.2	2347.8
10°	2292.9	2340.7	2410.8	2464.8	2519.7	2563.4	2572.6	2494.3	2364.1	2200.3	2136.2
12.5°	2300.0	2365.1	2432.2	2449.5	2444.4	2461.7	2453.6	2440.3	2354.9	2146.4	2039.6
15°	2232.8	2310.1	2356.9	2347.8	2331.5	2316.2	2294.9	2261.3	2230.8	2084.3	1966.3
17.5°	2078.2	2157.6	2196.2	2199.3	2199.3	2195.2	2143.3	2131.1	2127.0	2055.8	1983.6
20°	2106.7	2150.4	2133.1	2104.7	2112.8	2140.3	2109.7	2103.6	2127.0	2158.6	2145.4
22.5°	2123.0	2107.7	1977.5	1851.4	1822.9	1908.3	1925.6	1993.8	2088.4	2202.3	2276.6
25°	2022.3	1899.2	1666.2	1523.8	1443.5	1522.8	1626.6	1752.7	1894.1	2040.6	2127.0
27.5°	1690.6	1597.1	1430.2	1302.1	1231.9	1244.1	1332.6	1447.5	1578.8	1677.4	1740.5
30°	1273.6	1231.9	1145.4	1101.7	1058.9	1048.8	1086.4	1130.1	1188.1	1200.3	1216.6
32.5°	937.9	931.8	936.9	922.6	914.5	913.5	902.3	912.5	918.6	925.7	911.4
35°	848.4	840.2	826.0	821.9	816.8	818.9	813.8	808.7	812.8	818.9	822.9
37.5°	802.6	790.4	770.0	762.9	762.9	766.0	757.8	755.8	762.9	782.3	792.4
40°	767.0	752.8	729.4	720.2	726.3	734.4	723.3	719.2	736.5	756.8	773.1
42.5°	733.4	722.2	699.9	689.7	694.8	710.0	693.8	690.7	713.1	735.5	754.8
45°	704.9	693.8	673.4	668.3	670.4	684.6	673.4	673.4	694.8	719.2	736.5
47.5°	682.6	668.3	655.1	651.0	653.1	661.2	659.2	659.2	679.5	704.9	722.2
50°	660.2	648.0	630.7	632.7	637.8	649.0	648.0	651.0	671.4	702.9	721.2
52.5°	650.0	631.7	612.4	614.4	629.7	642.9	638.8	641.9	665.3	724.3	750.7
55°	638.8	614.4	592.0	595.1	612.4	631.7	626.6	630.7	658.2	738.5	775.1
57.5°	617.5	589.0	564.6	566.6	592.0	612.4	604.2	609.3	641.9	723.3	761.9
58°	608.3	583.9	560.5	561.5	585.9	608.3	599.2	603.2	636.8	719.2	755.8
60°	569.7	555.4	535.1	536.1	559.5	578.8	573.7	577.8	610.3	689.7	717.2
62.5°	516.8	508.6	503.5	503.5	517.8	536.1	541.2	546.3	575.8	623.6	648.0
65°	459.8	459.8	460.8	460.8	470.0	493.4	496.4	509.6	537.1	560.5	578.8
67.5°	421.1	419.1	421.1	416.0	420.1	434.4	449.6	461.8	490.3	506.6	512.7
70°	371.3	370.3	371.3	364.2	369.3	381.5	391.6	412.0	441.5	453.7	456.7
72.5°	322.5	322.5	324.5	319.4	319.4	332.6	339.8	362.1	389.6	396.7	397.7
75°	271.6	274.7	274.7	267.5	269.6	277.7	286.9	305.2	330.6	335.7	335.7
77.5°	215.7	226.8	226.8	219.7	222.8	223.8	236.0	245.2	264.5	266.5	258.4
80°	156.7	167.8	177.0	170.9	176.0	169.9	177.0	183.1	202.4	193.3	180.1
82.5°	111.9	120.0	127.2	128.2	123.1	111.9	121.1	122.1	131.2	119.0	111.9
85°	62.1	69.2	78.3	74.3	66.1	59.0	62.1	64.1	63.1	60.0	55.9
87.5°	16.3	17.3	19.3	14.2	13.2	11.2	15.3	15.3	17.3	18.3	17.3
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°	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6
2.5°	3294.8	3339.6	3436.2	3509.5	3599.0	3707.8	3836.0	3965.2	4104.5	4148.3	4209.3
5°	2726.2	2838.1	2884.9	3018.1	3150.4	3348.7	3560.3	3805.5	4074.0	4203.2	4327.3
7.5°	2329.5	2389.5	2438.3	2536.0	2694.7	2935.7	3201.2	3507.4	3887.9	4076.1	4258.2
10°	2115.9	2122.0	2182.0	2303.0	2441.4	2654.0	2905.2	3248.0	3672.2	3901.1	4114.7
12.5°	1974.5	1948.0	2013.1	2139.2	2295.9	2492.2	2723.1	3049.7	3516.6	3751.6	4009.9
15°	1850.4	1808.6	1857.5	1986.7	2141.3	2372.2	2620.4	2966.3	3455.6	3729.2	4016.0
17.5°	1853.4	1738.5	1755.7	1864.6	2018.2	2253.2	2554.3	2963.2	3548.1	3863.5	4203.2
20°	2082.3	1898.2	1819.8	1840.2	1988.7	2245.0	2584.8	3105.6	3852.3	4312.1	4675.2
22.5°	2307.1	2196.2	2070.1	2028.4	2109.7	2378.3	2779.1	3442.3	4513.5	5206.2	5862.3
25°	2228.8	2323.4	2291.8	2232.8	2251.1	2473.9	2911.3	3719.0	5027.2	5807.4	6423.8
27.5°	1783.2	1955.1	1989.7	1988.7	1995.8	2178.9	2618.4	3532.9	5091.3	5922.3	6511.3
30°	1253.2	1268.5	1286.8	1322.4	1355.0	1518.7	2048.7	3101.6	5062.8	5974.2	6564.2
32.5°	904.3	924.7	950.1	998.9	1076.2	1284.8	1792.4	2964.2	5213.3	6188.9	6718.8
35°	827.0	850.4	874.8	930.8	1004.0	1197.3	1690.6	2907.3	5460.5	6536.8	6996.6
37.5°	802.6	829.0	850.4	891.1	950.1	1134.2	1598.1	2868.6	5713.8	6905.0	7368.9
40°	785.3	815.8	833.1	865.7	906.4	1076.2	1515.7	2838.1	5959.0	7241.7	7667.9
42.5°	770.0	801.6	824.0	847.4	880.9	1024.4	1442.4	2807.6	6171.6	7568.2	7966.0
45°	751.7	791.4	819.9	838.2	867.7	980.6	1386.5	2783.2	6413.7	7858.2	8267.1
47.5°	736.5	780.2	815.8	837.2	848.4	950.1	1341.7	2816.7	6704.6	8161.3	8546.8
50°	737.5	779.2	824.0	857.5	828.0	924.7	1314.3	2950.0	7083.0	8521.4	8767.6
52.5°	770.0	820.9	856.5	864.7	799.5	894.2	1300.0	3182.9	7530.6	8839.8	8990.3
55°	806.7	859.6	898.2	893.1	784.3	855.5	1297.0	3431.1	8020.9	9211.1	9280.2
57.5°	793.4	870.8	929.8	903.3	785.3	817.9	1283.8	3631.5	8430.9	9488.8	9567.1
58°	789.4	866.7	933.8	901.3	782.3	806.7	1280.7	3648.8	8487.8	9508.1	9607.8
60°	749.7	831.1	930.8	886.0	765.0	776.2	1247.1	3704.8	8472.6	9408.4	9632.2
62.5°	677.5	744.6	860.6	811.8	712.1	735.5	1171.9	3635.6	8059.6	8928.3	9275.2
65°	596.1	645.9	723.3	714.1	636.8	693.8	1069.1	3362.0	7232.5	8149.1	8514.3
67.5°	535.1	575.8	624.6	611.4	572.7	637.8	958.2	2899.1	6304.8	7213.2	7673.0
70°	473.0	504.5	529.0	519.8	507.6	582.9	859.6	2352.9	5415.8	6324.2	6769.7
72.5°	409.9	439.4	459.8	446.6	439.4	524.9	779.2	1825.9	4277.5	5217.4	5790.1
75°	342.8	372.3	386.5	371.3	367.2	462.8	660.2	1364.1	3209.4	4022.2	4516.5
77.5°	265.5	297.0	315.3	310.3	312.3	380.4	533.0	933.8	2294.9	2741.5	3262.3
80°	186.2	220.7	232.9	227.9	242.1	289.9	376.4	593.0	1582.8	1779.1	2146.4
82.5°	114.9	147.5	149.5	154.6	164.8	214.6	283.8	361.1	993.8	1027.4	1293.9
85°	58.0	70.2	75.3	83.4	92.6	131.2	161.7	223.8	639.8	484.2	723.3
87.5°	19.3	20.3	24.4	30.5	37.6	53.9	69.2	91.6	158.7	87.5	223.8
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: P453395

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6	3869.6
2.5°	4332.4	4418.9	4481.9	4539.9	4484.0	4478.9	4424.0	4335.5	4298.8	4298.8
5°	4587.7	4790.2	4953.9	5058.7	5014.0	4906.1	4728.1	4501.3	4379.2	4357.8
7.5°	4657.9	5057.7	5361.9	5469.7	5394.4	5156.4	4815.6	4433.1	4258.2	4219.5
10°	4615.2	5135.0	5581.6	5752.5	5647.7	5287.6	4822.7	4353.8	4138.1	4093.4
12.5°	4570.4	5145.2	5622.3	5869.5	5801.3	5393.4	4874.6	4301.9	4052.7	3988.6
15°	4603.0	5149.2	5572.4	5827.7	5871.5	5520.5	4960.0	4339.5	4035.4	3967.2
17.5°	4808.5	5226.6	5501.2	5707.7	5861.3	5693.5	5203.2	4519.6	4190.0	4105.6
20°	5237.7	5411.7	5541.9	5701.6	5948.8	6046.5	5700.6	5014.0	4624.4	4550.1
22.5°	6480.8	6449.3	6182.8	6179.7	6537.8	6929.4	6906.0	6019.0	5433.1	5372.0
25°	6946.7	6800.2	6414.7	6321.1	6478.8	7083.0	6995.5	6224.5	5683.3	5534.8
27.5°	6764.6	6401.5	6148.2	6126.8	6074.9	6645.6	6856.2	6307.9	5770.8	5626.3
30°	6753.4	6219.4	5857.2	5900.0	5949.8	6495.1	6933.5	6569.3	5994.6	5840.0
32.5°	6780.9	6244.8	5878.6	5886.7	6035.3	6517.4	7018.9	6854.1	6288.6	6133.9
35°	6891.8	6389.3	6014.9	5995.6	6227.5	6663.9	7164.4	7301.7	6690.4	6514.4
37.5°	7070.8	6677.1	6264.1	6259.1	6595.8	6928.4	7345.5	7753.4	7090.1	6900.9
40°	7334.3	7013.8	6707.7	6680.2	7096.2	7358.7	7580.4	8234.5	7555.0	7311.9
42.5°	7652.7	7417.7	7292.6	7401.4	7801.2	7841.9	7946.6	8679.1	7950.7	7667.9
45°	7947.7	7936.5	8110.4	8399.3	8632.3	8388.1	8329.1	8977.1	8257.9	7950.7
47.5°	8298.6	8601.7	9126.6	9549.8	9794.0	9023.9	8655.7	9171.4	8481.7	8198.9
50°	8654.6	9398.2	10236.4	10826.4	10878.3	9714.6	8880.5	9354.5	8685.2	8391.2
52.5°	9029.0	10034.0	11149.9	11835.5	11734.8	10315.8	9098.2	9478.6	8894.7	8636.3
55°	9354.5	10423.6	11660.6	12318.7	12171.2	10682.0	9333.1	9612.9	9193.8	8976.1
57.5°	9536.6	10456.2	11533.4	12108.2	11948.5	10610.8	9441.0	9712.6	9385.0	9214.1
58°	9563.0	10412.4	11420.5	11986.1	11823.3	10550.8	9440.0	9708.5	9397.2	9225.3
60°	9539.6	10128.6	11000.4	11503.9	11333.0	10174.4	9401.3	9632.2	9242.6	9097.1
62.5°	9323.0	9636.3	10275.1	10641.3	10592.5	9586.4	9242.6	9344.3	8771.6	8631.2
65°	9038.1	8964.9	9346.4	9605.8	9642.4	9146.0	9084.9	8721.8	8167.4	7969.0
67.5°	8692.3	8204.0	8203.0	8350.5	8411.5	8468.5	8756.4	8045.3	7296.6	7087.1
70°	8105.3	7031.1	6707.7	6881.6	6830.7	7311.9	8169.4	7095.2	6246.8	6001.7
72.5°	7029.1	5579.5	5061.8	5285.6	5157.4	5734.2	7148.1	5838.9	5165.5	4864.4
75°	5697.5	4173.7	3639.7	3845.2	3765.8	4349.7	5947.8	4240.9	3704.8	3589.8
77.5°	4424.0	3024.2	2714.0	2685.5	2744.5	3236.8	4362.9	2863.5	2442.4	2364.1
80°	2842.2	2164.7	2183.0	2146.4	2176.9	2040.6	2648.9	1827.0	1654.0	1591.0
82.5°	1870.7	1508.6	1798.5	1660.1	1576.7	1372.3	1737.4	1196.3	1015.2	980.6
85°	1274.6	1110.8	1011.1	773.1	910.4	1056.9	1303.1	643.9	510.7	462.8
87.5°	575.8	386.5	283.8	175.0	276.7	319.4	632.7	75.3	58.0	60.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)