

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: P452931

Luminaire Tested: **GALN-SA3D-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452931
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-SA3D-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 15818 lumens
Efficiency: N/A
Efficacy: 86.0 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): 184
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



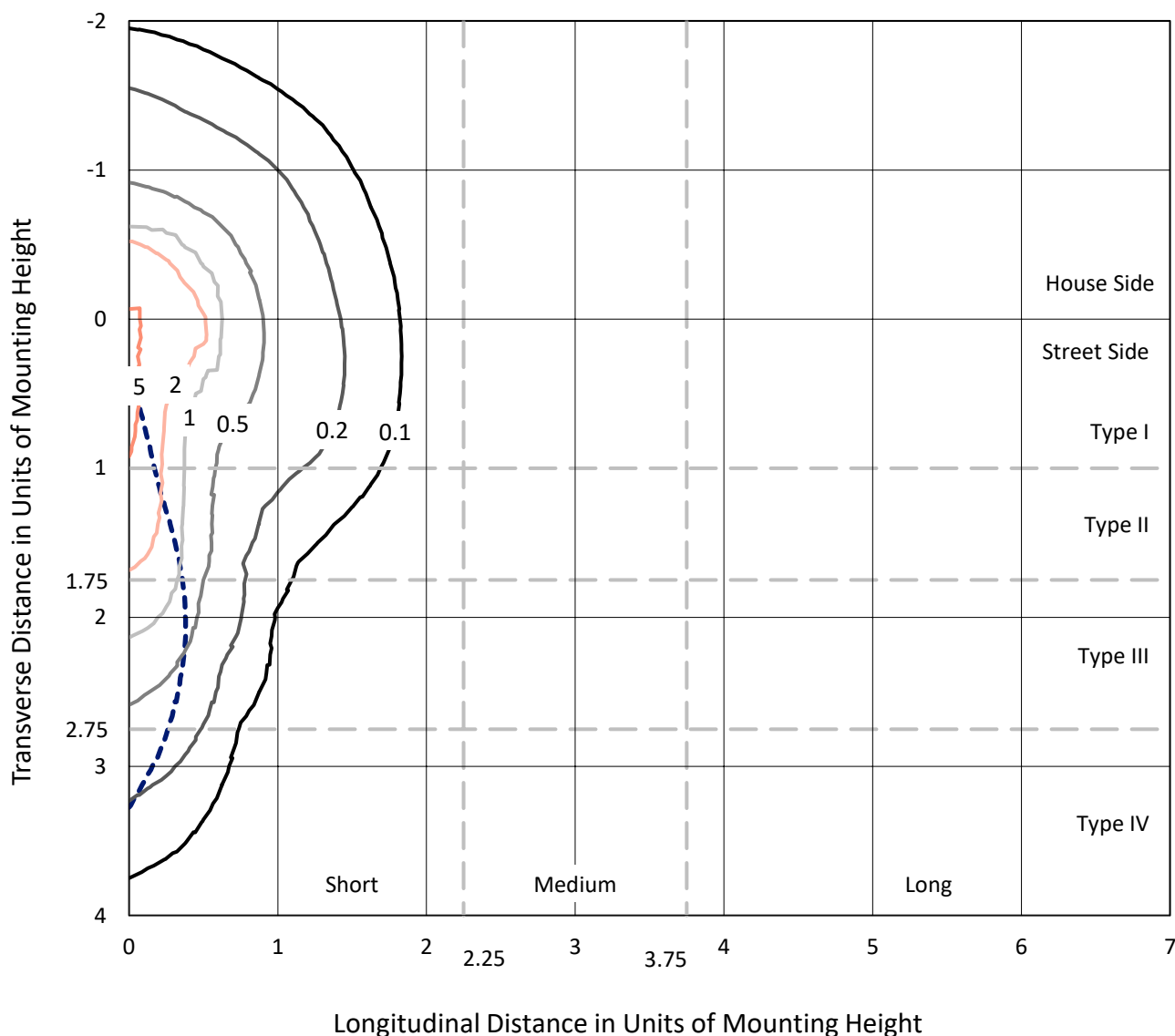
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



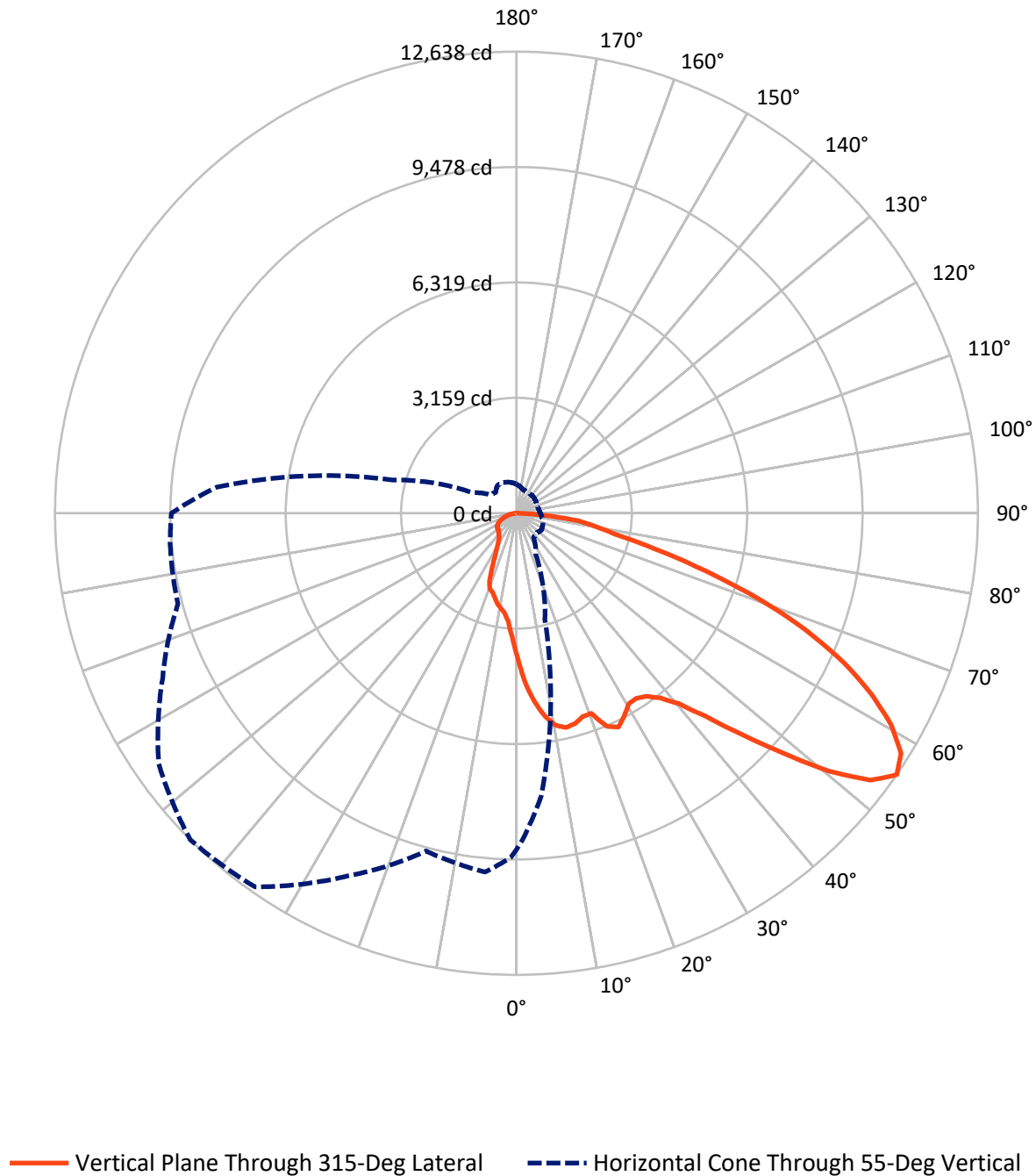
Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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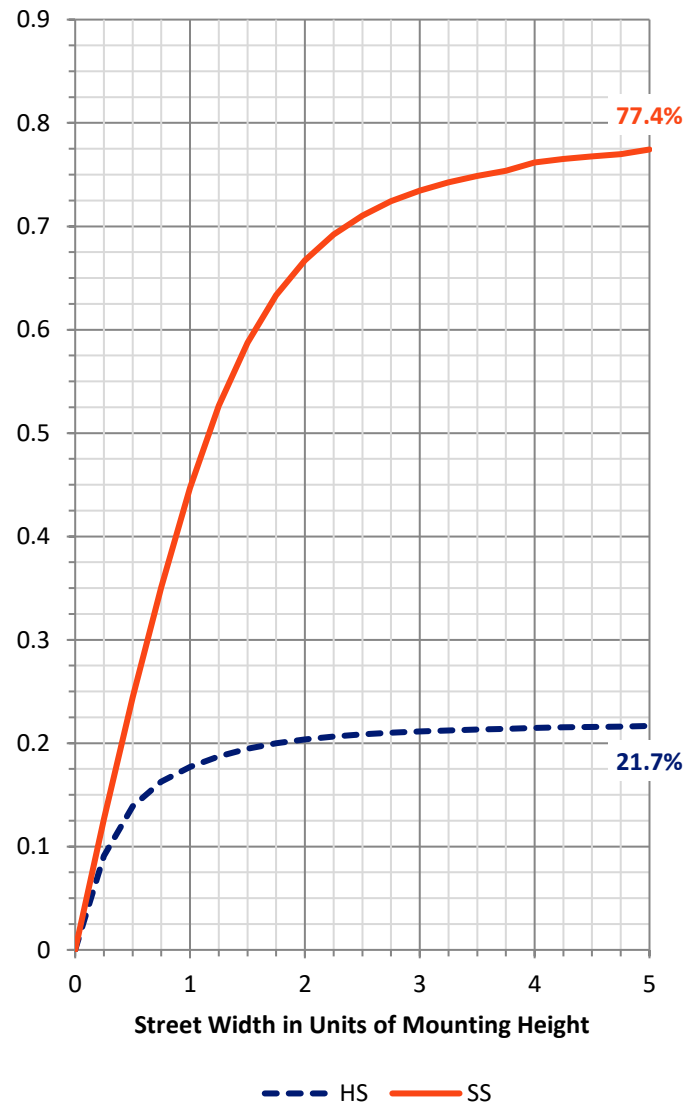
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3460.1	0.0	3460.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12357.9	0.0	12357.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	15818.0	0.0	15818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.4	2.1
10°-20°	892.6	5.6
20°-30°	1542.0	9.7
30°-40°	1792.0	11.3
40°-50°	2500.3	15.8
50°-60°	3392.6	21.4
60°-70°	3227.6	20.4
70°-80°	1743.7	11.0
80°-90°	390.8	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°	15818.0	100.0
0°-180°	15818.0	100.0

Coefficient of Utilization



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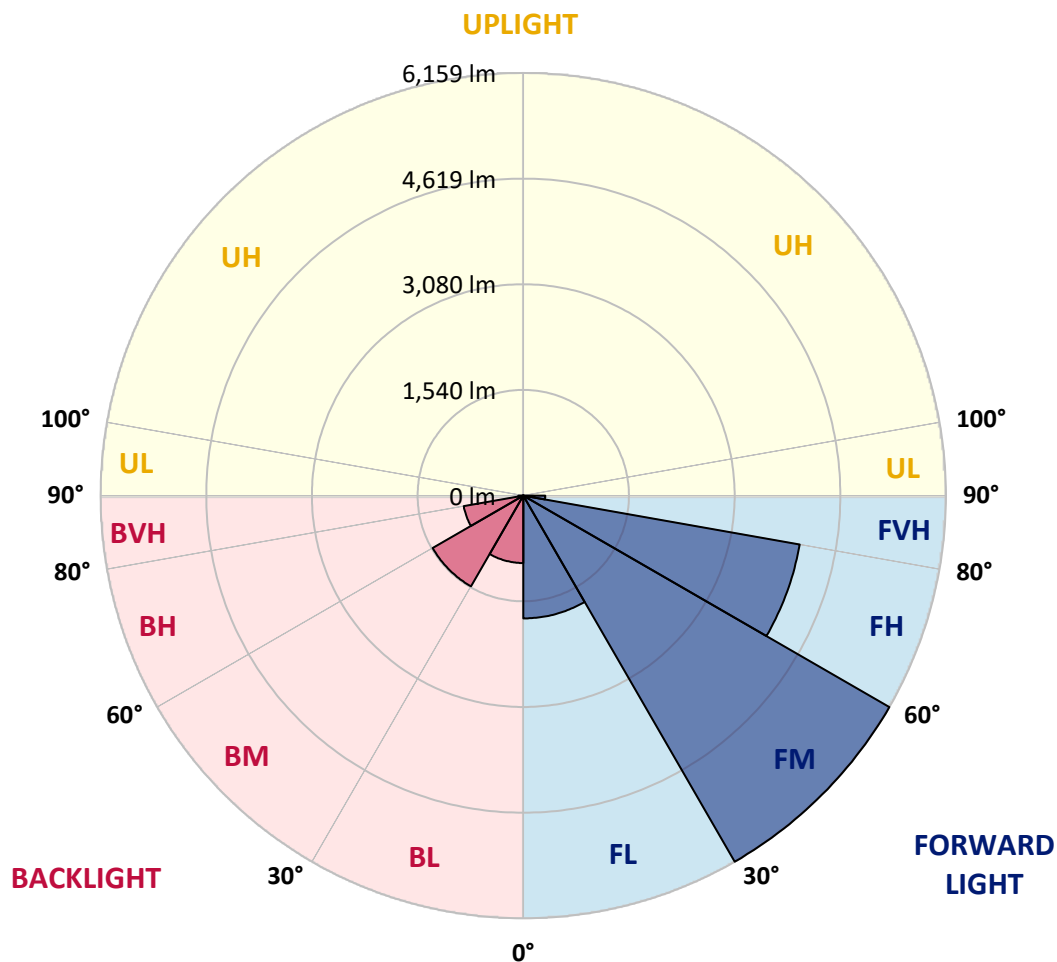
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1789.0	11.3			
FM	(30°-60°)	6159.2	38.9			
FH	(60°-80°)	4090.3	25.9			G2/5000
FVH	(80°-90°)	319.4	2.0			G3/500
BL	(0°-30°)	982.0	6.2	B2/1000		
BM	(30°-60°)	1525.7	9.6	B2/2500		
BH	(60°-80°)	881.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	71.4	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°	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7
2.5°	4410.1	4393.4	4346.4	4223.3	4099.1	3972.8	3875.8	3754.7	3628.5	3560.6	3474.0
5°	4470.6	4451.8	4341.2	4063.6	3812.1	3548.1	3337.3	3152.6	3077.5	2966.8	2878.1
7.5°	4328.7	4320.3	4154.4	3755.8	3411.4	3066.0	2827.0	2678.8	2544.2	2494.1	2504.5
10°	4199.3	4165.9	3958.2	3437.5	3035.7	2755.0	2583.9	2438.8	2343.8	2318.8	2324.0
12.5°	4091.8	4046.9	3801.7	3223.6	2871.9	2647.5	2429.4	2278.1	2191.5	2215.5	2296.9
15°	4069.9	4009.4	3735.9	3150.5	2782.1	2493.1	2254.1	2079.8	2015.1	2067.3	2197.7
17.5°	4211.8	4135.6	3848.6	3174.5	2696.6	2335.5	2042.2	1842.9	1788.7	1872.1	2042.2
20°	4667.8	4555.1	4200.3	3313.3	2688.2	2257.2	1919.1	1718.7	1741.7	1900.3	2077.7
22.5°	5511.0	5342.0	4816.0	3515.8	2732.0	2237.4	1894.1	1789.7	1916.0	2050.6	2167.5
25°	5678.0	5545.5	4926.6	3561.7	2722.6	2223.8	1965.0	2017.2	2158.1	2224.9	2184.2
27.5°	5771.9	5620.6	4919.3	3334.2	2434.6	2017.2	1878.4	1965.0	2000.5	1935.8	1825.2
30°	5991.1	5833.5	5043.5	3095.2	2004.7	1496.5	1311.8	1276.3	1300.3	1312.8	1273.1
32.5°	6292.7	6137.2	5277.3	2938.7	1733.4	1237.7	1056.1	1006.0	994.5	980.9	965.3
35°	6683.0	6444.0	5506.9	2838.5	1621.7	1144.8	977.8	939.2	923.6	904.8	888.1
37.5°	7079.5	6829.1	5797.0	2733.1	1547.6	1080.1	925.6	907.9	880.8	860.9	836.9
40°	7501.1	7220.4	6061.0	2641.2	1475.6	1038.3	888.1	886.0	850.5	827.5	799.4
42.5°	7866.4	7577.3	6296.8	2584.9	1420.3	994.5	865.1	871.4	834.8	800.4	763.9
45°	8156.5	7872.6	6514.9	2584.9	1375.4	950.7	860.9	856.8	820.2	777.5	735.7
47.5°	8411.1	8117.8	6727.8	2650.6	1347.2	914.2	838.0	845.3	807.7	753.4	712.8
50°	8608.3	8349.5	7014.8	2752.9	1319.1	884.9	808.8	848.4	797.3	740.9	694.0
52.5°	8859.8	8628.1	7360.2	2892.7	1295.1	852.6	782.7	848.4	796.2	742.0	690.8
55°	9208.4	8964.2	7776.6	3008.6	1256.4	822.3	759.7	824.4	793.1	736.8	682.5
57.5°	9452.6	9269.9	8070.9	3085.8	1201.1	783.7	738.8	801.5	779.5	716.9	657.4
58°	9464.0	9285.6	8113.7	3103.5	1187.6	776.4	733.6	791.0	773.3	708.6	649.1
60°	9332.6	9179.1	8122.0	3078.5	1110.3	739.9	706.5	748.2	739.9	659.5	604.2
62.5°	8854.6	8690.8	7785.0	2875.0	1008.1	695.0	664.7	690.8	672.1	590.7	539.5
65°	8175.2	7873.7	7092.0	2555.7	935.0	647.0	608.4	610.5	590.7	532.2	487.3
67.5°	7270.5	6933.4	6004.6	2153.9	879.7	593.8	541.6	536.4	512.4	474.8	438.3
70°	6157.0	5926.4	4879.7	1752.1	818.2	535.3	466.5	463.3	448.7	420.6	388.2
72.5°	4990.3	4697.1	3940.5	1402.5	743.0	479.0	396.6	402.8	384.0	364.2	335.0
75°	3682.7	3490.7	3046.2	1125.0	641.8	417.4	330.8	332.9	324.5	303.7	280.7
77.5°	2425.2	2367.8	2179.0	738.8	493.6	331.9	270.3	272.4	266.1	247.3	223.3
80°	1632.1	1593.5	1476.6	475.9	329.8	240.0	208.7	210.8	209.8	189.9	157.6
82.5°	1006.0	989.3	951.7	321.4	228.5	172.2	137.7	144.0	155.5	133.6	107.5
85°	474.8	475.9	575.0	175.3	134.6	110.6	75.1	80.4	80.4	80.4	60.5
87.5°	61.6	64.7	79.3	74.1	49.0	41.7	27.1	23.0	19.8	26.1	18.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7
2.5°	3443.7	3422.9	3378.0	3367.6	3361.3	3379.0	3332.1	3344.6	3323.7	3382.2	3372.8
5°	2883.4	2885.4	2922.0	2946.0	2954.3	2946.0	2914.7	2860.4	2818.7	2802.0	2806.1
7.5°	2484.7	2521.2	2583.9	2653.8	2717.4	2736.2	2718.5	2615.2	2502.5	2431.5	2408.5
10°	2352.2	2401.2	2473.2	2528.5	2584.9	2629.8	2639.2	2558.8	2425.2	2257.2	2191.5
12.5°	2359.5	2426.3	2495.2	2512.9	2507.7	2525.4	2517.1	2503.5	2415.8	2201.9	2092.3
15°	2290.6	2369.9	2417.9	2408.5	2391.8	2376.2	2354.3	2319.8	2288.5	2138.3	2017.2
17.5°	2132.0	2213.4	2253.0	2256.2	2256.2	2252.0	2198.8	2186.3	2182.1	2109.0	2034.9
20°	2161.2	2206.1	2188.3	2159.1	2167.5	2195.6	2164.3	2158.1	2182.1	2214.4	2200.9
22.5°	2177.9	2162.3	2028.7	1899.3	1870.1	1957.7	1975.5	2045.4	2142.4	2259.3	2335.5
25°	2074.6	1948.3	1709.4	1563.3	1480.8	1562.2	1668.7	1798.1	1943.1	2093.4	2182.1
27.5°	1734.4	1638.4	1467.2	1335.8	1263.8	1276.3	1367.1	1485.0	1619.6	1720.8	1785.5
30°	1306.5	1263.8	1175.0	1130.2	1086.3	1075.9	1114.5	1159.4	1218.9	1231.4	1248.1
32.5°	962.2	955.9	961.1	946.5	938.2	937.1	925.6	936.1	942.3	949.6	935.0
35°	870.3	862.0	847.4	843.2	838.0	840.1	834.8	829.6	833.8	840.1	844.2
37.5°	823.4	810.8	790.0	782.7	782.7	785.8	777.5	775.4	782.7	802.5	812.9
40°	786.8	772.2	748.2	738.8	745.1	753.4	742.0	737.8	755.5	776.4	793.1
42.5°	752.4	740.9	718.0	707.5	712.8	728.4	711.7	708.6	731.5	754.5	774.3
45°	723.2	711.7	690.8	685.6	687.7	702.3	690.8	690.8	712.8	737.8	755.5
47.5°	700.2	685.6	672.1	667.9	670.0	678.3	676.2	676.2	697.1	723.2	740.9
50°	677.3	664.7	647.0	649.1	654.3	665.8	664.7	667.9	688.7	721.1	739.9
52.5°	666.8	648.1	628.2	630.3	646.0	659.5	655.4	658.5	682.5	743.0	770.1
55°	655.4	630.3	607.4	610.5	628.2	648.1	642.8	647.0	675.2	757.6	795.2
57.5°	633.4	604.2	579.2	581.3	607.4	628.2	619.9	625.1	658.5	742.0	781.6
58°	624.0	599.0	575.0	576.0	601.1	624.0	614.7	618.8	653.3	737.8	775.4
60°	584.4	569.8	548.9	550.0	574.0	593.8	588.6	592.7	626.1	707.5	735.7
62.5°	530.1	521.8	516.6	516.6	531.2	550.0	555.2	560.4	590.7	639.7	664.7
65°	471.7	471.7	472.7	472.7	482.1	506.1	509.3	522.8	551.0	575.0	593.8
67.5°	432.0	429.9	432.0	426.8	431.0	445.6	461.3	473.8	503.0	519.7	526.0
70°	380.9	379.9	380.9	373.6	378.8	391.3	401.8	422.6	452.9	465.4	468.6
72.5°	330.8	330.8	332.9	327.7	327.7	341.2	348.5	371.5	399.7	407.0	408.0
75°	278.6	281.8	281.8	274.5	276.5	284.9	294.3	313.1	339.2	344.4	344.4
77.5°	221.2	232.7	232.7	225.4	228.5	229.6	242.1	251.5	271.3	273.4	265.1
80°	160.7	172.2	181.6	175.3	180.5	174.3	181.6	187.8	207.7	198.3	184.7
82.5°	114.8	123.1	130.4	131.5	126.3	114.8	124.2	125.2	134.6	122.1	114.8
85°	63.7	71.0	80.4	76.2	67.8	60.5	63.7	65.7	64.7	61.6	57.4
87.5°	16.7	17.7	19.8	14.6	13.6	11.5	15.7	15.7	17.7	18.8	17.7
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°	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7
2.5°	3380.1	3426.0	3525.1	3600.3	3692.1	3803.8	3935.3	4067.8	4210.8	4255.6	4318.2
5°	2796.7	2911.5	2959.5	3096.2	3231.9	3435.4	3652.5	3904.0	4179.5	4312.0	4439.3
7.5°	2389.8	2451.3	2501.4	2601.6	2764.4	3011.7	3284.1	3598.2	3988.5	4181.5	4368.3
10°	2170.6	2176.9	2238.4	2362.6	2504.5	2722.6	2980.4	3332.1	3767.2	4002.1	4221.2
12.5°	2025.5	1998.4	2065.2	2194.6	2355.3	2556.7	2793.6	3128.6	3607.6	3848.6	4113.7
15°	1898.2	1855.4	1905.5	2038.1	2196.7	2433.6	2688.2	3043.0	3545.0	3825.7	4120.0
17.5°	1901.4	1783.4	1801.2	1912.8	2070.4	2311.5	2620.4	3039.9	3639.9	3963.4	4312.0
20°	2136.2	1947.3	1866.9	1887.8	2040.2	2303.1	2651.7	3186.0	3952.0	4423.6	4796.2
22.5°	2366.8	2253.0	2123.6	2080.9	2164.3	2439.8	2851.0	3531.4	4630.3	5340.9	6014.0
25°	2286.4	2383.5	2351.1	2290.6	2309.4	2537.9	2986.7	3815.3	5157.3	5957.7	6590.1
27.5°	1829.4	2005.7	2041.2	2040.2	2047.5	2235.3	2686.1	3624.3	5223.0	6075.6	6679.8
30°	1285.7	1301.3	1320.1	1356.6	1390.0	1558.0	2101.7	3181.8	5193.8	6128.8	6734.1
32.5°	927.7	948.6	974.7	1024.8	1104.1	1318.0	1838.8	3040.9	5348.2	6349.0	6892.7
35°	848.4	872.4	897.5	954.9	1030.0	1228.3	1734.4	2982.5	5601.8	6705.9	7177.6
37.5°	823.4	850.5	872.4	914.2	974.7	1163.6	1639.4	2942.8	5861.7	7083.7	7559.5
40°	805.6	836.9	854.7	888.1	929.8	1104.1	1554.9	2911.5	6113.2	7429.1	7866.4
42.5°	790.0	822.3	845.3	869.3	903.7	1050.9	1479.8	2880.2	6331.3	7764.1	8172.1
45°	771.2	811.9	841.1	859.9	890.2	1006.0	1422.4	2855.2	6579.6	8061.5	8481.0
47.5°	755.5	800.4	836.9	858.8	870.3	974.7	1376.5	2889.6	6878.1	8372.5	8768.0
50°	756.6	799.4	845.3	879.7	849.5	948.6	1348.3	3026.3	7266.3	8741.9	8994.4
52.5°	790.0	842.2	878.7	887.0	820.2	917.3	1333.7	3265.3	7725.5	9068.5	9223.0
55°	827.5	881.8	921.5	916.2	804.6	877.6	1330.5	3519.9	8228.5	9449.4	9520.4
57.5°	814.0	893.3	953.8	926.7	805.6	839.0	1317.0	3725.5	8649.0	9734.3	9814.7
58°	809.8	889.1	958.0	924.6	802.5	827.5	1313.8	3743.2	8707.5	9754.2	9856.4
60°	769.1	852.6	954.9	908.9	784.8	796.2	1279.4	3800.6	8691.8	9651.9	9881.5
62.5°	695.0	763.9	882.9	832.8	730.5	754.5	1202.2	3729.7	8268.1	9159.3	9515.2
65°	611.5	662.7	742.0	732.6	653.3	711.7	1096.8	3449.0	7419.7	8360.0	8734.6
67.5°	548.9	590.7	640.7	627.2	587.5	654.3	983.0	2974.1	6468.0	7399.9	7871.6
70°	485.3	517.6	542.7	533.3	520.7	598.0	881.8	2413.8	5555.9	6487.8	6944.9
72.5°	420.6	450.8	471.7	458.1	450.8	538.5	799.4	1873.2	4388.2	5352.4	5939.9
75°	351.7	381.9	396.6	380.9	376.7	474.8	677.3	1399.4	3292.4	4126.2	4633.4
77.5°	272.4	304.7	323.5	318.3	320.4	390.3	546.8	958.0	2354.3	2812.4	3346.7
80°	191.0	226.5	239.0	233.8	248.4	297.4	386.1	608.4	1623.8	1825.2	2201.9
82.5°	117.9	151.3	153.4	158.6	169.1	220.2	291.2	370.5	1019.6	1054.0	1327.4
85°	59.5	72.0	77.2	85.6	95.0	134.6	165.9	229.6	656.4	496.7	742.0
87.5°	19.8	20.9	25.0	31.3	38.6	55.3	71.0	93.9	162.8	89.7	229.6
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: P452931

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7	3969.7
2.5°	4444.5	4533.2	4597.9	4657.4	4600.0	4594.8	4538.4	4447.7	4410.1	4410.1
5°	4706.5	4914.1	5082.1	5189.6	5143.7	5033.1	4850.5	4617.8	4492.5	4470.6
7.5°	4778.5	5188.6	5500.6	5611.2	5534.0	5289.8	4940.2	4547.8	4368.3	4328.7
10°	4734.6	5267.9	5726.0	5901.3	5793.8	5424.4	4947.5	4466.4	4245.2	4199.3
12.5°	4688.7	5278.3	5767.8	6021.3	5951.4	5533.0	5000.7	4413.2	4157.5	4091.8
15°	4722.1	5282.5	5716.6	5978.6	6023.4	5663.4	5088.4	4451.8	4139.8	4069.9
17.5°	4932.9	5361.8	5643.6	5855.4	6013.0	5840.8	5337.8	4636.5	4298.4	4211.8
20°	5373.3	5551.7	5685.3	5849.2	6102.7	6202.9	5848.1	5143.7	4744.0	4667.8
22.5°	6648.5	6616.2	6342.8	6339.6	6707.0	7108.7	7084.7	6174.7	5573.7	5511.0
25°	7126.5	6976.2	6580.7	6484.7	6646.4	7266.3	7176.6	6385.5	5830.4	5678.0
27.5°	6939.7	6567.1	6307.3	6285.4	6232.1	6817.6	7033.6	6471.1	5920.1	5771.9
30°	6928.2	6380.3	6008.8	6052.6	6103.8	6663.1	7112.9	6739.3	6149.7	5991.1
32.5°	6956.4	6406.4	6030.7	6039.1	6191.4	6686.1	7200.6	7031.5	6451.3	6292.7
35°	7070.1	6554.6	6170.6	6150.7	6388.7	6836.4	7349.8	7490.7	6863.5	6683.0
37.5°	7253.8	6849.9	6426.2	6421.0	6766.4	7107.7	7535.5	7954.0	7273.6	7079.5
40°	7524.1	7195.3	6881.2	6853.1	7279.9	7549.1	7776.6	8447.6	7750.5	7501.1
42.5°	7850.7	7609.6	7481.3	7592.9	8003.1	8044.8	8152.3	8903.6	8156.5	7866.4
45°	8153.3	8141.9	8320.3	8616.7	8855.6	8605.2	8544.7	9209.4	8471.6	8156.5
47.5°	8513.4	8824.3	9362.8	9796.9	10047.4	9257.4	8879.6	9408.7	8701.2	8411.1
50°	8878.6	9641.4	10501.3	11106.6	11159.8	9966.0	9110.3	9596.6	8909.9	8608.3
52.5°	9262.6	10293.7	11438.5	12141.8	12038.5	10582.7	9333.6	9723.9	9124.9	8859.8
55°	9596.6	10693.4	11962.3	12637.5	12486.2	10958.4	9574.7	9861.6	9431.7	9208.4
57.5°	9783.4	10726.7	11831.9	12421.5	12257.6	10885.4	9685.3	9963.9	9627.9	9452.6
58°	9810.5	10681.9	11716.0	12296.3	12129.3	10823.8	9684.2	9959.7	9640.4	9464.0
60°	9786.5	10390.7	11285.1	11801.6	11626.3	10437.7	9644.6	9881.5	9481.8	9332.6
62.5°	9564.2	9885.6	10541.0	10916.7	10866.6	9834.5	9481.8	9586.1	8998.6	8854.6
65°	9272.0	9196.9	9588.2	9854.3	9891.9	9382.6	9320.0	8947.5	8378.7	8175.2
67.5°	8917.2	8416.3	8415.3	8566.6	8629.2	8687.6	8983.0	8253.5	7485.5	7270.5
70°	8315.1	7213.1	6881.2	7059.7	7007.5	7501.1	8380.8	7278.8	6408.5	6157.0
72.5°	7211.0	5723.9	5192.8	5422.3	5290.8	5882.5	7333.1	5990.0	5299.2	4990.3
75°	5845.0	4281.7	3733.9	3944.7	3863.3	4462.3	6101.7	4350.6	3800.6	3682.7
77.5°	4538.4	3102.5	2784.2	2755.0	2815.5	3320.6	4475.8	2937.6	2505.6	2425.2
80°	2915.7	2220.7	2239.5	2201.9	2233.2	2093.4	2717.4	1874.2	1696.8	1632.1
82.5°	1919.1	1547.6	1845.0	1703.1	1617.5	1407.8	1782.4	1227.2	1041.5	1006.0
85°	1307.6	1139.6	1037.3	793.1	934.0	1084.3	1336.8	660.6	523.9	474.8
87.5°	590.7	396.6	291.2	179.5	283.8	327.7	649.1	77.2	59.5	61.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)