

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: P454091

Luminaire Tested: **GALN-SA5A-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454091
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-SA5A-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 15687 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 154
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



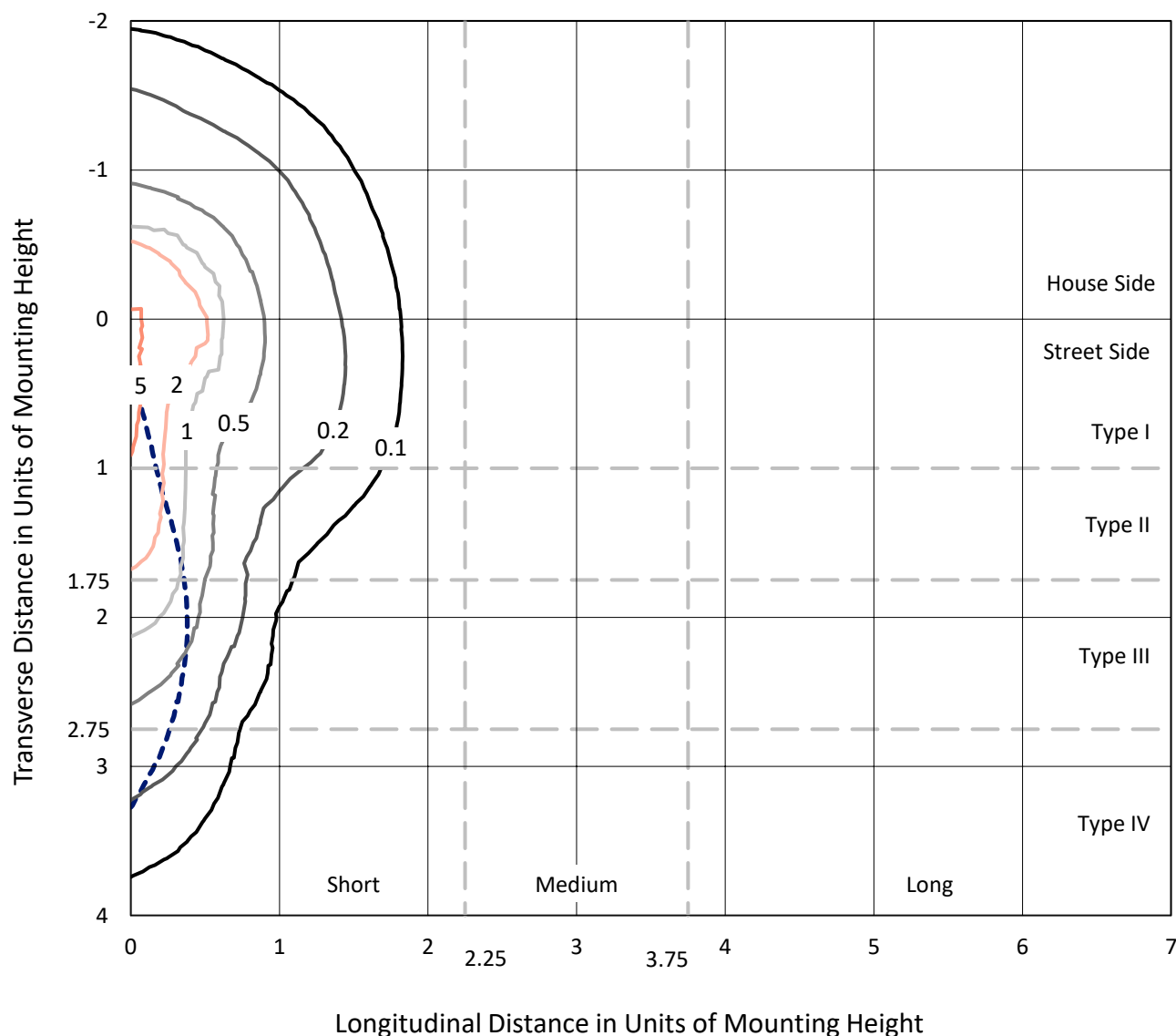
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



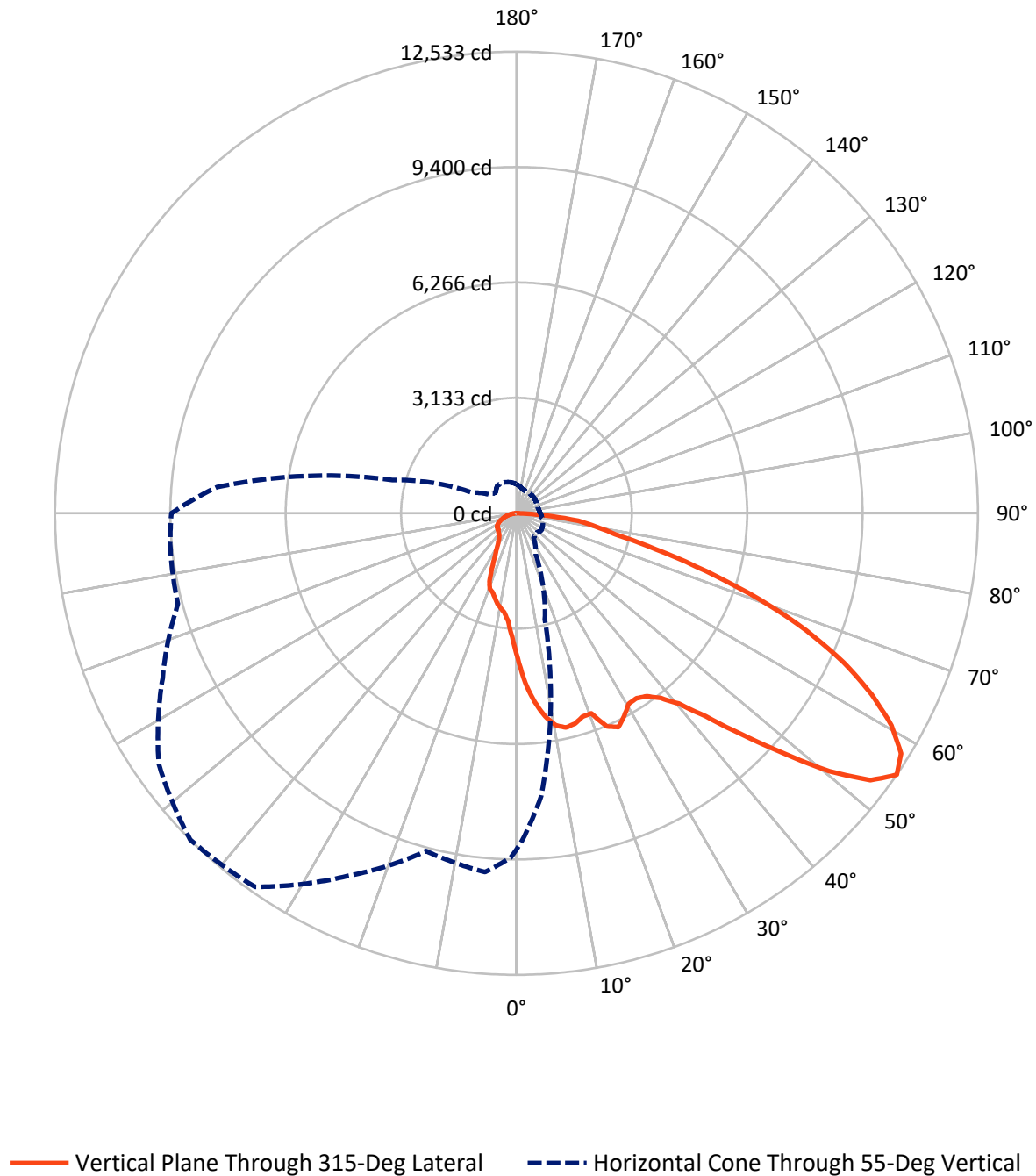
Based on 25 foot mounting height. Maximum calculated value = 6.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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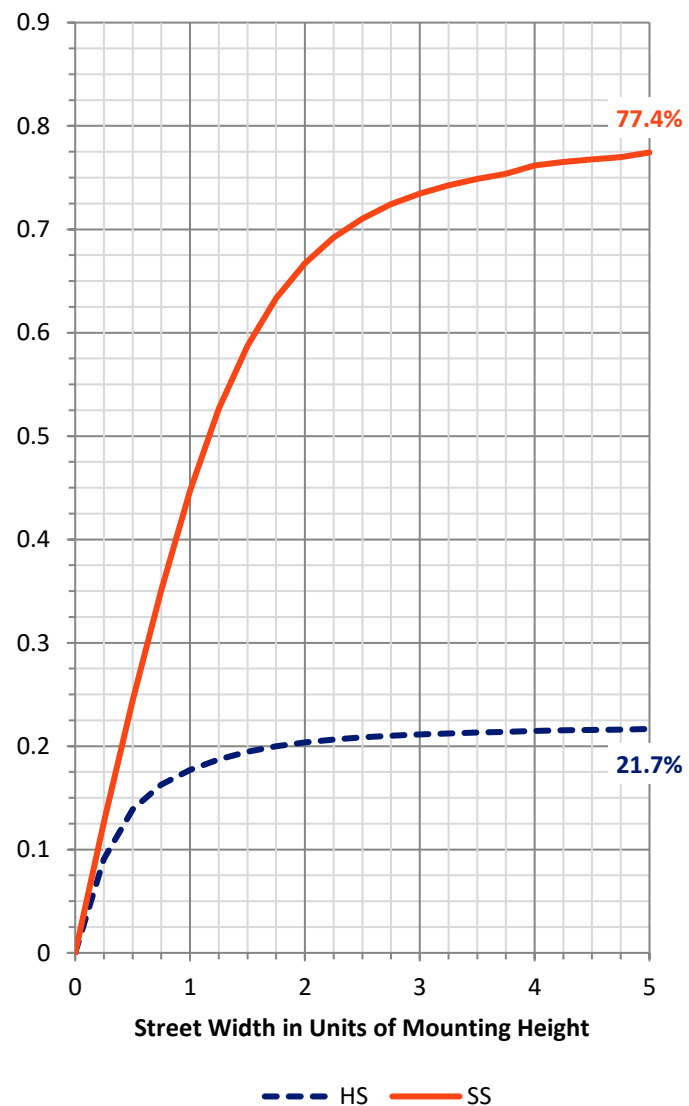
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.5	0.0	3431.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12255.5	0.0	12255.5
	% Fixture	78.1	0.0	78.1
Total	Lumens	15687.0	0.0	15687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	2.1
10°-20°	885.2	5.6
20°-30°	1529.2	9.7
30°-40°	1777.2	11.3
40°-50°	2479.5	15.8
50°-60°	3364.5	21.4
60°-70°	3200.9	20.4
70°-80°	1729.2	11.0
80°-90°	387.5	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°	15687.0	100.0
0°-180°	15687.0	100.0

Coefficient of Utilization



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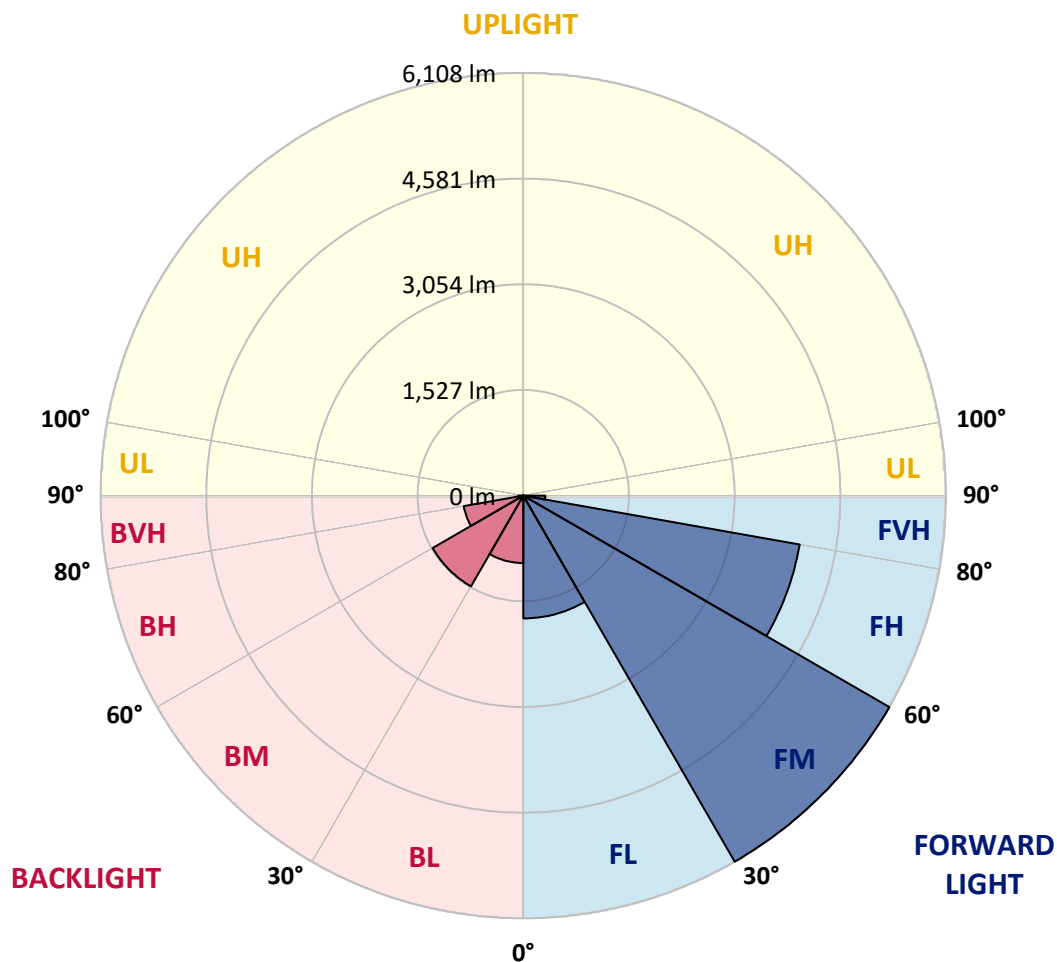
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1774.2	11.3			
FM	(30°-60°)	6108.2	38.9			
FH	(60°-80°)	4056.4	25.9			G2/5000
FVH	(80°-90°)	316.7	2.0			G3/500
BL	(0°-30°)	973.9	6.2	B2/1000		
BM	(30°-60°)	1513.0	9.6	B2/2500		
BH	(60°-80°)	873.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	70.8	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°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	4373.6	4357.0	4310.4	4188.3	4065.2	3939.9	3843.7	3723.6	3598.4	3531.1	3445.2
5°	4433.6	4415.0	4305.3	4030.0	3780.6	3518.7	3309.7	3126.5	3052.0	2942.3	2854.3
7.5°	4292.8	4284.6	4120.0	3724.7	3383.1	3040.6	2803.6	2656.6	2523.1	2473.5	2483.8
10°	4164.5	4131.4	3925.4	3409.0	3010.6	2732.2	2562.5	2418.6	2324.4	2299.6	2304.8
12.5°	4057.9	4013.4	3770.2	3196.9	2848.1	2625.6	2409.3	2259.2	2173.3	2197.1	2277.9
15°	4036.2	3976.2	3705.0	3124.4	2759.1	2472.4	2235.4	2062.6	1998.4	2050.2	2179.5
17.5°	4176.9	4101.4	3816.8	3148.2	2674.2	2316.1	2025.3	1827.7	1773.8	1856.6	2025.3
20°	4629.2	4517.4	4165.5	3285.9	2665.9	2238.5	1903.2	1704.5	1727.3	1884.6	2060.5
22.5°	5465.4	5297.7	4776.1	3486.6	2709.4	2218.9	1878.4	1774.9	1900.1	2033.6	2149.5
25°	5631.0	5499.5	4885.8	3532.2	2700.1	2205.4	1948.7	2000.5	2140.2	2206.4	2166.1
27.5°	5724.1	5574.1	4878.6	3306.6	2414.5	2000.5	1862.9	1948.7	1983.9	1919.8	1810.1
30°	5941.5	5785.2	5001.8	3069.6	1988.1	1484.1	1300.9	1265.7	1289.5	1301.9	1262.6
32.5°	6240.5	6086.3	5233.6	2914.3	1719.0	1227.4	1047.3	997.7	986.3	972.8	957.3
35°	6627.6	6390.6	5461.3	2815.0	1608.3	1135.3	969.7	931.4	915.9	897.3	880.7
37.5°	7020.9	6772.5	5749.0	2710.4	1534.8	1071.1	918.0	900.4	873.5	853.8	830.0
40°	7439.0	7160.6	6010.8	2619.4	1463.4	1029.7	880.7	878.6	843.5	820.7	792.7
42.5°	7801.2	7514.5	6244.7	2563.5	1408.5	986.3	857.9	864.2	827.9	793.8	757.6
45°	8088.9	7807.4	6461.0	2563.5	1364.0	942.8	853.8	849.7	813.4	771.0	729.6
47.5°	8341.4	8050.6	6672.1	2628.7	1336.1	906.6	831.0	838.3	801.0	747.2	706.8
50°	8537.0	8280.4	6956.7	2730.1	1308.1	877.6	802.1	841.4	790.7	734.8	688.2
52.5°	8786.4	8556.7	7299.3	2868.8	1284.3	845.5	776.2	841.4	789.6	735.8	685.1
55°	9132.1	8889.9	7712.2	2983.7	1246.0	815.5	753.4	817.6	786.5	730.7	676.8
57.5°	9374.3	9193.2	8004.0	3060.2	1191.2	777.2	732.7	794.8	773.1	711.0	652.0
58°	9385.7	9208.7	8046.5	3077.8	1177.7	770.0	727.5	784.5	766.9	702.7	643.7
60°	9255.3	9103.1	8054.8	3053.0	1101.2	733.8	700.6	742.0	733.8	654.1	599.2
62.5°	8781.3	8618.8	7720.5	2851.2	999.7	689.3	659.2	685.1	666.5	585.8	535.1
65°	8107.5	7808.4	7033.3	2534.5	927.3	641.6	603.4	605.4	585.8	527.8	483.3
67.5°	7210.3	6876.0	5954.9	2136.1	872.4	588.9	537.1	531.9	508.1	470.9	434.7
70°	6106.0	5877.3	4839.3	1737.6	811.4	530.9	462.6	459.5	445.0	417.1	385.0
72.5°	4949.0	4658.2	3907.8	1390.9	736.9	475.0	393.3	399.5	380.8	361.2	332.2
75°	3652.2	3461.8	3020.9	1115.6	636.5	414.0	328.1	330.1	321.9	301.2	278.4
77.5°	2405.1	2348.2	2160.9	732.7	489.5	329.1	268.0	270.1	263.9	245.3	221.5
80°	1618.6	1580.3	1464.4	471.9	327.0	238.0	207.0	209.1	208.0	188.4	156.3
82.5°	997.7	981.1	943.8	318.8	226.6	170.8	136.6	142.8	154.2	132.5	106.6
85°	470.9	471.9	570.2	173.9	133.5	109.7	74.5	79.7	79.7	79.7	60.0
87.5°	61.1	64.2	78.7	73.5	48.6	41.4	26.9	22.8	19.7	25.9	18.6
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°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	3415.2	3394.5	3350.0	3339.7	3333.5	3351.1	3304.5	3316.9	3296.2	3354.2	3344.9
5°	2859.5	2861.5	2897.8	2921.6	2929.8	2921.6	2890.5	2836.7	2795.3	2778.8	2782.9
7.5°	2464.1	2500.4	2562.5	2631.8	2694.9	2713.6	2696.0	2593.5	2481.7	2411.4	2388.6
10°	2332.7	2381.3	2452.8	2507.6	2563.5	2608.0	2617.3	2537.6	2405.1	2238.5	2173.3
12.5°	2339.9	2406.2	2474.5	2492.1	2486.9	2504.5	2496.2	2482.8	2395.8	2183.7	2075.0
15°	2271.6	2350.3	2397.9	2388.6	2372.0	2356.5	2334.8	2300.6	2269.6	2120.5	2000.5
17.5°	2114.3	2195.1	2234.4	2237.5	2237.5	2233.4	2180.6	2168.2	2164.0	2091.6	2018.1
20°	2143.3	2187.8	2170.2	2141.2	2149.5	2177.5	2146.4	2140.2	2164.0	2196.1	2182.6
22.5°	2159.9	2144.3	2011.9	1883.5	1854.6	1941.5	1959.1	2028.4	2124.7	2240.6	2316.1
25°	2057.4	1932.2	1695.2	1550.3	1468.5	1549.3	1654.8	1783.2	1927.0	2076.0	2164.0
27.5°	1720.0	1624.8	1455.1	1324.7	1253.3	1265.7	1355.7	1472.7	1606.2	1706.6	1770.7
30°	1295.7	1253.3	1165.3	1120.8	1077.3	1067.0	1105.3	1149.8	1208.8	1221.2	1237.8
32.5°	954.2	948.0	953.2	938.7	930.4	929.4	918.0	928.3	934.5	941.8	927.3
35°	863.1	854.8	840.4	836.2	831.0	833.1	827.9	822.8	826.9	833.1	837.2
37.5°	816.5	804.1	783.4	776.2	776.2	779.3	771.0	768.9	776.2	795.9	806.2
40°	780.3	765.8	742.0	732.7	738.9	747.2	735.8	731.7	749.3	770.0	786.5
42.5°	746.2	734.8	712.0	701.7	706.8	722.4	705.8	702.7	725.5	748.2	767.9
45°	717.2	705.8	685.1	679.9	682.0	696.5	685.1	685.1	706.8	731.7	749.3
47.5°	694.4	679.9	666.5	662.3	664.4	672.7	670.6	670.6	691.3	717.2	734.8
50°	671.7	659.2	641.6	643.7	648.9	660.3	659.2	662.3	683.0	715.1	733.8
52.5°	661.3	642.7	623.0	625.1	640.6	654.1	649.9	653.0	676.8	736.9	763.8
55°	649.9	625.1	602.3	605.4	623.0	642.7	637.5	641.6	669.6	751.3	788.6
57.5°	628.2	599.2	574.4	576.4	602.3	623.0	614.7	619.9	653.0	735.8	775.2
58°	618.9	594.0	570.2	571.3	596.1	618.9	609.6	613.7	647.9	731.7	768.9
60°	579.6	565.1	544.4	545.4	569.2	588.9	583.7	587.8	621.0	701.7	729.6
62.5°	525.7	517.5	512.3	512.3	526.8	545.4	550.6	555.8	585.8	634.4	659.2
65°	467.8	467.8	468.8	468.8	478.1	501.9	505.0	518.5	546.4	570.2	588.9
67.5°	428.5	426.4	428.5	423.3	427.4	441.9	457.4	469.9	498.8	515.4	521.6
70°	377.7	376.7	377.7	370.5	375.7	388.1	398.4	419.1	449.2	461.6	464.7
72.5°	328.1	328.1	330.1	325.0	325.0	338.4	345.7	368.4	396.4	403.6	404.7
75°	276.3	279.4	279.4	272.2	274.3	282.5	291.8	310.5	336.3	341.5	341.5
77.5°	219.4	230.8	230.8	223.5	226.6	227.7	240.1	249.4	269.1	271.1	262.9
80°	159.4	170.8	180.1	173.9	179.0	172.8	180.1	186.3	205.9	196.6	183.2
82.5°	113.8	122.1	129.4	130.4	125.2	113.8	123.2	124.2	133.5	121.1	113.8
85°	63.1	70.4	79.7	75.5	67.3	60.0	63.1	65.2	64.2	61.1	56.9
87.5°	16.6	17.6	19.7	14.5	13.5	11.4	15.5	15.5	17.6	18.6	17.6
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°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	3352.1	3397.6	3495.9	3570.5	3661.5	3772.3	3902.7	4034.1	4175.9	4220.4	4282.5
5°	2773.6	2887.4	2935.0	3070.6	3205.1	3406.9	3622.2	3871.6	4144.8	4276.3	4402.5
7.5°	2370.0	2431.0	2480.7	2580.0	2741.5	2986.8	3256.9	3568.4	3955.5	4146.9	4332.2
10°	2152.6	2158.8	2219.9	2343.1	2483.8	2700.1	2955.7	3304.5	3736.1	3968.9	4186.2
12.5°	2008.8	1981.9	2048.1	2176.4	2335.8	2535.5	2770.5	3102.7	3577.7	3816.8	4079.6
15°	1882.5	1840.1	1889.8	2021.2	2178.5	2413.4	2665.9	3017.8	3515.6	3794.0	4085.9
17.5°	1885.6	1768.7	1786.3	1897.0	2053.3	2292.3	2598.7	3014.7	3609.8	3930.6	4276.3
20°	2118.5	1931.2	1851.5	1872.2	2023.3	2284.1	2629.7	3159.6	3919.2	4387.0	4756.5
22.5°	2347.2	2234.4	2106.1	2063.6	2146.4	2419.6	2827.4	3502.2	4591.9	5296.7	5964.2
25°	2267.5	2363.8	2331.7	2271.6	2290.3	2516.9	2961.9	3783.7	5114.6	5908.3	6535.5
27.5°	1814.2	1989.1	2024.3	2023.3	2030.5	2216.8	2663.9	3594.3	5179.8	6025.3	6624.5
30°	1275.0	1290.5	1309.2	1345.4	1378.5	1545.1	2084.3	3155.5	5150.8	6078.1	6678.3
32.5°	920.0	940.7	966.6	1016.3	1094.9	1307.1	1823.5	3015.7	5303.9	6296.4	6835.6
35°	841.4	865.2	890.0	946.9	1021.5	1218.1	1720.0	2957.8	5555.4	6650.4	7118.2
37.5°	816.5	843.5	865.2	906.6	966.6	1153.9	1625.9	2918.5	5813.1	7025.0	7496.9
40°	799.0	830.0	847.6	880.7	922.1	1094.9	1542.0	2887.4	6062.5	7367.6	7801.2
42.5°	783.4	815.5	838.3	862.1	896.2	1042.2	1467.5	2856.4	6278.8	7699.8	8104.4
45°	764.8	805.2	834.1	852.8	882.8	997.7	1410.6	2831.5	6525.2	7994.7	8410.8
47.5°	749.3	793.8	830.0	851.7	863.1	966.6	1365.1	2865.7	6821.1	8303.1	8695.4
50°	750.3	792.7	838.3	872.4	842.4	940.7	1337.1	3001.3	7206.1	8669.5	8919.9
52.5°	783.4	835.2	871.4	879.7	813.4	909.7	1322.6	3238.3	7661.5	8993.4	9146.6
55°	820.7	874.5	913.8	908.7	797.9	870.4	1319.5	3490.8	8160.3	9371.2	9441.5
57.5°	807.2	885.9	945.9	919.0	799.0	832.1	1306.1	3694.7	8577.4	9653.7	9733.4
58°	803.1	881.7	950.1	916.9	795.9	820.7	1303.0	3712.2	8635.3	9673.4	9774.8
60°	762.7	845.5	946.9	901.4	778.3	789.6	1268.8	3769.2	8619.8	9571.9	9799.6
62.5°	689.3	757.6	875.5	825.9	724.4	748.2	1192.2	3698.8	8199.6	9083.5	9436.4
65°	606.5	657.2	735.8	726.5	647.9	705.8	1087.7	3420.4	7358.3	8290.7	8662.3
67.5°	544.4	585.8	635.4	622.0	582.7	648.9	974.9	2949.5	6414.4	7338.6	7806.4
70°	481.2	513.3	538.2	528.8	516.4	593.0	874.5	2393.8	5509.9	6434.1	6887.4
72.5°	417.1	447.1	467.8	454.3	447.1	534.0	792.7	1857.7	4351.8	5308.1	5890.7
75°	348.8	378.8	393.3	377.7	373.6	470.9	671.7	1387.8	3265.2	4092.1	4595.0
77.5°	270.1	302.2	320.8	315.6	317.7	387.1	542.3	950.1	2334.8	2789.1	3319.0
80°	189.4	224.6	237.0	231.8	246.3	295.0	382.9	603.4	1610.3	1810.1	2183.7
82.5°	116.9	150.1	152.1	157.3	167.7	218.4	288.7	367.4	1011.1	1045.3	1316.4
85°	59.0	71.4	76.6	84.9	94.2	133.5	164.6	227.7	651.0	492.6	735.8
87.5°	19.7	20.7	24.8	31.0	38.3	54.9	70.4	93.1	161.4	89.0	227.7
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: P454091

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8	3936.8
2.5°	4407.7	4495.7	4559.8	4618.8	4561.9	4556.7	4500.9	4410.8	4373.6	4373.6
5°	4667.5	4873.4	5040.0	5146.6	5101.1	4991.4	4810.3	4579.5	4455.3	4433.6
7.5°	4738.9	5145.6	5455.0	5564.7	5488.2	5246.0	4899.3	4510.2	4332.2	4292.8
10°	4695.4	5224.3	5678.6	5852.5	5745.9	5379.5	4906.5	4429.4	4210.0	4164.5
12.5°	4649.9	5234.6	5720.0	5971.5	5902.1	5487.1	4959.3	4376.7	4123.1	4057.9
15°	4683.0	5238.7	5669.3	5929.0	5973.5	5616.5	5046.3	4415.0	4105.5	4036.2
17.5°	4892.1	5317.4	5596.8	5806.9	5963.2	5792.4	5293.6	4598.1	4262.8	4176.9
20°	5328.8	5505.8	5638.2	5800.7	6052.2	6151.5	5799.7	5101.1	4704.7	4629.2
22.5°	6593.5	6561.4	6290.2	6287.1	6651.4	7049.9	7026.1	6123.6	5527.5	5465.4
25°	7067.4	6918.4	6526.2	6431.0	6591.4	7206.1	7117.1	6332.7	5782.1	5631.0
27.5°	6882.2	6512.7	6255.0	6233.3	6180.5	6761.1	6975.3	6417.5	5871.1	5724.1
30°	6870.8	6327.5	5959.1	6002.5	6053.2	6607.9	7054.0	6683.5	6098.8	5941.5
32.5°	6898.8	6353.4	5980.8	5989.1	6140.2	6630.7	7140.9	6973.3	6397.9	6240.5
35°	7011.6	6500.3	6119.5	6099.8	6335.8	6779.7	7288.9	7428.6	6806.6	6627.6
37.5°	7193.7	6793.2	6373.0	6367.8	6710.4	7048.8	7473.1	7888.1	7213.4	7020.9
40°	7461.8	7135.8	6824.2	6796.3	7219.6	7486.6	7712.2	8377.7	7686.3	7439.0
42.5°	7785.7	7546.6	7419.3	7530.1	7936.8	7978.2	8084.8	8829.9	8088.9	7801.2
45°	8085.8	8074.4	8251.4	8545.3	8782.3	8533.9	8473.9	9133.1	8401.5	8088.9
47.5°	8442.9	8751.3	9285.3	9715.8	9964.2	9180.7	8806.1	9330.8	8629.1	8341.4
50°	8805.1	9561.6	10414.4	11014.6	11067.4	9883.5	9034.8	9517.1	8836.1	8537.0
52.5°	9185.9	10208.4	11343.7	12041.3	11938.8	10495.1	9256.3	9643.4	9049.3	8786.4
55°	9517.1	10604.8	11863.3	12532.8	12382.8	10867.7	9495.4	9780.0	9353.6	9132.1
57.5°	9702.3	10637.9	11733.9	12318.6	12156.1	10795.2	9605.1	9881.4	9548.1	9374.3
58°	9729.3	10593.4	11619.0	12194.4	12028.8	10734.2	9604.0	9877.2	9560.6	9385.7
60°	9705.5	10304.7	11191.6	11703.9	11530.0	10351.2	9564.7	9799.6	9403.3	9255.3
62.5°	9485.0	9803.8	10453.7	10826.3	10776.6	9753.1	9403.3	9506.7	8924.1	8781.3
65°	9195.2	9120.7	9508.8	9772.7	9810.0	9304.9	9242.8	8873.4	8309.3	8107.5
67.5°	8843.4	8346.6	8345.6	8495.6	8557.7	8615.7	8908.6	8185.2	7423.5	7210.3
70°	8246.2	7153.3	6824.2	7001.2	6949.5	7439.0	8311.4	7218.5	6355.4	6106.0
72.5°	7151.3	5676.5	5149.7	5377.4	5247.0	5833.8	7272.4	5940.4	5255.3	4949.0
75°	5796.6	4246.3	3702.9	3912.0	3831.3	4425.3	6051.2	4314.6	3769.2	3652.2
77.5°	4500.9	3076.8	2761.2	2732.2	2792.2	3293.1	4438.8	2913.3	2484.8	2405.1
80°	2891.6	2202.3	2220.9	2183.7	2214.7	2076.0	2694.9	1858.7	1682.8	1618.6
82.5°	1903.2	1534.8	1829.7	1689.0	1604.1	1396.1	1767.6	1217.1	1032.8	997.7
85°	1296.8	1130.1	1028.7	786.5	926.3	1075.3	1325.7	655.1	519.5	470.9
87.5°	585.8	393.3	288.7	178.0	281.5	325.0	643.7	76.6	59.0	61.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)