

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: P453917

Luminaire Tested: **GALN-SA5A-727-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453917
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-727-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 16509 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

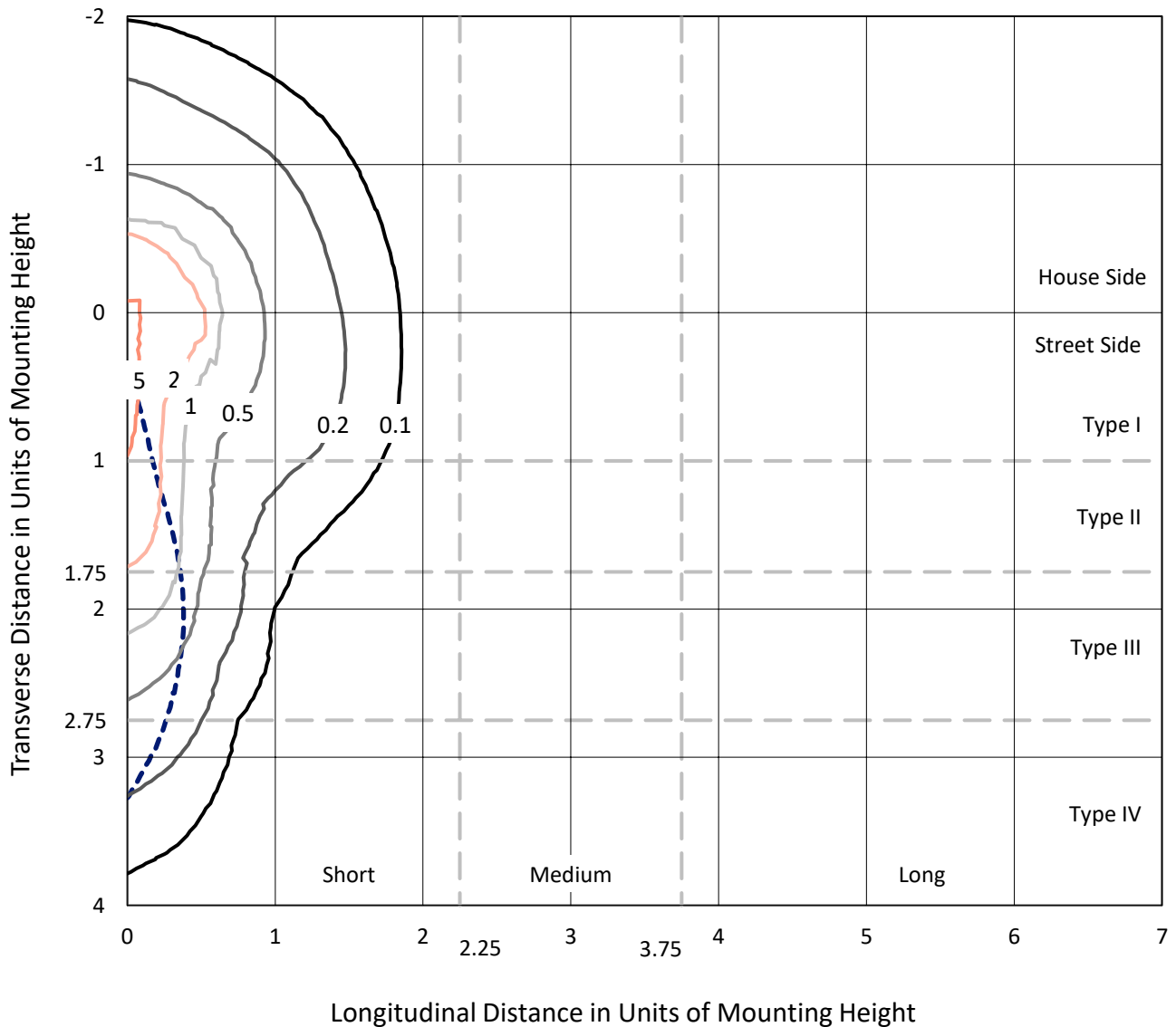
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

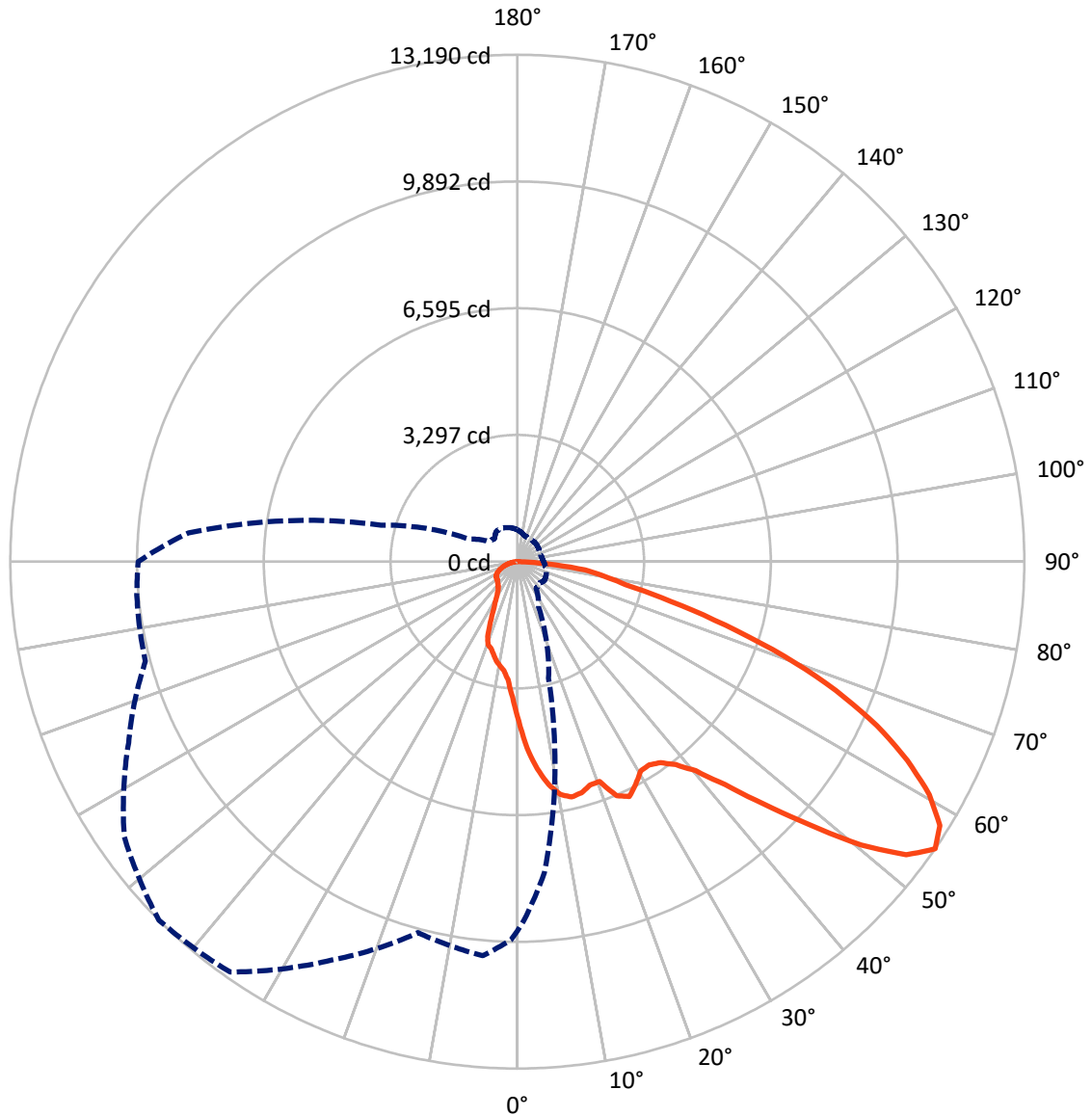
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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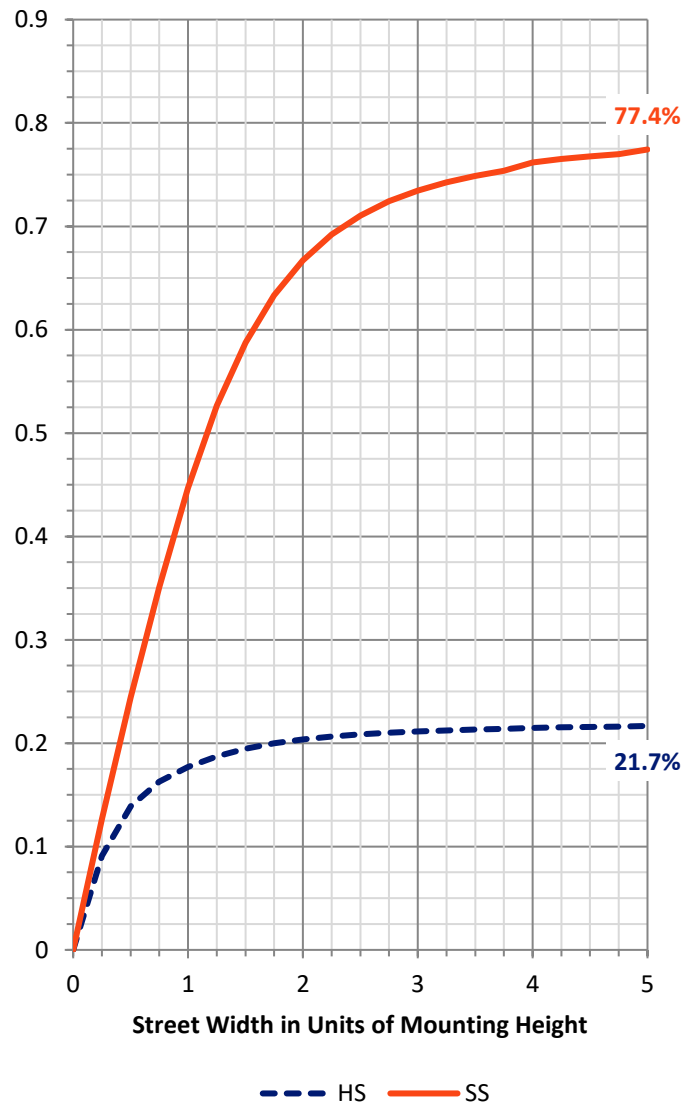
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3611.3	0.0	3611.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12897.7	0.0	12897.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	16509.0	0.0	16509.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	2.1
10°-20°	931.6	5.6
20°-30°	1609.4	9.7
30°-40°	1870.3	11.3
40°-50°	2609.5	15.8
50°-60°	3540.8	21.4
60°-70°	3368.6	20.4
70°-80°	1819.8	11.0
80°-90°	407.9	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°	16509.0	100.0
0°-180°	16509.0	100.0



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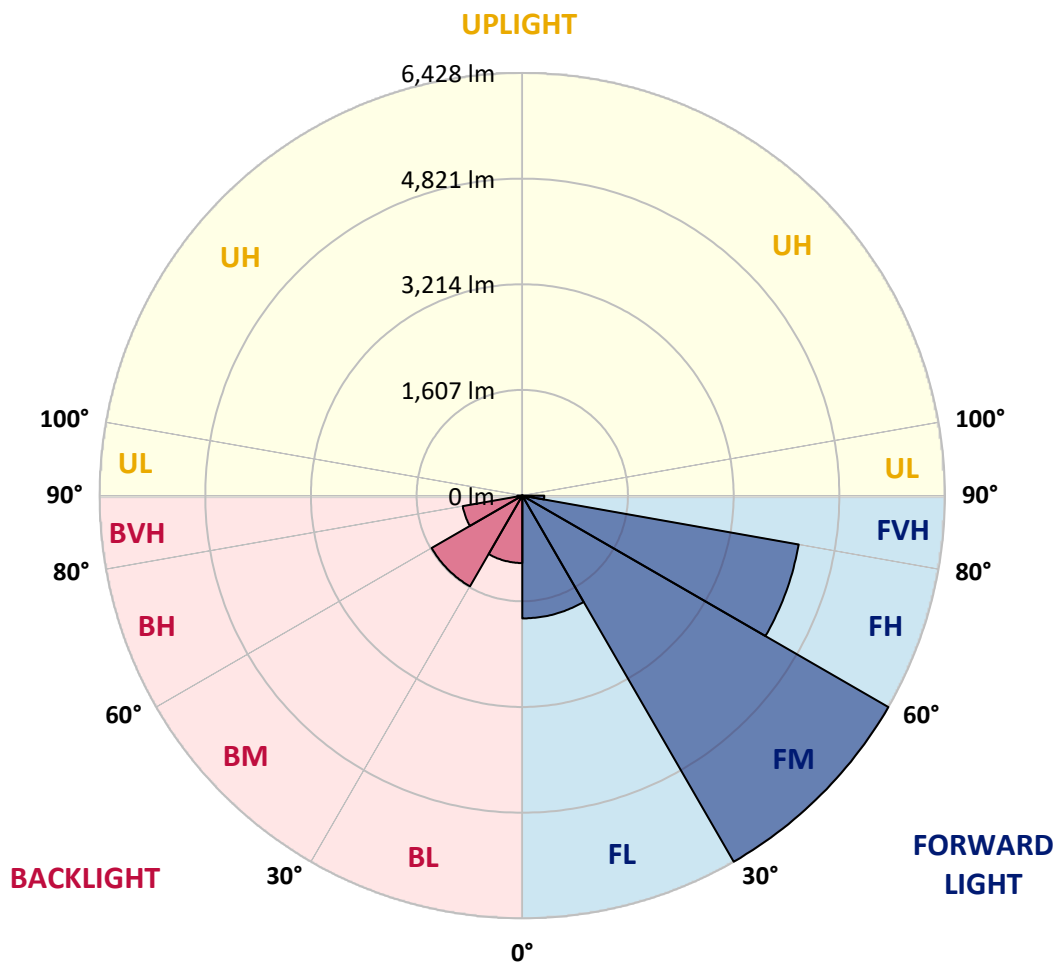
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1867.2	11.3			
FM	(30°-60°)	6428.3	38.9			
FH	(60°-80°)	4269.0	25.9			G2/5000
FVH	(80°-90°)	333.3	2.0			G3/500
BL	(0°-30°)	1024.9	6.2	B3/2500		
BM	(30°-60°)	1592.3	9.6	B2/2500		
BH	(60°-80°)	919.5	5.6	B2/1000		G2/1000
BVH	(80°-90°)	74.5	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°	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1
2.5°	4602.7	4585.3	4536.3	4407.8	4278.2	4146.4	4045.1	3918.7	3787.0	3716.2	3625.8
5°	4665.9	4646.3	4530.9	4241.1	3978.7	3703.1	3483.1	3290.3	3211.9	3096.4	3003.9
7.5°	4517.8	4509.1	4335.9	3919.8	3560.4	3199.9	2950.5	2795.8	2655.3	2603.1	2614.0
10°	4382.7	4347.9	4131.1	3587.6	3168.3	2875.3	2696.7	2545.3	2446.2	2420.1	2425.5
12.5°	4270.5	4223.7	3967.8	3364.4	2997.3	2763.2	2535.5	2377.6	2287.2	2312.3	2397.2
15°	4247.7	4184.5	3899.1	3288.1	2903.7	2602.0	2352.6	2170.7	2103.1	2157.6	2293.7
17.5°	4395.8	4316.3	4016.8	3313.2	2814.4	2437.5	2131.5	1923.4	1866.8	1953.9	2131.5
20°	4871.8	4754.1	4383.8	3458.0	2805.6	2355.8	2002.9	1793.8	1817.8	1983.3	2168.5
22.5°	5751.8	5575.3	5026.4	3669.3	2851.4	2335.1	1976.8	1867.9	1999.7	2140.2	2262.2
25°	5926.0	5787.7	5141.9	3717.3	2841.6	2321.0	2050.9	2105.3	2252.4	2322.1	2279.6
27.5°	6024.1	5866.1	5134.2	3479.8	2541.0	2105.3	1960.5	2050.9	2087.9	2020.4	1904.9
30°	6252.8	6088.3	5263.8	3230.4	2092.3	1561.8	1369.1	1332.0	1357.1	1370.1	1328.8
32.5°	6567.6	6405.3	5507.8	3067.0	1809.1	1291.7	1102.2	1049.9	1038.0	1023.8	1007.5
35°	6974.9	6725.5	5747.4	2962.5	1692.5	1194.8	1020.5	980.2	963.9	944.3	926.9
37.5°	7388.8	7127.4	6050.2	2852.5	1615.2	1127.3	966.1	947.6	919.2	898.5	873.5
40°	7828.8	7535.8	6325.8	2756.6	1540.1	1083.7	926.9	924.7	887.7	863.7	834.3
42.5°	8210.0	7908.3	6571.9	2697.8	1482.3	1038.0	902.9	909.4	871.3	835.4	797.3
45°	8512.8	8216.5	6799.5	2697.8	1435.5	992.2	898.5	894.2	856.1	811.4	767.8
47.5°	8778.5	8472.5	7021.7	2766.4	1406.1	954.1	874.6	882.2	843.0	786.4	743.9
50°	8984.4	8714.3	7321.2	2873.2	1376.7	923.6	844.1	885.5	832.1	773.3	724.3
52.5°	9246.9	9005.1	7681.8	3019.1	1351.6	889.8	816.9	885.5	831.0	774.4	721.0
55°	9610.6	9355.8	8116.3	3140.0	1311.3	858.2	792.9	860.4	827.8	768.9	712.3
57.5°	9865.5	9674.9	8423.5	3220.6	1253.6	817.9	771.1	836.5	813.6	748.2	686.2
58°	9877.5	9691.2	8468.1	3239.1	1239.4	810.3	765.7	825.6	807.1	739.5	677.4
60°	9740.2	9580.1	8476.8	3213.0	1158.9	772.2	737.4	780.9	772.2	688.3	630.6
62.5°	9241.4	9070.4	8125.0	3000.6	1052.1	725.4	693.8	721.0	701.4	616.5	563.1
65°	8532.4	8217.6	7401.8	2667.3	975.9	675.3	635.0	637.2	616.5	555.5	508.6
67.5°	7588.1	7236.3	6267.0	2248.0	918.2	619.7	565.3	559.8	534.8	495.6	457.4
70°	6426.0	6185.3	5092.9	1828.7	853.9	558.7	486.8	483.6	468.3	438.9	405.2
72.5°	5208.3	4902.2	4112.6	1463.8	775.5	499.9	413.9	420.4	400.8	380.1	349.6
75°	3843.6	3643.2	3179.2	1174.1	669.8	435.7	345.3	347.4	338.7	316.9	293.0
77.5°	2531.2	2471.3	2274.1	771.1	515.2	346.3	282.1	284.3	277.7	258.1	233.1
80°	1703.4	1663.1	1541.1	496.7	344.2	250.5	217.8	220.0	218.9	198.2	164.5
82.5°	1049.9	1032.5	993.3	335.5	238.5	179.7	143.8	150.3	162.3	139.4	112.2
85°	495.6	496.7	600.1	183.0	140.5	115.4	78.4	83.9	83.9	83.9	63.2
87.5°	64.3	67.5	82.8	77.3	51.2	43.6	28.3	24.0	20.7	27.2	19.6
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°	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1
2.5°	3594.2	3572.4	3525.6	3514.7	3508.1	3526.7	3477.6	3490.7	3468.9	3529.9	3520.1
5°	3009.3	3011.5	3049.6	3074.7	3083.4	3074.7	3042.0	2985.4	2941.8	2924.4	2928.7
7.5°	2593.3	2631.4	2696.7	2769.7	2836.1	2855.7	2837.2	2729.4	2611.8	2537.7	2513.8
10°	2454.9	2506.1	2581.3	2639.0	2697.8	2744.6	2754.5	2670.6	2531.2	2355.8	2287.2
12.5°	2462.6	2532.3	2604.1	2622.7	2617.2	2635.7	2627.0	2612.9	2521.4	2298.1	2183.7
15°	2390.7	2473.5	2523.6	2513.8	2496.3	2480.0	2457.1	2421.2	2388.5	2231.7	2105.3
17.5°	2225.1	2310.1	2351.5	2354.7	2354.7	2350.4	2294.8	2281.8	2277.4	2201.2	2123.8
20°	2255.6	2302.5	2283.9	2253.4	2262.2	2291.6	2258.9	2252.4	2277.4	2311.2	2297.0
22.5°	2273.0	2256.7	2117.3	1982.2	1951.8	2043.2	2061.8	2134.7	2236.0	2358.0	2437.5
25°	2165.2	2033.4	1784.0	1631.5	1545.5	1630.5	1741.5	1876.6	2028.0	2184.8	2277.4
27.5°	1810.2	1710.0	1531.3	1394.1	1319.0	1332.0	1426.8	1549.9	1690.4	1796.0	1863.5
30°	1363.6	1319.0	1226.4	1179.5	1133.8	1122.9	1163.2	1210.0	1272.1	1285.2	1302.6
32.5°	1004.2	997.7	1003.1	987.9	979.1	978.1	966.1	977.0	983.5	991.1	975.9
35°	908.3	899.6	884.4	880.0	874.6	876.8	871.3	865.9	870.2	876.8	881.1
37.5°	859.3	846.3	824.5	816.9	816.9	820.1	811.4	809.2	816.9	837.6	848.4
40°	821.2	806.0	780.9	771.1	777.7	786.4	774.4	770.0	788.5	810.3	827.8
42.5°	785.3	773.3	749.3	738.4	743.9	760.2	742.8	739.5	763.5	787.5	808.1
45°	754.8	742.8	721.0	715.6	717.7	733.0	721.0	721.0	743.9	770.0	788.5
47.5°	730.8	715.6	701.4	697.1	699.2	707.9	705.8	705.8	727.6	754.8	773.3
50°	706.9	693.8	675.3	677.4	682.9	694.9	693.8	697.1	718.8	752.6	772.2
52.5°	696.0	676.4	655.7	657.8	674.2	688.3	684.0	687.3	712.3	775.5	803.8
55°	684.0	657.8	633.9	637.2	655.7	676.4	670.9	675.3	704.7	790.7	829.9
57.5°	661.1	630.6	604.5	606.7	633.9	655.7	647.0	652.4	687.3	774.4	815.8
58°	651.3	625.2	600.1	601.2	627.3	651.3	641.5	645.9	681.8	770.0	809.2
60°	609.9	594.7	572.9	574.0	599.0	619.7	614.3	618.6	653.5	738.4	767.8
62.5°	553.3	544.6	539.1	539.1	554.4	574.0	579.4	584.9	616.5	667.6	693.8
65°	492.3	492.3	493.4	493.4	503.2	528.2	531.5	545.7	575.1	600.1	619.7
67.5°	450.9	448.7	450.9	445.5	449.8	465.1	481.4	494.5	525.0	542.4	548.9
70°	397.5	396.4	397.5	389.9	395.4	408.4	419.3	441.1	472.7	485.8	489.0
72.5°	345.3	345.3	347.4	342.0	342.0	356.2	363.8	387.7	417.1	424.8	425.9
75°	290.8	294.1	294.1	286.4	288.6	297.3	307.1	326.7	354.0	359.4	359.4
77.5°	230.9	242.9	242.9	235.3	238.5	239.6	252.7	262.5	283.2	285.4	276.6
80°	167.7	179.7	189.5	183.0	188.4	181.9	189.5	196.0	216.7	206.9	192.8
82.5°	119.8	128.5	136.1	137.2	131.8	119.8	129.6	130.7	140.5	127.4	119.8
85°	66.4	74.1	83.9	79.5	70.8	63.2	66.4	68.6	67.5	64.3	59.9
87.5°	17.4	18.5	20.7	15.2	14.2	12.0	16.3	16.3	18.5	19.6	18.5
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°	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1
2.5°	3527.7	3575.7	3679.1	3757.6	3853.4	3969.9	4107.2	4245.5	4394.7	4441.5	4506.9
5°	2918.9	3038.7	3088.8	3231.5	3373.1	3585.5	3812.0	4074.5	4362.0	4500.4	4633.2
7.5°	2494.1	2558.4	2610.7	2715.2	2885.1	3143.3	3427.5	3755.4	4162.7	4364.2	4559.2
10°	2265.4	2272.0	2336.2	2465.8	2614.0	2841.6	3110.6	3477.6	3931.8	4176.9	4405.6
12.5°	2114.0	2085.7	2155.4	2290.5	2458.2	2668.4	2915.6	3265.3	3765.2	4016.8	4293.4
15°	1981.2	1936.5	1988.8	2127.1	2292.7	2539.9	2805.6	3176.0	3699.8	3992.8	4300.0
17.5°	1984.4	1861.4	1879.9	1996.4	2160.9	2412.5	2734.8	3172.7	3798.9	4136.6	4500.4
20°	2229.5	2032.3	1948.5	1970.3	2129.3	2403.7	2767.5	3325.2	4124.6	4616.9	5005.7
22.5°	2470.2	2351.5	2216.4	2171.8	2258.9	2546.4	2975.5	3685.7	4832.5	5574.3	6276.8
25°	2386.3	2487.6	2453.8	2390.7	2410.3	2648.8	3117.1	3981.9	5382.6	6217.9	6878.0
27.5°	1909.3	2093.3	2130.4	2129.3	2136.9	2333.0	2803.5	3782.6	5451.2	6341.0	6971.6
30°	1341.8	1358.2	1377.8	1415.9	1450.7	1626.1	2193.5	3320.8	5420.7	6396.6	7028.3
32.5°	968.3	990.0	1017.3	1069.5	1152.3	1375.6	1919.1	3173.8	5581.9	6626.4	7193.8
35°	885.5	910.5	936.7	996.6	1075.0	1281.9	1810.2	3112.8	5846.5	6998.9	7491.2
37.5°	859.3	887.7	910.5	954.1	1017.3	1214.4	1711.0	3071.4	6117.7	7393.1	7889.8
40°	840.8	873.5	892.0	926.9	970.4	1152.3	1622.8	3038.7	6380.2	7753.6	8210.0
42.5°	824.5	858.2	882.2	907.3	943.2	1096.8	1544.4	3006.0	6607.9	8103.3	8529.1
45°	804.9	847.4	877.9	897.5	929.0	1049.9	1484.5	2979.9	6867.1	8413.7	8851.5
47.5°	788.5	835.4	873.5	896.4	908.3	1017.3	1436.6	3015.8	7178.6	8738.2	9151.0
50°	789.6	834.3	882.2	918.2	886.6	990.0	1407.2	3158.5	7583.7	9123.8	9387.4
52.5°	824.5	878.9	917.1	925.8	856.1	957.4	1391.9	3407.9	8063.0	9464.7	9625.9
55°	863.7	920.3	961.7	956.3	839.7	916.0	1388.7	3673.7	8587.9	9862.2	9936.3
57.5°	849.5	932.3	995.5	967.2	840.8	875.7	1374.5	3888.3	9026.8	10159.6	10243.4
58°	845.2	928.0	999.8	965.0	837.6	863.7	1371.2	3906.8	9087.8	10180.3	10287.0
60°	802.7	889.8	996.6	948.6	819.0	831.0	1335.3	3966.7	9071.5	10073.5	10313.1
62.5°	725.4	797.3	921.4	869.1	762.4	787.5	1254.7	3892.6	8629.3	9559.4	9930.8
65°	638.2	691.6	774.4	764.6	681.8	742.8	1144.7	3599.6	7743.8	8725.2	9116.2
67.5°	572.9	616.5	668.7	654.6	613.2	682.9	1026.0	3104.1	6750.5	7723.1	8215.4
70°	506.5	540.2	566.4	556.6	543.5	624.1	920.3	2519.2	5798.6	6771.2	7248.3
72.5°	438.9	470.5	492.3	478.1	470.5	562.0	834.3	1955.0	4579.9	5586.2	6199.4
75°	367.0	398.6	413.9	397.5	393.2	495.6	706.9	1460.5	3436.3	4306.5	4835.8
77.5°	284.3	318.0	337.6	332.2	334.4	407.3	570.7	999.8	2457.1	2935.3	3492.9
80°	199.3	236.3	249.4	244.0	259.2	310.4	403.0	635.0	1694.7	1904.9	2298.1
82.5°	123.1	157.9	160.1	165.6	176.4	229.8	303.9	386.6	1064.1	1100.0	1385.4
85°	62.1	75.2	80.6	89.3	99.1	140.5	173.2	239.6	685.1	518.4	774.4
87.5°	20.7	21.8	26.1	32.7	40.3	57.7	74.1	98.0	169.9	93.7	239.6
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: P453917

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1	4143.1
2.5°	4638.7	4731.3	4798.8	4860.9	4801.0	4795.5	4736.7	4641.9	4602.7	4602.7
5°	4912.1	5128.8	5304.1	5416.3	5368.4	5253.0	5062.4	4819.5	4688.8	4665.9
7.5°	4987.2	5415.2	5740.9	5856.3	5775.7	5520.9	5156.0	4746.5	4559.2	4517.8
10°	4941.5	5498.0	5976.1	6159.1	6046.9	5661.4	5163.6	4661.5	4430.6	4382.7
12.5°	4893.5	5508.9	6019.7	6284.4	6211.4	5774.7	5219.2	4606.0	4339.2	4270.5
15°	4928.4	5513.3	5966.3	6239.7	6286.6	5910.8	5310.7	4646.3	4320.6	4247.7
17.5°	5148.4	5596.0	5890.1	6111.2	6275.7	6096.0	5571.0	4839.1	4486.2	4395.8
20°	5608.0	5794.3	5933.7	6104.7	6369.3	6473.9	6103.6	5368.4	4951.3	4871.8
22.5°	6939.0	6905.2	6619.8	6616.6	6999.9	7419.3	7394.2	6444.5	5817.1	5751.8
25°	7437.8	7280.9	6868.2	6768.0	6936.8	7583.7	7490.1	6664.5	6085.1	5926.0
27.5°	7242.8	6854.0	6582.8	6559.9	6504.4	7115.4	7340.8	6753.8	6178.7	6024.1
30°	7230.8	6659.0	6271.3	6317.1	6370.4	6954.2	7423.6	7033.7	6418.3	6252.8
32.5°	7260.3	6686.3	6294.2	6302.9	6461.9	6978.2	7515.1	7338.7	6733.1	6567.6
35°	7379.0	6840.9	6440.1	6419.4	6667.8	7135.0	7670.9	7817.9	7163.3	6974.9
37.5°	7570.7	7149.2	6707.0	6701.5	7062.0	7418.2	7864.7	8301.5	7591.4	7388.8
40°	7852.7	7509.7	7181.8	7152.4	7597.9	7878.9	8116.3	8816.6	8089.1	7828.8
42.5°	8193.7	7942.1	7808.1	7924.6	8352.7	8396.2	8508.4	9292.6	8512.8	8210.0
45°	8509.5	8497.5	8683.8	8993.1	9242.5	8981.1	8917.9	9611.7	8841.7	8512.8
47.5°	8885.3	9209.8	9771.8	10224.9	10486.3	9661.8	9267.5	9819.7	9081.3	8778.5
50°	9266.5	10062.6	10960.1	11591.8	11647.3	10401.4	9508.3	10015.8	9299.1	8984.4
52.5°	9667.3	10743.3	11938.1	12672.2	12564.4	11045.0	9741.3	10148.7	9523.5	9246.9
55°	10015.8	11160.5	12484.9	13189.6	13031.6	11437.1	9992.9	10292.4	9843.7	9610.6
57.5°	10210.8	11195.3	12348.7	12964.1	12793.1	11360.9	10108.4	10399.2	10048.5	9865.5
58°	10239.1	11148.5	12227.9	12833.4	12659.2	11296.6	10107.3	10394.8	10061.5	9877.5
60°	10214.0	10844.6	11778.0	12317.2	12134.2	10893.6	10065.9	10313.1	9896.0	9740.2
62.5°	9982.0	10317.5	11001.5	11393.6	11341.3	10264.1	9896.0	10004.9	9391.7	9241.4
65°	9677.1	9598.7	10007.1	10284.8	10324.0	9792.5	9727.2	9338.3	8744.8	8532.4
67.5°	9306.8	8784.0	8782.9	8940.8	9006.2	9067.1	9375.4	8614.1	7812.4	7588.1
70°	8678.3	7528.2	7181.8	7368.1	7313.6	7828.8	8746.9	7596.8	6688.4	6426.0
72.5°	7526.0	5974.0	5419.6	5659.2	5522.0	6139.5	7653.4	6251.7	5530.7	5208.3
75°	6100.3	4468.8	3897.0	4117.0	4032.0	4657.2	6368.2	4540.7	3966.7	3843.6
77.5°	4736.7	3238.0	2905.8	2875.3	2938.5	3465.7	4671.4	3065.9	2615.0	2531.2
80°	3043.1	2317.7	2337.3	2298.1	2330.8	2184.8	2836.1	1956.1	1771.0	1703.4
82.5°	2002.9	1615.2	1925.6	1777.5	1688.2	1469.3	1860.3	1280.8	1087.0	1049.9
85°	1364.7	1189.3	1082.6	827.8	974.8	1131.6	1395.2	689.4	546.8	495.6
87.5°	616.5	413.9	303.9	187.3	296.2	342.0	677.4	80.6	62.1	64.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)