

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: P452554

Luminaire Tested: **GALN-SA3C-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452554
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-SA3C-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 16476 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

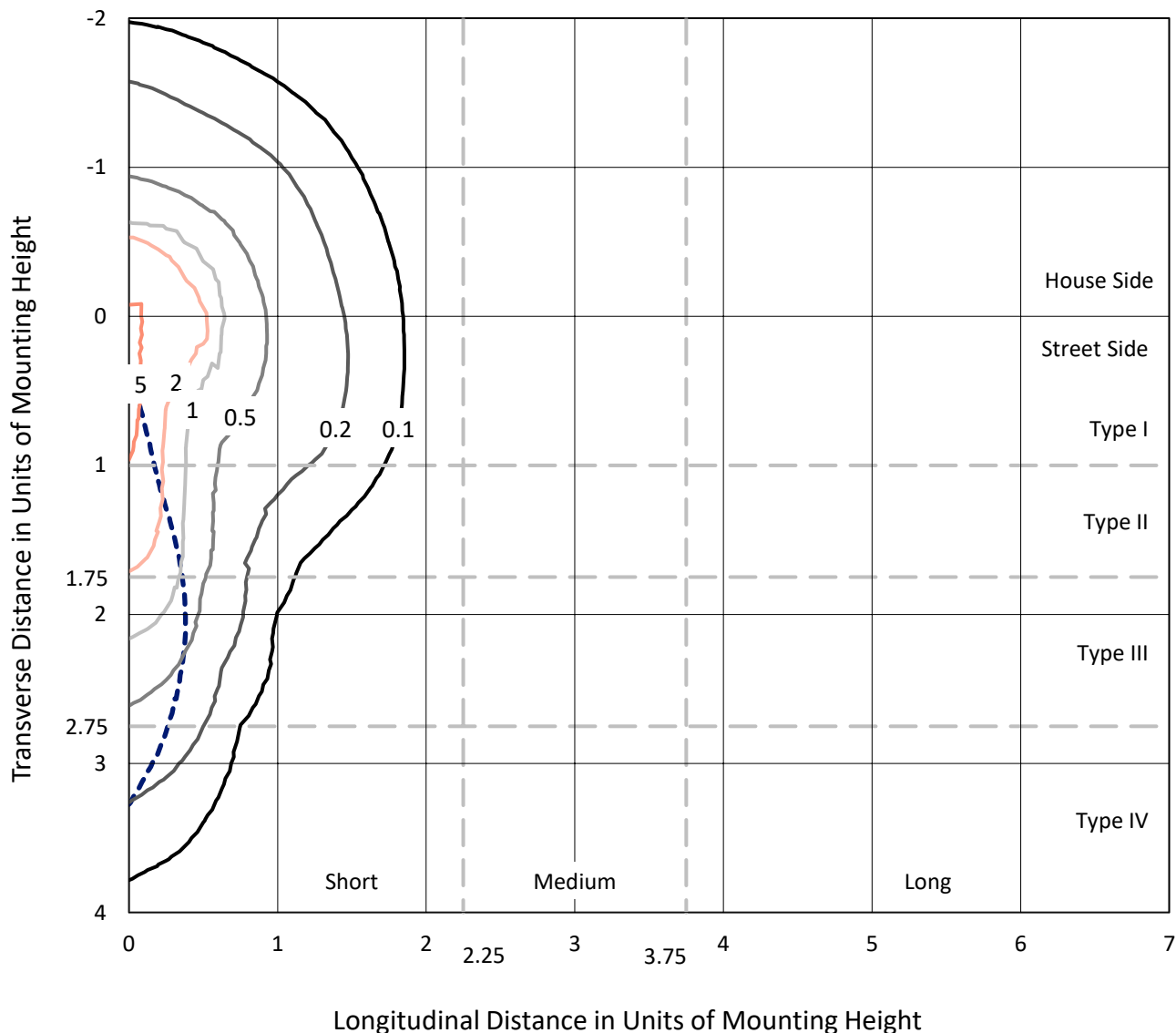
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

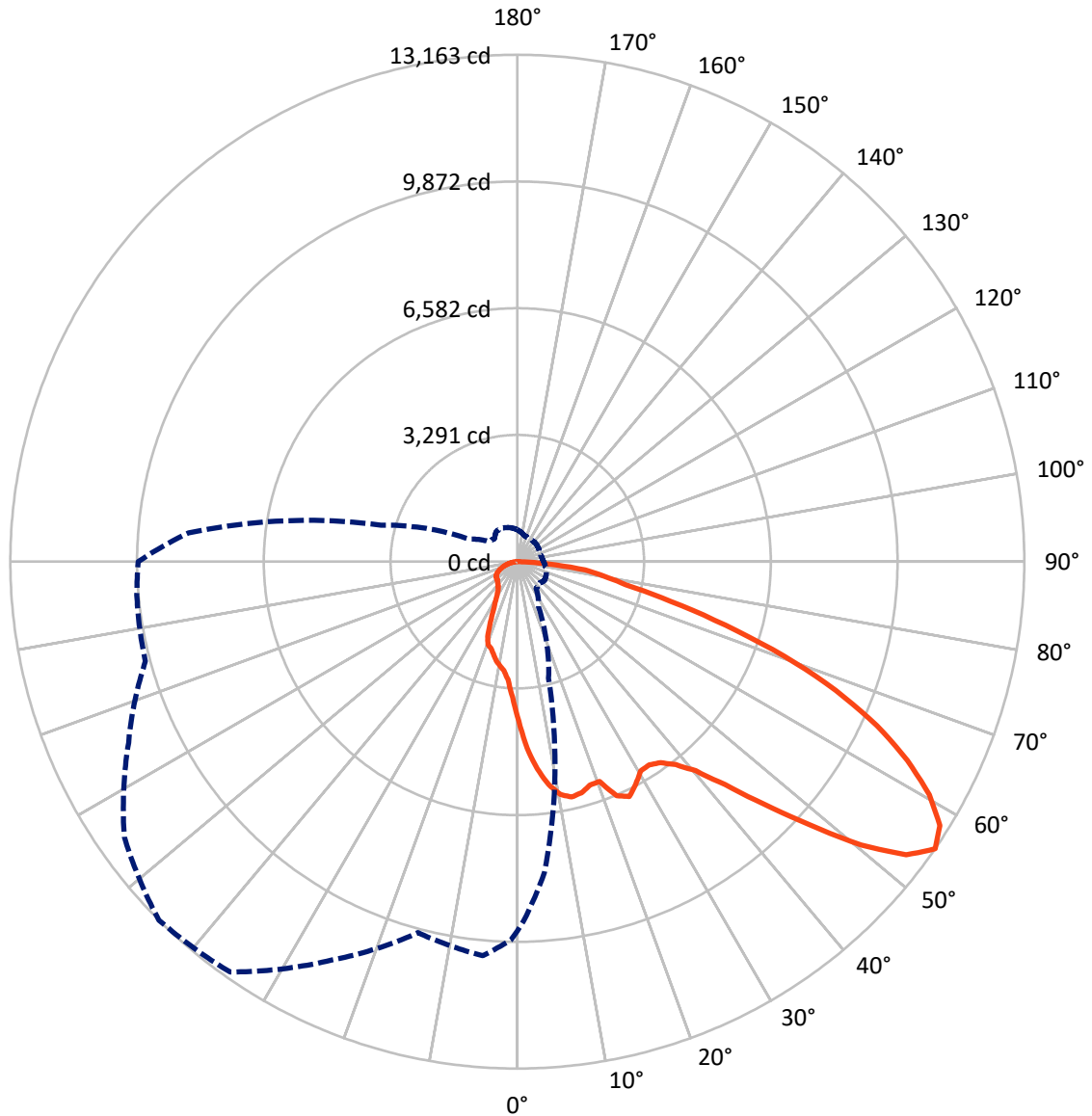
× Max cd
 - - - 1/2 Max cd



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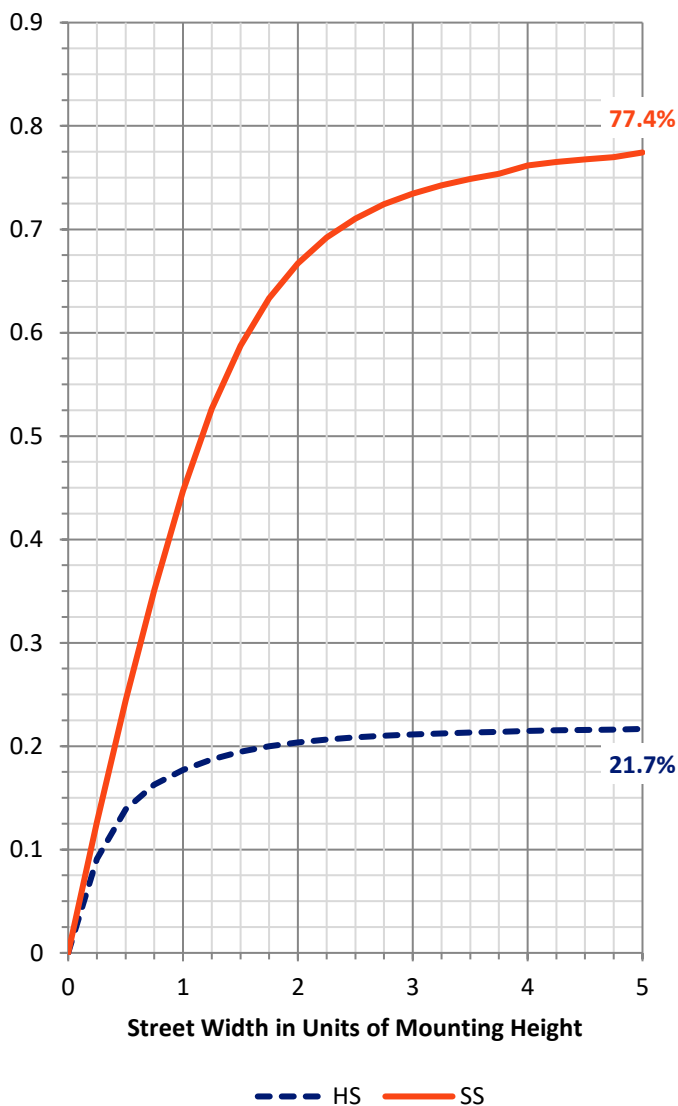
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3604.0	0.0	3604.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	12871.9	0.0	12871.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	16476.0	0.0	16476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.4	2.1
10°-20°	929.7	5.6
20°-30°	1606.1	9.7
30°-40°	1866.6	11.3
40°-50°	2604.3	15.8
50°-60°	3533.7	21.4
60°-70°	3361.9	20.4
70°-80°	1816.2	11.0
80°-90°	407.0	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°	16476.0	100.0
0°-180°	16476.0	100.0

Coefficient of Utilization



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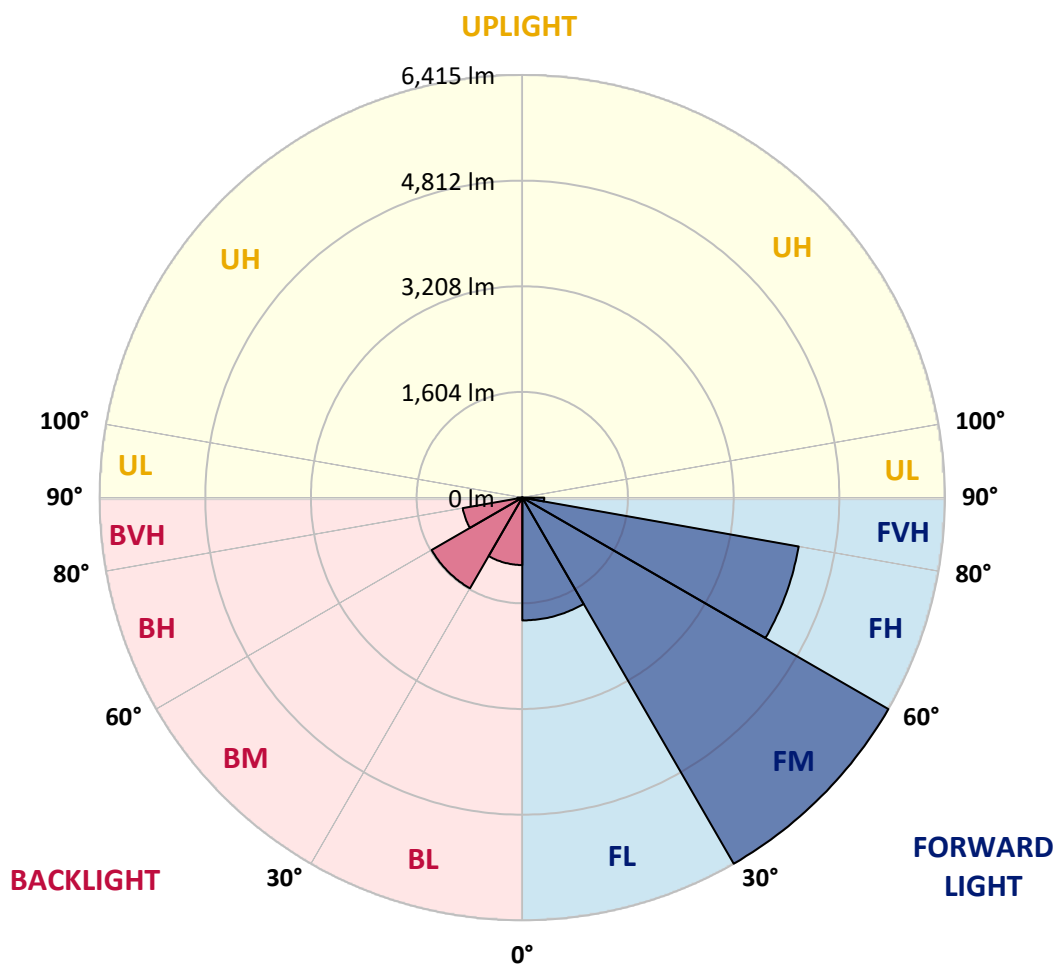
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.5	11.3			
FM	(30°-60°)	6415.4	38.9			
FH	(60°-80°)	4260.4	25.9			G2/5000
FVH	(80°-90°)	332.7	2.0			G3/500
BL	(0°-30°)	1022.8	6.2	B3/2500		
BM	(30°-60°)	1589.2	9.6	B2/2500		
BH	(60°-80°)	917.7	5.6	B2/1000		G2/1000
BVH	(80°-90°)	74.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8
2.5°	4593.5	4576.1	4527.2	4399.0	4269.6	4138.1	4037.0	3910.9	3779.4	3708.7	3618.5
5°	4656.6	4637.0	4521.8	4232.7	3970.7	3695.7	3476.1	3283.7	3205.5	3090.3	2997.9
7.5°	4508.7	4500.1	4327.2	3912.0	3553.3	3193.5	2944.6	2790.3	2650.0	2597.9	2608.7
10°	4374.0	4339.2	4122.9	3580.5	3162.0	2869.6	2691.3	2540.2	2441.3	2415.2	2420.7
12.5°	4262.0	4215.3	3959.8	3357.6	2991.3	2757.6	2530.5	2372.9	2282.6	2307.6	2392.4
15°	4239.2	4176.1	3891.4	3281.6	2897.9	2596.8	2347.9	2166.3	2098.9	2153.3	2289.2
17.5°	4387.0	4307.7	4008.7	3306.6	2808.7	2432.6	2127.2	1919.6	1863.1	1950.0	2127.2
20°	4862.0	4744.6	4375.1	3451.1	2800.0	2351.1	1998.9	1790.2	1814.2	1979.4	2164.2
22.5°	5740.3	5564.2	5016.4	3662.0	2845.7	2330.5	1972.8	1864.2	1995.7	2135.9	2257.6
25°	5914.2	5776.2	5131.6	3709.8	2835.9	2316.3	2046.8	2101.1	2247.9	2317.4	2275.0
27.5°	6012.0	5854.4	5124.0	3472.9	2535.9	2101.1	1956.5	2046.8	2083.7	2016.3	1901.1
30°	6240.3	6076.2	5253.3	3224.0	2088.1	1558.7	1366.3	1329.4	1354.4	1367.4	1326.1
32.5°	6554.4	6392.5	5496.8	3060.9	1805.5	1289.1	1100.0	1047.8	1035.9	1021.8	1005.4
35°	6961.0	6712.0	5735.9	2956.6	1689.2	1192.4	1018.5	978.3	962.0	942.4	925.0
37.5°	7374.0	7113.1	6038.1	2846.8	1612.0	1125.0	964.1	945.7	917.4	896.7	871.7
40°	7813.1	7520.7	6313.1	2751.1	1537.0	1081.5	925.0	922.8	885.9	862.0	832.6
42.5°	8193.6	7892.5	6558.8	2692.4	1479.4	1035.9	901.1	907.6	869.6	833.7	795.7
45°	8495.8	8200.1	6786.0	2692.4	1432.6	990.2	896.7	892.4	854.4	809.8	766.3
47.5°	8761.0	8455.5	7007.7	2760.9	1403.3	952.2	872.8	880.4	841.3	784.8	742.4
50°	8966.4	8696.8	7306.6	2867.4	1373.9	921.8	842.4	883.7	830.4	771.7	722.8
52.5°	9228.4	8987.1	7666.4	3013.1	1348.9	888.1	815.2	883.7	829.4	772.8	719.6
55°	9591.4	9337.1	8100.1	3133.7	1308.7	856.5	791.3	858.7	826.1	767.4	710.9
57.5°	9845.8	9655.6	8406.6	3214.2	1251.1	816.3	769.6	834.8	812.0	746.7	684.8
58°	9857.7	9671.9	8451.2	3232.6	1237.0	808.7	764.1	823.9	805.4	738.1	676.1
60°	9720.8	9561.0	8459.9	3206.6	1156.5	770.7	735.9	779.4	770.7	687.0	629.4
62.5°	9222.9	9052.3	8108.8	2994.6	1050.0	723.9	692.4	719.6	700.0	615.2	562.0
65°	8515.3	8201.2	7387.0	2662.0	973.9	673.9	633.7	635.9	615.2	554.4	507.6
67.5°	7572.9	7221.8	6254.4	2243.5	916.3	618.5	564.1	558.7	533.7	494.6	456.5
70°	6413.1	6172.9	5082.7	1825.0	852.2	557.6	485.9	482.6	467.4	438.0	404.4
72.5°	5197.9	4892.5	4104.4	1460.9	773.9	498.9	413.0	419.6	400.0	379.4	348.9
75°	3835.9	3635.9	3172.9	1171.8	668.5	434.8	344.6	346.7	338.0	316.3	292.4
77.5°	2526.1	2466.3	2269.6	769.6	514.1	345.7	281.5	283.7	277.2	257.6	232.6
80°	1700.0	1659.8	1538.1	495.7	343.5	250.0	217.4	219.6	218.5	197.8	164.1
82.5°	1047.8	1030.4	991.3	334.8	238.0	179.3	143.5	150.0	162.0	139.1	112.0
85°	494.6	495.7	598.9	182.6	140.2	115.2	78.3	83.7	83.7	83.7	63.0
87.5°	64.1	67.4	82.6	77.2	51.1	43.5	28.3	23.9	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°	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8
2.5°	3587.0	3565.3	3518.5	3507.7	3501.1	3519.6	3470.7	3483.7	3462.0	3522.9	3513.1
5°	3003.3	3005.5	3043.5	3068.5	3077.2	3068.5	3035.9	2979.4	2935.9	2918.5	2922.9
7.5°	2588.1	2626.1	2691.3	2764.2	2830.5	2850.0	2831.6	2723.9	2606.6	2532.6	2508.7
10°	2450.0	2501.1	2576.1	2633.7	2692.4	2739.2	2748.9	2665.2	2526.1	2351.1	2282.6
12.5°	2457.6	2527.2	2598.9	2617.4	2612.0	2630.5	2621.8	2607.6	2516.3	2293.5	2179.4
15°	2385.9	2468.5	2518.5	2508.7	2491.3	2475.0	2452.2	2416.3	2383.7	2227.2	2101.1
17.5°	2220.7	2305.5	2346.8	2350.0	2350.0	2345.7	2290.2	2277.2	2272.9	2196.8	2119.6
20°	2251.1	2297.9	2279.4	2248.9	2257.6	2287.0	2254.4	2247.9	2272.9	2306.5	2292.4
22.5°	2268.5	2252.2	2113.1	1978.3	1947.8	2039.2	2057.6	2130.5	2231.5	2353.3	2432.6
25°	2160.9	2029.4	1780.5	1628.3	1542.4	1627.2	1738.1	1872.8	2023.9	2180.5	2272.9
27.5°	1806.5	1706.5	1528.3	1391.3	1316.3	1329.4	1423.9	1546.8	1687.0	1792.4	1859.8
30°	1360.9	1316.3	1223.9	1177.2	1131.5	1120.7	1160.9	1207.6	1269.6	1282.6	1300.0
32.5°	1002.2	995.7	1001.1	985.9	977.2	976.1	964.1	975.0	981.5	989.1	973.9
35°	906.5	897.8	882.6	878.3	872.8	875.0	869.6	864.1	868.5	875.0	879.4
37.5°	857.6	844.6	822.8	815.2	815.2	818.5	809.8	807.6	815.2	835.9	846.7
40°	819.6	804.4	779.4	769.6	776.1	784.8	772.8	768.5	787.0	808.7	826.1
42.5°	783.7	771.7	747.8	737.0	742.4	758.7	741.3	738.1	762.0	785.9	806.5
45°	753.3	741.3	719.6	714.1	716.3	731.5	719.6	719.6	742.4	768.5	787.0
47.5°	729.4	714.1	700.0	695.7	697.8	706.5	704.4	704.4	726.1	753.3	771.7
50°	705.4	692.4	673.9	676.1	681.5	693.5	692.4	695.7	717.4	751.1	770.7
52.5°	694.6	675.0	654.4	656.5	672.8	687.0	682.6	685.9	710.9	773.9	802.2
55°	682.6	656.5	632.6	635.9	654.4	675.0	669.6	673.9	703.3	789.1	828.3
57.5°	659.8	629.4	603.3	605.4	632.6	654.4	645.7	651.1	685.9	772.8	814.1
58°	650.0	623.9	598.9	600.0	626.1	650.0	640.2	644.6	680.4	768.5	807.6
60°	608.7	593.5	571.7	572.8	597.8	618.5	613.1	617.4	652.2	737.0	766.3
62.5°	552.2	543.5	538.0	538.0	553.3	572.8	578.3	583.7	615.2	666.3	692.4
65°	491.3	491.3	492.4	492.4	502.2	527.2	530.4	544.6	573.9	598.9	618.5
67.5°	450.0	447.8	450.0	444.6	448.9	464.1	480.4	493.5	523.9	541.3	547.8
70°	396.7	395.7	396.7	389.1	394.6	407.6	418.5	440.2	471.7	484.8	488.0
72.5°	344.6	344.6	346.7	341.3	341.3	355.4	363.0	387.0	416.3	423.9	425.0
75°	290.2	293.5	293.5	285.9	288.0	296.7	306.5	326.1	353.3	358.7	358.7
77.5°	230.4	242.4	242.4	234.8	238.0	239.1	252.2	262.0	282.6	284.8	276.1
80°	167.4	179.3	189.1	182.6	188.0	181.5	189.1	195.7	216.3	206.5	192.4
82.5°	119.6	128.3	135.9	137.0	131.5	119.6	129.3	130.4	140.2	127.2	119.6
85°	66.3	73.9	83.7	79.3	70.7	63.0	66.3	68.5	67.4	64.1	59.8
87.5°	17.4	18.5	20.7	15.2	14.1	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°	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8
2.5°	3520.7	3568.5	3671.8	3750.0	3845.7	3962.0	4099.0	4237.0	4385.9	4432.7	4497.9
5°	2913.1	3032.6	3082.6	3225.0	3366.3	3578.3	3804.4	4066.4	4353.3	4491.4	4624.0
7.5°	2489.2	2553.3	2605.5	2709.8	2879.4	3137.0	3420.7	3747.9	4154.4	4355.5	4550.1
10°	2260.9	2267.4	2331.5	2460.9	2608.7	2835.9	3104.4	3470.7	3924.0	4168.5	4396.8
12.5°	2109.8	2081.5	2151.1	2285.9	2453.3	2663.1	2909.8	3258.7	3757.7	4008.7	4284.8
15°	1977.2	1932.6	1984.8	2122.9	2288.1	2534.8	2800.0	3169.6	3692.4	3984.8	4291.4
17.5°	1980.5	1857.6	1876.1	1992.4	2156.5	2407.6	2729.4	3166.3	3791.4	4128.3	4491.4
20°	2225.0	2028.3	1944.6	1966.3	2125.0	2398.9	2762.0	3318.5	4116.4	4607.7	4995.7
22.5°	2465.2	2346.8	2212.0	2167.4	2254.4	2541.3	2969.6	3678.3	4822.9	5563.1	6264.2
25°	2381.6	2482.6	2448.9	2385.9	2405.5	2643.5	3110.9	3974.0	5371.8	6205.5	6864.2
27.5°	1905.5	2089.2	2126.1	2125.0	2132.6	2328.3	2797.9	3775.0	5440.3	6328.3	6957.7
30°	1339.1	1355.5	1375.0	1413.1	1447.8	1622.8	2189.2	3314.2	5409.8	6383.8	7014.2
32.5°	966.3	988.1	1015.2	1067.4	1150.0	1372.8	1915.2	3167.4	5570.7	6613.1	7179.4
35°	883.7	908.7	934.8	994.6	1072.8	1279.4	1806.5	3106.6	5834.9	6984.9	7476.2
37.5°	857.6	885.9	908.7	952.2	1015.2	1212.0	1707.6	3065.3	6105.5	7378.3	7874.0
40°	839.1	871.7	890.2	925.0	968.5	1150.0	1619.6	3032.6	6367.5	7738.1	8193.6
42.5°	822.8	856.5	880.4	905.4	941.3	1094.6	1541.3	3000.0	6594.6	8087.1	8512.1
45°	803.3	845.7	876.1	895.7	927.2	1047.8	1481.5	2973.9	6853.3	8396.8	8833.8
47.5°	787.0	833.7	871.7	894.6	906.5	1015.2	1433.7	3009.8	7164.2	8720.8	9132.7
50°	788.1	832.6	880.4	916.3	884.8	988.1	1404.4	3152.2	7568.6	9105.5	9368.6
52.5°	822.8	877.2	915.2	923.9	854.4	955.4	1389.1	3401.1	8046.8	9445.8	9606.6
55°	862.0	918.5	959.8	954.4	838.1	914.1	1385.9	3666.3	8570.8	9842.5	9916.4
57.5°	847.8	930.4	993.5	965.2	839.1	873.9	1371.8	3880.5	9008.8	10139.3	10222.9
58°	843.5	926.1	997.8	963.1	835.9	862.0	1368.5	3899.0	9069.7	10159.9	10266.4
60°	801.1	888.1	994.6	946.8	817.4	829.4	1332.6	3958.7	9053.4	10053.4	10292.5
62.5°	723.9	795.7	919.6	867.4	760.9	785.9	1252.2	3884.8	8612.1	9540.3	9911.0
65°	637.0	690.2	772.8	763.1	680.4	741.3	1142.4	3592.4	7728.4	8707.7	9097.9
67.5°	571.7	615.2	667.4	653.3	612.0	681.5	1023.9	3097.9	6737.0	7707.7	8199.0
70°	505.4	539.1	565.2	555.4	542.4	622.8	918.5	2514.2	5787.0	6757.7	7233.8
72.5°	438.0	469.6	491.3	477.2	469.6	560.9	832.6	1951.1	4570.7	5575.1	6187.0
75°	366.3	397.8	413.0	396.7	392.4	494.6	705.4	1457.6	3429.4	4297.9	4826.1
77.5°	283.7	317.4	337.0	331.5	333.7	406.5	569.6	997.8	2452.2	2929.4	3485.9
80°	198.9	235.9	248.9	243.5	258.7	309.8	402.2	633.7	1691.3	1901.1	2293.5
82.5°	122.8	157.6	159.8	165.2	176.1	229.4	303.3	385.9	1062.0	1097.8	1382.6
85°	62.0	75.0	80.4	89.1	98.9	140.2	172.8	239.1	683.7	517.4	772.8
87.5°	20.7	21.7	26.1	32.6	40.2	57.6	73.9	97.8	169.6	93.5	239.1
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: P452554

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8	4134.8
2.5°	4629.4	4721.8	4789.2	4851.1	4791.4	4785.9	4727.2	4632.7	4593.5	4593.5
5°	4902.2	5118.5	5293.5	5405.5	5357.7	5242.5	5052.2	4809.8	4679.4	4656.6
7.5°	4977.2	5404.4	5729.4	5844.6	5764.2	5509.8	5145.7	4737.0	4550.1	4508.7
10°	4931.6	5487.0	5964.2	6146.8	6034.9	5650.1	5153.3	4652.2	4421.8	4374.0
12.5°	4883.8	5497.9	6007.7	6271.8	6199.0	5763.1	5208.8	4596.8	4330.5	4262.0
15°	4918.5	5502.2	5954.4	6227.2	6274.0	5899.0	5300.1	4637.0	4312.0	4239.2
17.5°	5138.1	5584.8	5878.3	6099.0	6263.1	6083.8	5559.8	4829.4	4477.2	4387.0
20°	5596.8	5782.7	5921.8	6092.5	6356.6	6460.9	6091.4	5357.7	4941.4	4862.0
22.5°	6925.1	6891.4	6606.6	6603.3	6986.0	7404.4	7379.4	6431.6	5805.5	5740.3
25°	7422.9	7266.4	6854.4	6754.4	6922.9	7568.6	7475.1	6651.2	6072.9	5914.2
27.5°	7228.3	6840.3	6569.6	6546.8	6491.4	7101.2	7326.2	6740.3	6166.4	6012.0
30°	7216.4	6645.7	6258.8	6304.4	6357.7	6940.3	7408.8	7019.6	6405.5	6240.3
32.5°	7245.7	6672.9	6281.6	6290.3	6449.0	6964.2	7500.1	7324.0	6719.6	6554.4
35°	7364.2	6827.3	6427.3	6406.6	6654.4	7120.7	7655.5	7802.3	7149.0	6961.0
37.5°	7555.5	7134.9	6693.6	6688.1	7047.9	7403.4	7849.0	8284.9	7576.2	7374.0
40°	7837.1	7494.7	7167.5	7138.1	7582.7	7863.1	8100.1	8799.0	8072.9	7813.1
42.5°	8177.3	7926.2	7792.5	7908.8	8336.0	8379.4	8491.4	9274.0	8495.8	8193.6
45°	8492.5	8480.5	8666.4	8975.1	9224.0	8963.2	8900.1	9592.5	8824.0	8495.8
47.5°	8867.5	9191.4	9752.3	10204.5	10465.3	9642.5	9249.0	9800.1	9063.2	8761.0
50°	9247.9	10042.5	10938.2	11568.6	11624.1	10380.6	9489.2	9995.8	9280.5	8966.4
52.5°	9647.9	10721.9	11914.3	12646.9	12539.3	11023.0	9721.9	10128.4	9504.5	9228.4
55°	9995.8	11138.2	12459.9	13163.2	13005.6	11414.3	9972.9	10271.9	9824.0	9591.4
57.5°	10190.3	11173.0	12324.1	12938.2	12767.5	11338.2	10088.2	10378.4	10028.4	9845.8
58°	10218.6	11126.2	12203.4	12807.8	12633.8	11274.0	10087.1	10374.0	10041.4	9857.7
60°	10193.6	10823.0	11754.5	12292.5	12109.9	10871.9	10045.8	10292.5	9876.2	9720.8
62.5°	9962.1	10296.9	10979.5	11370.8	11318.6	10243.6	9876.2	9984.9	9372.9	9222.9
65°	9657.7	9579.5	9987.1	10264.3	10303.4	9772.9	9707.7	9319.7	8727.3	8515.3
67.5°	9288.2	8766.4	8765.3	8922.9	8988.2	9049.0	9356.6	8596.8	7796.8	7572.9
70°	8661.0	7513.1	7167.5	7353.3	7299.0	7813.1	8729.5	7581.6	6675.1	6413.1
72.5°	7511.0	5962.0	5408.8	5647.9	5510.9	6127.2	7638.1	6239.2	5519.6	5197.9
75°	6088.1	4459.8	3889.2	4108.7	4024.0	4647.9	6355.5	4531.6	3958.7	3835.9
77.5°	4727.2	3231.6	2900.0	2869.6	2932.6	3458.7	4662.0	3059.8	2609.8	2526.1
80°	3037.0	2313.1	2332.6	2293.5	2326.1	2180.5	2830.5	1952.2	1767.4	1700.0
82.5°	1998.9	1612.0	1921.8	1773.9	1684.8	1466.3	1856.5	1278.3	1084.8	1047.8
85°	1362.0	1187.0	1080.4	826.1	972.8	1129.4	1392.4	688.1	545.7	494.6
87.5°	615.2	413.0	303.3	187.0	295.7	341.3	676.1	80.4	62.0	64.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)