

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: P452583

Luminaire Tested: **GALN-SA3C-740-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452583
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-740-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 18091 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

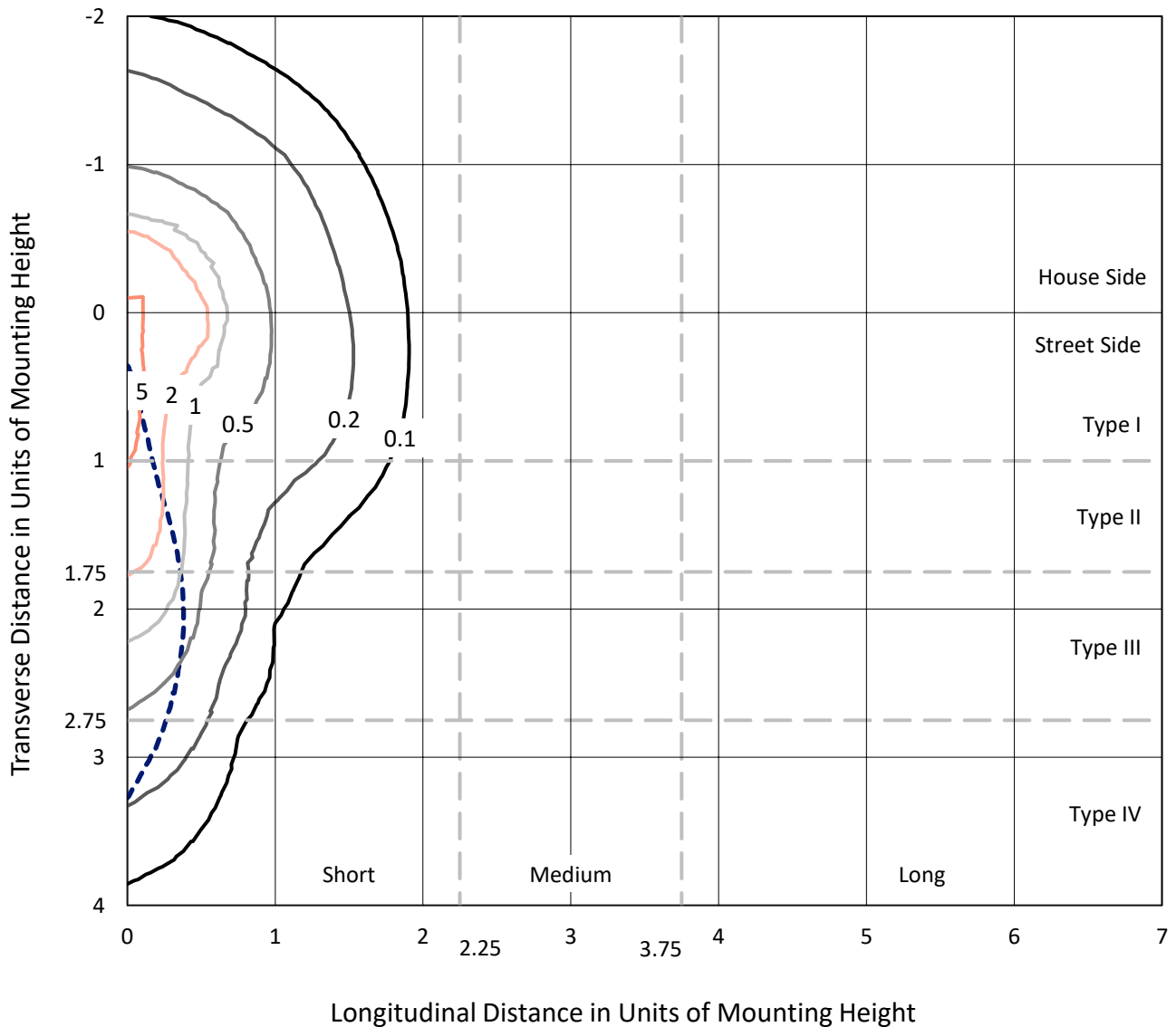
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

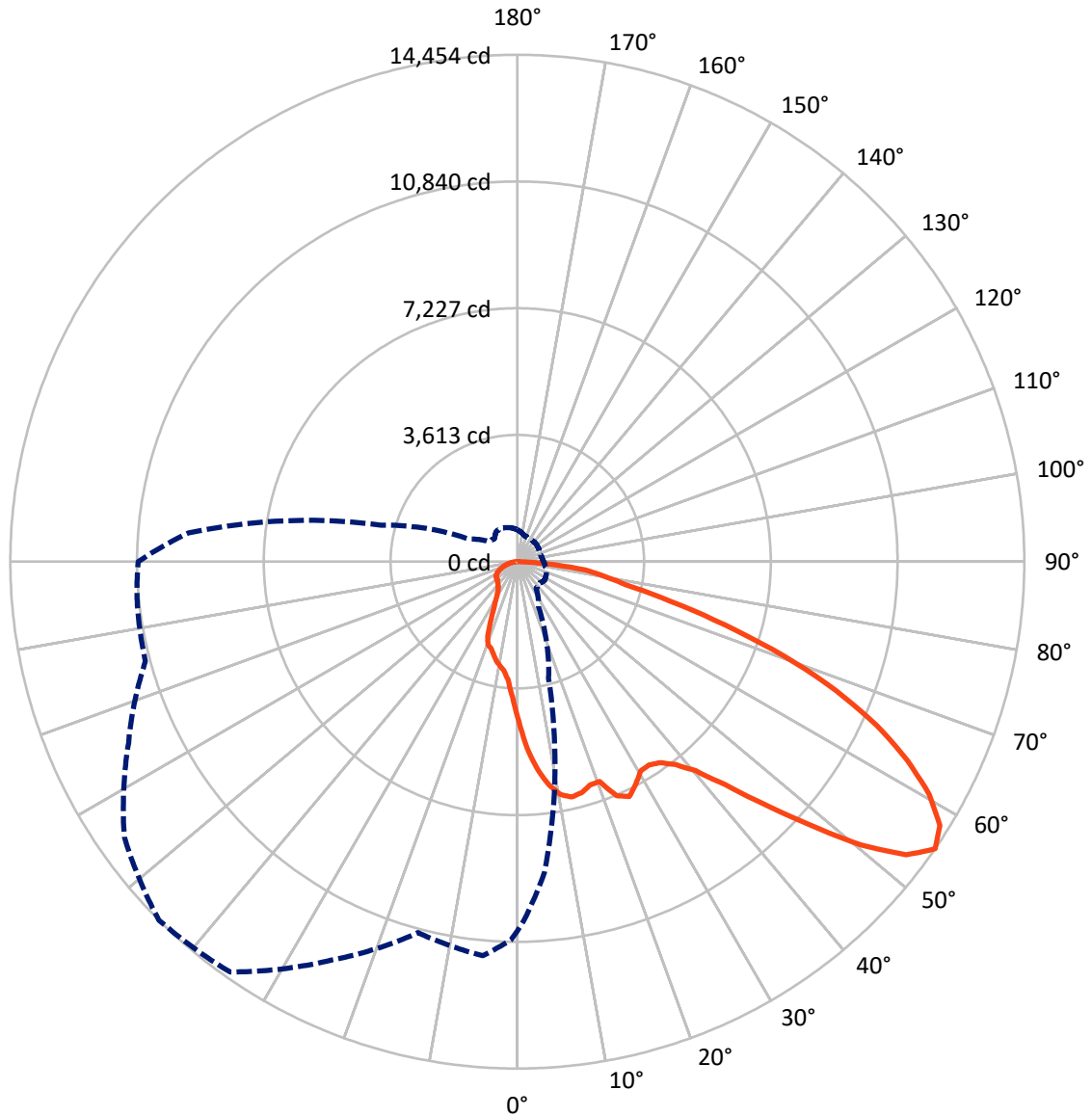
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3957.3	0.0	3957.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14133.7	0.0	14133.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	18091.0	0.0	18091.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	2.1
10°-20°	1020.9	5.6
20°-30°	1763.6	9.7
30°-40°	2049.6	11.3
40°-50°	2859.5	15.8
50°-60°	3880.1	21.4
60°-70°	3691.4	20.4
70°-80°	1994.2	11.0
80°-90°	446.9	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°	18091.0	100.0
0°-180°	18091.0	100.0



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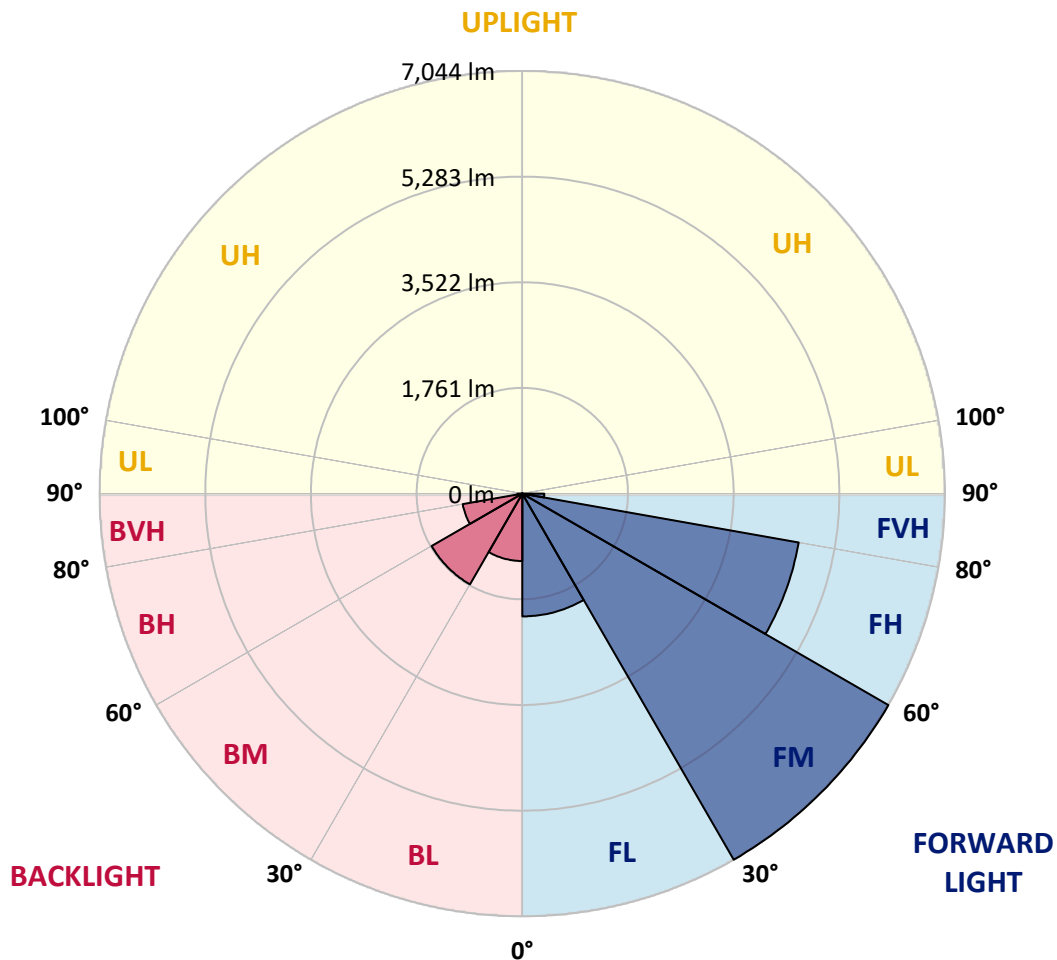
CATALOG NUMBER: GALN-SA3C-740-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2046.1	11.3			
FM	(30°-60°)	7044.3	38.9			
FH	(60°-80°)	4678.0	25.9			G2/5000
FVH	(80°-90°)	365.3	2.0			G3/500
BL	(0°-30°)	1123.1	6.2	B3/2500		
BM	(30°-60°)	1744.9	9.6	B2/2500		
BH	(60°-80°)	1007.6	5.6	B3/2500		G3/2500
BVH	(80°-90°)	81.7	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°	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1
2.5°	5043.8	5024.7	4971.0	4830.2	4688.1	4543.7	4432.7	4294.3	4149.9	4072.3	3973.2
5°	5113.0	5091.5	4965.0	4647.6	4359.9	4058.0	3816.9	3605.6	3519.7	3393.2	3291.7
7.5°	4950.7	4941.2	4751.4	4295.5	3901.6	3506.5	3233.2	3063.8	2909.8	2852.5	2864.4
10°	4802.7	4764.5	4527.0	3931.4	3471.9	3150.9	2955.1	2789.2	2680.6	2652.0	2658.0
12.5°	4679.8	4628.5	4348.0	3686.8	3284.6	3027.9	2778.5	2605.4	2506.4	2533.8	2626.9
15°	4654.7	4585.5	4272.8	3603.2	3181.9	2851.3	2578.0	2378.7	2304.7	2364.4	2513.5
17.5°	4817.0	4729.9	4401.7	3630.7	3084.0	2671.1	2335.7	2107.7	2045.7	2141.2	2335.7
20°	5338.6	5209.7	4803.9	3789.4	3074.5	2581.6	2194.9	1965.7	1992.0	2173.4	2376.3
22.5°	6303.0	6109.6	5508.1	4021.0	3124.6	2558.9	2166.2	2046.9	2191.3	2345.3	2478.9
25°	6493.9	6342.3	5634.6	4073.5	3113.9	2543.4	2247.4	2307.1	2468.2	2544.6	2498.0
27.5°	6601.3	6428.3	5626.2	3813.3	2784.5	2307.1	2148.3	2247.4	2288.0	2214.0	2087.5
30°	6852.0	6671.8	5768.3	3540.0	2292.7	1711.5	1500.2	1459.7	1487.1	1501.4	1456.1
32.5°	7196.9	7019.1	6035.6	3360.9	1982.4	1415.5	1207.8	1150.5	1137.4	1121.9	1104.0
35°	7643.3	7370.0	6298.2	3246.4	1854.7	1309.3	1118.3	1074.2	1056.3	1034.8	1015.7
37.5°	8096.8	7810.4	6630.0	3125.8	1770.0	1235.3	1058.6	1038.4	1007.3	984.7	957.2
40°	8579.0	8257.9	6931.9	3020.8	1687.6	1187.5	1015.7	1013.3	972.7	946.5	914.2
42.5°	8996.7	8666.1	7201.7	2956.3	1624.4	1137.4	989.4	996.6	954.8	915.4	873.7
45°	9328.5	9003.9	7451.1	2956.3	1573.1	1087.3	984.7	979.9	938.1	889.2	841.4
47.5°	9619.7	9284.4	7694.6	3031.5	1540.8	1045.5	958.4	966.7	923.8	861.7	815.2
50°	9845.3	9549.3	8022.8	3148.5	1508.6	1012.1	925.0	970.3	911.8	847.4	793.7
52.5°	10132.9	9868.0	8417.9	3308.4	1481.2	975.1	895.1	970.3	910.7	848.6	790.1
55°	10531.6	10252.3	8894.1	3440.9	1437.0	940.5	868.9	942.9	907.1	842.6	780.6
57.5°	10810.9	10602.0	9230.7	3529.2	1373.7	896.3	845.0	916.6	891.6	819.9	751.9
58°	10824.0	10619.9	9279.6	3549.5	1358.2	888.0	839.0	904.7	884.4	810.4	742.4
60°	10673.6	10498.2	9289.1	3520.9	1269.9	846.2	808.0	855.8	846.2	754.3	691.0
62.5°	10127.0	9939.6	8903.6	3288.1	1152.9	794.9	760.3	790.1	768.6	675.5	617.0
65°	9350.0	9005.1	8111.1	2922.9	1069.4	740.0	695.8	698.2	675.5	608.7	557.4
67.5°	8315.2	7929.7	6867.5	2463.4	1006.1	679.1	619.4	613.5	586.0	543.0	501.3
70°	7041.7	6778.0	5580.9	2003.9	935.7	612.3	533.5	529.9	513.2	481.0	444.0
72.5°	5707.4	5372.0	4506.7	1604.1	849.8	547.8	453.5	460.7	439.2	416.5	383.1
75°	4211.9	3992.3	3483.9	1286.6	734.0	477.4	378.3	380.7	371.2	347.3	321.1
77.5°	2773.7	2708.1	2492.1	845.0	564.5	379.5	309.1	311.5	304.3	282.9	255.4
80°	1866.7	1822.5	1688.8	544.2	377.2	274.5	238.7	241.1	239.9	217.2	180.2
82.5°	1150.5	1131.5	1088.5	367.6	261.4	196.9	157.5	164.7	177.8	152.8	122.9
85°	543.0	544.2	657.6	200.5	154.0	126.5	85.9	91.9	91.9	91.9	69.2
87.5°	70.4	74.0	90.7	84.7	56.1	47.7	31.0	26.3	22.7	29.8	21.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1
2.5°	3938.6	3914.7	3863.4	3851.5	3844.3	3864.6	3810.9	3825.2	3801.3	3868.2	3857.4
5°	3297.7	3300.1	3341.8	3369.3	3378.8	3369.3	3333.5	3271.4	3223.7	3204.6	3209.4
7.5°	2841.8	2883.5	2955.1	3035.1	3107.9	3129.4	3109.1	2991.0	2862.1	2780.9	2754.6
10°	2690.2	2746.3	2828.6	2891.9	2956.3	3007.7	3018.4	2926.5	2773.7	2581.6	2506.4
12.5°	2698.5	2774.9	2853.7	2874.0	2868.0	2888.3	2878.8	2863.2	2763.0	2518.3	2393.0
15°	2619.8	2710.5	2765.4	2754.6	2735.5	2717.6	2692.6	2653.2	2617.4	2445.5	2307.1
17.5°	2438.4	2531.4	2576.8	2580.4	2580.4	2575.6	2514.7	2500.4	2495.6	2412.1	2327.4
20°	2471.8	2523.1	2502.8	2469.4	2478.9	2511.2	2475.4	2468.2	2495.6	2532.6	2517.1
22.5°	2490.9	2473.0	2320.2	2172.2	2138.8	2239.0	2259.3	2339.3	2450.3	2584.0	2671.1
25°	2372.7	2228.3	1955.0	1787.9	1693.6	1786.7	1908.4	2056.4	2222.3	2394.2	2495.6
27.5°	1983.6	1873.8	1678.1	1527.7	1445.3	1459.7	1563.5	1698.4	1852.3	1968.1	2042.1
30°	1494.3	1445.3	1343.9	1292.6	1242.5	1230.5	1274.7	1326.0	1394.0	1408.3	1427.4
32.5°	1100.4	1093.3	1099.2	1082.5	1073.0	1071.8	1058.6	1070.6	1077.7	1086.1	1069.4
35°	995.4	985.8	969.1	964.4	958.4	960.8	954.8	948.8	953.6	960.8	965.6
37.5°	941.7	927.4	903.5	895.1	895.1	898.7	889.2	886.8	895.1	917.8	929.7
40°	899.9	883.2	855.8	845.0	852.2	861.7	848.6	843.8	864.1	888.0	907.1
42.5°	860.5	847.4	821.1	809.2	815.2	833.1	814.0	810.4	836.7	862.9	885.6
45°	827.1	814.0	790.1	784.1	786.5	803.2	790.1	790.1	815.2	843.8	864.1
47.5°	800.8	784.1	768.6	763.9	766.2	775.8	773.4	773.4	797.3	827.1	847.4
50°	774.6	760.3	740.0	742.4	748.3	761.5	760.3	763.9	787.7	824.7	846.2
52.5°	762.7	741.2	718.5	720.9	738.8	754.3	749.5	753.1	780.6	849.8	880.8
55°	749.5	720.9	694.6	698.2	718.5	741.2	735.2	740.0	772.2	866.5	909.5
57.5°	724.5	691.0	662.4	664.8	694.6	718.5	708.9	714.9	753.1	848.6	893.9
58°	713.7	685.1	657.6	658.8	687.5	713.7	703.0	707.8	747.1	843.8	886.8
60°	668.4	651.7	627.8	629.0	656.4	679.1	673.1	677.9	716.1	809.2	841.4
62.5°	606.3	596.8	590.8	590.8	607.5	629.0	635.0	640.9	675.5	731.6	760.3
65°	539.5	539.5	540.7	540.7	551.4	578.9	582.4	598.0	630.2	657.6	679.1
67.5°	494.1	491.7	494.1	488.1	492.9	509.6	527.5	541.9	575.3	594.4	601.5
70°	435.6	434.4	435.6	427.3	433.2	447.6	459.5	483.4	518.0	532.3	535.9
72.5°	378.3	378.3	380.7	374.8	374.8	390.3	398.6	424.9	457.1	465.5	466.7
75°	318.7	322.2	322.2	313.9	316.3	325.8	336.6	358.1	387.9	393.9	393.9
77.5°	253.0	266.2	266.2	257.8	261.4	262.6	276.9	287.6	310.3	312.7	303.2
80°	183.8	196.9	207.7	200.5	206.5	199.3	207.7	214.8	237.5	226.8	211.3
82.5°	131.3	140.8	149.2	150.4	144.4	131.3	142.0	143.2	154.0	139.6	131.3
85°	72.8	81.2	91.9	87.1	77.6	69.2	72.8	75.2	74.0	70.4	65.6
87.5°	19.1	20.3	22.7	16.7	15.5	13.1	17.9	17.9	20.3	21.5	20.3
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°	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1
2.5°	3865.8	3918.3	4031.7	4117.6	4222.7	4350.4	4500.7	4652.3	4815.8	4867.2	4938.8
5°	3198.6	3329.9	3384.8	3541.2	3696.3	3929.1	4177.3	4464.9	4780.0	4931.6	5077.2
7.5°	2733.2	2803.6	2860.9	2975.4	3161.6	3444.5	3756.0	4115.2	4561.6	4782.4	4996.1
10°	2482.5	2489.7	2560.1	2702.1	2864.4	3113.9	3408.7	3810.9	4308.6	4577.1	4827.8
12.5°	2316.6	2285.6	2362.0	2510.0	2693.8	2924.1	3195.0	3578.2	4126.0	4401.7	4704.8
15°	2171.0	2122.1	2179.4	2330.9	2512.4	2783.3	3074.5	3480.3	4054.4	4375.4	4712.0
17.5°	2174.6	2039.7	2060.0	2187.7	2367.9	2643.6	2996.9	3476.7	4163.0	4533.0	4931.6
20°	2443.1	2227.1	2135.2	2159.1	2333.3	2634.1	3032.7	3643.8	4519.8	5059.3	5485.4
22.5°	2706.9	2576.8	2428.8	2379.9	2475.4	2790.4	3260.7	4038.9	5295.6	6108.4	6878.2
25°	2615.0	2726.0	2689.0	2619.8	2641.3	2902.6	3415.8	4363.5	5898.4	6813.8	7537.1
27.5°	2092.2	2293.9	2334.5	2333.3	2341.7	2556.5	3072.1	4145.1	5973.5	6948.6	7639.7
30°	1470.4	1488.3	1509.8	1551.6	1589.8	1781.9	2403.7	3639.0	5940.1	7009.5	7701.8
32.5°	1061.0	1084.9	1114.7	1172.0	1262.7	1507.4	2103.0	3477.9	6116.8	7261.4	7883.2
35°	970.3	997.8	1026.4	1092.1	1178.0	1404.8	1983.6	3411.1	6406.8	7669.5	8209.0
37.5°	941.7	972.7	997.8	1045.5	1114.7	1330.8	1875.0	3365.7	6704.0	8101.6	8645.8
40°	921.4	957.2	977.5	1015.7	1063.4	1262.7	1778.3	3329.9	6991.6	8496.6	8996.7
42.5°	903.5	940.5	966.7	994.2	1033.6	1201.9	1692.4	3294.1	7241.1	8879.8	9346.4
45°	882.0	928.6	962.0	983.5	1018.1	1150.5	1626.8	3265.5	7525.1	9219.9	9699.7
47.5°	864.1	915.4	957.2	982.3	995.4	1114.7	1574.2	3304.8	7866.5	9575.6	10027.9
50°	865.3	914.2	966.7	1006.1	971.5	1084.9	1542.0	3461.2	8310.5	9998.1	10286.9
52.5°	903.5	963.2	1004.9	1014.5	938.1	1049.1	1525.3	3734.5	8835.6	10371.7	10548.3
55°	946.5	1008.5	1053.9	1047.9	920.2	1003.7	1521.7	4025.7	9410.9	10807.3	10888.4
57.5°	930.9	1021.6	1090.9	1059.8	921.4	959.6	1506.2	4260.9	9891.9	11133.1	11225.0
58°	926.2	1016.9	1095.6	1057.5	917.8	946.5	1502.6	4281.1	9958.7	11155.8	11272.8
60°	879.6	975.1	1092.1	1039.6	897.5	910.7	1463.3	4346.8	9940.8	11038.8	11301.4
62.5°	794.9	873.7	1009.7	952.4	835.5	862.9	1374.9	4265.6	9456.2	10475.5	10882.5
65°	699.4	757.9	848.6	837.8	747.1	814.0	1254.4	3944.6	8485.9	9561.3	9989.7
67.5°	627.8	675.5	732.8	717.3	671.9	748.3	1124.3	3401.5	7397.4	8463.2	9002.7
70°	555.0	592.0	620.6	609.9	595.6	683.9	1008.5	2760.6	6354.3	7420.1	7942.8
72.5°	481.0	515.6	539.5	524.0	515.6	615.9	914.2	2142.4	5018.7	6121.5	6793.5
75°	402.2	436.8	453.5	435.6	430.9	543.0	774.6	1600.5	3765.5	4719.2	5299.2
77.5°	311.5	348.5	370.0	364.0	366.4	446.4	625.4	1095.6	2692.6	3216.5	3827.6
80°	218.4	259.0	273.3	267.3	284.1	340.2	441.6	695.8	1857.1	2087.5	2518.3
82.5°	134.9	173.1	175.4	181.4	193.3	251.8	333.0	423.7	1166.1	1205.5	1518.2
85°	68.0	82.4	88.3	97.9	108.6	154.0	189.8	262.6	750.7	568.1	848.6
87.5°	22.7	23.9	28.6	35.8	44.2	63.3	81.2	107.4	186.2	102.6	262.6
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: P452583

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1	4540.1
2.5°	5083.2	5184.6	5258.6	5326.7	5261.0	5255.1	5190.6	5086.8	5043.8	5043.8
5°	5382.8	5620.3	5812.4	5935.4	5882.8	5756.3	5547.5	5281.3	5138.1	5113.0
7.5°	5465.1	5934.2	6291.0	6417.5	6329.2	6049.9	5650.1	5201.3	4996.1	4950.7
10°	5415.0	6024.9	6548.8	6749.3	6626.4	6203.9	5658.5	5108.2	4855.2	4802.7
12.5°	5362.5	6036.8	6596.6	6886.6	6806.6	6328.0	5719.3	5047.4	4755.0	4679.8
15°	5400.7	6041.6	6538.1	6837.7	6889.0	6477.2	5819.6	5091.5	4734.7	4654.7
17.5°	5641.7	6132.3	6454.5	6696.8	6877.0	6680.1	6104.8	5302.8	4916.1	4817.0
20°	6145.4	6349.5	6502.3	6689.7	6979.7	7094.3	6688.5	5882.8	5425.7	5338.6
22.5°	7603.9	7566.9	7254.2	7250.6	7670.7	8130.2	8102.8	7062.0	6374.6	6303.0
25°	8150.5	7978.7	7526.3	7416.5	7601.5	8310.5	8207.8	7303.1	6668.2	6493.9
27.5°	7936.9	7510.8	7213.6	7188.5	7127.7	7797.2	8044.3	7401.0	6770.8	6601.3
30°	7923.8	7297.2	6872.3	6922.4	6980.9	7620.6	8135.0	7707.7	7033.4	6852.0
32.5°	7956.0	7327.0	6897.3	6906.9	7081.1	7646.9	8235.3	8041.9	7378.3	7196.9
35°	8086.1	7496.5	7057.3	7034.6	7306.7	7818.7	8405.9	8567.1	7849.8	7643.3
37.5°	8296.1	7834.2	7349.7	7343.7	7738.8	8129.0	8618.4	9097.0	8318.8	8096.8
40°	8605.2	8229.3	7870.0	7837.8	8326.0	8633.9	8894.1	9661.5	8864.2	8579.0
42.5°	8978.8	8703.1	8556.3	8684.0	9153.1	9200.8	9323.7	10183.1	9328.5	8996.7
45°	9324.9	9311.8	9515.9	9854.9	10128.2	9841.7	9772.5	10532.8	9689.0	9328.5
47.5°	9736.7	10092.4	10708.2	11204.7	11491.2	10587.7	10155.6	10760.7	9951.5	9619.7
50°	10154.4	11026.9	12010.4	12702.6	12763.5	11398.1	10419.4	10975.6	10190.2	9845.3
52.5°	10593.6	11772.8	13082.1	13886.6	13768.4	12103.4	10674.8	11121.2	10436.1	10132.9
55°	10975.6	12230.0	13681.3	14453.5	14280.4	12533.1	10950.5	11278.7	10787.0	10531.6
57.5°	11189.2	12268.1	13532.1	14206.4	14019.0	12449.6	11077.0	11395.7	11011.4	10810.9
58°	11220.2	12216.8	13399.6	14063.2	13872.2	12379.1	11075.8	11390.9	11025.7	10824.0
60°	11192.8	11883.8	12906.7	13497.5	13297.0	11937.5	11030.5	11301.4	10844.3	10673.6
62.5°	10938.6	11306.2	12055.7	12485.4	12428.1	11247.7	10844.3	10963.6	10291.7	10127.0
65°	10604.4	10518.5	10966.0	11270.4	11313.3	10730.9	10659.3	10233.2	9582.7	9350.0
67.5°	10198.6	9625.7	9624.5	9797.6	9869.2	9936.0	10273.8	9439.5	8561.1	8315.2
70°	9509.9	8249.6	7870.0	8074.1	8014.5	8579.0	9585.1	8324.8	7329.4	7041.7
72.5°	8247.2	6546.4	5938.9	6201.5	6051.1	6727.8	8386.8	6850.8	6060.7	5707.4
75°	6684.9	4897.0	4270.4	4511.5	4418.4	5103.5	6978.5	4975.8	4346.8	4211.9
77.5°	5190.6	3548.3	3184.3	3150.9	3220.1	3797.8	5119.0	3359.7	2865.6	2773.7
80°	3334.7	2539.8	2561.3	2518.3	2554.1	2394.2	3107.9	2143.6	1940.7	1866.7
82.5°	2194.9	1770.0	2110.1	1947.8	1849.9	1610.1	2038.5	1403.6	1191.1	1150.5
85°	1495.5	1303.3	1186.4	907.1	1068.2	1240.1	1528.9	755.5	599.1	543.0
87.5°	675.5	453.5	333.0	205.3	324.6	374.8	742.4	88.3	68.0	70.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)