

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: P458818

Luminaire Tested: **GALN-SA3C-735-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458818
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-735-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 16852 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

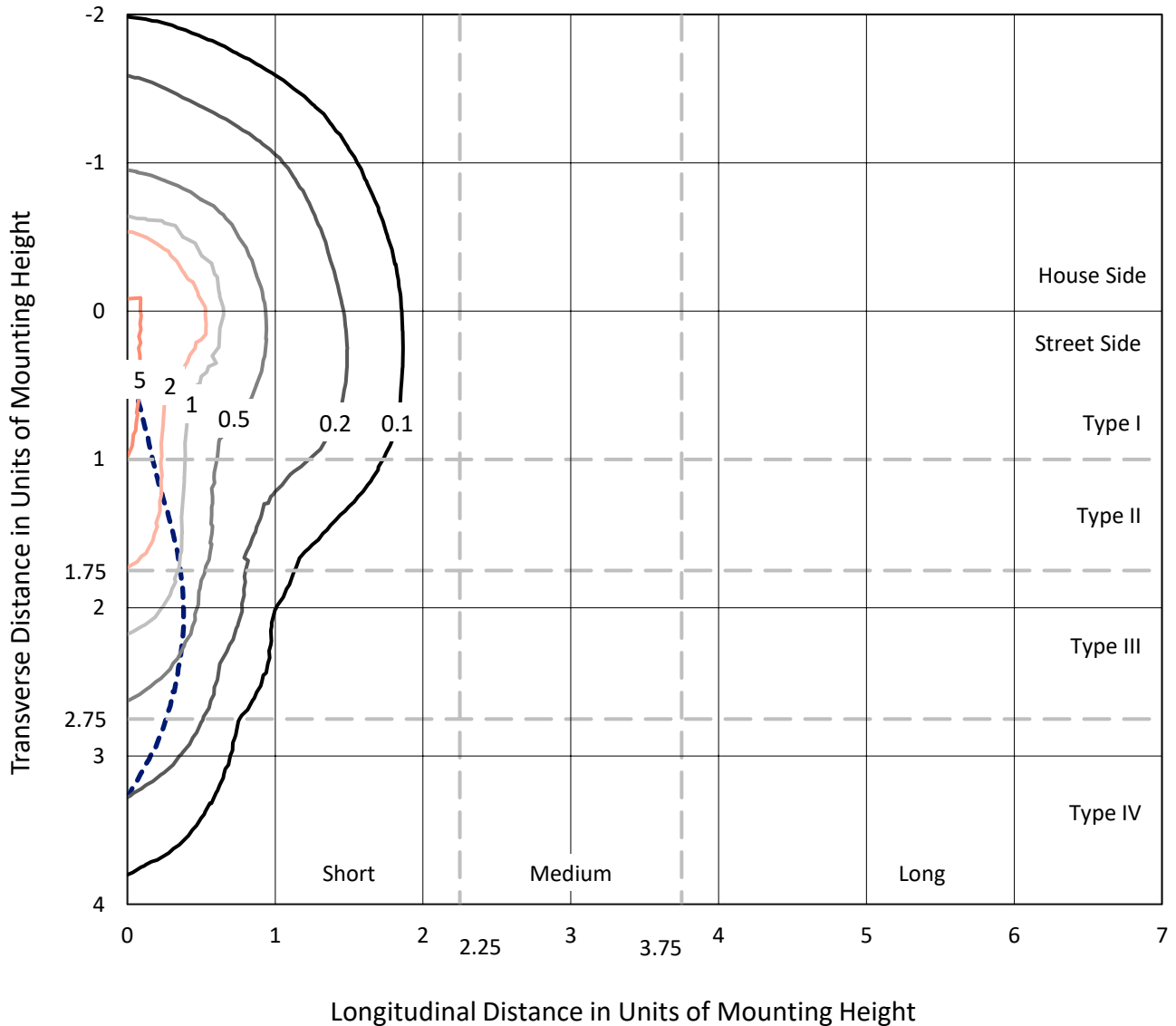
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

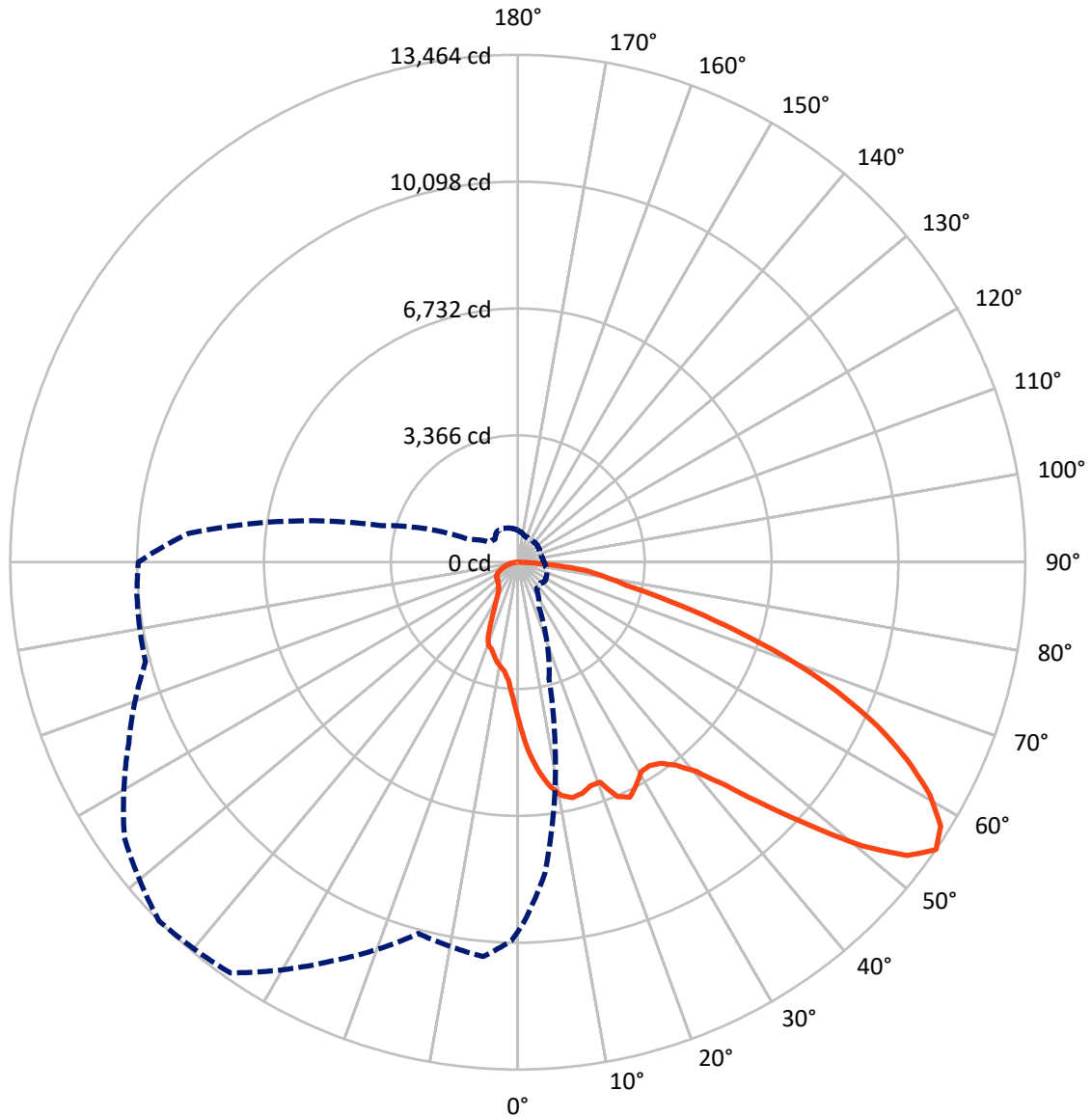
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3686.3	0.0	3686.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13165.7	0.0	13165.7
	% Fixture	78.1	0.0	78.1
Total	Lumens	16852.0	0.0	16852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.4	2.1
10°-20°	950.9	5.6
20°-30°	1642.8	9.7
30°-40°	1909.2	11.3
40°-50°	2663.7	15.8
50°-60°	3614.3	21.4
60°-70°	3438.6	20.4
70°-80°	1857.6	11.0
80°-90°	416.3	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°	16852.0	100.0
0°-180°	16852.0	100.0

Coefficient of Utilization



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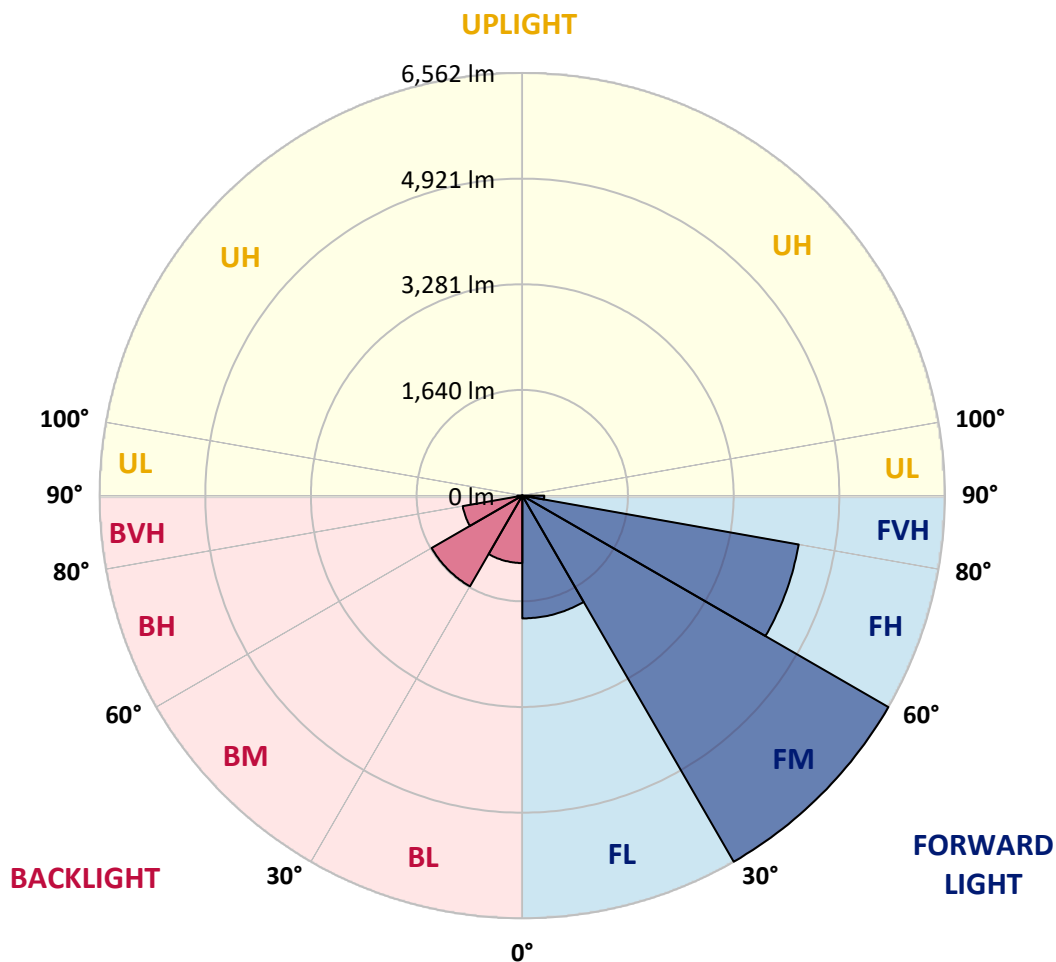
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1906.0	11.3			
FM	(30°-60°)	6561.8	38.9			
FH	(60°-80°)	4357.6	25.9			G2/5000
FVH	(80°-90°)	340.2	2.0			G3/500
BL	(0°-30°)	1046.2	6.2	B3/2500		
BM	(30°-60°)	1625.4	9.6	B2/2500		
BH	(60°-80°)	938.6	5.6	B2/1000		G2/1000
BVH	(80°-90°)	76.1	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°	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2
2.5°	4698.4	4680.6	4630.5	4499.4	4367.1	4232.5	4129.1	4000.2	3865.6	3793.4	3701.1
5°	4762.8	4742.8	4625.0	4329.3	4061.3	3780.0	3555.5	3358.7	3278.6	3160.8	3066.3
7.5°	4611.6	4602.8	4426.0	4001.3	3634.4	3266.4	3011.8	2853.9	2710.5	2657.1	2668.3
10°	4473.8	4438.2	4217.0	3662.2	3234.2	2935.1	2752.8	2598.2	2497.0	2470.4	2475.9
12.5°	4359.3	4311.5	4050.2	3434.3	3059.6	2820.6	2588.2	2427.0	2334.7	2360.3	2447.0
15°	4335.9	4271.4	3980.2	3356.5	2964.0	2656.0	2401.4	2215.8	2146.8	2202.4	2341.4
17.5°	4487.1	4406.0	4100.2	3382.0	2872.8	2488.2	2175.7	1963.4	1905.6	1994.5	2175.7
20°	4973.0	4852.9	4474.9	3529.9	2863.9	2404.8	2044.6	1831.1	1855.6	2024.5	2213.5
22.5°	5871.3	5691.2	5130.8	3745.6	2910.6	2383.6	2017.9	1906.7	2041.2	2184.6	2309.2
25°	6049.2	5908.0	5248.7	3794.5	2900.6	2369.2	2093.5	2149.1	2299.2	2370.3	2326.9
27.5°	6149.2	5988.0	5240.9	3552.1	2593.8	2149.1	2001.2	2093.5	2131.3	2062.3	1944.5
30°	6382.7	6214.8	5373.2	3297.5	2135.7	1594.3	1397.5	1359.7	1385.3	1398.6	1356.4
32.5°	6704.0	6538.4	5622.2	3130.8	1846.7	1318.6	1125.1	1071.8	1059.5	1045.1	1028.4
35°	7119.8	6865.2	5866.8	3024.0	1727.7	1219.6	1041.7	1000.6	983.9	963.9	946.1
37.5°	7542.3	7275.5	6175.9	2911.7	1648.8	1150.7	986.1	967.2	938.3	917.2	891.6
40°	7991.4	7692.4	6457.2	2813.9	1572.1	1106.2	946.1	943.9	906.1	881.6	851.6
42.5°	8380.6	8072.6	6708.5	2753.9	1513.1	1059.5	921.7	928.3	889.4	852.7	813.8
45°	8689.6	8387.2	6940.8	2753.9	1465.3	1012.8	917.2	912.8	873.9	828.3	783.8
47.5°	8960.9	8648.5	7167.6	2823.9	1435.3	973.9	892.8	900.5	860.5	802.7	759.3
50°	9171.0	8895.3	7473.4	2932.9	1405.3	942.8	861.6	903.9	849.4	789.4	739.3
52.5°	9439.0	9192.2	7841.4	3081.8	1379.7	908.3	833.8	903.9	848.3	790.5	736.0
55°	9810.3	9550.2	8285.0	3205.2	1338.6	876.1	809.4	878.3	844.9	784.9	727.1
57.5°	10070.5	9875.9	8598.5	3287.5	1279.7	834.9	787.1	853.8	830.5	763.8	700.4
58°	10082.7	9892.6	8644.1	3306.4	1265.2	827.2	781.6	842.7	823.8	754.9	691.5
60°	9942.6	9779.2	8652.9	3279.7	1182.9	788.2	752.7	797.1	788.2	702.6	643.7
62.5°	9433.4	9258.9	8293.8	3062.9	1074.0	740.4	708.2	736.0	716.0	629.3	574.8
65°	8709.6	8388.3	7555.6	2722.7	996.2	689.3	648.2	650.4	629.3	567.0	519.2
67.5°	7745.7	7386.6	6397.2	2294.7	937.2	632.6	577.0	571.5	545.9	505.9	466.9
70°	6559.5	6313.8	5198.7	1866.7	871.6	570.3	497.0	493.6	478.1	448.0	413.6
72.5°	5316.5	5004.1	4198.1	1494.2	791.6	510.3	422.5	429.1	409.1	388.0	356.9
75°	3923.5	3718.9	3245.3	1198.5	683.7	444.7	352.4	354.7	345.8	323.5	299.1
77.5°	2583.8	2522.6	2321.4	787.1	525.9	353.5	287.9	290.2	283.5	263.5	237.9
80°	1738.8	1697.7	1573.2	507.0	351.3	255.7	222.4	224.6	223.5	202.3	167.9
82.5°	1071.8	1054.0	1013.9	342.4	243.5	183.4	146.8	153.4	165.7	142.3	114.5
85°	505.9	507.0	612.6	186.8	143.4	117.8	80.0	85.6	85.6	85.6	64.5
87.5°	65.6	68.9	84.5	78.9	52.3	44.5	28.9	24.5	21.1	27.8	20.0
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°	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2
2.5°	3668.9	3646.6	3598.8	3587.7	3581.0	3599.9	3549.9	3563.2	3541.0	3603.3	3593.3
5°	3071.8	3074.1	3113.0	3138.5	3147.4	3138.5	3105.2	3047.4	3002.9	2985.1	2989.6
7.5°	2647.1	2686.0	2752.8	2827.2	2895.1	2915.1	2896.2	2786.1	2666.0	2590.4	2566.0
10°	2505.9	2558.2	2634.9	2693.8	2753.9	2801.7	2811.7	2726.1	2583.8	2404.8	2334.7
12.5°	2513.7	2584.9	2658.3	2677.2	2671.6	2690.5	2681.6	2667.1	2573.8	2345.8	2229.1
15°	2440.3	2524.8	2576.0	2566.0	2548.2	2531.5	2508.2	2471.5	2438.1	2278.0	2149.1
17.5°	2271.4	2358.1	2400.3	2403.7	2403.7	2399.2	2342.5	2329.2	2324.7	2246.9	2168.0
20°	2302.5	2350.3	2331.4	2300.3	2309.2	2339.2	2305.8	2299.2	2324.7	2359.2	2344.7
22.5°	2320.3	2303.6	2161.3	2023.4	1992.3	2085.7	2104.6	2179.1	2282.5	2407.0	2488.2
25°	2210.2	2075.7	1821.1	1665.4	1577.6	1664.3	1777.7	1915.6	2070.1	2230.2	2324.7
27.5°	1847.8	1745.5	1563.2	1423.1	1346.4	1359.7	1456.4	1582.1	1725.5	1833.3	1902.2
30°	1391.9	1346.4	1251.9	1204.1	1157.4	1146.2	1187.4	1235.2	1298.6	1311.9	1329.7
32.5°	1025.1	1018.4	1023.9	1008.4	999.5	998.4	986.1	997.3	1003.9	1011.7	996.2
35°	927.2	918.3	902.8	898.3	892.8	895.0	889.4	883.9	888.3	895.0	899.4
37.5°	877.2	863.8	841.6	833.8	833.8	837.2	828.3	826.0	833.8	855.0	866.1
40°	838.3	822.7	797.1	787.1	793.8	802.7	790.5	786.0	804.9	827.2	844.9
42.5°	801.6	789.4	764.9	753.8	759.3	776.0	758.2	754.9	779.4	803.8	824.9
45°	770.5	758.2	736.0	730.4	732.7	748.2	736.0	736.0	759.3	786.0	804.9
47.5°	746.0	730.4	716.0	711.5	713.8	722.7	720.4	720.4	742.7	770.5	789.4
50°	721.5	708.2	689.3	691.5	697.1	709.3	708.2	711.5	733.8	768.2	788.2
52.5°	710.4	690.4	669.3	671.5	688.2	702.6	698.2	701.5	727.1	791.6	820.5
55°	698.2	671.5	647.1	650.4	669.3	690.4	684.9	689.3	719.3	807.1	847.2
57.5°	674.8	643.7	617.0	619.3	647.1	669.3	660.4	666.0	701.5	790.5	832.7
58°	664.8	638.2	612.6	613.7	640.4	664.8	654.8	659.3	696.0	786.0	826.0
60°	622.6	607.0	584.8	585.9	611.5	632.6	627.0	631.5	667.1	753.8	783.8
62.5°	564.8	555.9	550.3	550.3	565.9	585.9	591.5	597.0	629.3	681.5	708.2
65°	502.5	502.5	503.6	503.6	513.6	539.2	542.5	557.0	587.0	612.6	632.6
67.5°	460.3	458.1	460.3	454.7	459.2	474.7	491.4	504.7	535.9	553.7	560.3
70°	405.8	404.7	405.8	398.0	403.6	416.9	428.0	450.3	482.5	495.9	499.2
72.5°	352.4	352.4	354.7	349.1	349.1	363.6	371.3	395.8	425.8	433.6	434.7
75°	296.8	300.2	300.2	292.4	294.6	303.5	313.5	333.5	361.3	366.9	366.9
77.5°	235.7	247.9	247.9	240.1	243.5	244.6	257.9	267.9	289.1	291.3	282.4
80°	171.2	183.4	193.4	186.8	192.3	185.7	193.4	200.1	221.2	211.2	196.8
82.5°	122.3	131.2	139.0	140.1	134.5	122.3	132.3	133.4	143.4	130.1	122.3
85°	67.8	75.6	85.6	81.2	72.3	64.5	67.8	70.0	68.9	65.6	61.1
87.5°	17.8	18.9	21.1	15.6	14.5	12.2	16.7	16.7	18.9	20.0	18.9
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°	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2
2.5°	3601.0	3650.0	3755.6	3835.6	3933.5	4052.4	4192.5	4333.7	4486.0	4533.8	4600.5
5°	2979.6	3101.9	3153.0	3298.6	3443.2	3660.0	3891.2	4159.2	4452.7	4593.9	4729.5
7.5°	2546.0	2611.6	2664.9	2771.7	2945.1	3208.6	3498.8	3833.4	4249.2	4454.9	4653.9
10°	2312.5	2319.2	2384.8	2517.1	2668.3	2900.6	3175.2	3549.9	4013.5	4263.7	4497.1
12.5°	2158.0	2129.0	2200.2	2338.1	2509.3	2723.8	2976.2	3333.1	3843.4	4100.2	4382.6
15°	2022.3	1976.7	2030.1	2171.3	2340.3	2592.7	2863.9	3241.9	3776.7	4075.8	4389.3
17.5°	2025.7	1900.0	1918.9	2037.9	2205.8	2462.6	2791.7	3238.6	3877.9	4222.5	4593.9
20°	2275.8	2074.6	1989.0	2011.2	2173.5	2453.7	2825.0	3394.3	4210.3	4712.8	5109.7
22.5°	2521.5	2400.3	2262.5	2216.9	2305.8	2599.3	3037.4	3762.2	4932.9	5690.1	6407.2
25°	2435.9	2539.3	2504.8	2440.3	2460.4	2703.8	3181.9	4064.7	5494.4	6347.1	7020.9
27.5°	1948.9	2136.8	2174.6	2173.5	2181.3	2381.4	2861.7	3861.2	5564.4	6472.8	7116.5
30°	1369.7	1386.4	1406.4	1445.3	1480.9	1659.9	2239.1	3389.8	5533.3	6529.5	7174.3
32.5°	988.4	1010.6	1038.4	1091.8	1176.3	1404.2	1958.9	3239.7	5697.8	6764.0	7343.3
35°	903.9	929.4	956.1	1017.3	1097.3	1308.6	1847.8	3177.5	5968.0	7144.3	7646.8
37.5°	877.2	906.1	929.4	973.9	1038.4	1239.6	1746.6	3135.2	6244.8	7546.7	8053.7
40°	858.3	891.6	910.5	946.1	990.6	1176.3	1656.5	3101.9	6512.8	7914.7	8380.6
42.5°	841.6	876.1	900.5	926.1	962.8	1119.6	1576.5	3068.5	6745.1	8271.6	8706.3
45°	821.6	865.0	896.1	916.1	948.3	1071.8	1515.3	3041.8	7009.7	8588.5	9035.4
47.5°	804.9	852.7	891.6	915.0	927.2	1038.4	1466.4	3078.5	7327.7	8919.8	9341.1
50°	806.0	851.6	900.5	937.2	905.0	1010.6	1436.4	3224.1	7741.3	9313.3	9582.4
52.5°	841.6	897.2	936.1	945.0	873.9	977.3	1420.8	3478.7	8230.5	9661.3	9825.9
55°	881.6	939.5	981.7	976.1	857.2	935.0	1417.5	3750.0	8766.3	10067.1	10142.7
57.5°	867.2	951.7	1016.2	987.3	858.3	893.9	1403.1	3969.0	9214.4	10370.6	10456.2
58°	862.7	947.2	1020.6	985.0	855.0	881.6	1399.7	3987.9	9276.7	10391.8	10500.7
60°	819.4	908.3	1017.3	968.4	836.1	848.3	1363.0	4049.1	9260.0	10282.8	10527.4
62.5°	740.4	813.8	940.6	887.2	778.2	803.8	1280.8	3973.5	8808.6	9758.1	10137.2
65°	651.5	706.0	790.5	780.5	696.0	758.2	1168.5	3674.4	7904.7	8906.4	9305.6
67.5°	584.8	629.3	682.6	668.2	625.9	697.1	1047.3	3168.6	6890.8	7883.6	8386.1
70°	517.0	551.4	578.1	568.1	554.8	637.0	939.5	2571.5	5919.1	6911.9	7398.9
72.5°	448.0	480.3	502.5	488.1	480.3	573.7	851.6	1995.6	4675.0	5702.3	6328.2
75°	374.7	406.9	422.5	405.8	401.4	505.9	721.5	1490.9	3507.7	4396.0	4936.3
77.5°	290.2	324.6	344.7	339.1	341.3	415.8	582.6	1020.6	2508.2	2996.2	3565.5
80°	203.5	241.3	254.6	249.0	264.6	316.9	411.4	648.2	1729.9	1944.5	2345.8
82.5°	125.6	161.2	163.4	169.0	180.1	234.6	310.2	394.7	1086.2	1122.9	1414.2
85°	63.4	76.7	82.3	91.2	101.2	143.4	176.8	244.6	699.3	529.2	790.5
87.5°	21.1	22.2	26.7	33.4	41.1	58.9	75.6	100.1	173.4	95.6	244.6
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: P458818

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2	4229.2
2.5°	4735.1	4829.6	4898.5	4961.9	4900.7	4895.1	4835.1	4738.4	4698.4	4698.4
5°	5014.1	5235.4	5414.3	5528.9	5479.9	5362.1	5167.5	4919.6	4786.2	4762.8
7.5°	5090.8	5527.7	5860.2	5978.0	5895.7	5635.6	5263.1	4845.1	4653.9	4611.6
10°	5044.1	5612.2	6100.3	6287.1	6172.6	5779.0	5270.9	4758.4	4522.7	4473.8
12.5°	4995.2	5623.4	6144.8	6414.9	6340.5	5894.6	5327.6	4701.7	4429.3	4359.3
15°	5030.8	5627.8	6090.3	6369.4	6417.2	6033.6	5421.0	4742.8	4410.4	4335.9
17.5°	5255.4	5712.3	6012.5	6238.2	6406.0	6222.6	5686.7	4939.6	4579.4	4487.1
20°	5724.5	5914.6	6057.0	6231.5	6501.7	6608.4	6230.4	5479.9	5054.1	4973.0
22.5°	7083.1	7048.7	6757.4	6754.0	7145.4	7573.4	7547.8	6578.4	5938.0	5871.3
25°	7592.3	7432.2	7010.9	6908.6	7080.9	7741.3	7645.7	6803.0	6211.5	6049.2
27.5°	7393.3	6996.4	6719.6	6696.2	6639.5	7263.2	7493.4	6894.1	6307.1	6149.2
30°	7381.1	6797.4	6401.6	6448.3	6502.8	7098.7	7577.9	7179.8	6551.7	6382.7
32.5°	7411.1	6825.2	6425.0	6433.8	6596.2	7123.1	7671.3	7491.1	6873.0	6704.0
35°	7532.3	6983.1	6573.9	6552.8	6806.3	7283.2	7830.2	7980.3	7312.1	7119.8
37.5°	7728.0	7297.7	6846.3	6840.8	7208.8	7572.3	8028.1	8474.0	7749.1	7542.3
40°	8015.9	7665.7	7331.0	7301.0	7755.7	8042.6	8285.0	8999.8	8257.2	7991.4
42.5°	8363.9	8107.1	7970.3	8089.3	8526.2	8570.7	8685.2	9485.7	8689.6	8380.6
45°	8686.3	8674.1	8864.2	9179.9	9434.5	9167.7	9103.2	9811.4	9025.4	8689.6
47.5°	9069.9	9401.2	9974.8	10437.3	10704.2	9862.6	9460.1	10023.8	9270.0	8960.9
50°	9459.0	10271.7	11187.8	11832.6	11889.3	10617.5	9705.8	10223.9	9492.3	9171.0
52.5°	9868.1	10966.6	12186.2	12935.5	12825.4	11274.5	9943.7	10359.5	9721.4	9439.0
55°	10223.9	11392.4	12744.3	13463.6	13302.4	11674.8	10200.5	10506.3	10048.2	9810.3
57.5°	10422.9	11427.9	12605.3	13233.5	13058.9	11596.9	10318.4	10615.2	10257.2	10070.5
58°	10451.8	11380.1	12481.9	13100.0	12922.2	11531.3	10317.3	10610.8	10270.6	10082.7
60°	10426.2	11069.9	12022.7	12573.1	12386.3	11120.0	10275.0	10527.4	10101.6	9942.6
62.5°	10189.4	10531.8	11230.0	11630.3	11576.9	10477.4	10101.6	10212.8	9586.8	9433.4
65°	9878.1	9798.1	10215.0	10498.5	10538.5	9996.0	9929.3	9532.4	8926.4	8709.6
67.5°	9500.1	8966.5	8965.4	9126.6	9193.3	9255.5	9570.2	8793.0	7974.8	7745.7
70°	8858.6	7684.6	7331.0	7521.2	7465.6	7991.4	8928.7	7754.6	6827.4	6559.5
72.5°	7682.4	6098.1	5532.2	5776.8	5636.7	6267.1	7812.4	6381.6	5645.6	5316.5
75°	6227.1	4561.6	3977.9	4202.5	4115.8	4754.0	6500.6	4635.0	4049.1	3923.5
77.5°	4835.1	3305.3	2966.2	2935.1	2999.6	3537.7	4768.4	3129.6	2669.4	2583.8
80°	3106.3	2365.9	2385.9	2345.8	2379.2	2230.2	2895.1	1996.7	1807.7	1738.8
82.5°	2044.6	1648.8	1965.6	1814.4	1723.3	1499.8	1898.9	1307.4	1109.6	1071.8
85°	1393.1	1214.1	1105.1	844.9	995.0	1155.1	1424.2	703.8	558.1	505.9
87.5°	629.3	422.5	310.2	191.2	302.4	349.1	691.5	82.3	63.4	65.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)