

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: P458265

Luminaire Tested: **GALN-SA9C-830-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43656 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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

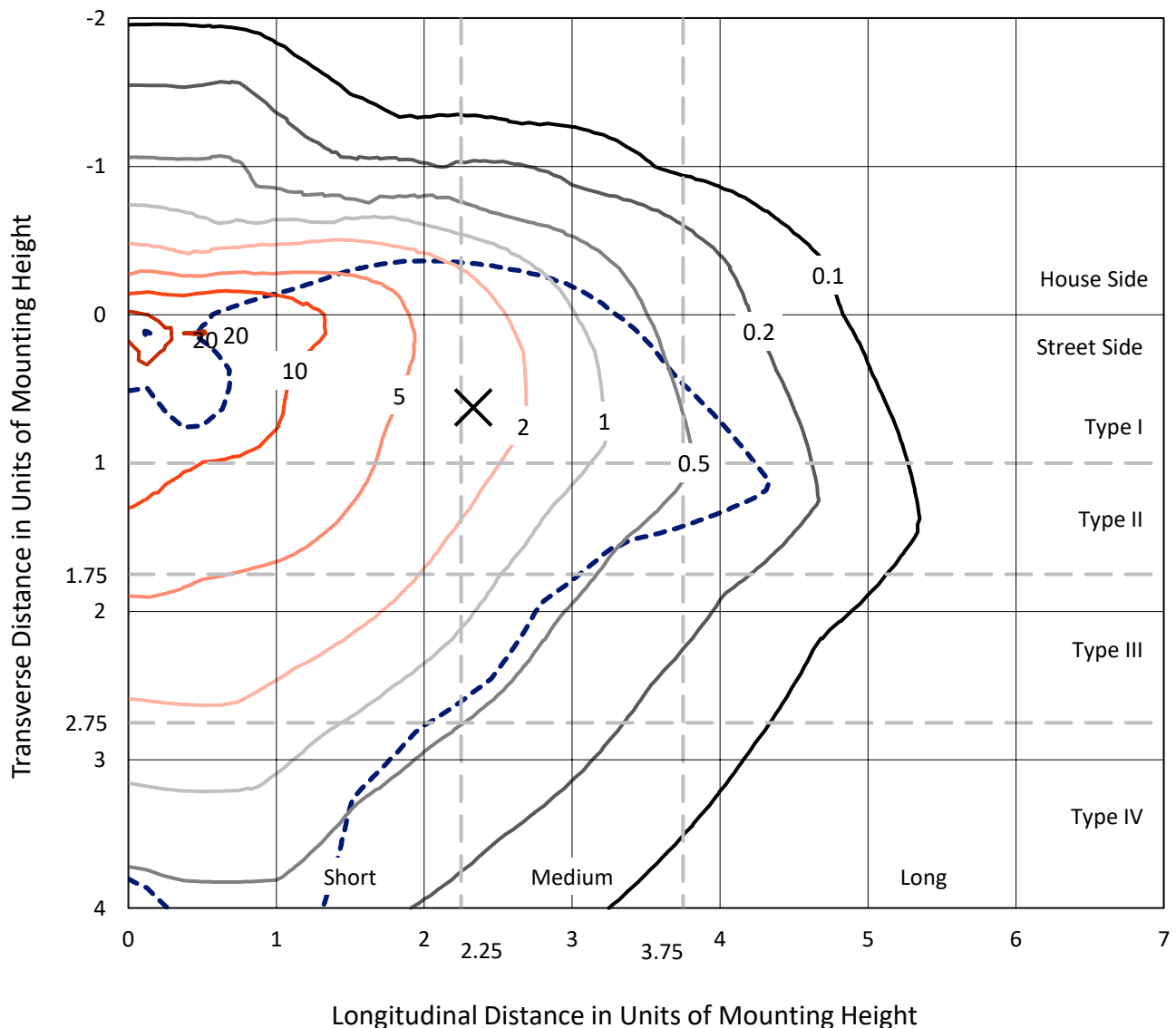


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Iso-Footcandle Lines of Horizontal Illumination

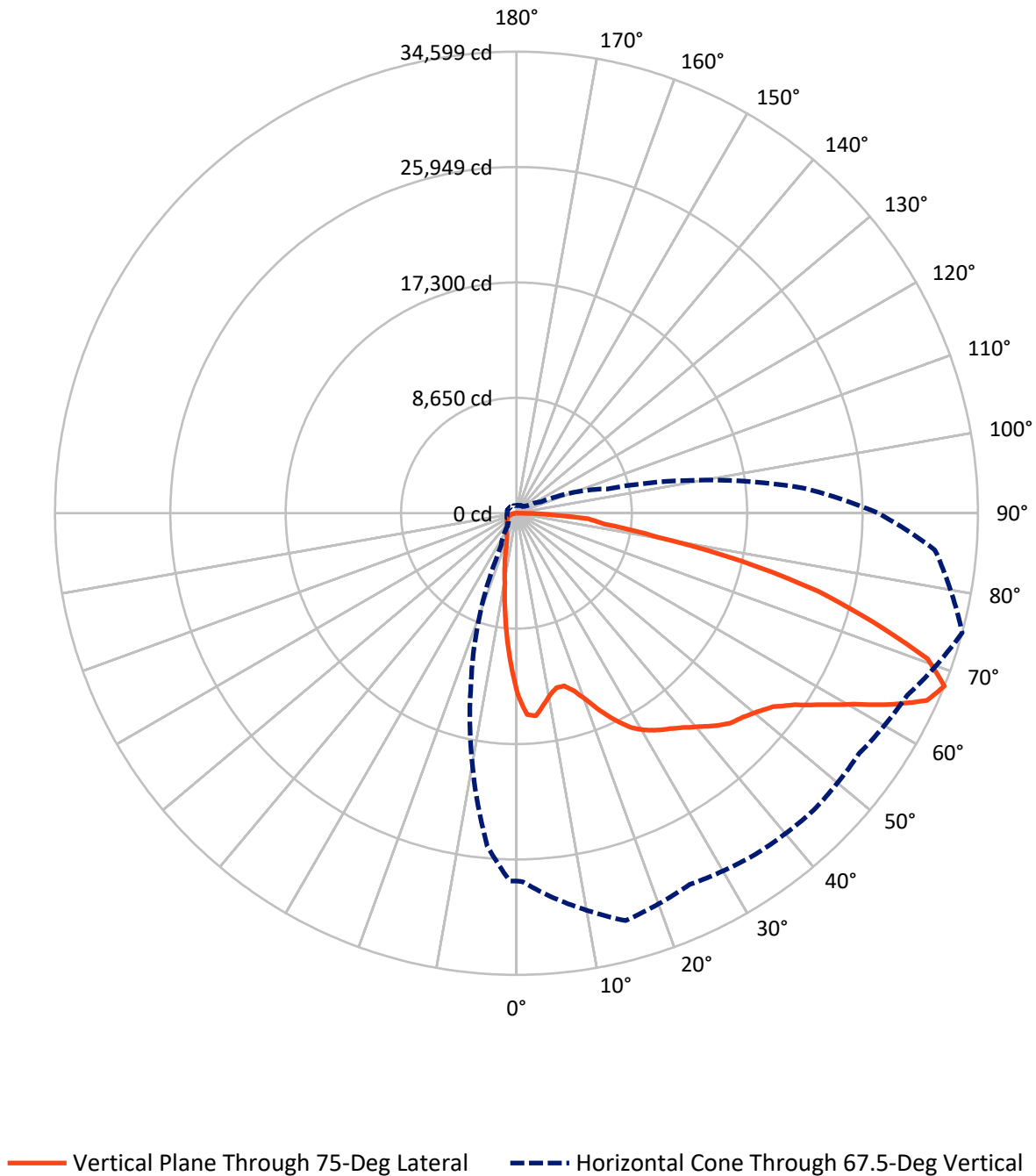
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7378.8	0.0	7378.8
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	36277.2	0.0	36277.2
	% Fixture	83.1	0.0	83.1
Total	Lumens	43656.0	0.0	43656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.5	2.4
10°-20°	2157.5	4.9
20°-30°	3104.6	7.1
30°-40°	4471.5	10.2
40°-50°	6281.3	14.4
50°-60°	8760.2	20.1
60°-70°	10415.3	23.9
70°-80°	6134.0	14.1
80°-90°	1297.1	3.0
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°	43656.0	100.0
0°-180°	43656.0	100.0

Coefficient of Utilization



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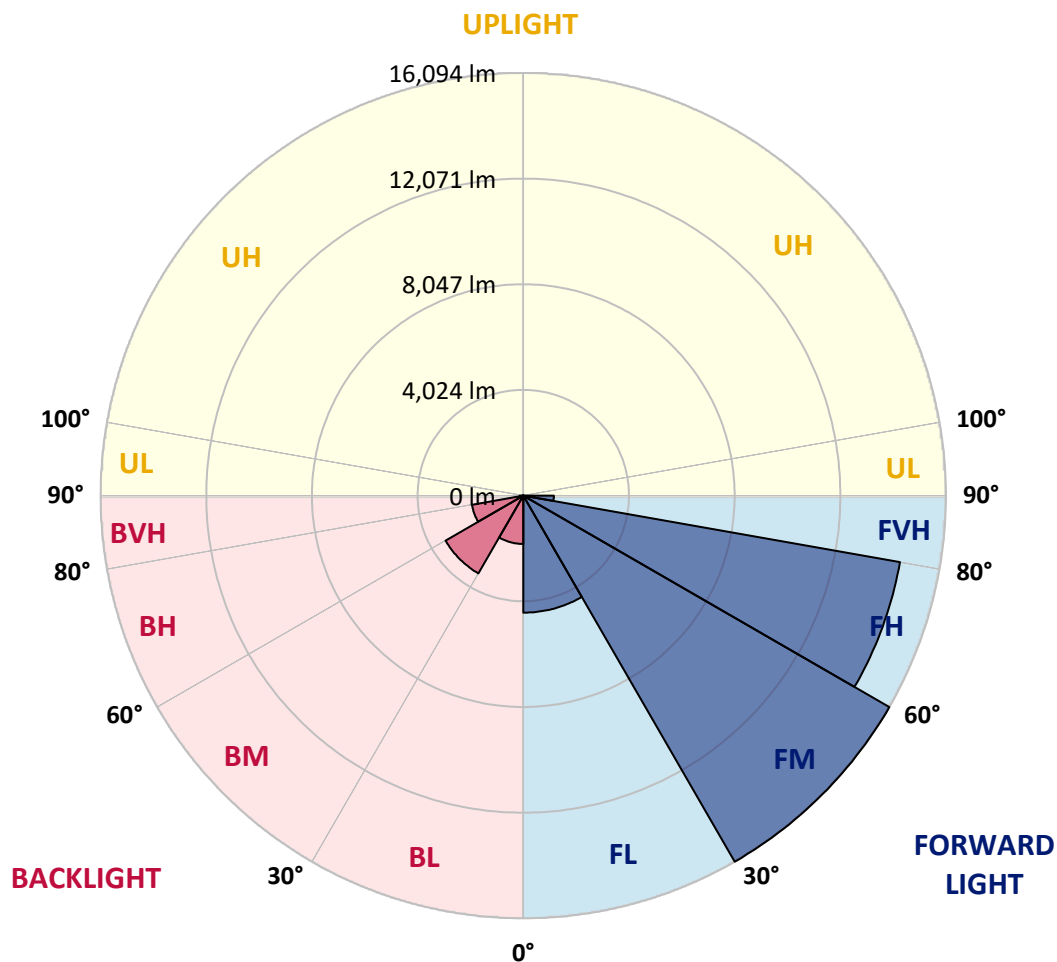
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4456.1	10.2			
FM	(30°-60°)	16094.4	36.9			
FH	(60°-80°)	14563.8	33.4			G5
FVH	(80°-90°)	1163.0	2.7			G5
BL	(0°-30°)	1840.5	4.2	B3/2500		
BM	(30°-60°)	3418.6	7.8	B3/5000		
BH	(60°-80°)	1985.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	134.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2
2.5°	14705.8	14725.4	14851.4	15218.1	15470.0	15562.4	15626.8	15506.4	15388.9	15103.3	14672.2
5°	14661.0	14775.8	15103.3	15926.4	16575.8	16855.8	16939.8	16578.6	15982.3	15248.9	14367.0
7.5°	13804.3	13958.3	14462.2	15842.4	16987.4	17642.5	17555.7	16903.4	15828.4	14521.0	13289.2
10°	12788.1	12958.9	13566.4	15234.9	16710.2	17611.7	17611.7	16816.6	15388.9	13835.1	12415.8
12.5°	11981.9	12161.0	12855.3	14610.6	16133.5	16987.4	17130.1	16447.1	15072.5	13401.2	11841.9
15°	11715.9	11889.5	12636.9	14232.7	15523.2	16043.9	16091.5	15867.6	14918.5	13432.0	11816.7
17.5°	12046.3	12270.2	13026.1	14344.6	14963.3	14994.1	15030.5	15206.9	14935.3	13994.7	12326.2
20°	13000.9	13241.6	14031.1	14705.8	14473.4	14154.3	14173.9	14627.4	15134.1	14924.1	13544.0
22.5°	14378.2	14588.2	15397.3	15341.3	14266.3	13608.4	13471.2	14103.9	15428.0	16083.1	14840.2
25°	15864.8	16111.1	17040.6	16284.7	14325.0	13283.6	13196.8	13795.9	15733.2	17166.5	16337.9
27.5°	17566.9	17807.6	18541.1	17236.5	14633.0	13258.4	13154.9	13767.9	16007.5	18168.8	17768.4
30°	18832.2	19053.4	19551.7	18037.2	15010.9	13426.4	13297.6	13989.1	16242.7	18854.6	19162.6
32.5°	19826.1	20055.6	20327.2	18535.5	15509.2	13731.6	13493.6	14392.2	16550.6	19378.1	20195.6
35°	20861.9	21133.4	21113.8	18977.8	15974.0	14084.3	13851.9	14974.5	17035.0	19834.5	21505.8
37.5°	22174.8	22284.0	22144.1	19375.3	16531.1	14719.8	14591.0	15839.6	17723.6	20386.0	23037.1
40°	23507.4	23725.8	23006.3	19856.9	17208.5	15915.2	15901.2	17118.9	18541.1	21032.6	24520.8
42.5°	24649.6	24834.4	23812.6	20276.8	18028.8	17373.7	17480.1	18835.0	19613.3	21782.9	25713.4
45°	25509.1	25674.2	24557.2	20682.7	19109.4	19059.0	19686.1	20674.3	20965.5	22457.6	26413.3
47.5°	26239.7	26399.3	25075.1	21298.6	20444.8	21071.8	22163.6	22592.0	22121.7	22843.9	27197.1
50°	26855.6	26903.2	25430.7	22032.1	22102.1	23538.2	24596.4	24873.6	23263.9	23398.2	27877.4
52.5°	27496.7	27435.1	26043.8	22955.9	23893.7	25878.6	26648.4	26936.8	24358.5	24081.3	28868.5
55°	28932.8	28991.6	27418.3	24120.5	25705.0	28177.0	29190.4	28913.2	25570.6	25338.3	30128.2
57.5°	30668.5	30618.1	29352.8	25943.0	27549.9	30315.8	31071.7	30626.5	27188.8	27065.6	31404.8
60°	31343.2	31410.4	30970.9	27902.6	29369.6	32188.7	32961.3	32269.8	29128.8	29072.8	32367.8
62.5°	30665.7	31043.7	31340.4	29646.7	30920.5	33566.0	34333.1	33543.6	31152.8	31558.8	33042.5
65°	29316.4	29397.6	30408.2	31124.8	31668.0	33792.8	34193.1	33773.2	32843.7	33823.6	33011.7
67.5°	27563.9	27633.9	28818.1	31609.2	30704.9	31217.2	31497.2	31374.0	32320.2	34599.0	31491.6
70°	25895.4	25839.4	27090.8	30374.6	26729.6	25951.4	26183.7	25797.4	27888.6	32703.8	28510.1
72.5°	22648.0	22849.5	24193.3	26942.4	21164.2	19898.9	20405.6	19406.1	21449.8	28009.0	23140.7
75°	17740.4	17788.0	20030.4	22611.6	15965.6	13969.5	14655.4	14238.3	16430.3	23364.6	15979.6
77.5°	12284.2	12177.8	14588.2	17270.1	11385.6	10226.6	10237.8	10039.0	11472.4	17202.9	10856.5
80°	7802.2	7639.8	9132.0	10668.9	7824.6	8370.5	8096.2	8087.8	7469.1	10612.9	6564.8
82.5°	4216.0	4395.2	5769.8	6688.0	5613.0	6469.6	5929.3	5755.8	5125.9	6643.2	4199.3
85°	1920.5	2088.4	3076.7	4549.2	4263.6	4311.2	2880.7	3398.6	4241.2	5394.6	2242.4
87.5°	187.6	240.8	635.5	2147.2	1455.7	1147.8	428.3	825.9	1066.6	1917.7	179.2
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°	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2
2.5°	14495.8	14350.2	13854.7	13446.0	13012.1	12681.7	12250.6	11962.3	11763.5	11464.0	11427.6
5°	13829.5	13474.0	12611.8	11732.7	10974.0	10402.9	9823.4	9291.5	8978.0	8880.0	8754.0
7.5°	12706.9	12107.8	10999.2	9991.4	9120.8	8269.7	7614.6	7149.9	6839.2	6657.2	6438.9
10°	11783.1	11088.8	9739.5	8504.9	7788.2	7259.1	6682.4	6184.1	5800.6	5473.0	5293.9
12.5°	11161.6	10377.7	8860.4	7858.2	7303.9	6741.2	6066.5	5506.6	4941.1	4568.8	4409.2
15°	10974.0	10145.4	8588.9	7536.3	6741.2	6004.9	5249.1	4518.4	3958.5	3605.8	3488.2
17.5°	11433.2	10430.9	8586.1	7107.9	6080.5	5201.5	4232.8	3547.0	2973.1	2709.9	2625.9
20°	12289.8	10979.6	8611.3	6685.2	5363.8	4126.5	3079.5	2516.8	2242.4	2130.4	2088.4
22.5°	13485.2	11816.7	8686.9	6268.1	4580.0	3169.0	2306.8	2021.2	1923.3	1903.7	1895.3
25°	14957.7	12852.5	8941.6	5892.9	3919.3	2418.8	1928.9	1800.1	1744.1	1724.5	1721.7
27.5°	16312.7	14190.7	9249.6	5571.0	3281.0	2085.6	1744.1	1634.9	1578.9	1576.1	1581.7
30°	17536.1	15310.5	9507.1	5209.9	2796.7	1853.3	1623.7	1514.5	1461.3	1458.5	1475.3
32.5°	18594.3	16231.5	9697.5	4854.3	2527.9	1710.5	1514.5	1397.0	1352.2	1343.8	1352.2
35°	19725.3	17149.7	9610.7	4577.2	2374.0	1592.9	1433.3	1318.6	1265.4	1240.2	1240.2
37.5°	21015.9	18096.0	9462.3	4347.6	2304.0	1494.9	1363.4	1251.4	1198.2	1173.0	1170.2
40°	22424.0	19042.2	9257.9	4143.3	2234.0	1436.1	1315.8	1198.2	1133.8	1108.6	1103.0
42.5°	23667.0	19851.3	9090.0	4008.9	2119.2	1447.3	1273.8	1159.0	1077.8	1044.2	1041.4
45°	24747.6	20665.9	9059.2	3930.5	2024.0	1430.5	1262.6	1128.2	1033.0	996.6	991.0
47.5°	25593.0	21514.2	9235.6	3885.7	1920.5	1341.0	1335.4	1108.6	993.8	954.6	949.0
50°	26623.3	22717.9	9638.7	3793.3	1825.3	1257.0	1410.9	1105.8	963.0	912.6	898.6
52.5°	27995.0	24285.7	10184.6	3628.2	1688.1	1178.6	1346.6	1105.8	926.6	876.2	859.4
55°	30069.4	26284.5	10719.3	3395.8	1494.9	1075.0	1215.0	1072.2	873.4	828.7	817.5
57.5°	31444.0	27745.9	11060.8	3073.9	1254.2	999.4	1047.0	1019.0	820.3	772.7	772.7
60°	31514.0	28137.8	10898.5	2667.9	1103.0	929.4	909.8	1027.4	772.7	722.3	716.7
62.5°	30707.7	27177.6	10053.0	2304.0	1021.8	853.8	823.1	901.4	725.1	674.7	666.3
65°	29447.9	24728.0	8586.1	2130.4	977.0	786.7	741.9	739.1	674.7	627.1	615.9
67.5°	27132.8	21609.3	7054.7	2029.6	954.6	711.1	669.1	655.1	615.9	576.7	571.1
70°	23720.2	18098.8	5657.8	1987.6	943.4	632.7	599.1	582.3	548.7	517.9	515.1
72.5°	18454.3	14680.6	4669.6	1959.7	937.8	559.9	523.5	501.1	481.5	453.5	453.5
75°	13255.6	10800.5	3563.8	1766.5	867.8	481.5	442.3	428.3	400.3	377.9	383.5
77.5°	8356.5	7273.1	2346.0	1299.0	671.9	386.3	352.7	344.3	321.9	291.1	310.7
80°	5643.8	5114.7	1369.0	817.5	422.7	282.7	271.6	268.8	243.6	210.0	212.8
82.5°	3840.9	3768.1	711.1	464.7	243.6	165.2	159.6	165.2	137.2	112.0	112.0
85°	1500.5	2049.2	335.9	182.0	78.4	25.2	36.4	39.2	22.4	11.2	14.0
87.5°	28.0	210.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2
2.5°	11371.6	11346.4	11388.4	11209.2	11245.6	11312.8	11346.4	11366.0	11643.1	11578.7	11755.1
5°	8871.6	8846.4	9008.8	9031.2	9115.2	9098.4	9179.6	9199.2	9299.9	9336.3	9582.7
7.5°	6452.8	6562.0	6746.8	6842.0	6984.8	7029.5	6987.6	7091.1	6881.2	7032.3	7077.1
10°	5184.7	5053.1	4974.7	5193.1	5221.1	5428.2	5344.2	5277.1	5400.2	5405.8	5523.4
12.5°	4316.8	4034.1	3846.5	3908.1	3975.3	4064.9	4078.9	4213.2	4302.8	4386.8	4456.8
15°	3384.6	3286.6	3115.8	3031.9	3127.0	3163.4	3250.2	3362.2	3457.4	3482.6	3577.8
17.5°	2597.9	2614.7	2586.7	2536.3	2595.1	2623.1	2628.7	2631.5	2656.7	2639.9	2779.9
20°	2091.2	2150.0	2220.0	2231.2	2250.8	2264.8	2239.6	2144.4	2147.2	2206.0	2250.8
22.5°	1892.5	1903.7	1982.0	2007.2	2068.8	2043.6	1970.8	1926.1	1920.5	1934.5	1956.9
25°	1735.7	1752.5	1808.5	1847.7	1895.3	1850.5	1797.3	1755.3	1749.7	1763.7	1786.1
27.5°	1595.7	1620.9	1671.3	1710.5	1755.3	1713.3	1662.9	1626.5	1623.7	1620.9	1634.9
30°	1483.7	1511.7	1548.1	1592.9	1623.7	1587.3	1539.7	1520.1	1517.3	1511.7	1517.3
32.5°	1371.8	1416.5	1452.9	1475.3	1506.1	1478.1	1441.7	1430.5	1410.9	1394.2	1385.8
35°	1245.8	1293.4	1349.4	1377.4	1408.1	1380.2	1355.0	1307.4	1273.8	1271.0	1276.6
37.5°	1173.0	1192.6	1237.4	1285.0	1315.8	1301.8	1254.2	1206.6	1198.2	1198.2	1203.8
40°	1108.6	1117.0	1136.6	1198.2	1254.2	1212.2	1153.4	1139.4	1139.4	1136.6	1139.4
42.5°	1044.2	1052.6	1052.6	1100.2	1189.8	1122.6	1077.8	1077.8	1077.8	1080.6	1089.0
45°	985.4	988.2	985.4	1019.0	1103.0	1047.0	1016.2	1024.6	1030.2	1035.8	1041.4
47.5°	935.0	937.8	935.0	963.0	1005.0	982.6	965.8	977.0	988.2	996.6	1002.2
50°	890.2	887.4	893.0	909.8	929.4	935.0	923.8	940.6	946.2	957.4	971.4
52.5°	851.0	848.2	853.8	862.2	890.2	890.2	890.2	904.2	915.4	926.6	946.2
55°	806.3	809.1	817.5	828.7	865.0	859.4	862.2	873.4	884.6	901.4	912.6
57.5°	764.3	769.9	781.1	797.9	834.3	831.5	834.3	839.9	853.8	862.2	873.4
60°	716.7	727.9	741.9	753.1	789.5	786.7	800.7	811.9	820.3	820.3	825.9
62.5°	669.1	685.9	699.9	708.3	747.5	750.3	769.9	778.3	783.9	778.3	786.7
65°	621.5	646.7	652.3	663.5	702.7	705.5	727.9	747.5	741.9	736.3	750.3
67.5°	573.9	604.7	601.9	615.9	655.1	660.7	680.3	713.9	702.7	697.1	708.3
70°	520.7	543.1	545.9	554.3	607.5	599.1	629.9	660.7	652.3	655.1	655.1
72.5°	461.9	481.5	481.5	498.3	554.3	540.3	565.5	599.1	599.1	596.3	596.3
75°	391.9	403.1	414.3	439.5	498.3	481.5	498.3	529.1	534.7	529.1	529.1
77.5°	316.3	333.1	338.7	372.3	414.3	411.5	428.3	442.3	453.5	447.9	447.9
80°	224.0	240.8	263.2	299.5	324.7	333.1	341.5	352.7	358.3	358.3	363.9
82.5°	126.0	151.2	170.8	207.2	218.4	260.4	257.6	266.0	257.6	226.8	252.0
85°	28.0	53.2	75.6	95.2	109.2	151.2	159.6	179.2	148.4	137.2	137.2
87.5°	0.0	0.0	0.0	0.0	0.0	22.4	44.8	61.6	53.2	44.8	44.8
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: P458265

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2	13639.2
2.5°	11903.5	12147.0	12441.0	12947.7	13303.2	13686.8	14073.1	14484.6	14593.8	14705.8
5°	9649.9	10128.6	10388.9	11069.2	11783.1	12690.1	13432.0	14243.9	14582.6	14661.0
7.5°	7309.5	7634.2	8317.3	9006.0	9890.6	10842.5	11979.1	13244.4	13639.2	13804.3
10°	5795.0	6237.3	6836.4	7575.4	8350.9	9375.5	10657.7	12135.8	12695.7	12788.1
12.5°	4932.7	5425.4	6077.7	6858.8	7592.2	8364.9	9658.3	11184.0	11783.1	11981.9
15°	3944.5	4540.8	5293.9	6116.9	6914.8	7760.2	9070.4	10792.1	11483.6	11715.9
17.5°	3099.0	3580.6	4395.2	5288.3	6234.5	7303.9	8947.2	10979.6	11830.7	12046.3
20°	2371.2	2715.5	3401.4	4344.8	5453.4	6853.2	8978.0	11687.9	12706.9	13000.9
22.5°	2049.2	2225.6	2642.7	3541.4	4781.5	6461.2	9104.0	12659.3	13888.3	14378.2
25°	1856.1	1948.5	2183.6	2771.5	4140.5	6080.5	9392.3	13966.7	15540.0	15864.8
27.5°	1690.9	1758.1	1903.7	2326.4	3558.2	5727.8	9728.3	15416.9	17082.6	17566.9
30°	1534.1	1623.7	1760.9	2066.0	3185.8	5405.8	10151.0	16592.6	18381.5	18832.2
32.5°	1413.7	1503.3	1629.3	1884.1	2869.5	5067.1	10402.9	17625.7	19442.5	19826.1
35°	1315.8	1391.4	1522.9	1738.5	2628.7	4809.5	10352.6	18445.9	20469.9	20861.9
37.5°	1245.8	1310.2	1441.7	1601.3	2446.8	4540.8	10327.4	19529.3	21721.3	22174.8
40°	1181.4	1248.6	1369.0	1511.7	2264.8	4224.4	10341.4	20604.3	23053.9	23507.4
42.5°	1131.0	1206.6	1304.6	1486.5	2077.2	3969.7	10341.4	21539.4	24212.9	24649.6
45°	1089.0	1170.2	1265.4	1483.7	1928.9	3776.5	10271.4	22342.8	25136.7	25509.1
47.5°	1052.6	1142.2	1279.4	1433.3	1892.5	3636.6	10209.8	22986.7	25889.8	26239.7
50°	1027.4	1133.8	1360.6	1374.6	1903.7	3594.6	10506.5	23798.6	26553.3	26855.6
52.5°	1007.8	1136.6	1357.8	1287.8	1884.1	3622.6	11125.2	25066.7	27474.3	27496.7
55°	968.6	1133.8	1287.8	1189.8	1802.9	3670.1	11920.3	26908.8	28916.0	28932.8
57.5°	929.4	1103.0	1195.4	1105.8	1637.7	3670.1	12877.7	28652.9	30654.5	30668.5
60°	890.2	1147.8	1049.8	1033.0	1422.1	3603.0	13888.3	29420.0	31200.4	31343.2
62.5°	851.0	1156.2	937.8	968.6	1265.4	3440.6	14641.4	28571.7	30461.4	30665.7
65°	806.3	932.2	865.0	901.4	1184.2	3169.0	14403.4	27018.0	29072.8	29316.4
67.5°	753.1	789.5	786.7	831.5	1156.2	2768.7	13149.3	25052.7	27577.9	27563.9
70°	688.7	708.3	716.7	764.3	1103.0	2458.0	10957.2	22502.4	25581.8	25895.4
72.5°	621.5	638.3	646.7	688.7	1049.8	2281.6	8504.9	18989.0	22158.0	22648.0
75°	548.7	559.9	571.1	607.5	993.8	2021.2	6058.1	14495.8	16970.6	17740.4
77.5°	473.1	473.1	487.1	523.5	837.1	1668.5	4064.9	10167.8	11497.5	12284.2
80°	383.5	386.3	380.7	419.9	615.9	1142.2	2309.6	6791.6	7651.0	7802.2
82.5°	293.9	285.5	288.3	307.9	459.1	778.3	1231.8	4218.8	4300.0	4216.0
85°	184.8	184.8	179.2	201.6	293.9	405.9	671.9	2583.9	2018.4	1920.5
87.5°	75.6	61.6	70.0	81.2	140.0	165.2	263.2	531.9	204.4	187.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)