

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: P648384

Luminaire Tested: **GALN-SA4B-835-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13126.2 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 164
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

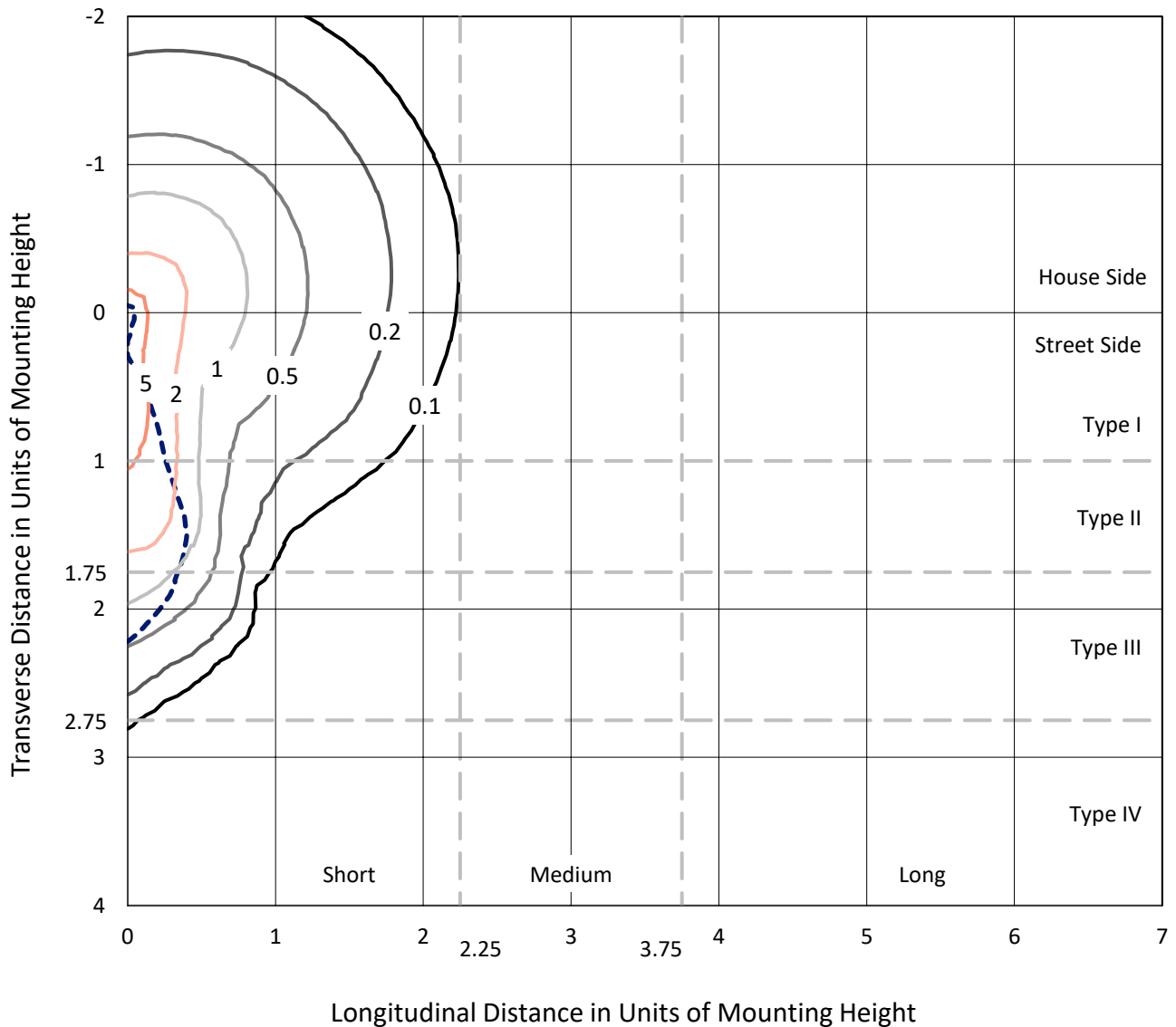




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Iso-Footcandle Lines of Horizontal Illumination

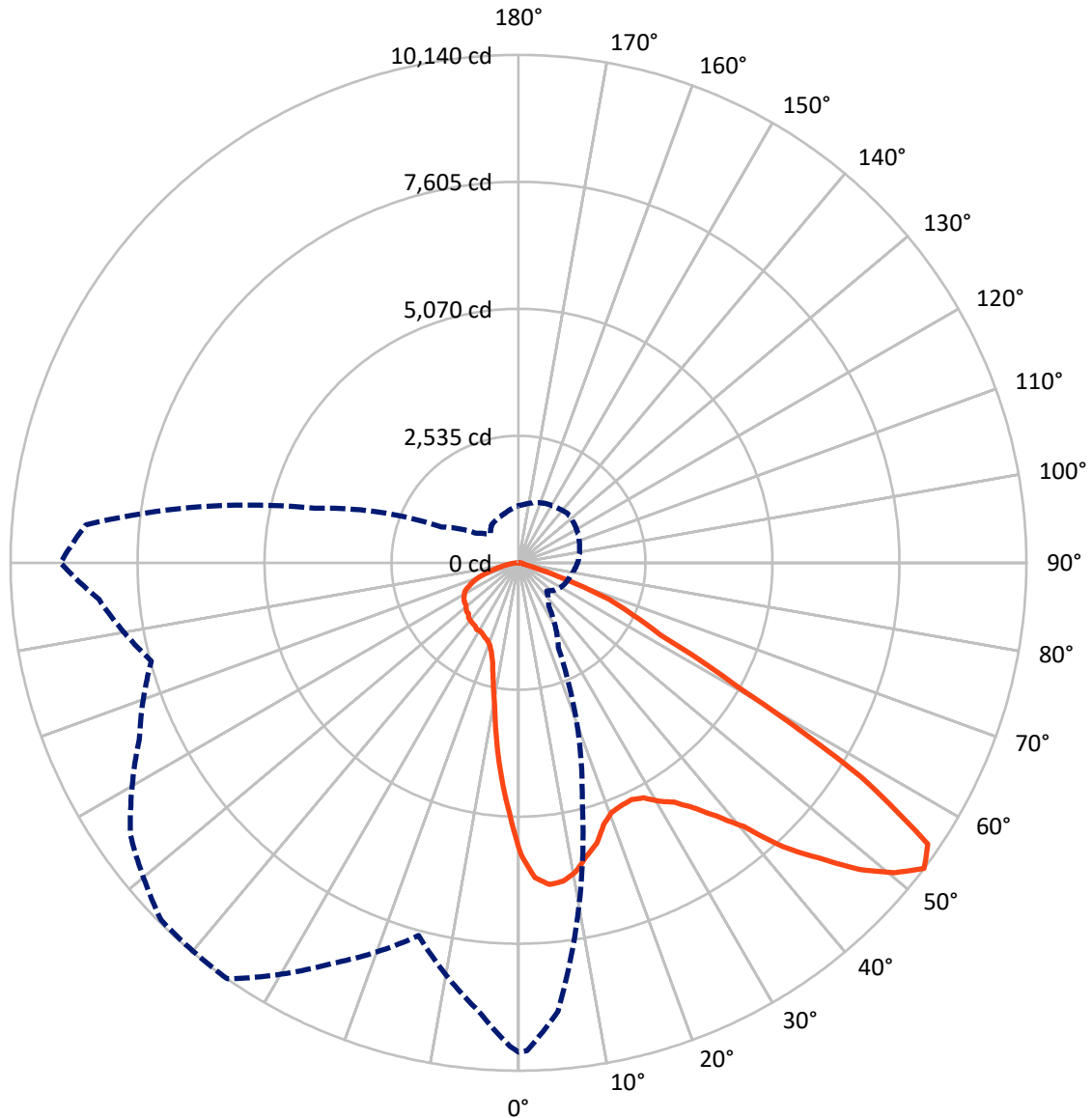
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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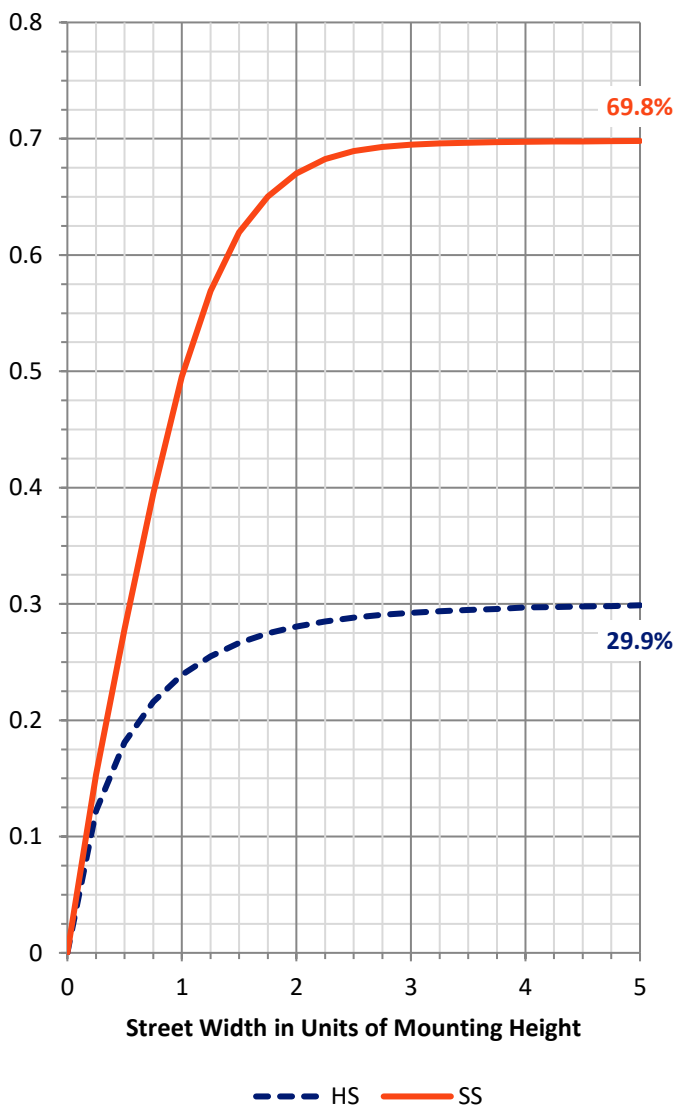
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3957.0	0.0	3957.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	9169.2	0.0	9169.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	13126.2	0.0	13126.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.4	3.4
10°-20°	963.5	7.3
20°-30°	1455.7	11.1
30°-40°	2103.6	16.0
40°-50°	2799.5	21.3
50°-60°	3131.3	23.9
60°-70°	1764.8	13.4
70°-80°	393.4	3.0
80°-90°	70.0	0.5
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°	13126.2	100.0
0°-180°	13126.2	100.0

Coefficient of Utilization

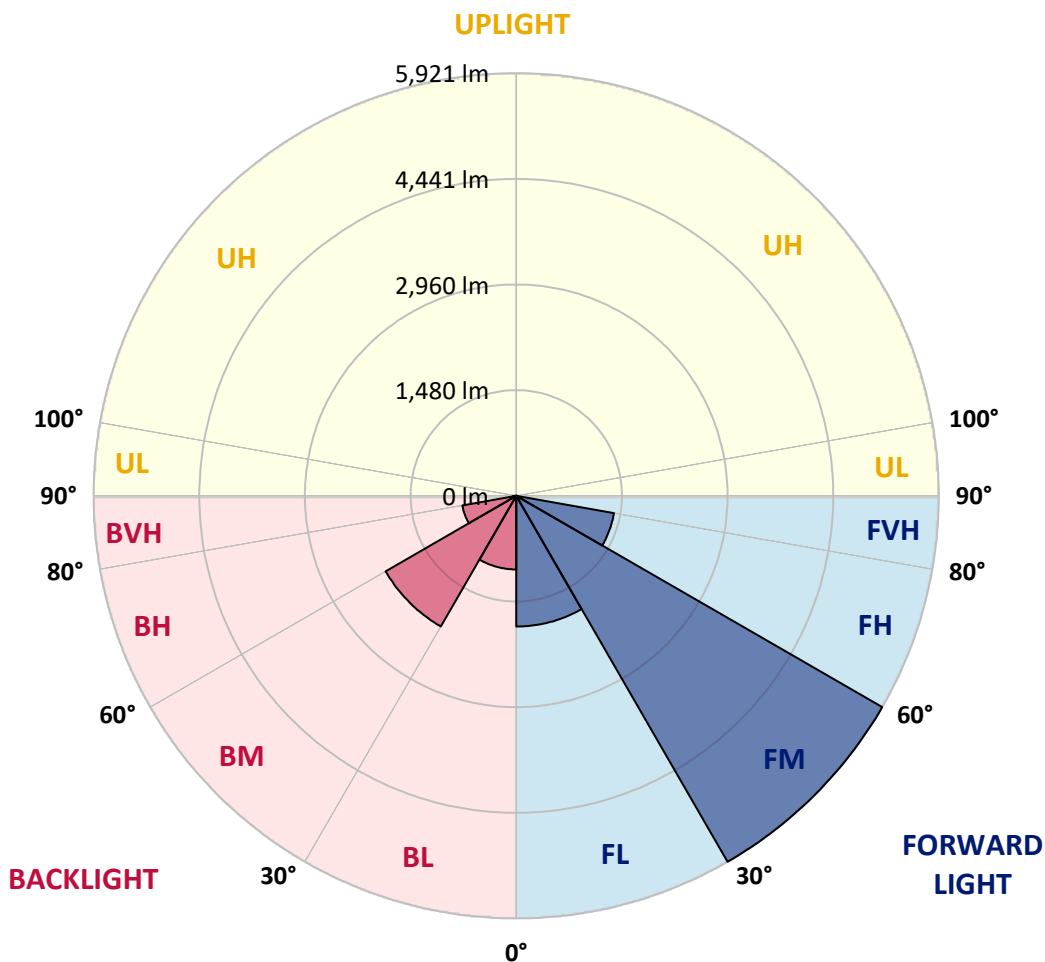


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1831.7	14.0			
FM (30°-60°)	5920.9	45.1			
FH (60°-80°)	1391.2	10.6			G1/1800
FVH (80°-90°)	25.4	0.2			G1/100
BL (0°-30°)	1031.9	7.9	B3/2500		
BM (30°-60°)	2113.4	16.1	B2/2500		
BH (60°-80°)	767.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	44.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5
2.5°	5922.5	6017.7	5914.9	5732.3	5602.9	5484.9	5361.3	5336.5	5174.8	5146.3	5028.3
5°	5585.8	5564.9	5439.3	5199.6	4935.1	4695.4	4518.5	4347.2	4231.2	4096.1	4086.6
7.5°	5176.7	5055.0	4982.7	4619.3	4292.1	3915.4	3753.6	3493.0	3411.2	3289.5	3226.7
10°	4811.5	4722.0	4552.7	4189.4	3732.7	3483.5	3310.4	3169.6	3074.4	2948.9	2791.0
12.5°	4630.7	4594.6	4404.3	3841.2	3502.5	3236.1	3114.4	2977.4	2815.7	2614.0	2536.1
15°	4663.1	4541.3	4396.7	3774.6	3306.5	3049.7	2855.7	2684.4	2477.1	2285.0	2172.7
17.5°	4904.7	4811.5	4522.3	3816.4	3232.4	2861.4	2509.4	2256.4	2069.9	1896.8	1818.8
20°	5380.3	5245.2	4919.9	3869.7	3072.6	2598.9	2195.5	1883.5	1683.7	1592.4	1565.8
22.5°	5907.3	5827.4	5308.0	3989.5	2945.1	2355.3	1862.5	1550.6	1476.3	1451.6	1501.1
25°	6548.5	6341.0	5911.1	4185.5	2846.1	2147.9	1581.0	1407.8	1369.8	1394.5	1451.6
27.5°	7035.5	6980.3	6333.5	4370.1	2711.1	1898.7	1423.1	1308.9	1320.4	1345.0	1398.4
30°	7613.9	7334.2	6742.5	4497.6	2589.3	1727.5	1312.7	1282.3	1293.7	1335.6	1362.2
32.5°	7962.0	7857.4	6999.3	4689.7	2448.5	1579.1	1227.1	1198.6	1215.7	1278.5	1341.3
35°	8405.3	8197.9	7317.1	4739.2	2349.6	1520.1	1166.3	1145.3	1185.2	1229.0	1299.4
37.5°	8922.8	8780.1	7756.6	4704.9	2296.3	1459.2	1114.8	1105.4	1133.9	1194.8	1276.6
40°	9229.1	9185.3	7986.8	4725.9	2212.6	1406.0	1055.9	1067.3	1126.3	1173.9	1253.7
42.5°	9523.9	9238.6	8327.3	4718.2	2159.4	1333.7	1061.6	1048.3	1093.9	1149.1	1225.2
45°	9588.7	9305.2	8407.2	4665.0	2094.7	1263.3	1017.8	1023.5	1078.7	1147.3	1196.7
47.5°	9546.8	9337.5	8555.6	4649.8	2033.8	1213.8	953.1	1021.7	1054.0	1109.2	1179.6
50°	9518.3	9506.9	8681.2	4722.0	1951.9	1135.8	875.2	996.9	1029.3	1084.5	1160.6
52.5°	9769.4	9744.7	8995.1	4912.3	1887.3	1052.1	795.2	934.1	1012.1	1065.4	1139.6
55°	9921.6	9813.2	9533.5	5146.3	1778.8	941.7	740.1	856.1	970.3	1017.8	1093.9
57.5°	8924.7	8850.5	8624.1	4803.9	1596.2	797.2	671.6	776.2	913.2	987.4	1065.4
60°	7425.5	7309.5	6729.2	4082.8	1177.6	620.2	629.8	713.5	898.0	926.5	1017.8
62.5°	7001.3	6714.0	5924.4	3285.6	903.7	532.7	565.0	656.4	818.1	865.6	957.0
65°	5555.3	5342.3	4238.8	2372.4	605.0	462.3	515.6	591.7	705.8	799.1	882.8
67.5°	3477.8	3274.2	2262.1	1122.5	422.4	395.7	460.4	540.3	633.5	717.2	810.5
70°	1816.9	1594.3	1044.4	405.2	291.1	323.5	384.3	460.4	551.7	620.2	692.5
72.5°	677.3	549.8	340.5	175.0	201.7	247.3	312.0	367.1	431.9	515.6	555.5
75°	104.6	89.4	87.5	106.6	136.9	178.8	222.6	277.7	334.8	388.1	414.8
77.5°	49.5	47.5	53.2	70.4	91.3	127.5	161.7	215.0	260.7	294.9	310.1
80°	32.3	30.5	34.2	47.5	68.5	95.1	129.4	165.5	207.3	235.9	232.1
82.5°	19.0	20.9	20.9	32.3	47.5	68.5	93.3	125.6	154.1	178.8	163.6
85°	11.4	9.5	9.5	19.0	32.3	55.2	78.0	53.2	55.2	55.2	62.8
87.5°	3.8	3.8	3.8	1.9	3.8	3.8	5.7	9.5	11.4	13.3	17.1
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°	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5
2.5°	5024.5	5083.5	5062.6	4988.4	5045.5	5055.0	5016.9	5148.2	5173.0	5133.0	5144.4
5°	4073.2	4088.5	4122.7	4195.1	4246.4	4307.3	4307.3	4311.1	4259.8	4389.1	4351.1
7.5°	3173.4	3182.9	3222.8	3376.9	3420.7	3536.7	3586.2	3552.0	3449.3	3405.5	3441.7
10°	2739.6	2684.4	2671.1	2690.2	2789.0	2838.5	2880.4	2869.0	2851.8	2817.6	2779.6
12.5°	2450.4	2410.5	2378.1	2332.5	2338.2	2385.7	2418.1	2391.4	2399.0	2406.7	2418.1
15°	2136.5	2108.0	2090.8	2022.3	2014.7	2047.1	2058.5	2073.8	2102.3	2104.2	2090.8
17.5°	1803.6	1778.8	1816.9	1854.9	1828.3	1830.2	1851.2	1864.5	1856.9	1822.6	1805.5
20°	1575.3	1601.9	1640.0	1676.1	1704.7	1721.7	1729.4	1708.4	1683.7	1613.3	1611.4
22.5°	1508.7	1542.9	1575.3	1630.4	1657.1	1700.8	1660.9	1613.3	1579.1	1544.9	1504.9
25°	1459.2	1487.8	1552.5	1573.4	1624.7	1660.9	1632.3	1584.8	1525.8	1476.3	1445.9
27.5°	1423.1	1455.4	1497.3	1554.3	1594.3	1615.3	1586.7	1567.6	1506.8	1447.8	1404.1
30°	1400.2	1434.5	1510.6	1558.2	1592.4	1609.5	1560.0	1537.3	1493.5	1444.0	1406.0
32.5°	1385.0	1415.5	1480.2	1541.0	1563.9	1563.9	1571.5	1544.9	1483.9	1400.2	1367.9
35°	1335.6	1377.5	1430.7	1501.1	1542.9	1567.6	1529.6	1499.2	1459.2	1373.6	1314.7
37.5°	1307.1	1335.6	1404.1	1470.6	1506.8	1533.4	1518.2	1464.9	1411.7	1341.3	1293.7
40°	1276.6	1322.3	1383.1	1445.9	1485.9	1512.5	1501.1	1438.3	1373.6	1307.1	1274.6
42.5°	1255.7	1286.1	1348.9	1419.3	1466.9	1518.2	1483.9	1406.0	1360.3	1269.0	1232.8
45°	1238.5	1288.0	1354.6	1383.1	1432.6	1485.9	1425.0	1377.5	1324.1	1257.6	1227.1
47.5°	1217.6	1263.3	1307.1	1383.1	1406.0	1430.7	1419.3	1343.2	1297.5	1225.2	1204.3
50°	1210.0	1227.1	1307.1	1348.9	1381.2	1406.0	1375.5	1318.4	1274.6	1200.5	1154.8
52.5°	1179.6	1211.9	1263.3	1318.4	1358.4	1388.8	1339.4	1303.2	1244.3	1166.3	1137.7
55°	1141.5	1160.6	1251.9	1308.9	1329.8	1350.8	1331.7	1272.8	1211.9	1132.0	1103.5
57.5°	1092.1	1135.8	1210.0	1289.9	1316.5	1328.0	1297.5	1250.0	1173.9	1103.5	1057.8
60°	1040.7	1086.3	1168.2	1232.8	1259.5	1301.3	1255.7	1227.1	1139.6	1061.6	1012.1
62.5°	989.3	1040.7	1101.5	1183.3	1206.2	1223.3	1211.9	1171.9	1101.5	1014.1	953.1
65°	928.4	966.5	1042.6	1084.5	1099.6	1139.6	1099.6	1084.5	1021.7	938.0	886.6
67.5°	837.1	869.4	936.0	976.0	987.4	1004.5	1002.6	985.5	915.1	858.0	812.4
70°	732.5	761.0	802.9	850.4	856.1	877.0	858.0	854.3	808.6	730.5	705.8
72.5°	587.9	614.5	669.7	690.6	692.5	700.2	690.6	677.3	665.9	584.0	559.4
75°	450.9	466.1	492.7	511.8	511.8	521.3	515.6	502.3	471.8	420.5	395.7
77.5°	313.9	329.2	363.4	374.8	372.9	376.7	359.6	346.2	300.6	274.0	253.1
80°	228.3	237.8	254.9	262.5	264.4	270.1	249.2	237.8	211.2	180.7	171.2
82.5°	165.5	171.2	173.1	182.7	182.7	173.1	167.4	156.0	136.9	117.9	110.3
85°	68.5	70.4	72.3	83.7	85.6	102.7	95.1	89.4	78.0	66.6	60.9
87.5°	17.1	19.0	24.7	20.9	24.7	24.7	26.6	30.5	30.5	24.7	24.7
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°	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5
2.5°	5188.2	5203.3	5397.5	5422.2	5517.3	5614.3	5810.3	5951.0	6065.2	6139.4	6160.3
5°	4391.0	4488.0	4577.4	4722.0	4853.3	5039.8	5254.7	5521.1	5855.9	6027.1	6095.7
7.5°	3437.8	3552.0	3681.4	3822.1	4014.3	4349.2	4636.5	4944.6	5372.7	5549.6	5817.8
10°	2806.2	2933.7	3104.9	3213.4	3445.4	3765.1	4099.9	4455.7	4864.7	5119.6	5429.8
12.5°	2480.9	2585.5	2743.4	2971.7	3144.8	3352.3	3601.5	4050.5	4636.5	4878.0	5091.1
15°	2121.3	2237.3	2420.0	2673.0	2880.4	3127.7	3407.4	3896.4	4520.3	4893.3	5074.0
17.5°	1824.5	1908.2	2100.4	2319.2	2557.0	2827.1	3228.5	3888.8	4642.1	5119.6	5414.5
20°	1619.0	1630.4	1735.1	1921.6	2244.9	2596.9	3118.2	3850.7	5032.2	5509.7	5882.6
22.5°	1489.7	1478.2	1480.2	1638.0	1864.5	2370.5	2945.1	3980.1	5475.4	6129.9	6381.1
25°	1425.0	1394.5	1375.5	1409.8	1615.3	2102.3	2813.8	4151.3	5953.0	6641.6	6949.9
27.5°	1390.8	1337.4	1299.4	1305.1	1455.4	1967.2	2732.0	4225.5	6426.7	7355.1	7463.6
30°	1377.5	1310.8	1255.7	1236.7	1335.6	1778.8	2557.0	4352.9	6850.9	7747.0	7840.3
32.5°	1329.8	1248.0	1194.8	1177.6	1217.6	1613.3	2431.4	4444.3	7225.8	8173.2	8140.9
35°	1274.6	1206.2	1139.6	1107.2	1135.8	1506.8	2330.6	4400.5	7667.1	8504.2	8487.1
37.5°	1269.0	1179.6	1124.4	1071.1	1069.2	1375.5	2193.6	4442.4	7948.7	9097.8	8863.8
40°	1219.5	1162.4	1090.2	1046.4	1021.7	1308.9	2060.4	4343.5	8361.6	9337.5	9107.3
42.5°	1221.4	1135.8	1073.0	1021.7	996.9	1211.9	1969.1	4316.8	8506.1	9727.5	9221.5
45°	1190.9	1107.2	1054.0	993.1	979.8	1137.7	1881.5	4193.1	8761.1	9746.5	9078.8
47.5°	1160.6	1086.3	1029.3	957.0	926.5	1111.1	1813.1	4090.4	8627.9	9567.7	8880.9
50°	1139.6	1054.0	1000.8	949.4	863.7	1065.4	1723.7	4065.6	8441.4	9326.1	8513.7
52.5°	1103.5	1027.4	972.2	932.2	795.2	1023.5	1689.4	4210.3	8669.8	9145.4	8407.2
55°	1069.2	991.2	920.8	842.8	738.2	913.2	1594.3	4345.3	9002.7	9562.0	8890.4
57.5°	1033.1	958.9	882.8	789.6	683.0	799.1	1495.4	4370.1	8378.6	8837.2	8439.6
60°	985.5	890.3	833.3	711.5	624.1	662.1	1185.2	3852.6	6499.0	7379.9	7393.2
62.5°	932.2	829.5	780.0	637.4	563.1	570.7	966.5	3238.1	5271.9	6109.0	6472.4
65°	861.8	762.9	703.9	589.8	519.4	494.6	707.8	2372.4	4004.8	4956.1	5368.9
67.5°	770.6	677.3	603.1	513.6	464.2	424.2	483.3	1335.6	2364.8	3327.5	3453.0
70°	673.5	593.6	515.6	441.4	386.2	357.7	353.8	591.7	1130.1	1790.3	2037.6
72.5°	530.8	473.7	410.9	355.8	319.6	277.7	253.1	245.4	382.4	728.7	1006.5
75°	380.5	332.9	296.8	260.7	234.0	211.2	192.1	175.0	159.8	182.7	251.1
77.5°	239.8	222.6	194.0	184.6	169.3	163.6	156.0	146.5	135.1	127.5	127.5
80°	161.7	150.3	140.8	138.9	133.2	131.3	133.2	123.6	112.3	102.7	106.6
82.5°	108.4	106.6	104.6	102.7	104.6	106.6	110.3	108.4	98.9	93.3	95.1
85°	64.7	68.5	72.3	76.1	83.7	74.2	60.9	51.4	45.6	41.9	39.9
87.5°	24.7	34.2	30.5	28.5	30.5	28.5	26.6	24.7	20.9	19.0	19.0
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: P648384

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5	5825.5
2.5°	6299.2	6337.3	6369.6	6362.0	6295.4	6206.0	6169.9	5985.3	5947.3	5922.5
5°	6384.8	6605.5	6653.1	6624.6	6451.5	6232.6	6019.5	5749.4	5591.5	5585.8
7.5°	6226.9	6499.0	6584.6	6649.3	6419.1	6038.6	5673.3	5268.0	5169.1	5176.7
10°	5825.5	6259.3	6470.5	6537.0	6272.6	5943.4	5437.4	5026.5	4815.3	4811.5
12.5°	5602.9	5943.4	6002.4	6095.7	6017.7	5684.7	5300.4	4840.0	4634.5	4630.7
15°	5405.0	5629.5	5646.7	5777.9	5819.8	5595.3	5336.5	4845.7	4680.1	4663.1
17.5°	5578.2	5422.2	5357.4	5374.6	5498.2	5580.0	5545.8	5169.1	4999.8	4904.7
20°	5694.2	5346.1	5150.1	5169.1	5315.6	5614.3	5857.9	5637.1	5368.9	5380.3
22.5°	6004.4	5357.4	5051.1	5030.2	5262.4	5793.2	6209.8	6228.8	5970.1	5907.3
25°	6468.5	5488.8	5020.8	5015.0	5237.6	5985.3	6620.7	6928.9	6664.5	6548.5
27.5°	6841.5	5694.2	5115.9	5134.9	5315.6	6141.3	6970.8	7379.9	7178.2	7035.5
30°	7168.7	5907.3	5249.0	5161.5	5524.9	6223.1	7121.1	7893.5	7731.8	7613.9
32.5°	7303.7	6209.8	5460.2	5315.6	5698.0	6322.0	7433.1	8392.0	8253.1	7962.0
35°	7532.1	6379.1	5574.3	5563.0	6000.5	6559.9	7579.6	8721.1	8664.1	8405.3
37.5°	7714.7	6550.3	5979.6	5854.0	6415.3	6959.4	7815.5	9175.8	9044.5	8922.8
40°	7855.4	6856.7	6358.2	6523.7	6925.2	7322.8	8032.4	9204.3	9583.0	9229.1
42.5°	7726.1	7130.6	6980.3	7376.0	7756.6	7737.5	8057.1	9425.0	9708.5	9523.9
45°	7693.8	7594.9	7963.9	8323.5	8411.0	8081.9	7880.2	9181.5	9670.4	9588.7
47.5°	7615.8	8051.4	8694.5	9280.4	9147.3	8312.1	7669.0	9137.8	9693.3	9546.8
50°	7589.1	8150.3	9234.8	9805.6	9725.6	8511.8	7570.1	8856.2	9531.6	9518.3
52.5°	7587.2	8353.9	9459.3	10090.9	10140.4	8827.6	7705.2	8998.9	9657.1	9769.4
55°	7672.9	8289.2	9430.8	9933.0	9914.0	8686.8	7720.4	9094.0	9811.2	9921.6
57.5°	7237.2	7425.5	7783.2	8180.8	8078.1	7195.3	6894.7	8407.2	9004.6	8924.7
60°	6249.7	5660.0	5256.7	5237.6	5037.8	4762.0	5642.8	7503.5	7503.5	7425.5
62.5°	5473.6	3715.6	3192.4	3044.0	3186.7	3504.4	5443.1	7298.0	7090.7	7001.3
65°	4786.7	2836.7	2307.7	2265.9	2513.2	2992.6	4921.8	6217.4	5852.1	5555.3
67.5°	3080.2	2077.5	1716.1	1641.9	1940.6	2197.4	3276.2	3824.0	3593.8	3477.8
70°	1986.2	1352.7	955.0	896.1	1012.1	1354.6	2092.8	2229.7	1894.9	1816.9
72.5°	939.8	584.0	334.8	275.9	310.1	517.5	827.6	890.3	740.1	677.3
75°	298.7	215.0	136.9	117.9	112.3	133.2	190.3	146.5	106.6	104.6
77.5°	133.2	127.5	108.4	91.3	79.9	66.6	55.2	45.6	47.5	49.5
80°	110.3	100.9	89.4	79.9	66.6	51.4	39.9	30.5	30.5	32.3
82.5°	97.0	87.5	78.0	66.6	57.1	41.9	30.5	20.9	19.0	19.0
85°	41.9	49.5	53.2	57.1	45.6	34.2	20.9	13.3	11.4	11.4
87.5°	17.1	15.2	13.3	11.4	9.5	9.5	7.6	5.7	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)