

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: P651295

Luminaire Tested: **GALN-SA3D-840-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14464.4 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 184
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

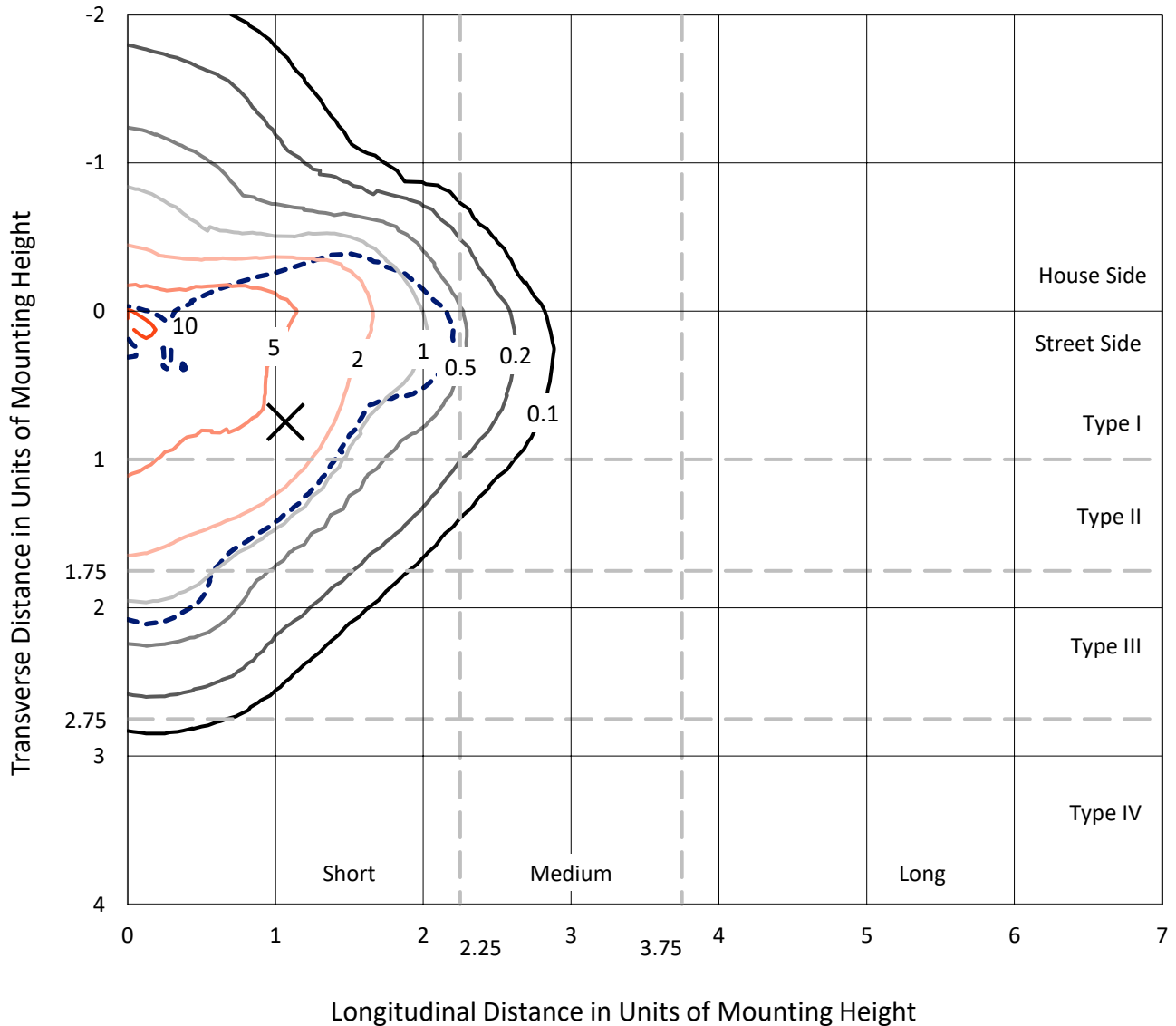




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Iso-Footcandle Lines of Horizontal Illumination

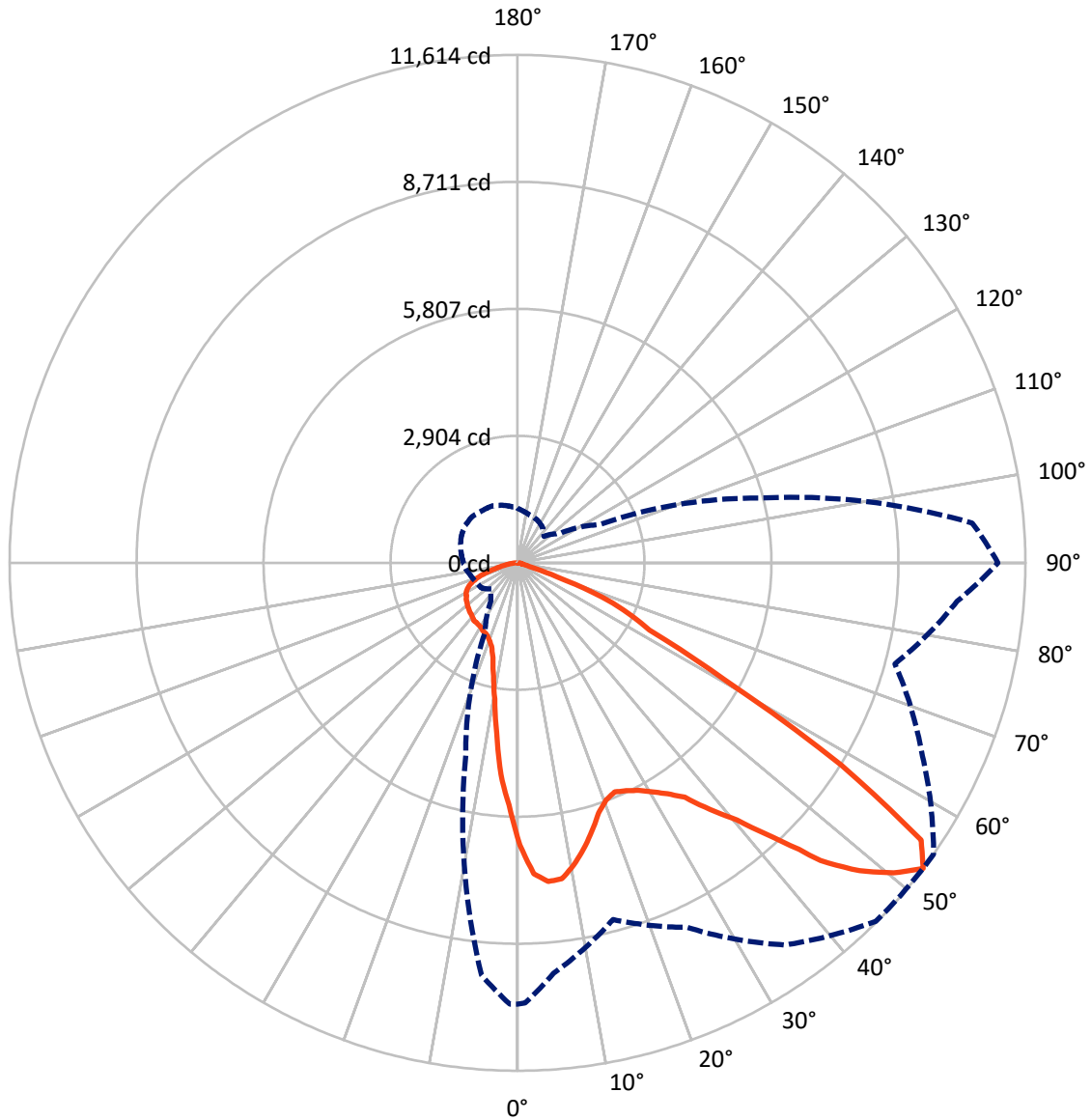
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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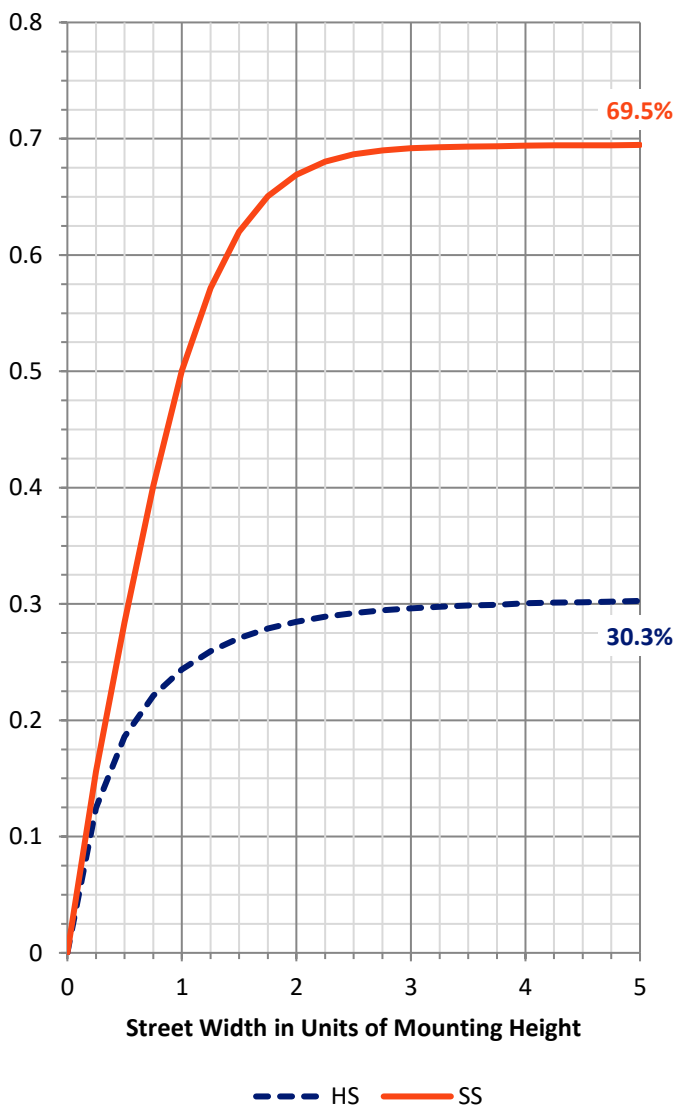
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4412.4	0.0	4412.4
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	10051.9	0.0	10051.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	14464.4	0.0	14464.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.9	3.4
10°-20°	1062.8	7.3
20°-30°	1611.6	11.1
30°-40°	2328.5	16.1
40°-50°	3111.5	21.5
50°-60°	3473.2	24.0
60°-70°	1905.2	13.2
70°-80°	411.9	2.8
80°-90°	66.6	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°	14464.4	100.0
0°-180°	14464.4	100.0

Coefficient of Utilization



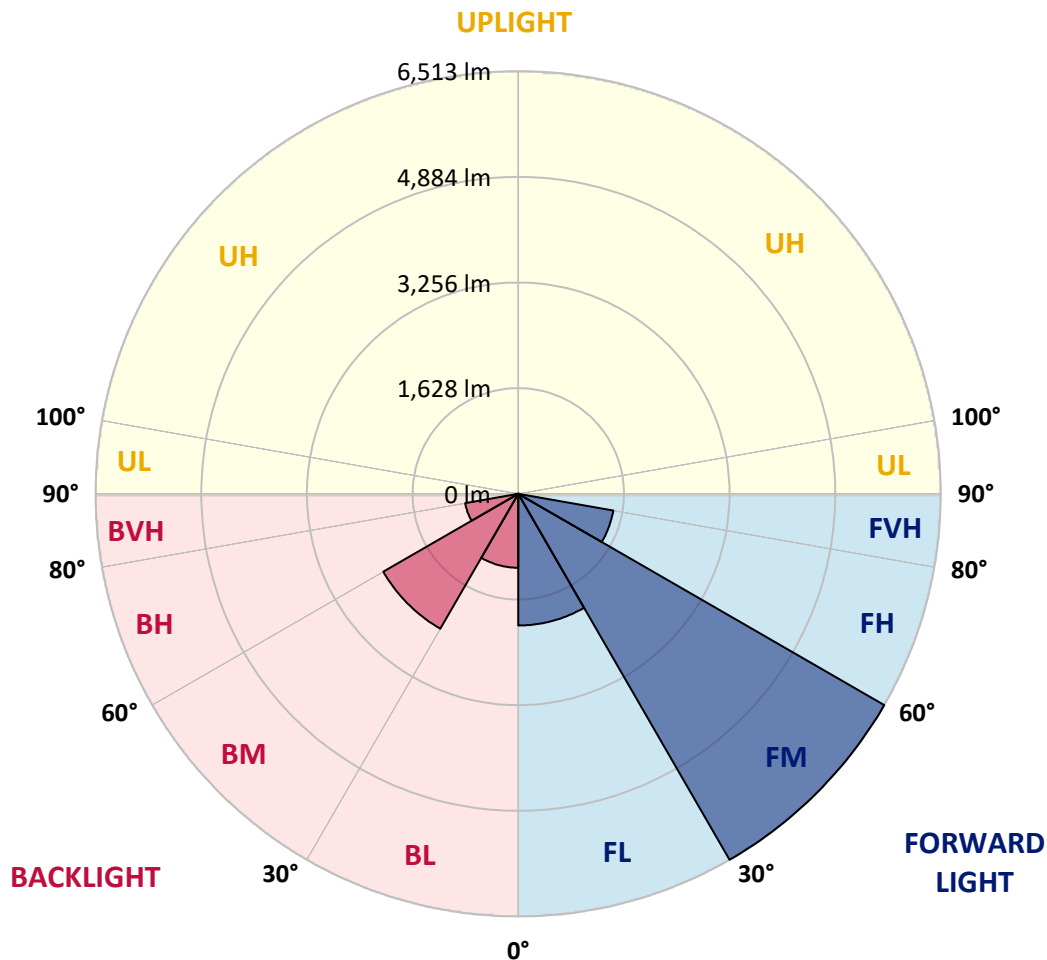
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.2	14.0			
FM (30°-60°)	6512.5	45.0			
FH (60°-80°)	1486.6	10.3			G1/1800
FVH (80°-90°)	24.7	0.2			G1/100
BL (0°-30°)	1139.2	7.9	B3/2500		
BM (30°-60°)	2400.7	16.6	B2/2500		
BH (60°-80°)	830.5	5.7	B2/1000		G2/1000
BVH (80°-90°)	42.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	6771.1	6733.1	6766.9	6927.4	7020.3	7083.7	7123.9	7117.6	6965.4	6817.6	6817.6
5°	6572.6	6524.1	6593.7	6957.0	7322.3	7354.0	7406.9	7320.2	7096.4	6826.1	6488.1
7.5°	5998.2	6034.0	6150.2	6627.5	7102.7	7341.4	7404.8	7294.9	6931.7	6426.8	5930.6
10°	5501.8	5586.3	5854.5	6369.8	6807.1	7117.6	7187.2	7033.0	6745.8	6126.9	5683.5
12.5°	5330.8	5277.9	5575.7	6091.0	6509.3	6676.1	6707.8	6718.3	6524.1	5974.9	5434.2
15°	5309.7	5343.4	5575.7	5966.5	6224.2	6232.6	6285.4	6367.7	6393.1	6078.4	5550.4
17.5°	5613.8	5573.6	5812.3	6122.7	6000.3	5877.7	5890.4	6008.7	6217.8	6167.1	5915.8
20°	6063.6	6154.4	6342.4	6310.7	5981.3	5670.8	5672.9	5784.8	6196.7	6534.6	6424.7
22.5°	6811.3	6900.0	7039.3	6657.1	5981.3	5609.6	5537.7	5689.8	6331.8	6971.8	6999.2
25°	7493.5	7656.0	7694.1	7244.2	6281.2	5666.6	5620.1	5770.0	6467.0	7398.4	7658.1
27.5°	8114.4	8173.5	8340.4	7622.3	6448.0	5704.6	5700.4	5892.6	6638.1	7611.7	8247.4
30°	8604.4	8598.0	8693.1	7860.9	6714.1	5917.9	5713.0	6076.3	6862.0	7964.4	8792.3
32.5°	8938.1	9009.9	9210.5	8192.5	6826.1	6120.6	5960.1	6291.7	7134.4	8131.3	9176.7
35°	9525.3	9649.8	9396.4	8376.3	7180.9	6321.3	6133.3	6585.3	7269.6	8312.9	9647.7
37.5°	10078.5	9983.5	9725.8	8475.5	7411.1	6693.0	6517.7	7153.4	7689.9	8707.9	9960.3
40°	10433.4	10431.3	9973.0	8555.8	7573.7	7261.1	7250.6	7730.0	8205.2	8957.1	10310.9
42.5°	10587.6	10735.4	10074.3	8547.3	7915.8	7949.6	8163.0	8591.7	8570.5	9007.8	10302.4
44°	10798.8	10887.5	10249.6	8566.3	8144.0	8414.3	8917.0	9189.4	8889.5	8980.3	10291.9
45°	10790.3	10796.7	10000.4	8591.7	8338.3	8802.9	9252.8	9713.2	9170.4	8921.2	10431.3
47.5°	10543.2	10471.4	9789.2	8403.7	8944.4	9829.4	10245.4	10524.2	9516.8	8794.4	10258.1
50°	10055.3	9973.0	9276.0	8323.5	9071.1	10467.2	11041.7	11143.0	9831.5	8669.9	10087.0
52.5°	10089.1	10065.9	9421.7	8443.9	9197.8	10667.8	11588.6	11614.0	10188.4	8931.8	10089.1
55°	10693.1	10612.9	9839.9	8593.8	9104.9	10433.4	11240.1	11195.8	10068.0	8773.3	10275.0
57.5°	9785.0	9837.8	9261.2	8000.3	7968.6	8481.9	8836.7	8726.9	8401.6	7917.9	9559.0
60°	7894.7	8044.7	8099.6	6690.9	6012.9	5748.9	5643.3	5449.0	5503.9	6505.1	8397.4
62.5°	6771.1	6762.6	7107.0	6065.7	3938.9	3387.7	3337.0	3381.3	4014.9	6403.6	8224.2
65°	5368.8	5512.3	5618.0	5140.7	3117.3	2515.4	2513.3	2794.2	3474.3	5351.9	6640.2
67.5°	3408.8	3596.8	3727.7	3288.4	2084.6	1791.0	1742.4	2080.4	2407.7	3510.2	3998.0
70°	1921.9	2010.7	2069.8	1896.6	1326.3	929.3	874.4	954.6	1455.2	2272.6	2369.7
72.5°	741.3	781.5	861.7	868.1	500.6	299.9	242.9	291.5	612.5	899.7	857.5
75°	114.0	122.5	173.2	207.0	143.6	109.8	116.1	120.3	171.1	232.3	194.3
77.5°	54.9	54.9	52.8	61.2	71.8	78.1	84.5	92.9	101.3	111.9	107.7
80°	35.9	35.9	35.9	42.2	52.8	63.3	71.8	76.0	80.2	88.7	84.5
82.5°	23.2	23.2	23.2	31.7	42.2	52.8	57.0	67.6	76.0	88.7	82.3
85°	12.7	12.7	12.7	21.1	31.7	44.3	42.2	33.8	19.0	2.1	4.2
87.5°	4.2	4.2	4.2	4.2	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	6640.2	6543.1	6534.6	6336.1	6158.6	6072.0	6002.4	5808.0	5850.3	5738.4	5736.2
5°	6319.2	6120.6	5799.6	5535.6	5271.6	5218.8	4988.6	4788.0	4794.3	4650.6	4676.0
7.5°	5742.6	5605.3	5214.6	4800.6	4450.1	4200.8	3983.3	3852.3	3685.5	3628.4	3598.9
10°	5377.2	5208.2	4769.0	4249.4	3856.6	3723.5	3514.4	3398.2	3227.2	3142.6	3083.5
12.5°	5216.7	4969.6	4420.5	3892.5	3630.6	3493.3	3315.9	3104.6	2902.0	2823.7	2716.1
15°	5233.6	4937.9	4319.1	3748.8	3434.1	3168.0	3009.6	2775.2	2568.2	2430.9	2352.8
17.5°	5489.1	5130.1	4365.5	3639.0	3187.1	2853.3	2542.8	2289.5	2124.7	2021.2	1995.9
20°	6093.2	5605.3	4443.7	3461.6	2940.0	2523.8	2141.6	1877.6	1750.9	1748.8	1750.9
22.5°	6595.9	6112.2	4602.1	3356.0	2692.8	2101.5	1721.3	1636.8	1611.4	1664.3	1670.6
25°	7273.8	6682.4	4874.5	3301.1	2464.7	1791.0	1556.5	1524.9	1522.8	1590.3	1592.4
27.5°	7968.6	7180.9	5037.2	3140.5	2232.4	1630.4	1457.3	1451.0	1484.8	1556.5	1550.2
30°	8441.7	7599.0	5330.8	2948.4	1957.8	1489.0	1417.2	1425.6	1472.1	1527.0	1535.4
32.5°	8993.0	8010.9	5406.8	2842.7	1788.9	1370.7	1320.0	1339.0	1398.2	1484.8	1531.2
35°	9624.5	8302.4	5522.9	2699.2	1725.5	1279.9	1254.5	1275.6	1347.5	1404.5	1455.2
37.5°	10091.2	8817.7	5544.0	2587.3	1655.8	1229.2	1189.1	1258.7	1301.0	1381.3	1406.6
40°	10437.6	9191.5	5599.0	2517.5	1600.9	1163.7	1163.7	1210.2	1267.2	1341.1	1391.9
42.5°	10659.3	9463.9	5639.1	2454.2	1495.3	1144.7	1134.2	1180.6	1256.6	1328.4	1351.7
44°	10794.6	9580.2	5599.0	2395.0	1465.8	1121.5	1121.5	1161.6	1220.7	1305.2	1332.6
45°	10828.3	9725.8	5510.2	2392.9	1429.9	1094.1	1089.8	1165.8	1206.0	1309.4	1326.3
47.5°	10959.2	9905.4	5520.8	2325.4	1343.2	1028.5	1102.5	1136.3	1172.2	1263.0	1320.0
50°	10955.0	10017.3	5497.6	2226.0	1279.9	954.6	1077.2	1115.2	1151.1	1244.0	1267.2
52.5°	10984.6	10435.5	5710.9	2067.7	1165.8	859.6	992.6	1077.2	1121.5	1199.6	1248.2
55°	10969.8	10674.1	5922.1	1949.4	1005.3	802.6	920.8	1020.1	1083.5	1165.8	1189.1
57.5°	10019.4	9434.4	5480.7	1727.7	832.2	734.9	819.5	961.0	1041.2	1125.7	1155.3
60°	8186.2	7271.7	4519.7	1271.4	684.3	675.8	762.5	941.9	975.7	1049.7	1100.4
62.5°	7565.3	6378.3	3584.1	971.5	585.0	618.8	703.3	851.2	903.9	994.7	1041.2
65°	5920.0	4236.7	2219.7	656.8	515.4	555.5	635.7	745.5	832.2	916.6	971.5
67.5°	3506.0	2314.8	1098.3	460.4	449.9	492.1	574.5	656.8	756.1	849.1	876.5
70°	1909.2	1138.4	468.9	350.6	382.2	420.3	500.6	557.6	652.6	724.4	770.9
72.5°	612.5	346.4	234.5	259.8	291.5	335.8	384.4	454.1	521.7	563.9	601.9
75°	147.8	145.7	166.9	181.7	211.2	245.0	285.1	321.0	373.8	413.9	447.7
77.5°	103.5	111.9	128.8	150.0	160.5	173.2	198.6	226.0	249.2	278.8	299.9
80°	80.2	86.6	99.2	109.8	120.3	130.9	143.6	154.2	169.0	188.0	198.6
82.5°	76.0	80.2	92.9	99.2	95.0	92.9	101.3	105.6	107.7	114.0	120.3
85°	6.3	0.0	4.2	14.8	35.9	52.8	57.0	57.0	54.9	59.1	59.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	8.4	6.3
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°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	5710.9	5639.1	5666.6	5700.4	5651.8	5539.8	5569.4	5556.7	5670.8	5662.4	5776.4
5°	4788.0	4676.0	4688.7	4853.4	4800.6	4857.6	4743.6	4728.8	4750.0	4760.5	4779.5
7.5°	3664.3	3649.6	3776.3	3915.7	3981.1	3913.6	3801.7	3776.3	3753.0	3706.6	3812.2
10°	2990.6	2994.9	2986.4	3092.0	3165.9	3151.1	3083.5	3075.1	3030.7	3013.9	3073.0
12.5°	2669.6	2612.6	2585.1	2551.3	2608.4	2646.4	2616.8	2595.7	2597.8	2618.9	2627.4
15°	2359.1	2323.3	2264.1	2226.0	2253.5	2234.5	2223.9	2266.2	2255.6	2251.4	2302.1
17.5°	2010.7	2040.2	2036.0	1993.8	2029.7	2014.9	2012.8	1983.2	1943.0	1913.5	1930.3
20°	1780.4	1835.3	1877.6	1879.7	1898.7	1896.6	1864.9	1774.1	1744.6	1738.2	1742.4
22.5°	1698.1	1727.7	1778.3	1850.1	1850.1	1816.3	1778.3	1672.7	1645.2	1615.7	1603.0
25°	1632.6	1689.7	1755.1	1763.6	1797.3	1765.7	1704.4	1651.6	1594.5	1554.4	1554.4
27.5°	1598.8	1662.2	1710.8	1725.5	1772.0	1746.7	1683.3	1615.7	1548.1	1546.0	1510.1
30°	1584.0	1643.1	1674.9	1710.8	1731.9	1691.8	1672.7	1600.9	1533.3	1516.4	1457.3
32.5°	1539.7	1624.1	1683.3	1674.9	1691.8	1674.9	1647.4	1588.2	1512.2	1474.2	1467.9
35°	1489.0	1573.4	1636.8	1681.2	1691.8	1655.8	1638.9	1558.7	1455.2	1436.2	1370.7
37.5°	1461.5	1512.2	1590.3	1662.2	1677.0	1657.9	1600.9	1518.5	1415.1	1394.0	1336.9
40°	1427.8	1493.2	1554.4	1613.5	1657.9	1611.4	1546.0	1465.8	1419.3	1355.9	1339.0
42.5°	1402.4	1476.3	1527.0	1592.4	1643.1	1581.9	1505.9	1451.0	1385.5	1343.2	1294.6
44°	1394.0	1461.5	1495.3	1575.5	1617.8	1571.3	1508.0	1451.0	1375.0	1336.9	1294.6
45°	1364.4	1457.3	1493.2	1565.0	1600.9	1562.9	1482.6	1425.6	1370.7	1324.2	1279.9
47.5°	1334.8	1398.2	1459.4	1516.4	1541.8	1529.1	1461.5	1391.9	1326.3	1298.9	1256.6
50°	1326.3	1389.7	1446.8	1499.5	1529.1	1503.8	1442.5	1375.0	1298.9	1254.5	1218.6
52.5°	1284.1	1362.3	1425.6	1442.5	1480.5	1465.8	1419.3	1345.3	1273.5	1235.5	1206.0
55°	1222.9	1305.2	1391.9	1413.0	1467.9	1444.6	1375.0	1305.2	1244.0	1187.0	1149.0
57.5°	1199.6	1279.9	1364.4	1391.9	1425.6	1387.6	1370.7	1296.8	1199.6	1170.1	1111.0
60°	1140.5	1241.9	1311.5	1375.0	1377.1	1366.5	1336.9	1252.4	1172.2	1117.3	1075.1
62.5°	1094.1	1189.1	1244.0	1303.1	1339.0	1309.4	1279.9	1201.7	1115.2	1053.9	1005.3
65°	1026.4	1113.1	1159.5	1195.4	1235.5	1231.3	1180.6	1123.6	1032.7	984.2	937.7
67.5°	922.9	999.0	1062.4	1096.2	1121.5	1115.2	1077.2	1037.0	944.1	895.5	861.7
70°	798.4	876.5	916.6	935.6	961.0	973.6	944.1	925.1	842.7	779.4	747.6
72.5°	642.0	692.7	751.9	768.8	779.4	787.8	787.8	770.9	686.4	661.0	606.1
75°	473.1	513.3	557.6	557.6	576.6	578.7	582.9	572.4	509.0	475.2	462.6
77.5°	321.0	350.6	386.5	401.3	413.9	411.8	409.7	380.1	346.4	331.6	318.9
80°	209.1	238.7	255.6	274.6	287.2	285.1	289.4	268.2	253.5	228.1	232.3
82.5°	124.6	147.8	164.8	188.0	188.0	194.3	194.3	188.0	173.2	160.5	160.5
85°	59.1	78.1	88.7	103.5	111.9	114.0	101.3	86.6	71.8	65.5	71.8
87.5°	10.6	14.8	21.1	19.0	23.2	21.1	21.1	21.1	21.1	16.9	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: P651295

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2	6452.2
2.5°	5734.1	5839.7	5913.7	6036.2	6247.4	6416.3	6589.5	6718.3	6733.1	6771.1
5°	4849.2	4906.2	5094.2	5339.2	5512.3	5797.5	5981.3	6314.9	6439.5	6572.6
7.5°	3786.9	3879.8	4131.1	4295.8	4676.0	5033.0	5402.6	5814.4	5979.1	5998.2
10°	3193.4	3328.5	3499.7	3763.6	3970.6	4367.6	4828.1	5286.4	5470.1	5501.8
12.5°	2804.7	2978.0	3206.1	3396.1	3594.7	3941.0	4382.5	4948.4	5187.1	5330.8
15°	2430.9	2610.5	2861.8	3125.8	3301.1	3715.0	4234.6	4872.4	5182.9	5309.7
17.5°	2046.6	2213.4	2420.4	2705.5	3058.2	3522.9	4211.4	5125.9	5465.9	5613.8
20°	1717.1	1810.0	2050.8	2344.4	2785.7	3326.4	4219.8	5499.7	5998.2	6063.6
22.5°	1588.2	1609.3	1704.4	1974.8	2458.4	3125.8	4369.8	6029.8	6595.9	6811.3
25°	1489.0	1484.8	1510.1	1691.8	2219.7	3047.6	4517.6	6517.7	7259.0	7493.5
27.5°	1434.1	1391.9	1394.0	1565.0	2050.8	2921.0	4707.7	7077.4	8010.9	8114.4
30°	1406.6	1398.2	1372.8	1442.5	1867.0	2730.8	4739.4	7628.6	8454.4	8604.4
32.5°	1389.7	1307.3	1275.6	1301.0	1693.9	2523.8	4857.6	7991.9	9003.6	8938.1
35°	1305.2	1231.3	1210.2	1235.5	1571.3	2407.7	4779.5	8308.7	9415.4	9525.3
37.5°	1273.5	1208.1	1165.8	1144.7	1457.3	2310.6	4739.4	8796.6	9814.6	10078.5
40°	1244.0	1174.3	1123.6	1102.5	1368.6	2181.7	4726.7	9172.5	10275.0	10433.4
42.5°	1210.2	1165.8	1108.8	1070.8	1260.9	2052.9	4581.0	9288.7	10416.5	10587.6
44°	1199.6	1132.1	1072.9	1060.2	1218.6	1987.5	4551.4	9394.3	10539.0	10798.8
45°	1189.1	1125.7	1058.1	1041.2	1203.9	1951.5	4511.3	9419.6	10741.8	10790.3
47.5°	1159.5	1119.4	1053.9	1007.4	1172.2	1873.3	4390.9	9276.0	10534.8	10543.2
50°	1136.3	1089.8	1022.2	931.4	1130.0	1807.9	4445.8	9223.2	10036.3	10055.3
52.5°	1111.0	1041.2	1003.2	846.9	1060.2	1753.0	4562.0	9461.8	10093.3	10089.1
55°	1081.4	1005.3	912.4	775.1	944.1	1683.3	4842.9	9932.8	10621.3	10693.1
57.5°	1034.9	969.4	836.4	711.7	811.0	1550.2	4752.1	9031.0	9772.3	9785.0
60°	973.6	912.4	758.2	663.2	665.3	1222.9	4249.4	7037.2	7711.0	7894.7
62.5°	914.5	880.7	692.7	593.5	566.0	973.6	3592.6	5848.1	6619.1	6771.1
65°	844.8	762.5	635.7	540.7	485.8	682.2	2545.0	4369.8	5163.9	5368.8
67.5°	756.1	667.4	559.7	475.2	416.0	456.2	1313.6	2483.7	3288.4	3408.8
70°	661.0	578.7	471.0	401.3	335.8	314.7	578.7	1184.9	1797.3	1921.9
72.5°	542.8	466.8	375.9	316.8	251.3	217.6	194.3	316.8	637.8	741.3
75°	392.8	340.0	283.0	226.0	177.5	139.4	114.0	95.0	105.6	114.0
77.5°	289.4	247.1	209.1	160.5	124.6	99.2	78.1	59.1	57.0	54.9
80°	226.0	200.7	166.9	128.8	97.1	73.9	54.9	40.1	35.9	35.9
82.5°	177.5	164.8	137.3	105.6	80.2	59.1	40.1	27.4	23.2	23.2
85°	67.6	67.6	99.2	86.6	61.2	42.2	27.4	14.8	12.7	12.7
87.5°	16.9	16.9	16.9	16.9	14.8	12.7	12.7	6.3	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)