

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637218

Luminaire Tested: GWS-SA4C-735-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10214.1 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

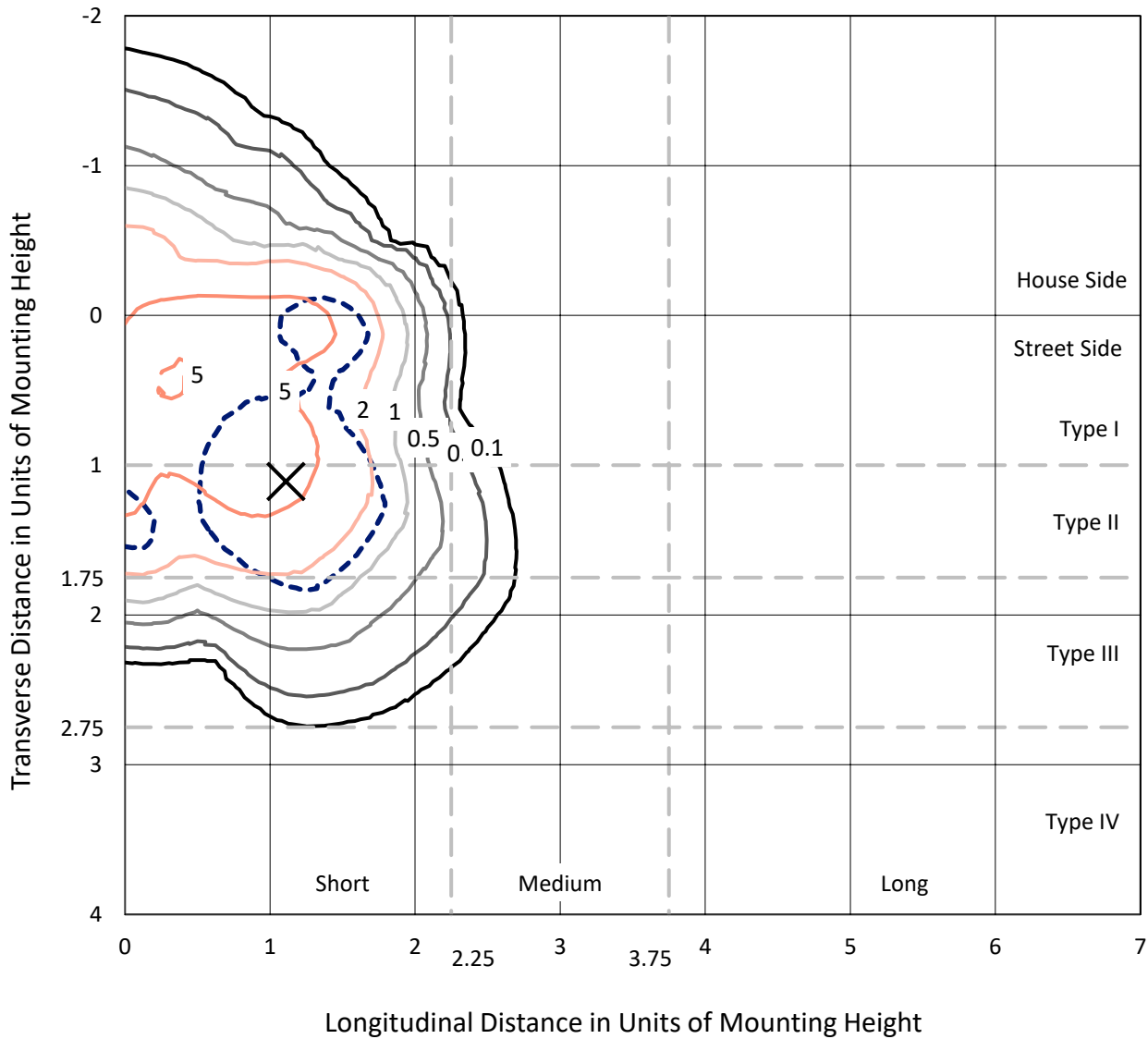
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637218
 CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

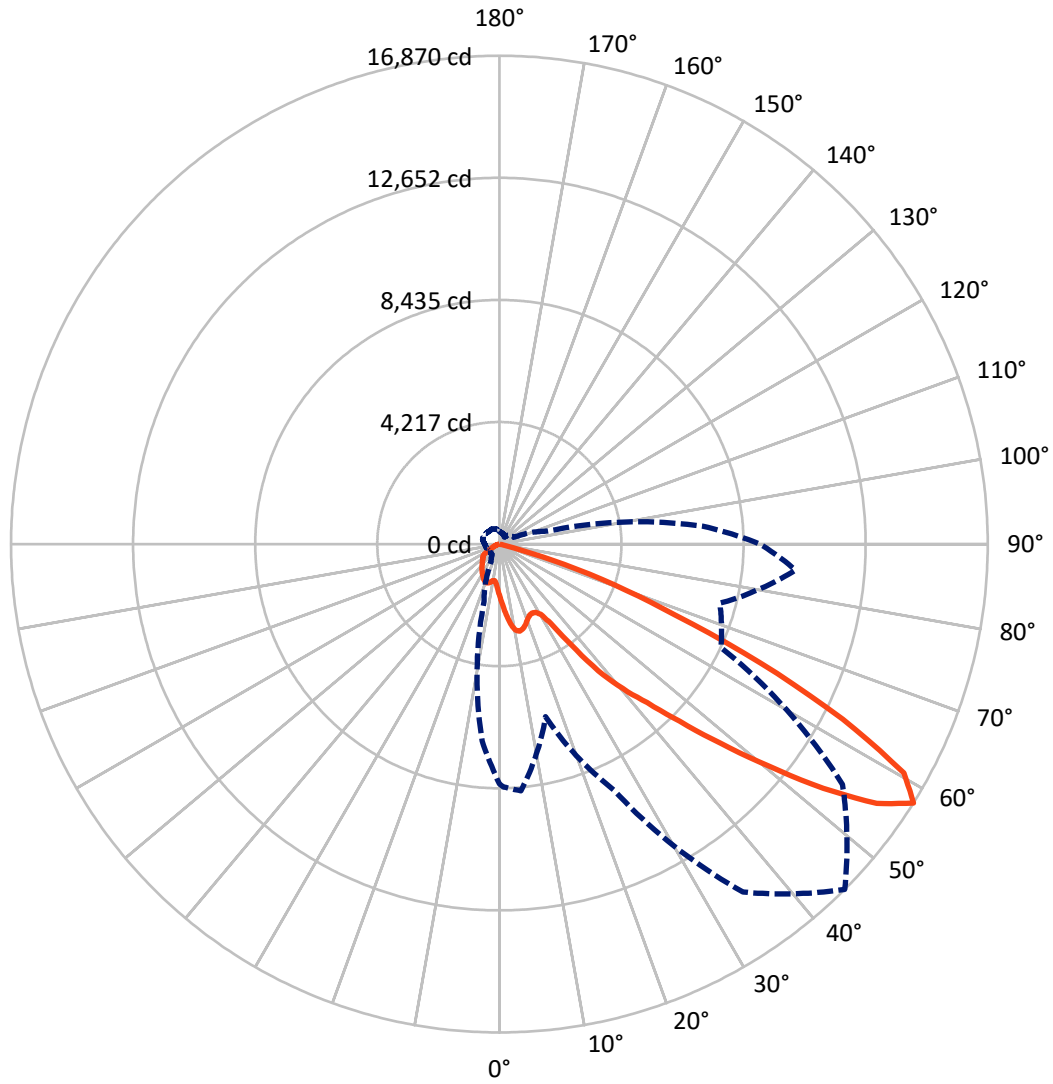
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - N/A

REPORT NUMBER: P637218
CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



REPORT NUMBER: P637218
 CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2287.2	0.0	2287.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	7926.9	0.0	7926.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	10214.1	0.0	10214.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	1.7
10°-20°	571.3	5.6
20°-30°	928.1	9.1
30°-40°	1434.0	14.0
40°-50°	2299.5	22.5
50°-60°	3142.7	30.8
60°-70°	1522.1	14.9
70°-80°	139.4	1.4
80°-90°	0.4	0.0
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°	10214.1	100.0
0°-180°	10214.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637218

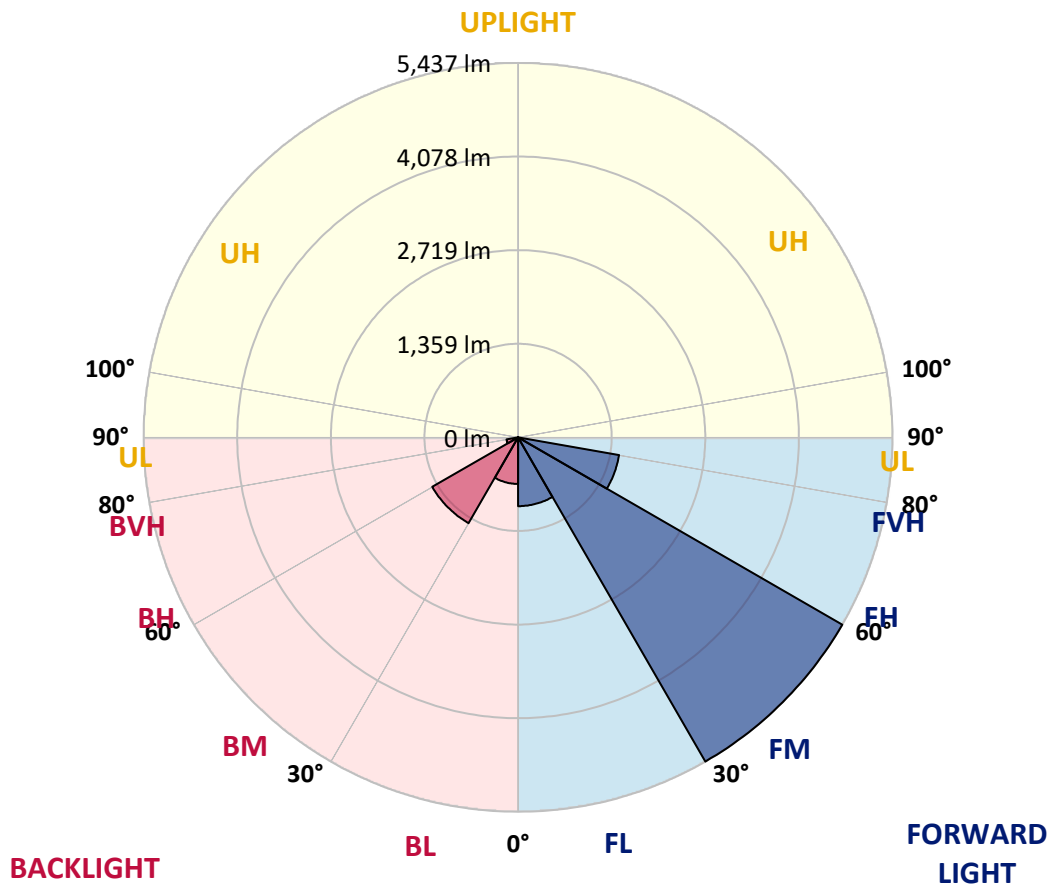
CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.3	9.8			
FM (30°-60°)	5437.2	53.2			
FH (60°-80°)	1490.0	14.6			G1/1800
FVH (80°-90°)	0.4	0.0			G0/10
BL (0°-30°)	676.8	6.6	B2/1000		
BM (30°-60°)	1439.0	14.1	B2/2500		
BH (60°-80°)	171.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





REPORT NUMBER: P637218

CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2
2.5°	1944.8	1957.2	1977.8	2021.7	2058.8	2083.5	2094.4	2091.7	2076.6	2065.6	2043.7
5°	2153.5	2153.5	2193.3	2293.5	2370.3	2418.4	2443.1	2428.0	2397.8	2349.7	2275.6
7.5°	2336.0	2342.9	2410.1	2552.9	2669.5	2738.1	2778.0	2769.7	2716.2	2624.2	2476.0
10°	2478.7	2487.0	2576.2	2750.5	2887.8	2957.8	3016.8	3022.3	2963.2	2841.1	2670.9
12.5°	2617.4	2625.6	2718.9	2886.4	3007.2	3036.0	3088.1	3108.7	3093.6	3007.2	2830.1
15°	2767.0	2786.2	2865.8	2990.7	3041.5	3007.2	3041.5	3078.5	3129.3	3121.1	2961.9
17.5°	2913.8	2927.6	3008.5	3052.5	2996.2	2907.0	2923.4	2967.4	3082.6	3195.2	3092.3
20°	3049.7	3068.9	3136.2	3078.5	2908.3	2769.7	2771.1	2828.7	3004.4	3240.5	3225.4
22.5°	3192.4	3221.3	3269.3	3107.4	2827.4	2661.3	2668.2	2720.3	2942.7	3283.0	3376.4
25°	3379.1	3406.6	3438.1	3178.7	2801.3	2607.8	2633.8	2681.9	2942.7	3355.8	3563.0
27.5°	3631.7	3650.9	3652.2	3311.9	2846.6	2616.0	2670.9	2725.8	3030.5	3501.3	3812.8
30°	3948.7	3978.9	3939.1	3519.1	2987.9	2725.8	2806.8	2875.4	3219.9	3746.9	4180.7
32.5°	4334.4	4376.9	4323.4	3826.5	3283.0	3104.6	3251.5	3291.3	3521.9	4102.4	4597.9
35°	4787.3	4823.0	4765.3	4252.0	3972.0	4005.0	4271.2	4220.5	4128.5	4540.2	5085.1
37.5°	5284.1	5317.1	5205.9	4897.1	4990.4	5133.2	5558.6	5384.3	5087.9	5104.3	5613.5
40°	5739.8	5775.5	5601.2	5598.5	5790.6	6051.4	6564.7	6324.5	5921.0	5842.8	6109.0
42.5°	6212.0	6236.7	6078.8	5971.8	6408.2	6944.9	7488.4	7164.5	6472.7	6387.6	6729.4
45°	6885.9	6938.0	6656.7	6155.7	6964.1	7972.9	8730.5	8097.8	6848.8	6780.2	7679.2
47.5°	7876.8	7915.2	7341.5	6271.0	7481.5	9253.4	10282.8	9308.3	7179.6	7023.1	8977.6
50°	8696.2	8722.3	7971.5	6397.3	8031.9	10634.2	12052.0	10744.0	7551.5	7425.3	10189.5
52.5°	9300.1	9398.9	8799.1	6656.7	8755.2	12257.9	14010.5	12444.5	8132.1	8202.1	11194.2
55°	9425.0	9559.5	9364.6	6815.9	9392.1	13911.7	15819.5	13966.6	8711.3	8790.9	11531.8
57.5°	8283.1	8390.1	8552.1	6173.5	9377.0	14669.3	16869.5	14471.7	8447.8	7883.7	10267.7
60°	6205.1	6279.2	6572.9	4718.7	8623.5	13999.6	16051.5	13612.5	7386.8	6015.7	7823.3
62.5°	3679.7	3712.6	4084.6	3056.6	7157.6	12056.1	13311.9	11745.9	5837.3	4046.1	4791.4
65°	1412.3	1398.6	1682.7	1508.4	5263.6	9603.4	9901.3	8954.2	4005.0	1854.3	1826.8
67.5°	218.2	208.6	281.4	446.1	3796.4	6655.3	6533.1	6453.5	2508.9	432.3	377.4
70°	49.4	49.4	60.4	131.8	2319.5	3910.3	4184.8	3989.9	1605.8	92.0	49.4
72.5°	23.3	23.3	28.8	56.3	840.0	1611.3	1877.6	1848.8	521.6	30.2	17.8
75°	8.2	9.6	9.6	12.4	50.8	83.7	192.2	137.3	32.9	0.0	0.0
77.5°	2.7	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



REPORT NUMBER: P637218

CATALOG NUMBER: GWS-SA4C-735-U-SLR-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2
2.5°	1995.6	1986.0	1950.3	1902.3	1855.6	1814.5	1771.9	1721.1	1684.1	1641.5	1627.8
5°	2218.0	2157.6	2060.1	1958.6	1865.2	1785.6	1708.8	1626.4	1566.0	1505.6	1485.1
7.5°	2406.0	2316.8	2159.0	2006.6	1879.0	1766.4	1655.2	1542.7	1454.9	1383.5	1361.5
10°	2574.8	2471.9	2260.5	2072.5	1911.9	1781.5	1647.0	1505.6	1391.7	1306.6	1286.0
12.5°	2720.3	2600.9	2347.0	2121.9	1925.6	1776.0	1645.6	1533.1	1430.2	1332.7	1306.6
15°	2842.5	2710.7	2419.7	2154.8	1905.0	1707.4	1593.5	1575.6	1567.4	1460.3	1409.6
17.5°	2961.9	2813.6	2478.7	2169.9	1847.4	1586.6	1504.3	1585.2	1671.7	1601.7	1537.2
20°	3086.8	2917.9	2539.1	2172.7	1751.3	1450.7	1437.0	1564.7	1674.5	1652.5	1592.1
22.5°	3233.6	3048.3	2614.6	2171.3	1630.5	1335.4	1387.6	1524.9	1614.1	1612.7	1564.7
25°	3446.4	3213.0	2716.2	2179.5	1498.8	1246.2	1332.7	1457.6	1530.3	1527.6	1487.8
27.5°	3674.2	3409.3	2847.9	2200.1	1386.2	1194.1	1268.2	1365.6	1428.8	1426.0	1391.7
30°	3994.0	3635.8	2974.2	2201.5	1305.3	1166.6	1196.8	1264.1	1324.5	1317.6	1291.5
32.5°	4382.4	3891.1	3079.9	2123.3	1254.5	1140.6	1122.7	1157.0	1203.7	1194.1	1187.2
35°	4851.8	4194.4	3170.5	1951.7	1176.2	1088.4	1040.4	1047.2	1080.2	1085.7	1082.9
37.5°	5387.1	4555.3	3283.0	1725.2	1070.6	1012.9	948.4	942.9	962.1	980.0	993.7
40°	5915.5	4961.6	3435.4	1496.0	974.5	916.8	855.1	841.3	849.6	881.1	910.0
42.5°	6509.8	5432.4	3600.1	1299.8	908.6	811.2	752.1	726.1	749.4	800.2	834.5
45°	7366.2	6092.6	3760.7	1143.3	881.1	717.8	638.2	635.5	661.5	727.4	765.9
47.5°	8568.6	6946.3	3866.3	1021.1	879.8	645.1	550.4	566.8	597.0	661.5	705.5
50°	9740.7	8015.4	3749.7	927.8	851.0	597.0	484.5	517.4	547.6	603.9	649.2
52.5°	10447.5	8590.5	3295.4	840.0	761.7	575.1	420.0	477.6	483.1	533.9	581.9
55°	10373.4	8218.6	2524.0	704.1	630.0	543.5	352.7	431.0	433.7	472.1	513.3
57.5°	9003.6	7056.1	1733.5	571.0	473.5	448.8	291.0	363.7	389.8	413.1	443.3
60°	6710.2	5148.3	772.7	463.9	300.6	303.3	248.4	274.5	314.3	341.8	367.8
62.5°	3954.2	2961.9	314.3	278.6	166.1	190.8	200.4	200.4	225.1	245.7	262.1
65°	1494.7	1036.2	127.6	140.0	86.5	89.2	118.0	145.5	164.7	182.5	204.5
67.5°	262.1	181.2	65.9	52.2	50.8	45.3	60.4	94.7	105.7	119.4	129.0
70°	43.9	37.1	27.5	26.1	23.3	24.7	39.8	67.3	74.1	78.2	82.4
72.5°	12.4	11.0	8.2	6.9	5.5	6.9	24.7	52.2	54.9	57.6	61.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	9.6	37.1	39.8	41.2	45.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	11.0	13.7	11.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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°	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2
2.5°	1619.6	1592.1	1577.0	1568.8	1568.8	1557.8	1545.4	1541.3	1559.2	1559.2	1589.4
5°	1459.0	1437.0	1412.3	1397.2	1373.9	1378.0	1364.3	1362.9	1380.7	1389.0	1420.5
7.5°	1347.8	1320.4	1305.3	1295.6	1283.3	1277.8	1265.5	1261.3	1270.9	1284.7	1314.9
10°	1273.7	1269.6	1268.2	1275.1	1275.1	1268.2	1257.2	1250.4	1253.1	1279.2	1313.5
12.5°	1292.9	1301.1	1303.9	1314.9	1320.4	1314.9	1306.6	1309.4	1327.2	1375.3	1426.0
15°	1376.6	1369.8	1367.0	1372.5	1376.6	1371.1	1368.4	1389.0	1450.7	1519.4	1577.0
17.5°	1465.8	1421.9	1402.7	1402.7	1405.4	1402.7	1405.4	1445.2	1545.4	1614.1	1656.6
20°	1511.1	1430.2	1400.0	1393.1	1398.6	1400.0	1409.6	1454.9	1564.7	1612.7	1622.3
22.5°	1497.4	1395.8	1361.5	1356.0	1361.5	1367.0	1376.6	1415.1	1518.0	1542.7	1538.6
25°	1428.8	1328.6	1301.1	1301.1	1313.5	1312.1	1316.2	1343.7	1428.8	1443.9	1437.0
27.5°	1342.3	1247.6	1224.3	1238.0	1249.0	1246.2	1247.6	1270.9	1334.1	1338.2	1331.3
30°	1254.5	1172.1	1150.2	1166.6	1181.7	1179.0	1180.4	1203.7	1243.5	1239.4	1229.8
32.5°	1165.3	1104.9	1088.4	1098.0	1121.3	1118.6	1124.1	1148.8	1163.9	1146.0	1135.1
35°	1082.9	1051.3	1039.0	1044.5	1062.3	1066.4	1076.0	1092.5	1092.5	1070.6	1051.3
37.5°	1006.0	1001.9	993.7	986.8	1003.3	1015.7	1029.4	1048.6	1021.1	989.6	971.7
40°	934.7	952.5	941.5	923.7	933.3	951.1	978.6	993.7	960.8	929.2	899.0
42.5°	868.8	899.0	894.9	872.9	881.1	897.6	929.2	941.5	903.1	867.4	838.6
45°	805.7	848.2	851.0	823.5	831.7	848.2	885.3	889.4	840.0	801.5	781.0
47.5°	750.8	797.4	798.8	778.2	781.0	804.3	838.6	840.0	783.7	748.0	721.9
50°	698.6	752.1	756.3	738.4	741.2	768.6	797.4	791.9	731.5	694.5	671.2
52.5°	635.5	708.2	717.8	709.6	720.6	742.5	760.4	741.2	671.2	634.1	613.5
55°	566.8	661.5	682.1	676.6	689.0	706.8	711.0	698.6	610.8	573.7	554.5
57.5°	487.2	544.9	580.6	569.6	579.2	597.0	609.4	599.8	533.9	505.1	488.6
60°	403.5	441.9	450.2	432.3	424.1	455.7	484.5	472.1	415.9	398.0	378.8
62.5°	295.1	339.0	344.5	321.2	311.6	345.9	370.6	358.2	296.5	277.2	262.1
65°	236.1	277.2	288.2	266.3	260.8	286.9	302.0	271.8	227.8	207.2	190.8
67.5°	155.1	188.0	216.9	215.5	204.5	212.7	201.8	177.1	145.5	134.5	123.5
70°	96.1	115.3	133.1	140.0	138.6	135.9	120.8	102.9	93.3	89.2	83.7
72.5°	74.1	93.3	107.1	111.2	112.5	108.4	96.1	79.6	70.0	64.5	60.4
75°	54.9	70.0	81.0	86.5	89.2	86.5	74.1	63.1	53.5	49.4	45.3
77.5°	19.2	23.3	28.8	31.6	30.2	28.8	26.1	26.1	20.6	19.2	16.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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



REPORT NUMBER: P637218
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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2	1795.2
2.5°	1623.7	1648.4	1693.7	1734.8	1778.8	1824.1	1873.5	1924.3	1947.6	1944.8
5°	1468.6	1522.1	1596.2	1677.2	1767.8	1865.2	1973.7	2084.8	2132.9	2153.5
7.5°	1371.1	1446.6	1544.1	1647.0	1766.4	1905.0	2068.4	2242.7	2312.7	2336.0
10°	1383.5	1471.3	1552.3	1652.5	1780.1	1959.9	2163.1	2370.3	2452.7	2478.7
12.5°	1483.7	1502.9	1524.9	1607.2	1767.8	2001.1	2249.5	2496.6	2591.3	2617.4
15°	1574.3	1485.1	1443.9	1519.4	1723.9	2029.9	2337.4	2632.5	2736.8	2767.0
17.5°	1578.4	1443.9	1351.9	1410.9	1652.5	2042.3	2423.8	2771.1	2885.0	2913.8
20°	1527.6	1398.6	1280.5	1281.9	1555.0	2039.5	2495.2	2896.0	3023.6	3049.7
22.5°	1453.5	1345.1	1222.9	1180.4	1450.7	2034.1	2573.4	3029.1	3167.7	3192.4
25°	1371.1	1276.4	1168.0	1103.5	1346.4	2039.5	2683.2	3203.4	3355.8	3379.1
27.5°	1281.9	1200.9	1125.5	1073.3	1258.6	2060.1	2815.0	3425.8	3606.9	3631.7
30°	1188.6	1128.2	1098.0	1066.4	1203.7	2065.6	2957.8	3685.2	3914.4	3948.7
32.5°	1096.6	1063.7	1065.1	1070.6	1151.5	2027.2	3088.1	3973.4	4279.5	4334.4
35°	1011.5	1001.9	1029.4	1056.8	1076.0	1928.4	3202.1	4313.8	4731.0	4787.3
37.5°	938.8	947.0	981.3	1008.8	993.7	1788.4	3353.0	4739.3	5236.1	5284.1
40°	868.8	889.4	929.2	941.5	930.6	1625.0	3534.2	5149.6	5673.9	5739.8
42.5°	804.3	819.4	875.7	878.4	912.7	1459.0	3708.5	5591.6	6177.6	6212.0
45°	752.1	749.4	807.0	824.9	936.0	1275.1	3878.7	6180.4	6836.5	6885.9
47.5°	701.4	698.6	712.3	793.3	945.7	1104.9	4047.5	7042.3	7791.7	7876.8
50°	653.3	657.4	614.9	778.2	893.5	974.5	4124.4	7839.8	8660.5	8696.2
52.5°	610.8	595.7	521.6	728.8	782.3	851.0	3906.2	8202.1	9198.5	9300.1
55°	550.4	466.7	429.6	591.6	617.6	742.5	3199.3	7992.1	9245.2	9425.0
57.5°	470.8	366.5	365.1	436.5	436.5	689.0	2049.2	6828.2	7967.4	8283.1
60°	362.3	284.1	302.0	303.3	280.0	502.3	1150.2	4946.5	5890.8	6205.1
62.5°	258.0	216.9	227.8	181.2	160.6	251.2	551.7	2847.9	3635.8	3679.7
65°	172.9	146.9	119.4	100.2	98.8	107.1	227.8	1029.4	1251.7	1412.3
67.5°	113.9	89.2	63.1	63.1	71.4	71.4	86.5	170.2	238.8	218.2
70°	74.1	61.8	39.8	38.4	46.7	46.7	43.9	46.7	49.4	49.4
72.5°	54.9	46.7	23.3	20.6	26.1	27.5	24.7	23.3	23.3	23.3
75°	41.2	32.9	13.7	9.6	12.4	16.5	13.7	9.6	9.6	8.2
77.5°	16.5	12.4	5.5	4.1	6.9	9.6	8.2	4.1	2.7	2.7
80°	1.4	2.7	2.7	2.7	4.1	5.5	6.9	2.7	1.4	1.4
82.5°	0.0	1.4	1.4	1.4	2.7	4.1	5.5	2.7	1.4	1.4
85°	0.0	0.0	0.0	0.0	2.7	4.1	2.7	1.4	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.4	4.1	2.7	1.4	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

(END OF REPORT)