

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: P639034

Luminaire Tested: GWS-SA5B-722-U-SLR-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-43)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-SLR-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10232.8 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

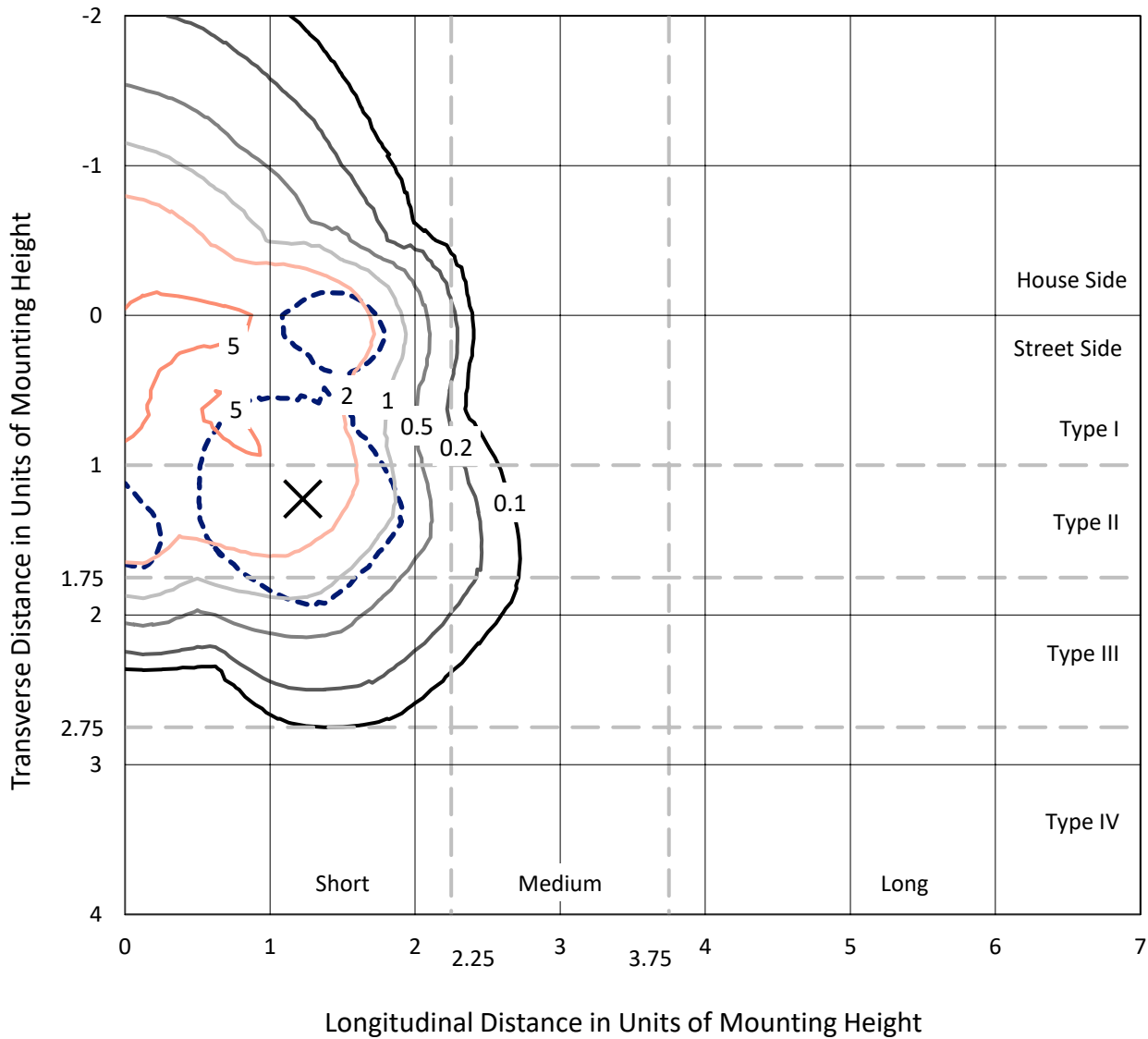
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

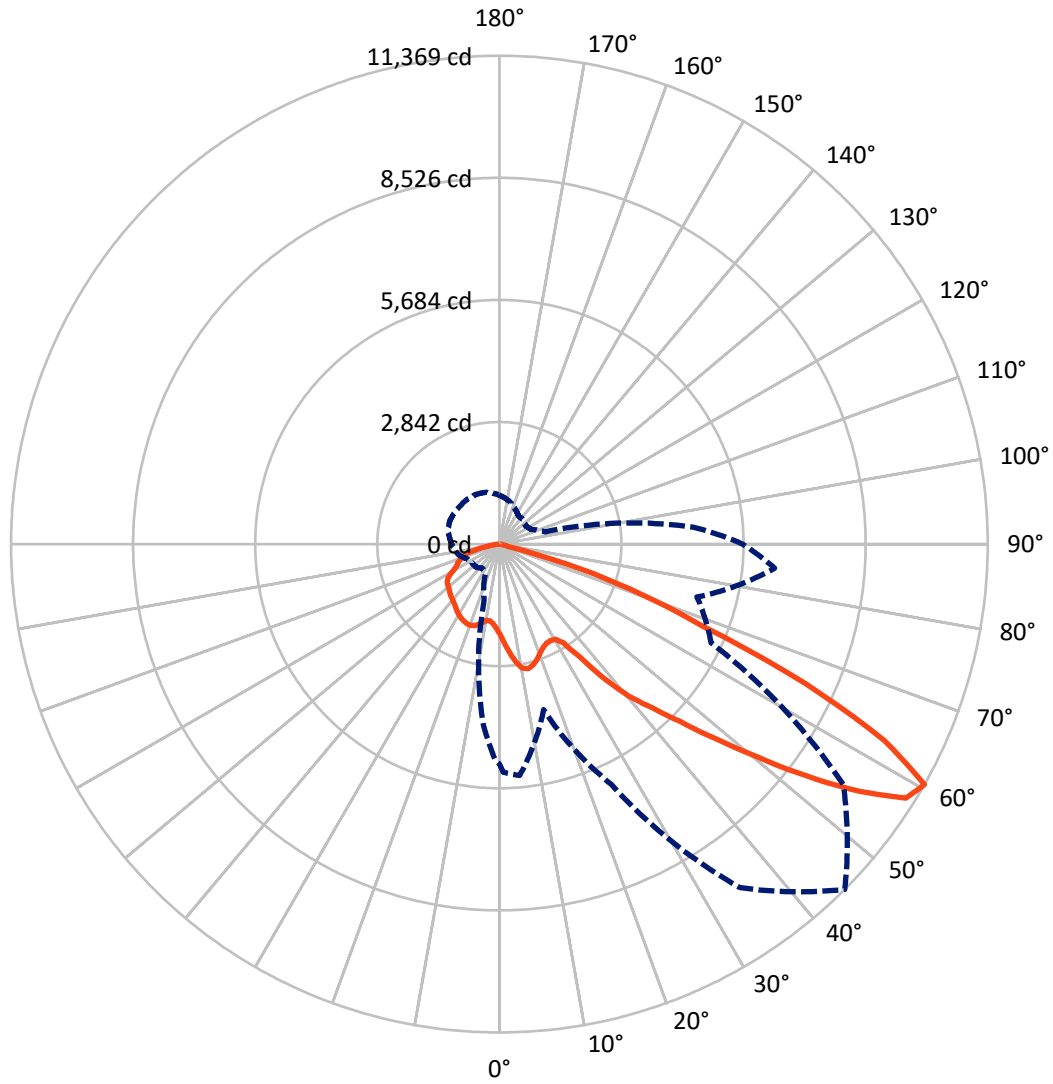
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3587.0	0.0	3587.0
	% Fixture	35.1	0.0	35.1
Street Side	Lumens	6645.8	0.0	6645.8
	% Fixture	64.9	0.0	64.9
Total	Lumens	10232.8	0.0	10232.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.1	2.0
10°-20°	648.1	6.3
20°-30°	1052.8	10.3
30°-40°	1484.7	14.5
40°-50°	2051.8	20.1
50°-60°	2641.3	25.8
60°-70°	1673.6	16.4
70°-80°	429.4	4.2
80°-90°	45.9	0.4
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°	10232.8	100.0
0°-180°	10232.8	100.0

Coefficient of Utilization



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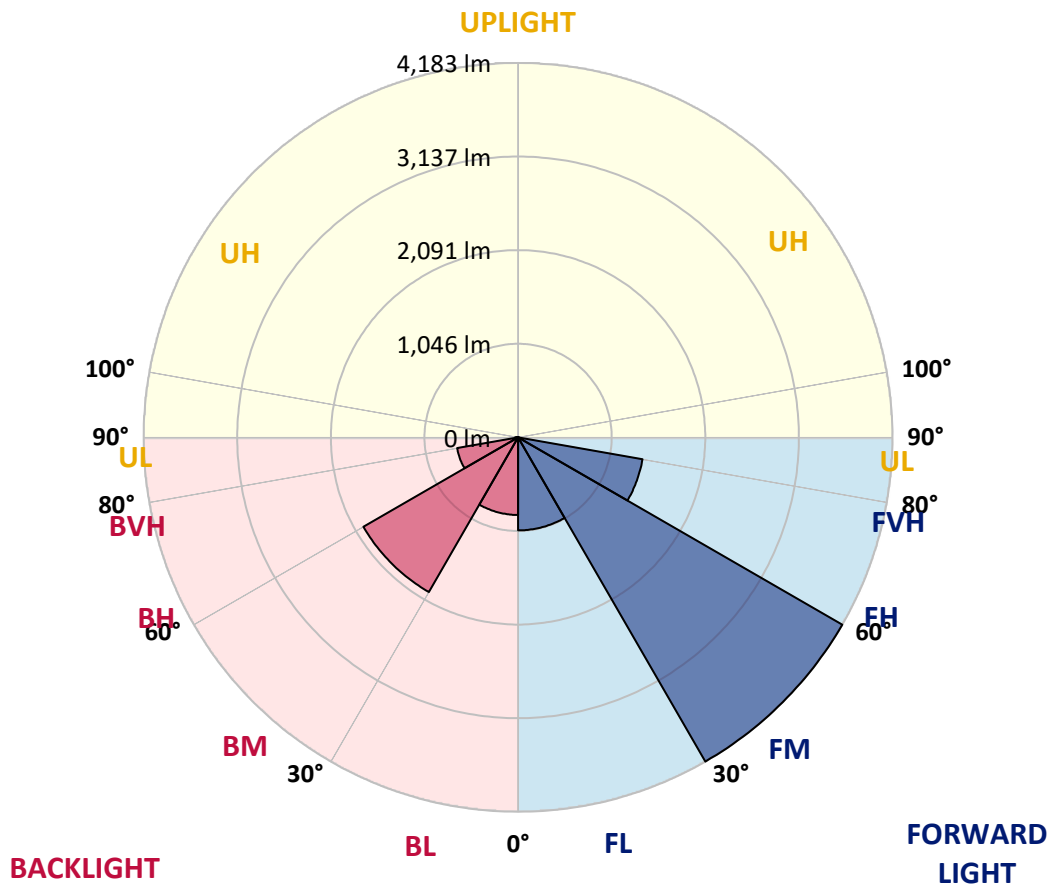
CATALOG NUMBER: GWS-SA5B-722-U-SLR-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.0	10.2			
FM (30°-60°)	4182.6	40.9			
FH (60°-80°)	1411.8	13.8			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	867.0	8.5	B2/1000		
BM (30°-60°)	1995.3	19.5	B2/2500		
BH (60°-80°)	691.2	6.8	B2/1000		G2/1000
BVH (80°-90°)	33.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2.5°	2198.7	2213.7	2223.1	2240.9	2272.8	2290.6	2310.3	2288.7	2294.3	2291.5	2256.8
5°	2329.0	2346.8	2371.2	2423.7	2482.8	2515.6	2546.5	2541.9	2512.8	2464.0	2429.3
7.5°	2450.9	2471.5	2513.7	2599.0	2686.2	2736.9	2774.4	2750.0	2725.6	2648.7	2561.5
10°	2546.5	2558.7	2615.9	2730.3	2831.6	2888.8	2934.7	2929.1	2895.3	2809.1	2691.9
12.5°	2636.6	2645.0	2706.9	2821.3	2912.2	2937.5	2975.0	2987.2	2976.0	2911.3	2795.9
15°	2733.1	2749.1	2806.3	2893.5	2934.7	2908.5	2921.6	2955.3	2987.2	2987.2	2881.3
17.5°	2823.1	2837.2	2895.3	2932.8	2893.5	2824.1	2827.8	2871.0	2946.9	3026.6	2959.1
20°	2902.8	2916.0	2973.2	2937.5	2812.8	2711.6	2708.7	2761.3	2884.1	3051.9	3042.5
22.5°	2990.0	3008.8	3056.6	2941.3	2737.8	2609.4	2608.4	2662.8	2828.8	3077.2	3138.2
25°	3113.8	3142.9	3167.2	2974.1	2697.5	2542.8	2555.0	2606.6	2810.9	3118.5	3279.8
27.5°	3297.6	3321.0	3319.1	3042.5	2695.6	2515.6	2540.9	2600.9	2842.8	3191.6	3428.8
30°	3496.3	3508.5	3488.8	3138.2	2738.8	2532.5	2570.0	2641.2	2923.5	3312.6	3648.2
32.5°	3716.7	3731.7	3694.2	3281.6	2839.1	2657.2	2739.7	2774.4	3036.9	3487.0	3880.8
35°	3969.8	3998.9	3921.1	3471.0	3134.4	3111.9	3231.9	3186.9	3277.9	3693.2	4129.2
37.5°	4236.1	4237.1	4125.5	3751.4	3713.9	3752.3	3992.3	3851.7	3788.9	3923.0	4382.4
40°	4462.1	4456.5	4284.9	4129.2	4218.3	4371.1	4660.8	4445.2	4280.2	4231.4	4592.4
42.5°	4688.0	4667.4	4494.0	4369.3	4566.2	4880.2	5207.5	4943.1	4595.2	4511.8	4799.6
45°	4976.8	4970.3	4761.2	4464.9	4880.2	5450.3	5884.4	5455.9	4781.8	4674.9	5144.7
47.5°	5442.8	5410.9	5021.8	4457.4	5174.7	6209.8	6758.3	6102.0	4912.1	4678.7	5701.6
50°	5898.5	5859.1	5333.1	4456.5	5478.4	6997.4	7789.6	6886.7	5045.3	4701.2	6267.9
52.5°	6358.9	6358.9	5844.1	4562.4	5797.2	7876.8	8981.3	7864.7	5272.2	4995.6	6964.6
55°	6632.6	6705.8	6418.9	4741.5	6170.4	8912.0	10159.9	8920.4	5622.8	5527.2	7607.8
57.5°	6284.8	6421.7	6380.4	4616.8	6390.7	9672.4	11159.4	9721.1	5796.3	5590.0	7511.2
60°	5121.2	5311.5	5406.2	3986.7	6173.2	9760.5	11368.5	9773.6	5438.1	4760.2	6433.9
62.5°	3404.5	3561.0	3705.4	2848.5	5344.4	8780.7	10054.9	8783.5	4541.8	3552.6	4457.4
65°	1669.9	1786.1	1941.8	1683.9	4175.2	7336.8	7839.3	7097.7	3285.4	1988.7	2273.7
67.5°	436.9	469.7	491.3	653.5	2991.0	5271.2	5112.8	5191.5	2110.6	649.8	594.4
70°	226.9	228.8	227.8	270.0	2021.5	3350.1	3523.5	3260.1	1473.0	271.9	234.4
72.5°	162.2	163.1	160.3	181.9	976.0	1919.3	1988.7	1967.1	771.7	161.3	160.3
75°	105.9	106.9	105.0	106.9	147.2	218.5	201.6	211.9	128.5	102.2	102.2
77.5°	62.8	63.8	62.8	64.7	62.8	62.8	58.1	58.1	55.3	55.3	56.3
80°	42.2	42.2	41.3	43.1	39.4	39.4	37.5	36.6	33.8	32.8	32.8
82.5°	25.3	26.3	25.3	25.3	23.4	23.4	21.6	20.6	17.8	17.8	16.9
85°	13.1	13.1	12.2	12.2	10.3	9.4	7.5	7.5	5.6	4.7	4.7
87.5°	1.9	1.9	0.9	0.9	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°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2.5°	2247.4	2228.7	2200.6	2173.4	2148.1	2121.8	2091.8	2060.9	2034.6	2007.4	1993.4
5°	2383.4	2345.0	2271.8	2207.1	2149.0	2101.2	2049.6	2005.5	1964.3	1930.5	1913.7
7.5°	2506.2	2446.2	2335.6	2233.4	2154.6	2089.0	2017.7	1952.1	1896.8	1855.5	1839.6
10°	2619.7	2548.4	2403.1	2273.7	2181.8	2108.7	2021.5	1932.4	1859.3	1804.9	1791.8
12.5°	2711.6	2630.0	2456.5	2306.5	2197.8	2119.0	2042.1	1965.2	1893.0	1822.7	1811.5
15°	2793.1	2696.6	2496.8	2327.1	2192.1	2091.8	2027.1	2017.7	2017.7	1938.0	1915.5
17.5°	2863.5	2757.5	2529.7	2336.5	2156.5	2011.2	1971.8	2053.4	2145.2	2088.1	2037.4
20°	2944.1	2815.6	2556.9	2336.5	2090.9	1909.0	1905.2	2044.0	2179.9	2180.9	2127.4
22.5°	3025.7	2883.1	2588.7	2328.1	2000.9	1790.8	1860.2	2006.5	2127.4	2179.0	2142.4
25°	3157.9	2976.9	2639.4	2321.5	1895.8	1710.2	1819.9	1956.8	2059.0	2113.4	2089.9
27.5°	3325.7	3100.7	2716.3	2331.8	1791.8	1662.4	1776.8	1892.1	1984.9	2032.7	2015.9
30°	3513.2	3243.2	2798.8	2349.6	1716.8	1638.0	1725.2	1818.0	1900.5	1948.3	1940.8
32.5°	3752.3	3397.9	2870.0	2325.3	1674.6	1625.8	1670.8	1737.4	1817.1	1847.1	1853.7
35°	4038.3	3568.5	2924.4	2229.6	1636.1	1612.7	1611.7	1653.0	1709.3	1757.1	1761.8
37.5°	4301.7	3768.2	2984.4	2065.6	1566.7	1579.9	1542.4	1566.7	1622.1	1669.9	1688.6
40°	4562.4	3970.8	3067.9	1856.5	1475.8	1506.7	1462.7	1479.5	1523.6	1586.4	1616.4
42.5°	4815.6	4153.6	3156.0	1642.7	1384.8	1404.5	1371.7	1388.6	1434.5	1513.3	1547.1
45°	5091.2	4401.1	3224.4	1441.1	1306.1	1297.6	1271.4	1295.8	1365.2	1451.4	1491.7
47.5°	5612.5	4791.2	3269.4	1307.0	1263.9	1203.0	1172.9	1225.5	1304.2	1391.4	1440.2
50°	6249.2	5355.6	3256.3	1221.7	1227.3	1105.4	1095.1	1164.5	1248.9	1339.8	1393.3
52.5°	6753.6	5909.7	3107.2	1140.1	1156.1	1043.6	1013.6	1114.8	1195.5	1288.3	1343.6
55°	7138.9	6096.3	2649.7	1043.6	1039.8	998.6	935.7	1063.2	1142.0	1228.3	1288.3
57.5°	6824.8	5681.0	1964.3	910.4	887.9	909.5	848.5	976.0	1076.4	1161.7	1215.1
60°	5664.1	4529.6	1094.2	806.3	742.6	795.1	785.7	884.2	1005.1	1095.1	1141.1
62.5°	3845.1	3016.3	648.8	637.6	601.9	677.0	726.6	791.3	910.4	983.6	1026.7
65°	1916.5	1465.5	431.3	477.2	481.9	556.9	650.7	722.0	821.3	896.4	939.5
67.5°	556.0	455.7	328.2	364.7	415.4	475.4	550.4	634.8	731.3	820.4	871.0
70°	240.0	242.8	260.7	303.8	353.5	415.4	490.4	572.9	654.5	722.9	761.3
72.5°	169.7	176.3	196.0	240.0	286.9	346.0	421.0	500.7	559.8	629.1	669.5
75°	108.8	113.5	129.4	163.1	197.8	255.0	326.3	399.4	460.4	510.1	548.5
77.5°	60.0	60.9	74.1	93.8	117.2	153.8	206.3	263.5	308.5	336.6	371.3
80°	34.7	34.7	41.3	53.4	67.5	90.0	119.1	147.2	174.4	192.2	209.1
82.5°	18.8	18.8	21.6	29.1	36.6	49.7	66.6	80.6	97.5	106.9	118.1
85°	5.6	5.6	7.5	10.3	13.1	18.8	26.3	33.8	41.3	47.8	54.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2.5°	1990.5	1977.4	1969.9	1960.5	1963.4	1954.9	1950.2	1953.0	1936.2	1953.0	1969.9
5°	1907.1	1888.3	1873.3	1861.2	1855.5	1844.3	1837.7	1837.7	1827.4	1844.3	1864.9
7.5°	1834.0	1819.0	1811.5	1804.0	1795.5	1785.2	1774.0	1770.2	1763.6	1781.5	1799.3
10°	1785.2	1787.1	1791.8	1802.1	1800.2	1793.6	1776.8	1767.4	1767.4	1788.0	1815.2
12.5°	1807.7	1827.4	1838.6	1857.4	1861.2	1855.5	1838.6	1831.1	1849.9	1880.8	1925.8
15°	1894.9	1908.0	1917.4	1932.4	1931.5	1926.8	1913.7	1919.3	1981.2	2041.2	2081.5
17.5°	1989.6	1974.6	1972.7	1982.1	1984.9	1979.3	1971.8	1997.1	2099.3	2155.6	2176.2
20°	2058.0	2006.5	1995.2	1999.0	2006.5	2003.7	2003.7	2044.9	2150.9	2177.1	2150.9
22.5°	2078.7	2005.5	1988.7	1989.6	1999.9	2000.9	2005.5	2048.7	2110.6	2111.5	2071.2
25°	2045.9	1975.5	1963.4	1965.2	1977.4	1976.5	1978.4	2002.7	2029.9	2018.7	1988.7
27.5°	1984.0	1923.0	1919.3	1929.6	1945.5	1937.1	1931.5	1938.0	1951.2	1937.1	1910.8
30°	1913.7	1862.1	1864.0	1883.7	1900.5	1886.5	1872.4	1876.2	1877.1	1862.1	1832.1
32.5°	1839.6	1801.1	1807.7	1828.3	1848.0	1833.0	1818.0	1816.1	1798.3	1780.5	1751.5
35°	1765.5	1750.5	1759.0	1775.8	1792.7	1780.5	1771.1	1765.5	1727.1	1700.8	1676.4
37.5°	1698.0	1709.3	1724.3	1734.6	1740.2	1739.3	1733.6	1720.5	1669.9	1638.9	1607.1
40°	1638.0	1672.7	1688.6	1693.3	1701.8	1699.9	1698.9	1680.2	1613.6	1580.8	1544.2
42.5°	1583.6	1632.4	1659.6	1664.3	1668.9	1669.9	1667.1	1639.9	1563.9	1525.5	1490.8
45°	1531.1	1594.9	1629.6	1624.9	1631.4	1631.4	1634.3	1598.6	1515.2	1475.8	1439.2
47.5°	1485.2	1560.2	1592.1	1586.4	1590.2	1593.0	1595.8	1554.6	1461.7	1424.2	1386.7
50°	1443.0	1522.7	1549.9	1551.7	1551.7	1558.3	1557.4	1517.0	1416.7	1376.4	1338.9
52.5°	1398.0	1484.2	1513.3	1525.5	1529.2	1532.1	1518.9	1472.0	1370.8	1322.0	1287.3
55°	1345.5	1444.9	1471.1	1487.0	1494.5	1492.7	1474.9	1427.0	1323.9	1275.1	1235.8
57.5°	1265.8	1360.5	1398.0	1405.5	1417.7	1410.2	1389.5	1349.2	1248.9	1200.1	1159.8
60°	1178.6	1247.0	1277.0	1283.6	1274.2	1277.0	1274.2	1235.8	1148.6	1110.1	1068.9
62.5°	1064.2	1125.1	1157.0	1165.4	1149.5	1159.8	1156.1	1108.3	1021.1	980.7	944.2
65°	977.9	1044.5	1082.0	1086.7	1082.0	1086.7	1073.6	1015.4	932.9	891.7	854.2
67.5°	910.4	978.9	1018.2	1031.4	1026.7	1025.7	1005.1	937.6	852.3	807.3	759.5
70°	794.2	854.2	904.8	936.7	936.7	918.9	879.5	816.7	748.2	709.8	672.3
72.5°	703.2	779.2	828.8	861.7	868.2	857.9	802.6	736.0	657.3	618.8	579.4
75°	579.4	653.5	707.0	750.1	758.5	747.3	683.5	617.9	544.8	507.2	467.9
77.5°	387.2	431.3	474.4	513.8	505.4	512.9	469.7	420.0	375.0	346.9	329.1
80°	218.5	247.5	260.7	282.2	282.2	282.2	254.1	230.7	205.3	189.4	171.6
82.5°	123.8	142.5	148.1	166.0	170.6	171.6	152.8	137.8	121.9	113.5	101.3
85°	57.2	67.5	68.4	78.8	82.5	90.0	81.6	71.3	61.9	58.1	50.6
87.5°	1.9	5.6	7.5	14.1	18.8	21.6	23.4	23.4	19.7	17.8	15.0
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: P639034

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1	2102.1
2.5°	1990.5	2013.0	2039.3	2058.0	2091.8	2119.9	2149.0	2180.9	2204.3	2198.7
5°	1890.2	1927.7	1975.5	2019.6	2082.4	2146.2	2216.5	2288.7	2330.9	2329.0
7.5°	1834.0	1887.4	1945.5	2004.6	2078.7	2170.6	2278.4	2390.9	2448.1	2450.9
10°	1864.0	1921.2	1960.5	2010.2	2088.1	2203.4	2332.8	2467.8	2533.4	2546.5
12.5°	1958.7	1954.0	1951.2	1986.8	2080.6	2226.8	2385.3	2546.5	2620.6	2636.6
15°	2048.7	1952.1	1894.0	1918.3	2046.8	2241.8	2436.8	2632.8	2716.3	2733.1
17.5°	2065.6	1919.3	1811.5	1828.3	1993.4	2246.5	2486.5	2717.2	2807.2	2823.1
20°	2018.7	1877.1	1751.5	1728.0	1925.8	2234.3	2517.5	2787.5	2886.0	2902.8
22.5°	1959.6	1839.6	1706.4	1645.5	1843.3	2222.1	2552.2	2861.6	2975.0	2990.0
25°	1897.7	1791.8	1664.3	1571.4	1749.6	2214.6	2610.3	2959.1	3096.0	3113.8
27.5°	1832.1	1733.6	1627.7	1535.8	1663.3	2224.0	2692.8	3116.6	3272.3	3297.6
30°	1761.8	1675.5	1604.2	1523.6	1604.2	2232.4	2783.8	3277.9	3460.7	3496.3
32.5°	1688.6	1622.1	1579.9	1529.2	1567.7	2212.8	2863.5	3458.8	3685.7	3716.7
35°	1615.5	1567.7	1548.9	1539.6	1518.9	2140.6	2928.1	3641.7	3942.6	3969.8
37.5°	1547.1	1511.4	1505.8	1516.1	1443.9	2022.4	3003.2	3874.2	4194.9	4236.1
40°	1483.3	1450.5	1449.5	1447.7	1361.4	1861.2	3104.4	4110.5	4443.3	4462.1
42.5°	1424.2	1383.0	1390.5	1368.0	1293.9	1686.8	3200.1	4312.1	4674.9	4688.0
45°	1371.7	1317.3	1325.8	1297.6	1262.0	1503.9	3284.4	4550.2	4968.4	4976.8
47.5°	1321.1	1263.0	1239.5	1237.6	1256.4	1335.2	3367.0	5008.7	5427.8	5442.8
50°	1274.2	1211.4	1144.8	1186.1	1221.7	1208.6	3470.1	5500.0	5902.2	5898.5
52.5°	1229.2	1146.7	1052.0	1131.7	1131.7	1114.8	3441.0	5798.2	6294.2	6358.9
55°	1177.6	1042.6	955.4	1040.7	999.5	1030.4	2926.3	5895.7	6540.8	6632.6
57.5°	1075.4	914.2	838.2	884.2	822.3	955.4	2102.1	5411.9	6121.6	6284.8
60°	977.0	819.5	769.8	761.3	680.7	779.2	1362.3	4237.1	5038.7	5121.2
62.5°	861.7	737.9	695.7	631.0	547.6	567.3	825.1	2788.4	3385.7	3404.5
65°	774.5	668.5	587.9	511.0	448.2	411.6	487.6	1344.5	1692.4	1669.9
67.5°	664.8	572.9	496.0	440.7	389.1	343.2	324.4	399.4	451.9	436.9
70°	591.6	503.5	429.4	376.9	329.1	283.2	250.3	235.3	230.7	226.9
72.5°	510.1	433.2	356.3	305.7	260.7	218.5	188.5	170.6	166.0	162.2
75°	406.9	334.7	264.4	216.6	177.2	147.2	127.5	112.5	109.7	105.9
77.5°	269.1	214.7	157.5	128.5	105.0	89.1	75.9	66.6	64.7	62.8
80°	148.1	123.8	96.6	77.8	62.8	54.4	49.7	44.1	43.1	42.2
82.5°	88.1	74.1	55.3	44.1	36.6	32.8	30.0	27.2	26.3	25.3
85°	44.1	34.7	24.4	20.6	18.8	16.9	16.9	14.1	13.1	13.1
87.5°	11.3	9.4	5.6	4.7	4.7	4.7	3.8	2.8	2.8	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)