

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: P639858

Luminaire Tested: GWS-SA5C-760-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639858
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-SA5C-760-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12816.9 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

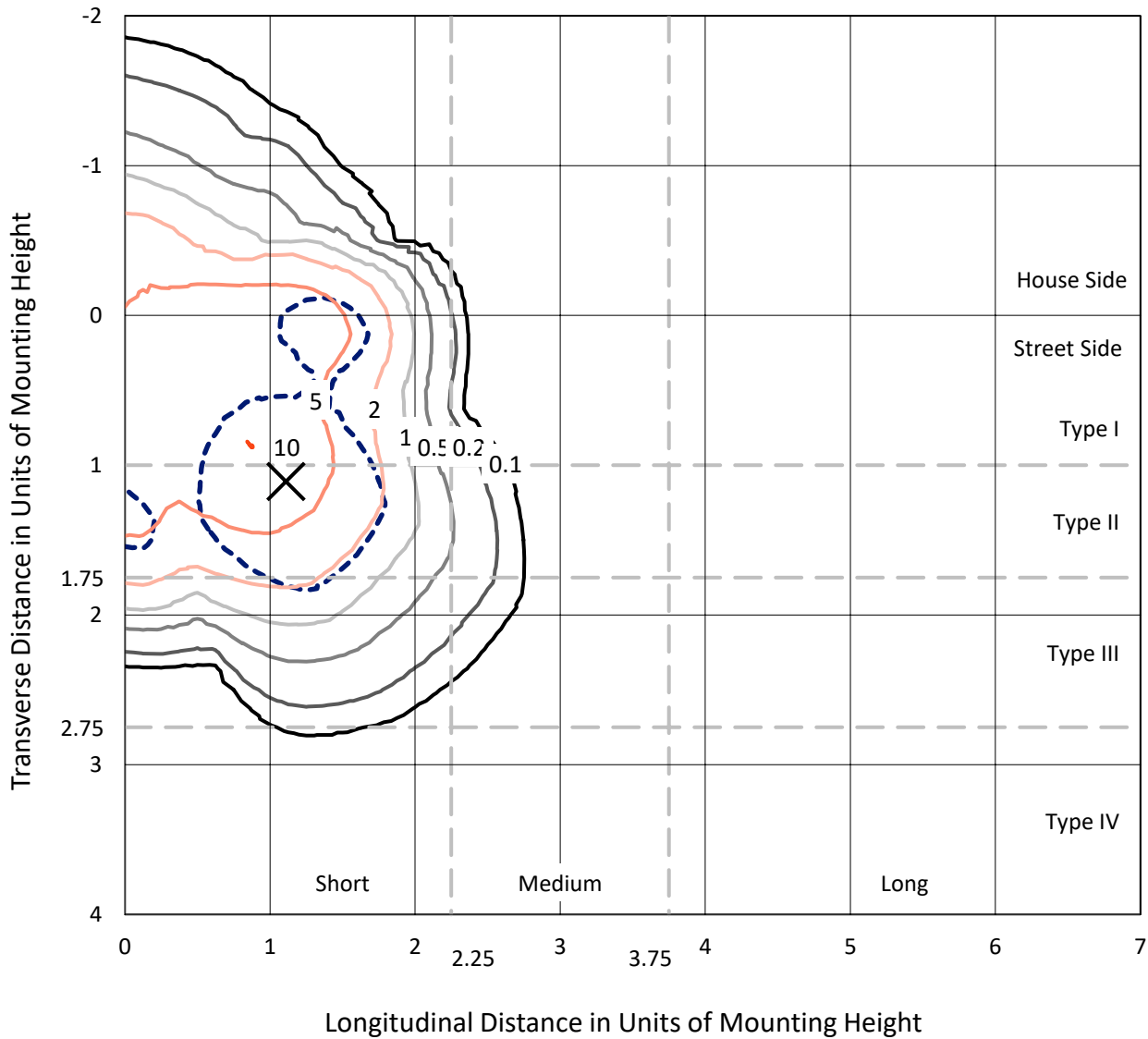
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

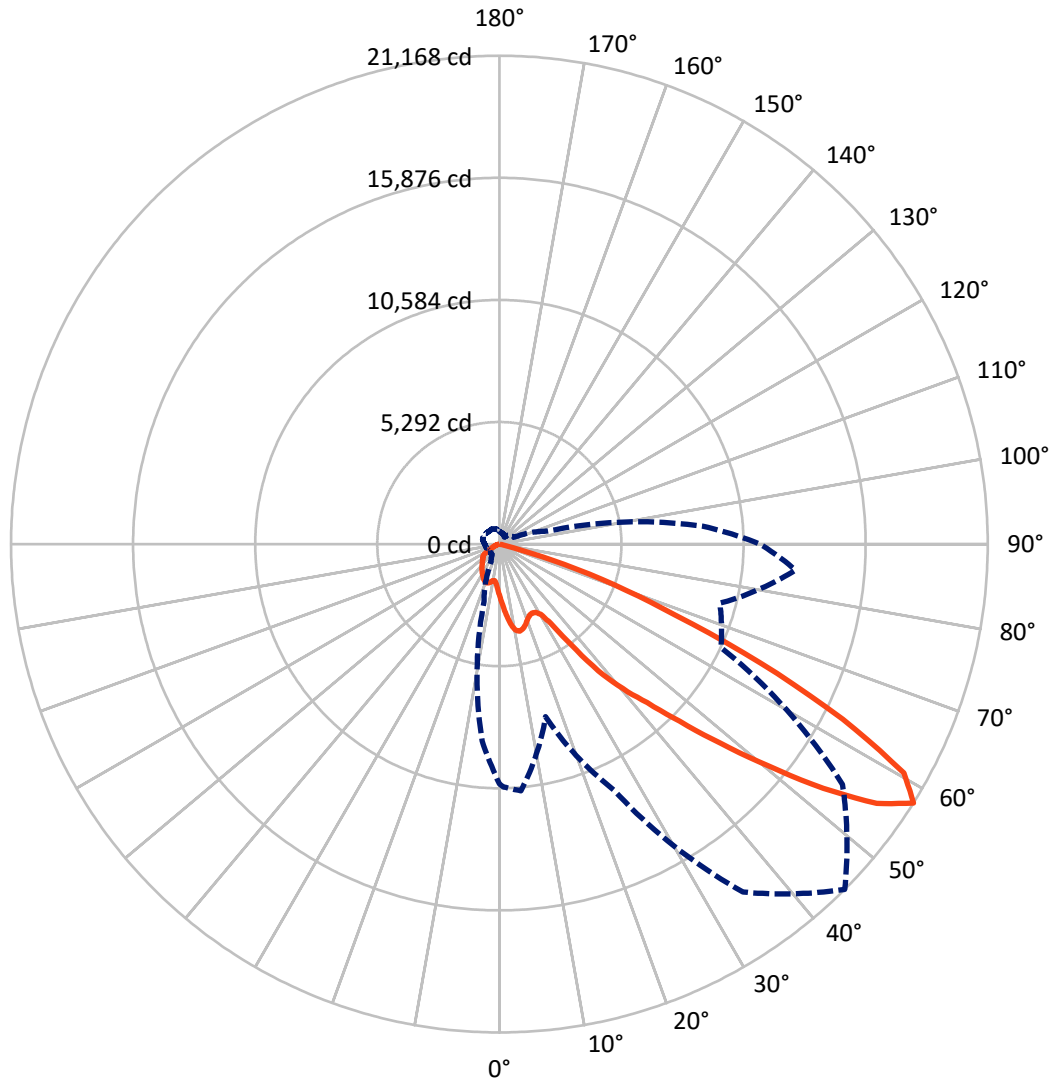
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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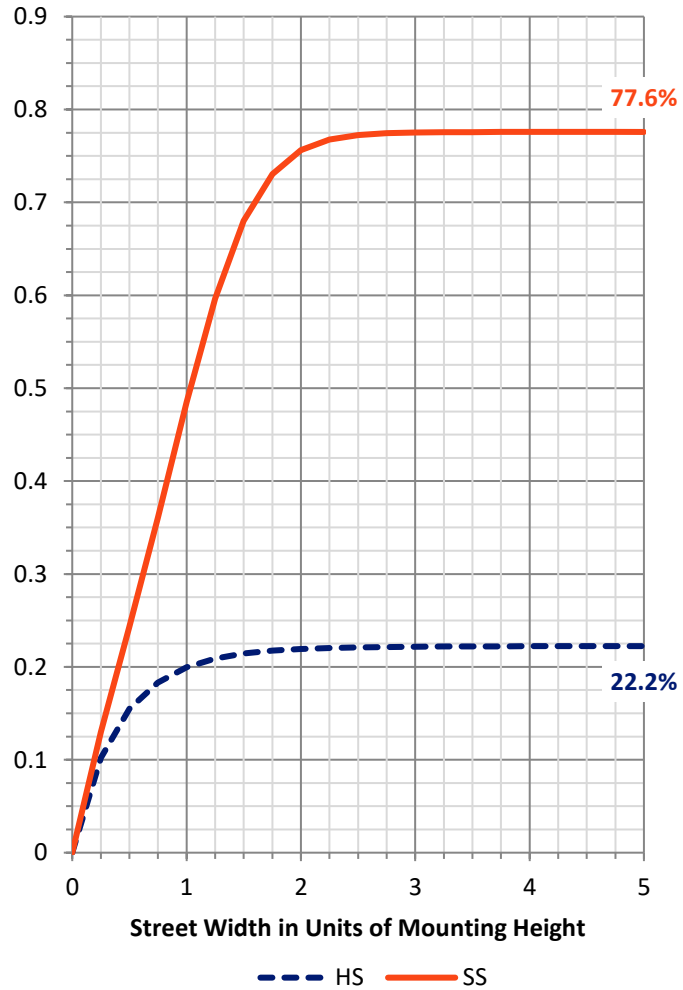
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2870.0	0.0	2870.0
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	9946.9	0.0	9946.9
	% Fixture	77.6	0.0	77.6
Total	Lumens	12816.9	0.0	12816.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.6	1.7
10°-20°	716.9	5.6
20°-30°	1164.6	9.1
30°-40°	1799.4	14.0
40°-50°	2885.4	22.5
50°-60°	3943.6	30.8
60°-70°	1910.0	14.9
70°-80°	174.9	1.4
80°-90°	0.5	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°	12816.9	100.0
0°-180°	12816.9	100.0

Coefficient of Utilization



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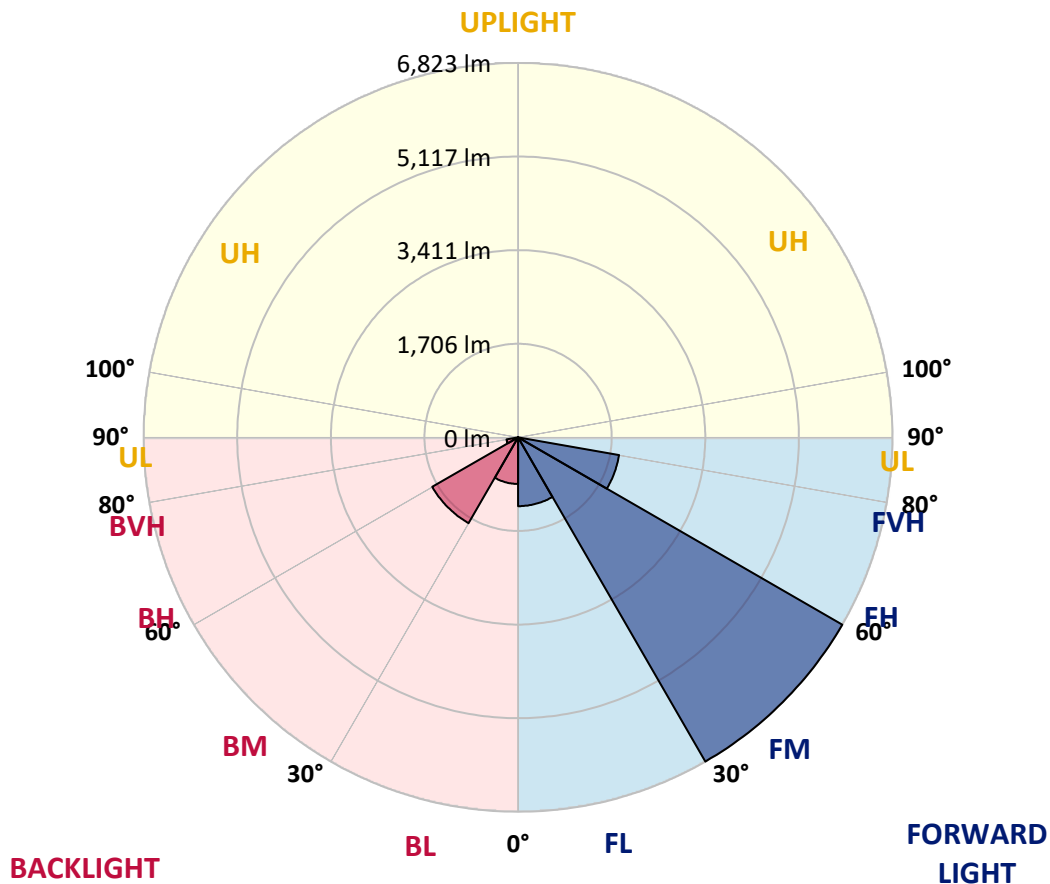
CATALOG NUMBER: GWS-SA5C-760-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1253.9	9.8			
FM (30°-60°)	6822.7	53.2			
FH (60°-80°)	1869.7	14.6			G2/5000
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	849.2	6.6	B2/1000		
BM (30°-60°)	1805.7	14.1	B2/2500		
BH (60°-80°)	215.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7
2.5°	2440.4	2455.9	2481.8	2536.9	2583.4	2614.4	2628.2	2624.7	2605.8	2592.0	2564.4
5°	2702.2	2702.2	2752.2	2877.9	2974.3	3034.6	3065.6	3046.7	3008.8	2948.5	2855.5
7.5°	2931.3	2939.9	3024.3	3203.4	3349.8	3435.9	3485.8	3475.5	3408.3	3292.9	3106.9
10°	3110.4	3120.7	3232.7	3451.4	3623.6	3711.5	3785.5	3792.4	3718.3	3565.1	3351.5
12.5°	3284.3	3294.7	3411.8	3621.9	3773.5	3809.6	3875.1	3900.9	3882.0	3773.5	3551.3
15°	3472.1	3496.2	3596.1	3752.8	3816.5	3773.5	3816.5	3863.0	3926.7	3916.4	3716.6
17.5°	3656.3	3673.6	3775.2	3830.3	3759.7	3647.7	3668.4	3723.5	3868.2	4009.4	3880.2
20°	3826.8	3851.0	3935.3	3863.0	3649.5	3475.5	3477.2	3549.6	3770.0	4066.2	4047.3
22.5°	4006.0	4042.1	4102.4	3899.2	3547.8	3339.4	3348.1	3413.5	3692.5	4119.6	4236.7
25°	4240.2	4274.6	4314.2	3988.7	3515.1	3272.3	3305.0	3365.3	3692.5	4210.9	4471.0
27.5°	4557.1	4581.2	4582.9	4155.8	3572.0	3282.6	3351.5	3420.4	3802.7	4393.5	4784.4
30°	4954.9	4992.8	4942.9	4415.9	3749.3	3420.4	3522.0	3608.1	4040.4	4701.8	5246.0
32.5°	5438.9	5492.3	5425.1	4801.6	4119.6	3895.7	4080.0	4130.0	4419.3	5147.8	5769.5
35°	6007.2	6052.0	5979.7	5335.5	4984.2	5025.5	5359.7	5295.9	5180.5	5697.2	6380.9
37.5°	6630.7	6672.0	6532.5	6145.0	6262.1	6441.2	6975.1	6756.4	6384.4	6405.1	7044.0
40°	7202.5	7247.2	7028.5	7025.1	7266.2	7593.4	8237.5	7936.1	7429.8	7331.6	7665.8
42.5°	7794.9	7825.9	7627.9	7493.5	8041.2	8714.6	9396.6	8990.2	8122.1	8015.4	8444.2
45°	8640.5	8706.0	8352.9	7724.3	8738.7	10004.6	10955.3	10161.3	8594.0	8507.9	9636.0
47.5°	9884.0	9932.2	9212.3	7869.0	9388.0	11611.4	12903.1	11680.3	9009.1	8812.8	11265.3
50°	10912.2	10944.9	10002.8	8027.4	10078.6	13344.0	15123.1	13481.8	9475.8	9317.4	12786.0
52.5°	11670.0	11794.0	11041.4	8352.9	10986.3	15381.4	17580.8	15615.7	10204.4	10292.2	14046.7
55°	11826.7	11995.5	11750.9	8552.7	11785.4	17456.8	19850.7	17525.7	10931.1	11031.0	14470.4
57.5°	10393.8	10528.1	10731.4	7746.7	11766.4	18407.4	21168.2	18159.4	10600.5	9892.6	12884.2
60°	7786.3	7879.3	8247.9	5921.1	10820.9	17567.0	20141.8	17081.3	9269.2	7548.6	9816.8
62.5°	4617.4	4658.7	5125.4	3835.5	8981.6	15128.3	16704.1	14739.0	7324.7	5077.2	6012.4
65°	1772.2	1755.0	2111.5	1892.8	6604.8	12050.6	12424.3	11236.0	5025.5	2326.8	2292.3
67.5°	273.8	261.8	353.1	559.7	4763.8	8351.2	8197.9	8098.0	3148.3	542.5	473.6
70°	62.0	62.0	75.8	165.3	2910.6	4906.7	5251.2	5006.6	2015.0	115.4	62.0
72.5°	29.3	29.3	36.2	70.6	1054.0	2021.9	2356.0	2319.9	654.5	37.9	22.4
75°	10.3	12.1	12.1	15.5	63.7	105.1	241.1	172.2	41.3	0.0	0.0
77.5°	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.7	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7
2.5°	2504.2	2492.1	2447.3	2387.0	2328.5	2276.8	2223.4	2159.7	2113.2	2059.8	2042.6
5°	2783.2	2707.4	2585.1	2457.7	2340.5	2240.7	2144.2	2040.9	1965.1	1889.3	1863.5
7.5°	3019.1	2907.2	2709.1	2517.9	2357.8	2216.5	2077.0	1935.8	1825.6	1736.0	1708.5
10°	3230.9	3101.8	2836.6	2600.6	2399.1	2235.5	2066.7	1889.3	1746.4	1639.6	1613.8
12.5°	3413.5	3263.7	2945.1	2662.6	2416.3	2228.6	2065.0	1923.8	1794.6	1672.3	1639.6
15°	3566.8	3401.5	3036.3	2703.9	2390.5	2142.5	1999.5	1977.1	1966.8	1832.5	1768.8
17.5°	3716.6	3530.6	3110.4	2722.9	2318.2	1990.9	1887.6	1989.2	2097.7	2009.9	1928.9
20°	3873.3	3661.5	3186.2	2726.3	2197.6	1820.4	1803.2	1963.4	2101.1	2073.6	1997.8
22.5°	4057.6	3825.1	3280.9	2724.6	2046.0	1675.8	1741.2	1913.4	2025.4	2023.6	1963.4
25°	4324.6	4031.8	3408.3	2734.9	1880.7	1563.8	1672.3	1829.0	1920.3	1916.9	1866.9
27.5°	4610.5	4278.1	3573.7	2760.8	1739.5	1498.4	1591.4	1713.6	1792.9	1789.4	1746.4
30°	5011.8	4562.2	3732.1	2762.5	1637.9	1463.9	1501.8	1586.2	1662.0	1653.4	1620.6
32.5°	5499.2	4882.6	3864.7	2664.3	1574.1	1431.2	1408.8	1451.9	1510.4	1498.4	1489.7
35°	6088.2	5263.2	3978.4	2449.0	1476.0	1365.7	1305.5	1314.1	1355.4	1362.3	1358.9
37.5°	6759.8	5716.2	4119.6	2164.9	1343.4	1271.0	1190.1	1183.2	1207.3	1229.7	1246.9
40°	7422.9	6225.9	4310.8	1877.3	1222.8	1150.5	1073.0	1055.7	1066.1	1105.7	1141.9
42.5°	8168.6	6816.7	4517.5	1631.0	1140.1	1017.9	943.8	911.1	940.4	1004.1	1047.1
45°	9243.3	7645.1	4719.0	1434.6	1105.7	900.7	800.8	797.4	830.1	912.8	961.0
47.5°	10752.0	8716.3	4851.6	1281.4	1104.0	809.5	690.6	711.3	749.2	830.1	885.2
50°	12222.8	10058.0	4705.2	1164.2	1067.8	749.2	608.0	649.3	687.2	757.8	814.6
52.5°	13109.8	10779.6	4135.1	1054.0	955.9	721.6	527.0	599.3	606.2	670.0	730.2
55°	13016.8	10312.9	3167.2	883.5	790.5	682.0	442.6	540.8	544.2	592.5	644.1
57.5°	11298.0	8854.1	2175.2	716.5	594.2	563.2	365.1	456.4	489.1	518.4	556.3
60°	8420.1	6460.2	969.6	582.1	377.2	380.6	311.7	344.5	394.4	428.8	461.6
62.5°	4961.8	3716.6	394.4	349.6	208.4	239.4	251.4	251.4	282.4	308.3	329.0
65°	1875.5	1300.3	160.2	175.7	108.5	111.9	148.1	182.6	206.7	229.1	256.6
67.5°	329.0	227.3	82.7	65.4	63.7	56.8	75.8	118.8	132.6	149.8	161.9
70°	55.1	46.5	34.4	32.7	29.3	31.0	49.9	84.4	93.0	98.2	103.3
72.5°	15.5	13.8	10.3	8.6	6.9	8.6	31.0	65.4	68.9	72.3	77.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	12.1	46.5	49.9	51.7	56.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	13.8	17.2	13.8
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°	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7
2.5°	2032.3	1997.8	1978.9	1968.5	1968.5	1954.8	1939.3	1934.1	1956.5	1956.5	1994.4
5°	1830.8	1803.2	1772.2	1753.3	1724.0	1729.1	1711.9	1710.2	1732.6	1742.9	1782.5
7.5°	1691.3	1656.8	1637.9	1625.8	1610.3	1603.4	1587.9	1582.8	1594.8	1612.0	1649.9
10°	1598.3	1593.1	1591.4	1600.0	1600.0	1591.4	1577.6	1569.0	1572.4	1605.1	1648.2
12.5°	1622.4	1632.7	1636.1	1649.9	1656.8	1649.9	1639.6	1643.0	1665.4	1725.7	1789.4
15°	1727.4	1718.8	1715.4	1722.3	1727.4	1720.5	1717.1	1742.9	1820.4	1906.5	1978.9
17.5°	1839.4	1784.3	1760.1	1760.1	1763.6	1760.1	1763.6	1813.5	1939.3	2025.4	2078.8
20°	1896.2	1794.6	1756.7	1748.1	1755.0	1756.7	1768.8	1825.6	1963.4	2023.6	2035.7
22.5°	1879.0	1751.5	1708.5	1701.6	1708.5	1715.4	1727.4	1775.6	1904.8	1935.8	1930.6
25°	1792.9	1667.1	1632.7	1632.7	1648.2	1646.5	1651.6	1686.1	1792.9	1811.8	1803.2
27.5°	1684.4	1565.5	1536.3	1553.5	1567.3	1563.8	1565.5	1594.8	1674.0	1679.2	1670.6
30°	1574.1	1470.8	1443.2	1463.9	1482.9	1479.4	1481.1	1510.4	1560.4	1555.2	1543.1
32.5°	1462.2	1386.4	1365.7	1377.8	1407.1	1403.6	1410.5	1441.5	1460.5	1438.1	1424.3
35°	1358.9	1319.2	1303.7	1310.6	1333.0	1338.2	1350.2	1370.9	1370.9	1343.4	1319.2
37.5°	1262.4	1257.2	1246.9	1238.3	1259.0	1274.5	1291.7	1315.8	1281.4	1241.7	1219.4
40°	1172.9	1195.2	1181.5	1159.1	1171.1	1193.5	1228.0	1246.9	1205.6	1166.0	1128.1
42.5°	1090.2	1128.1	1122.9	1095.4	1105.7	1126.4	1166.0	1181.5	1133.2	1088.5	1052.3
45°	1011.0	1064.4	1067.8	1033.4	1043.7	1064.4	1110.9	1116.0	1054.0	1005.8	980.0
47.5°	942.1	1000.6	1002.4	976.5	980.0	1009.2	1052.3	1054.0	983.4	938.6	905.9
50°	876.6	943.8	949.0	926.6	930.0	964.5	1000.6	993.7	918.0	871.5	842.2
52.5°	797.4	888.7	900.7	890.4	904.2	931.7	954.1	930.0	842.2	795.7	769.8
55°	711.3	830.1	856.0	849.1	864.6	887.0	892.1	876.6	766.4	719.9	695.8
57.5°	611.4	683.7	728.5	714.7	726.8	749.2	764.7	752.6	670.0	633.8	613.1
60°	506.3	554.6	564.9	542.5	532.2	571.8	608.0	592.5	521.8	499.5	475.3
62.5°	370.3	425.4	432.3	403.0	391.0	434.0	465.0	449.5	372.0	347.9	329.0
65°	296.2	347.9	361.7	334.1	327.2	360.0	378.9	341.0	285.9	260.1	239.4
67.5°	194.6	235.9	272.1	270.4	256.6	266.9	253.2	222.2	182.6	168.8	155.0
70°	120.6	144.7	167.1	175.7	173.9	170.5	151.6	129.2	117.1	111.9	105.1
72.5°	93.0	117.1	134.3	139.5	141.2	136.1	120.6	99.9	87.8	80.9	75.8
75°	68.9	87.8	101.6	108.5	111.9	108.5	93.0	79.2	67.2	62.0	56.8
77.5°	24.1	29.3	36.2	39.6	37.9	36.2	32.7	32.7	25.8	24.1	20.7
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7	2252.7
2.5°	2037.4	2068.4	2125.3	2176.9	2232.0	2288.9	2350.9	2414.6	2443.9	2440.4
5°	1842.8	1910.0	2003.0	2104.6	2218.3	2340.5	2476.6	2616.1	2676.4	2702.2
7.5°	1720.5	1815.3	1937.5	2066.7	2216.5	2390.5	2595.4	2814.2	2902.0	2931.3
10°	1736.0	1846.3	1947.9	2073.6	2233.8	2459.4	2714.3	2974.3	3077.7	3110.4
12.5°	1861.8	1885.9	1913.4	2016.8	2218.3	2511.0	2822.8	3132.8	3251.6	3284.3
15°	1975.4	1863.5	1811.8	1906.5	2163.2	2547.2	2933.0	3303.3	3434.2	3472.1
17.5°	1980.6	1811.8	1696.4	1770.5	2073.6	2562.7	3041.5	3477.2	3620.2	3656.3
20°	1916.9	1755.0	1606.9	1608.6	1951.3	2559.3	3131.1	3634.0	3794.1	3826.8
22.5°	1823.9	1687.8	1534.5	1481.1	1820.4	2552.4	3229.2	3801.0	3975.0	4006.0
25°	1720.5	1601.7	1465.6	1384.7	1689.5	2559.3	3367.0	4019.7	4210.9	4240.2
27.5°	1608.6	1507.0	1412.2	1346.8	1579.3	2585.1	3532.3	4298.7	4526.1	4557.1
30°	1491.5	1415.7	1377.8	1338.2	1510.4	2592.0	3711.5	4624.3	4911.9	4954.9
32.5°	1376.1	1334.7	1336.5	1343.4	1445.0	2543.8	3875.1	4985.9	5370.0	5438.9
35°	1269.3	1257.2	1291.7	1326.1	1350.2	2419.8	4018.0	5413.0	5936.6	6007.2
37.5°	1178.0	1188.4	1231.4	1265.9	1246.9	2244.1	4207.5	5946.9	6570.4	6630.7
40°	1090.2	1116.0	1166.0	1181.5	1167.7	2039.1	4434.8	6461.9	7119.8	7202.5
42.5°	1009.2	1028.2	1098.8	1102.2	1145.3	1830.8	4653.5	7016.5	7751.9	7794.9
45°	943.8	940.4	1012.7	1035.1	1174.6	1600.0	4867.1	7755.3	8578.5	8640.5
47.5°	880.1	876.6	893.8	995.5	1186.6	1386.4	5078.9	8836.9	9777.2	9884.0
50°	819.8	825.0	771.6	976.5	1121.2	1222.8	5175.4	9837.5	10867.4	10912.2
52.5°	766.4	747.5	654.5	914.5	981.7	1067.8	4901.5	10292.2	11542.5	11670.0
55°	690.6	585.6	539.1	742.3	775.0	931.7	4014.6	10028.7	11601.1	11826.7
57.5°	590.7	459.8	458.1	547.7	547.7	864.6	2571.3	8568.2	9997.7	10393.8
60°	454.7	356.5	378.9	380.6	351.3	630.3	1443.2	6207.0	7391.9	7786.3
62.5°	323.8	272.1	285.9	227.3	201.5	315.2	692.3	3573.7	4562.2	4617.4
65°	217.0	184.3	149.8	125.7	124.0	134.3	285.9	1291.7	1570.7	1772.2
67.5°	142.9	111.9	79.2	79.2	89.6	89.6	108.5	213.6	299.7	273.8
70°	93.0	77.5	49.9	48.2	58.6	58.6	55.1	58.6	62.0	62.0
72.5°	68.9	58.6	29.3	25.8	32.7	34.4	31.0	29.3	29.3	29.3
75°	51.7	41.3	17.2	12.1	15.5	20.7	17.2	12.1	12.1	10.3
77.5°	20.7	15.5	6.9	5.2	8.6	12.1	10.3	5.2	3.4	3.4
80°	1.7	3.4	3.4	3.4	5.2	6.9	8.6	3.4	1.7	1.7
82.5°	0.0	1.7	1.7	1.7	3.4	5.2	6.9	3.4	1.7	1.7
85°	0.0	0.0	0.0	0.0	3.4	5.2	3.4	1.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.7	5.2	3.4	1.7	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)