

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: P641013

Luminaire Tested: GWS-SA5F-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641013
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-SA5F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16401.9 lumens
Efficiency: N/A
Efficacy: 52.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

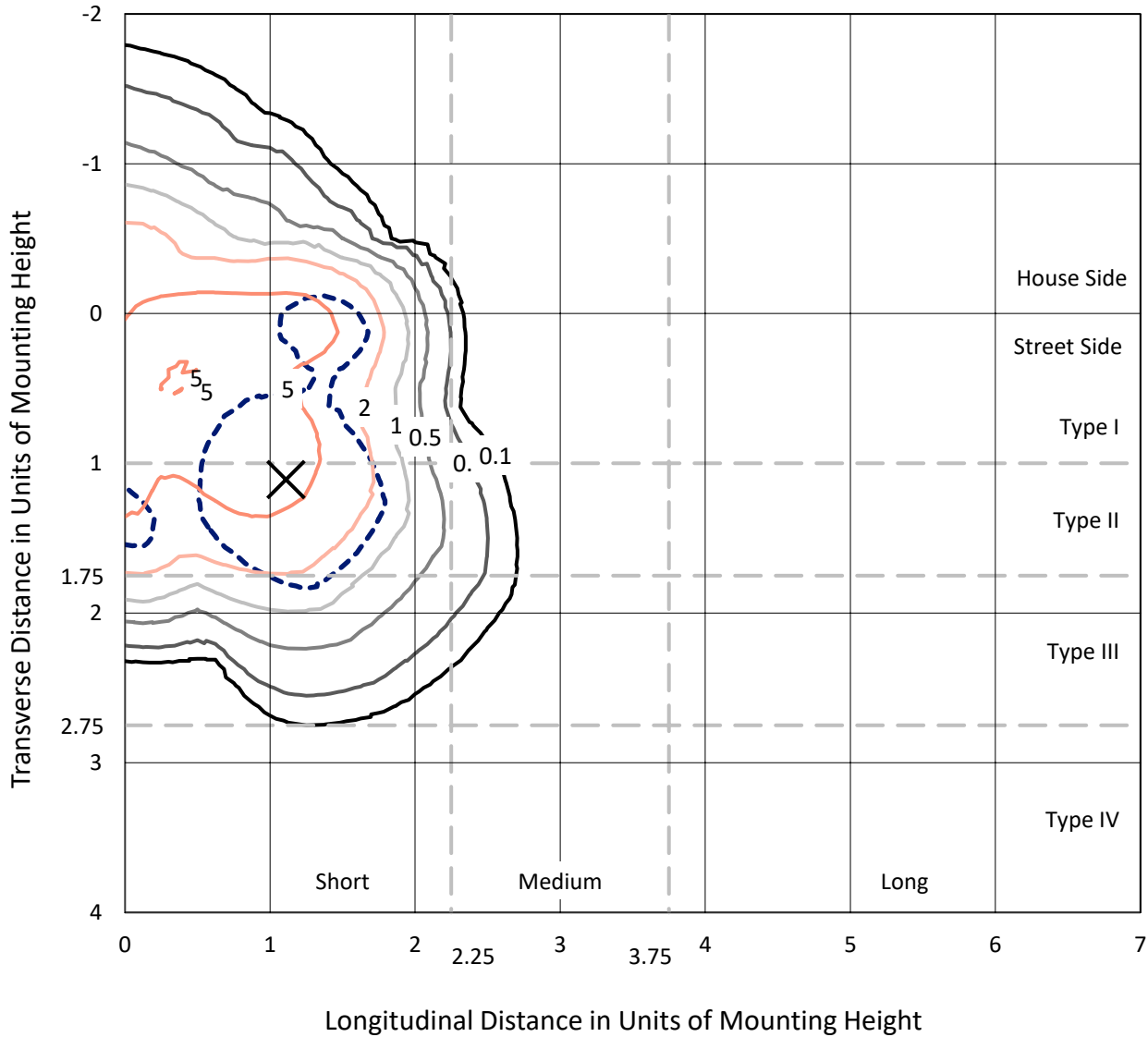
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

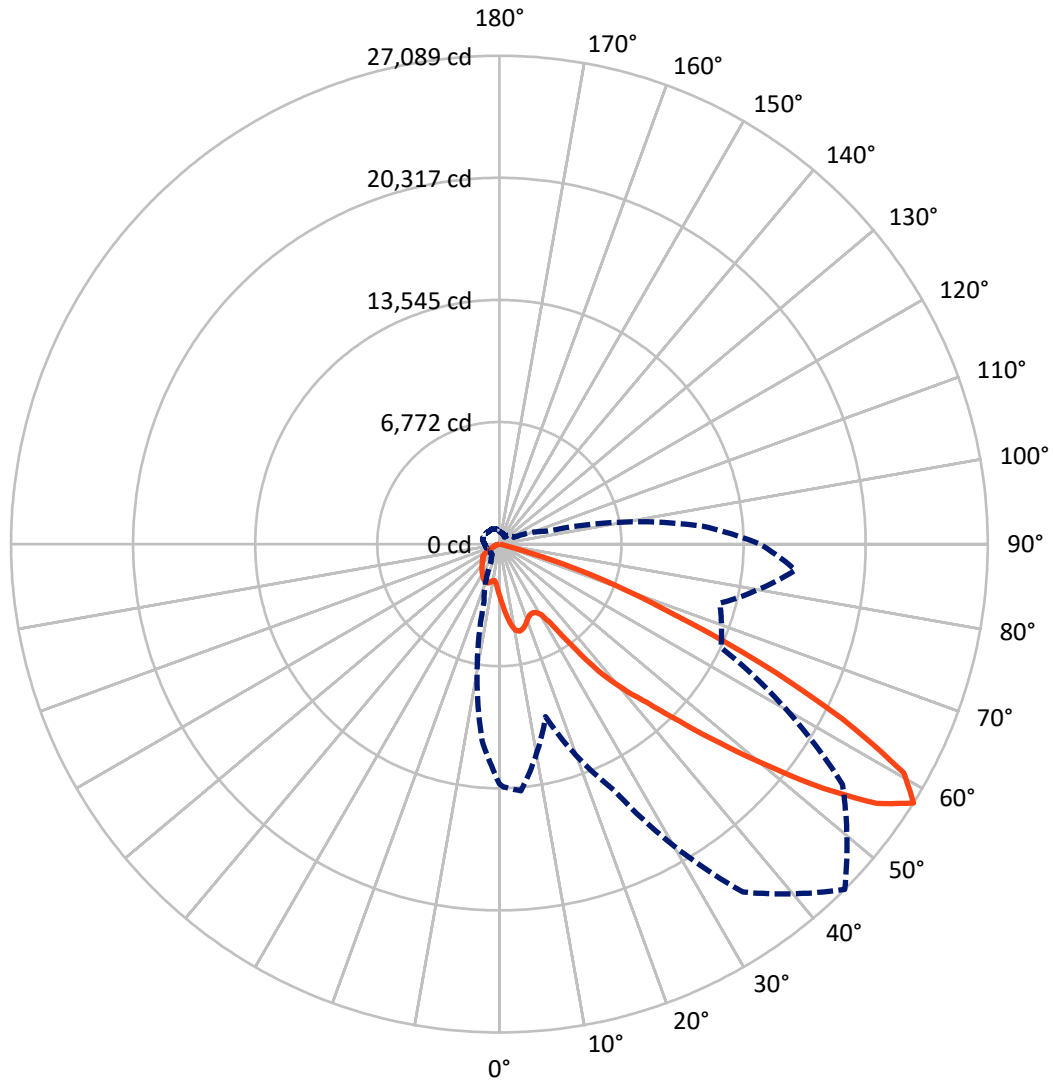
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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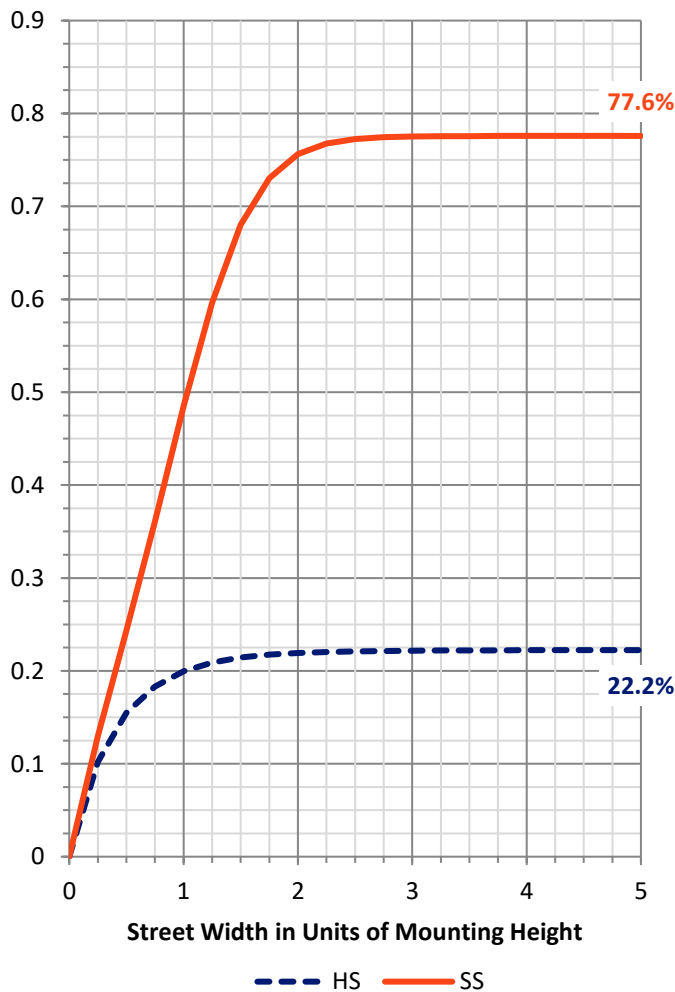
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3672.8	0.0	3672.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	12729.1	0.0	12729.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	16401.9	0.0	16401.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.6	1.7
10°-20°	917.4	5.6
20°-30°	1490.3	9.1
30°-40°	2302.8	14.0
40°-50°	3692.5	22.5
50°-60°	5046.6	30.8
60°-70°	2444.2	14.9
70°-80°	223.8	1.4
80°-90°	0.6	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°	16401.9	100.0
0°-180°	16401.9	100.0

Coefficient of Utilization

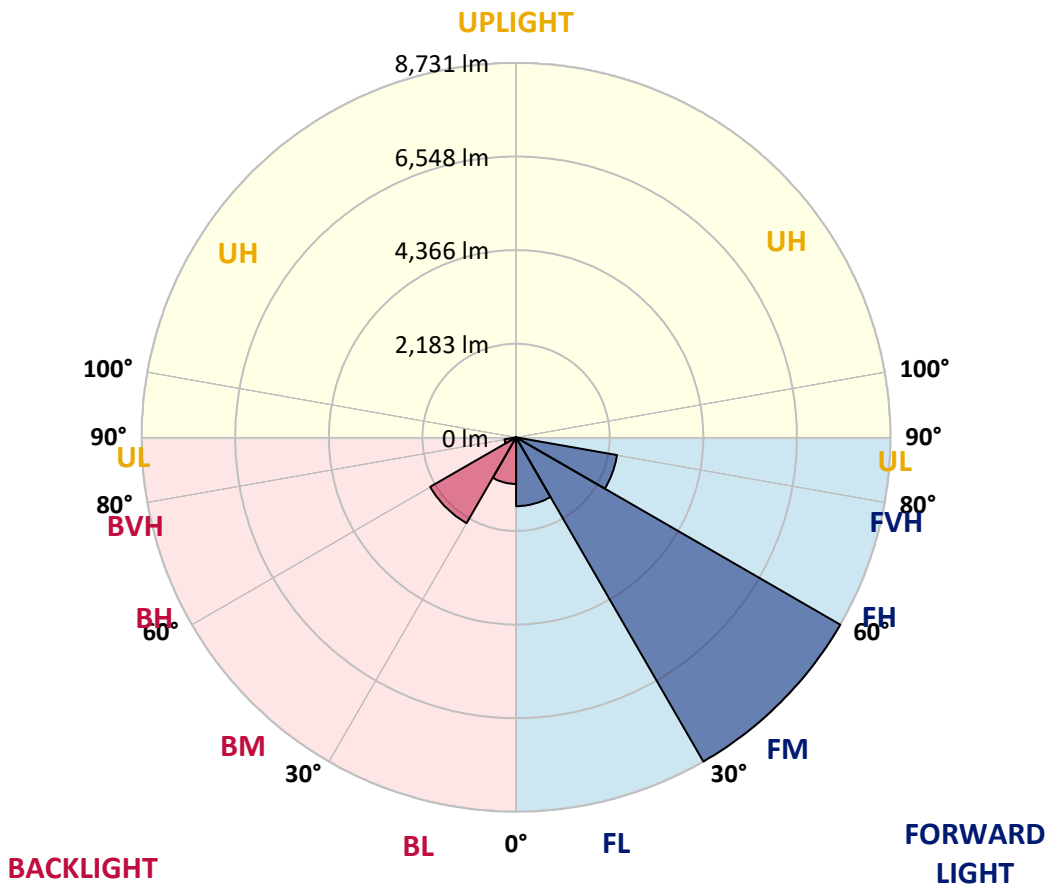


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1604.6	9.8			
FM (30°-60°)	8731.1	53.2			
FH (60°-80°)	2392.7	14.6			G2/5000
FVH (80°-90°)	0.6	0.0			G0/10
BL (0°-30°)	1086.7	6.6	B3/2500		
BM (30°-60°)	2310.8	14.1	B2/2500		
BH (60°-80°)	275.3	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: 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°	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8
2.5°	3123.0	3142.9	3175.9	3246.5	3306.0	3345.6	3363.3	3358.9	3334.6	3317.0	3281.7
5°	3458.0	3458.0	3522.0	3682.9	3806.3	3883.4	3923.1	3898.8	3850.4	3773.2	3654.2
7.5°	3751.2	3762.2	3870.2	4099.4	4286.7	4396.9	4460.9	4447.6	4361.7	4214.0	3976.0
10°	3980.4	3993.6	4136.9	4416.8	4637.2	4749.6	4844.4	4853.2	4758.4	4562.2	4289.0
12.5°	4203.0	4216.2	4366.1	4635.0	4828.9	4875.2	4959.0	4992.0	4967.8	4828.9	4544.6
15°	4443.2	4474.1	4601.9	4802.5	4884.0	4828.9	4884.0	4943.5	5025.1	5011.9	4756.2
17.5°	4679.1	4701.1	4831.1	4901.7	4811.3	4668.0	4694.5	4765.0	4950.1	5130.9	4965.6
20°	4897.3	4928.1	5036.1	4943.5	4670.2	4447.6	4449.8	4542.4	4824.5	5203.6	5179.4
22.5°	5126.5	5172.7	5249.9	4989.8	4540.2	4273.5	4284.5	4368.3	4725.3	5271.9	5421.8
25°	5426.2	5470.3	5521.0	5104.4	4498.3	4187.6	4229.4	4306.6	4725.3	5388.7	5721.5
27.5°	5831.7	5862.6	5864.8	5318.2	4571.1	4200.8	4289.0	4377.1	4866.4	5622.4	6122.7
30°	6340.9	6389.3	6325.4	5651.0	4798.1	4377.1	4507.1	4617.3	5170.5	6016.9	6713.3
32.5°	6960.2	7028.5	6942.5	6144.7	5271.9	4985.4	5221.2	5285.2	5655.4	6587.7	7383.3
35°	7687.5	7744.8	7652.2	6827.9	6378.3	6431.2	6858.8	6777.2	6629.6	7290.8	8165.8
37.5°	8485.3	8538.2	8359.7	7863.8	8013.7	8242.9	8926.1	8646.2	8170.2	8196.6	9014.3
40°	9217.1	9274.4	8994.5	8990.0	9298.6	9717.4	10541.7	10156.0	9508.0	9382.4	9809.9
42.5°	9975.2	10014.9	9761.4	9589.5	10290.4	11152.2	12024.9	11504.8	10394.0	10257.3	10806.1
45°	11057.4	11141.1	10689.3	9884.9	11183.0	12802.9	14019.5	13003.5	10997.9	10887.7	12331.3
47.5°	12648.7	12710.4	11789.1	10070.0	12013.9	14859.3	16512.2	14947.4	11529.0	11277.8	14416.3
50°	13964.4	14006.3	12800.7	10272.8	12897.7	17076.5	19353.2	17252.8	12126.3	11923.5	16362.4
52.5°	14934.2	15092.9	14129.7	10689.3	14059.2	19683.8	22498.3	19983.5	13058.6	13171.0	17975.7
55°	15134.8	15350.7	15037.8	10945.0	15081.9	22339.6	25403.1	22427.7	13988.7	14116.5	18517.9
57.5°	13301.0	13472.9	13733.0	9913.5	15057.6	23556.2	27089.2	23238.8	13565.5	12659.7	16488.0
60°	9964.2	10083.2	10554.9	7577.3	13847.6	22480.6	25775.6	21859.1	11861.8	9660.1	12562.7
62.5°	5908.9	5961.8	6559.1	4908.3	11493.8	19359.8	21376.4	18861.7	9373.5	6497.3	7694.1
65°	2267.9	2245.9	2702.1	2422.2	8452.3	15421.3	15899.5	14378.8	6431.2	2977.6	2933.5
67.5°	350.4	335.0	451.8	716.3	6096.2	10687.1	10491.0	10363.1	4028.9	694.3	606.1
70°	79.3	79.3	97.0	211.6	3724.7	6279.1	6719.9	6407.0	2578.7	147.7	79.3
72.5°	37.5	37.5	46.3	90.4	1348.8	2587.5	3015.0	2968.8	837.5	48.5	28.7
75°	13.2	15.4	15.4	19.8	81.5	134.4	308.6	220.4	52.9	0.0	0.0
77.5°	4.4	4.4	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.2	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°	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8
2.5°	3204.6	3189.2	3131.9	3054.7	2979.8	2913.7	2845.3	2763.8	2704.3	2636.0	2613.9
5°	3561.6	3464.7	3308.2	3145.1	2995.2	2867.4	2744.0	2611.7	2514.7	2417.8	2384.7
7.5°	3863.6	3720.3	3466.9	3222.2	3017.3	2836.5	2658.0	2477.3	2336.2	2221.6	2186.4
10°	4134.7	3969.4	3630.0	3328.0	3070.1	2860.8	2644.8	2417.8	2234.8	2098.2	2065.1
12.5°	4368.3	4176.5	3768.8	3407.4	3092.2	2852.0	2642.6	2461.8	2296.6	2140.1	2098.2
15°	4564.4	4352.9	3885.6	3460.3	3059.1	2741.8	2558.8	2530.2	2516.9	2345.0	2263.5
17.5°	4756.2	4518.2	3980.4	3484.5	2966.6	2547.8	2415.6	2545.6	2684.5	2572.0	2468.5
20°	4956.8	4685.7	4077.4	3488.9	2812.3	2329.6	2307.6	2512.5	2688.9	2653.6	2556.6
22.5°	5192.6	4895.0	4198.6	3486.7	2618.3	2144.5	2228.2	2448.6	2591.9	2589.7	2512.5
25°	5534.2	5159.5	4361.7	3499.9	2406.7	2001.2	2140.1	2340.6	2457.4	2453.0	2389.1
27.5°	5900.1	5474.7	4573.3	3533.0	2226.0	1917.5	2036.5	2193.0	2294.3	2289.9	2234.8
30°	6413.6	5838.4	4776.0	3535.2	2096.0	1873.4	1921.9	2029.9	2126.8	2115.8	2073.9
32.5°	7037.3	6248.3	4945.7	3409.6	2014.4	1831.5	1802.9	1858.0	1932.9	1917.5	1906.4
35°	7791.1	6735.4	5091.2	3134.1	1888.8	1747.8	1670.6	1681.6	1734.5	1743.4	1738.9
37.5°	8650.6	7315.0	5271.9	2770.4	1719.1	1626.5	1523.0	1514.1	1545.0	1573.6	1595.7
40°	9499.2	7967.4	5516.6	2402.3	1564.8	1472.3	1373.1	1351.0	1364.3	1415.0	1461.2
42.5°	10453.5	8723.4	5781.0	2087.2	1459.0	1302.6	1207.8	1165.9	1203.4	1284.9	1340.0
45°	11828.8	9783.5	6038.9	1835.9	1415.0	1152.7	1024.9	1020.4	1062.3	1168.1	1229.8
47.5°	13759.5	11154.4	6208.6	1639.8	1412.8	1035.9	883.8	910.2	958.7	1062.3	1132.8
50°	15641.7	12871.3	6021.3	1489.9	1366.5	958.7	778.0	830.9	879.4	969.8	1042.5
52.5°	16776.7	13794.7	5291.8	1348.8	1223.2	923.5	674.4	767.0	775.8	857.3	934.5
55°	16657.7	13197.5	4053.1	1130.6	1011.6	872.8	566.4	692.1	696.5	758.2	824.3
57.5°	14458.1	11330.7	2783.6	916.9	760.4	720.7	467.2	584.1	625.9	663.4	711.9
60°	10775.3	8267.1	1240.8	744.9	482.7	487.1	398.9	440.8	504.7	548.8	590.7
62.5°	6349.7	4756.2	504.7	447.4	266.7	306.4	321.8	321.8	361.5	394.5	421.0
65°	2400.1	1664.0	205.0	224.8	138.9	143.3	189.5	233.6	264.5	293.1	328.4
67.5°	421.0	290.9	105.8	83.8	81.5	72.7	97.0	152.1	169.7	191.7	207.2
70°	70.5	59.5	44.1	41.9	37.5	39.7	63.9	108.0	119.0	125.6	132.2
72.5°	19.8	17.6	13.2	11.0	8.8	11.0	39.7	83.8	88.2	92.6	99.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	15.4	59.5	63.9	66.1	72.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	17.6	22.0	17.6
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°	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8
2.5°	2600.7	2556.6	2532.4	2519.2	2519.2	2501.5	2481.7	2475.1	2503.7	2503.7	2552.2
5°	2342.8	2307.6	2267.9	2243.7	2206.2	2212.8	2190.8	2188.6	2217.2	2230.4	2281.1
7.5°	2164.3	2120.2	2096.0	2080.6	2060.7	2051.9	2032.1	2025.5	2040.9	2062.9	2111.4
10°	2045.3	2038.7	2036.5	2047.5	2047.5	2036.5	2018.8	2007.8	2012.2	2054.1	2109.2
12.5°	2076.2	2089.4	2093.8	2111.4	2120.2	2111.4	2098.2	2102.6	2131.3	2208.4	2289.9
15°	2210.6	2199.6	2195.2	2204.0	2210.6	2201.8	2197.4	2230.4	2329.6	2439.8	2532.4
17.5°	2353.9	2283.3	2252.5	2252.5	2256.9	2252.5	2256.9	2320.8	2481.7	2591.9	2660.2
20°	2426.6	2296.6	2248.1	2237.0	2245.9	2248.1	2263.5	2336.2	2512.5	2589.7	2605.1
22.5°	2404.5	2241.5	2186.4	2177.5	2186.4	2195.2	2210.6	2272.3	2437.6	2477.3	2470.7
25°	2294.3	2133.5	2089.4	2089.4	2109.2	2107.0	2113.6	2157.7	2294.3	2318.6	2307.6
27.5°	2155.5	2003.4	1966.0	1988.0	2005.6	2001.2	2003.4	2040.9	2142.3	2148.9	2137.9
30°	2014.4	1882.2	1846.9	1873.4	1897.6	1893.2	1895.4	1932.9	1996.8	1990.2	1974.8
32.5°	1871.2	1774.2	1747.8	1763.2	1800.7	1796.2	1805.1	1844.7	1869.0	1840.3	1822.7
35°	1738.9	1688.3	1668.4	1677.2	1705.9	1712.5	1727.9	1754.4	1754.4	1719.1	1688.3
37.5°	1615.5	1608.9	1595.7	1584.7	1611.1	1630.9	1653.0	1683.8	1639.8	1589.1	1560.4
40°	1500.9	1529.6	1511.9	1483.3	1498.7	1527.4	1571.4	1595.7	1542.8	1492.1	1443.6
42.5°	1395.1	1443.6	1437.0	1401.7	1415.0	1441.4	1492.1	1511.9	1450.2	1392.9	1346.6
45°	1293.7	1362.1	1366.5	1322.4	1335.6	1362.1	1421.6	1428.2	1348.8	1287.1	1254.1
47.5°	1205.6	1280.5	1282.7	1249.7	1254.1	1291.5	1346.6	1348.8	1258.5	1201.2	1159.3
50°	1121.8	1207.8	1214.4	1185.7	1190.2	1234.2	1280.5	1271.7	1174.7	1115.2	1077.7
52.5°	1020.4	1137.3	1152.7	1139.5	1157.1	1192.4	1221.0	1190.2	1077.7	1018.2	985.2
55°	910.2	1062.3	1095.4	1086.6	1106.4	1135.1	1141.7	1121.8	980.8	921.3	890.4
57.5°	782.4	875.0	932.3	914.7	930.1	958.7	978.6	963.1	857.3	811.1	784.6
60°	648.0	709.7	722.9	694.3	681.0	731.7	778.0	758.2	667.8	639.2	608.3
62.5°	473.9	544.4	553.2	515.7	500.3	555.4	595.1	575.2	476.1	445.2	421.0
65°	379.1	445.2	462.8	427.6	418.8	460.6	484.9	436.4	365.9	332.8	306.4
67.5°	249.1	301.9	348.2	346.0	328.4	341.6	324.0	284.3	233.6	216.0	198.4
70°	154.3	185.1	213.8	224.8	222.6	218.2	194.0	165.3	149.9	143.3	134.4
72.5°	119.0	149.9	171.9	178.5	180.7	174.1	154.3	127.8	112.4	103.6	97.0
75°	88.2	112.4	130.0	138.9	143.3	138.9	119.0	101.4	86.0	79.3	72.7
77.5°	30.9	37.5	46.3	50.7	48.5	46.3	41.9	41.9	33.1	30.9	26.4
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°	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8	2882.8
2.5°	2607.3	2647.0	2719.7	2785.8	2856.4	2929.1	3008.4	3090.0	3127.5	3123.0
5°	2358.3	2444.2	2563.2	2693.3	2838.7	2995.2	3169.3	3347.9	3425.0	3458.0
7.5°	2201.8	2323.0	2479.5	2644.8	2836.5	3059.1	3321.4	3601.3	3713.7	3751.2
10°	2221.6	2362.7	2492.7	2653.6	2858.6	3147.3	3473.5	3806.3	3938.5	3980.4
12.5°	2382.5	2413.4	2448.6	2580.9	2838.7	3213.4	3612.3	4009.0	4161.1	4203.0
15°	2528.0	2384.7	2318.6	2439.8	2768.2	3259.7	3753.4	4227.2	4394.7	4443.2
17.5°	2534.6	2318.6	2170.9	2265.7	2653.6	3279.5	3892.2	4449.8	4632.8	4679.1
20°	2453.0	2245.9	2056.3	2058.5	2497.1	3275.1	4006.8	4650.4	4855.4	4897.3
22.5°	2334.0	2159.9	1963.7	1895.4	2329.6	3266.3	4132.5	4864.2	5086.8	5126.5
25°	2201.8	2049.7	1875.6	1772.0	2162.1	3275.1	4308.8	5144.1	5388.7	5426.2
27.5°	2058.5	1928.5	1807.3	1723.5	2021.1	3308.2	4520.4	5501.1	5792.1	5831.7
30°	1908.6	1811.7	1763.2	1712.5	1932.9	3317.0	4749.6	5917.7	6285.8	6340.9
32.5°	1761.0	1708.1	1710.3	1719.1	1849.1	3255.3	4959.0	6380.5	6872.0	6960.2
35°	1624.3	1608.9	1653.0	1697.1	1727.9	3096.6	5141.9	6927.1	7597.1	7687.5
37.5°	1507.5	1520.7	1575.8	1619.9	1595.7	2871.8	5384.3	7610.4	8408.2	8485.3
40°	1395.1	1428.2	1492.1	1511.9	1494.3	2609.5	5675.3	8269.3	9111.3	9217.1
42.5°	1291.5	1315.8	1406.1	1410.5	1465.6	2342.8	5955.2	8979.0	9920.1	9975.2
45°	1207.8	1203.4	1295.9	1324.6	1503.1	2047.5	6228.5	9924.5	10978.0	11057.4
47.5°	1126.2	1121.8	1143.9	1273.9	1518.5	1774.2	6499.5	11308.6	12512.0	12648.7
50°	1049.1	1055.7	987.4	1249.7	1434.8	1564.8	6623.0	12589.2	13907.1	13964.4
52.5°	980.8	956.5	837.5	1170.3	1256.3	1366.5	6272.5	13171.0	14771.1	14934.2
55°	883.8	749.4	689.8	949.9	991.8	1192.4	5137.5	12833.8	14846.0	15134.8
57.5°	756.0	588.5	586.3	700.9	700.9	1106.4	3290.5	10964.8	12794.1	13301.0
60°	581.9	456.2	484.9	487.1	449.6	806.7	1846.9	7943.2	9459.5	9964.2
62.5°	414.3	348.2	365.9	290.9	257.9	403.3	886.0	4573.3	5838.4	5908.9
65°	277.7	235.8	191.7	160.9	158.7	171.9	365.9	1653.0	2010.0	2267.9
67.5°	182.9	143.3	101.4	101.4	114.6	114.6	138.9	273.3	383.5	350.4
70°	119.0	99.2	63.9	61.7	74.9	74.9	70.5	74.9	79.3	79.3
72.5°	88.2	74.9	37.5	33.1	41.9	44.1	39.7	37.5	37.5	37.5
75°	66.1	52.9	22.0	15.4	19.8	26.4	22.0	15.4	15.4	13.2
77.5°	26.4	19.8	8.8	6.6	11.0	15.4	13.2	6.6	4.4	4.4
80°	2.2	4.4	4.4	4.4	6.6	8.8	11.0	4.4	2.2	2.2
82.5°	0.0	2.2	2.2	2.2	4.4	6.6	8.8	4.4	2.2	2.2
85°	0.0	0.0	0.0	0.0	4.4	6.6	4.4	2.2	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.2	6.6	4.4	2.2	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)