

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: P635791

Luminaire Tested: GWS-SA3E-740-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20822.5 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

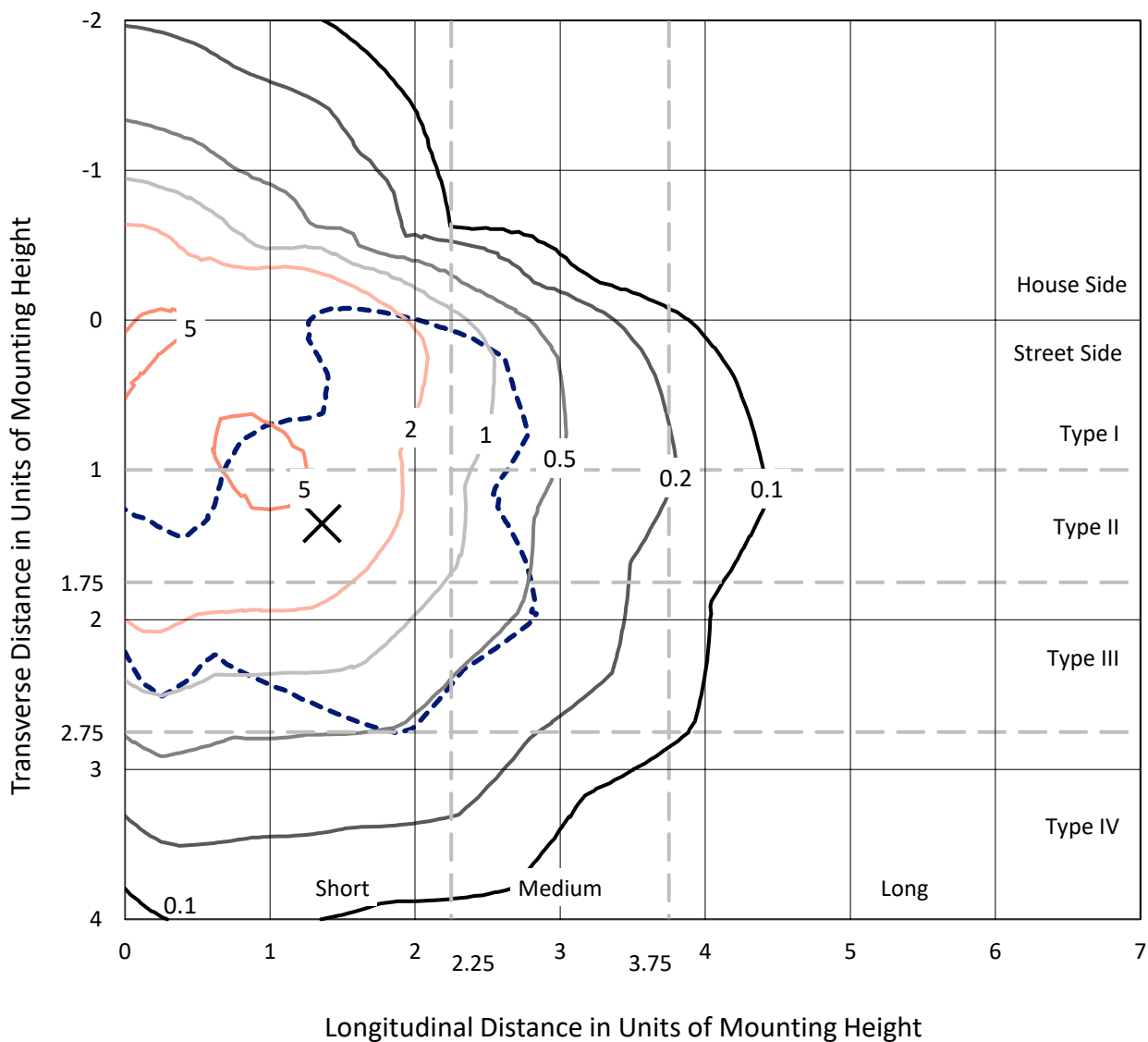
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

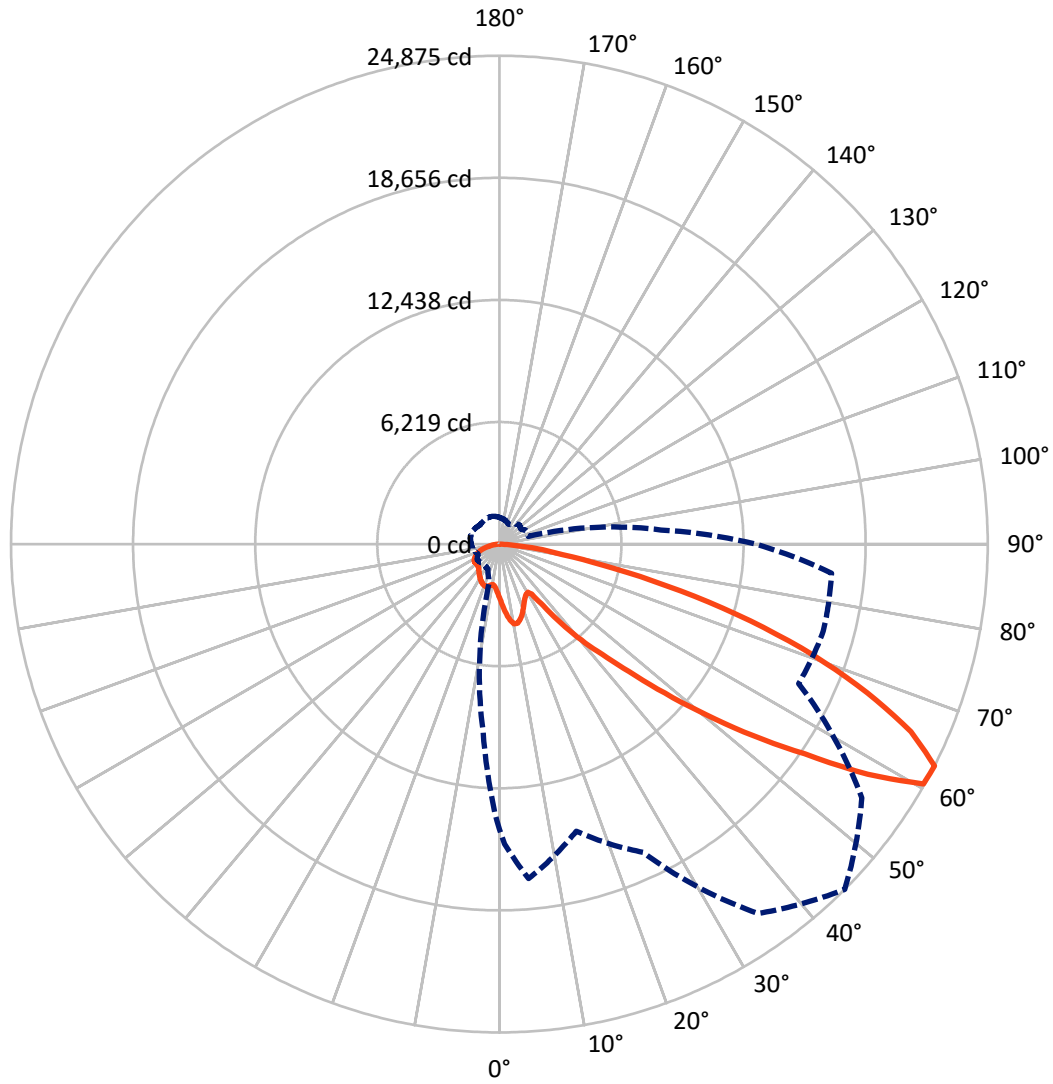
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4968.6	0.0	4968.6
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	15853.9	0.0	15853.9
	% Fixture	76.1	0.0	76.1
Total	Lumens	20822.5	0.0	20822.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	1.3
10°-20°	846.1	4.1
20°-30°	1314.2	6.3
30°-40°	1784.3	8.6
40°-50°	2827.9	13.6
50°-60°	4988.5	24.0
60°-70°	5550.4	26.7
70°-80°	2815.0	13.5
80°-90°	426.2	2.0
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°	20822.5	100.0
0°-180°	20822.5	100.0

Coefficient of Utilization



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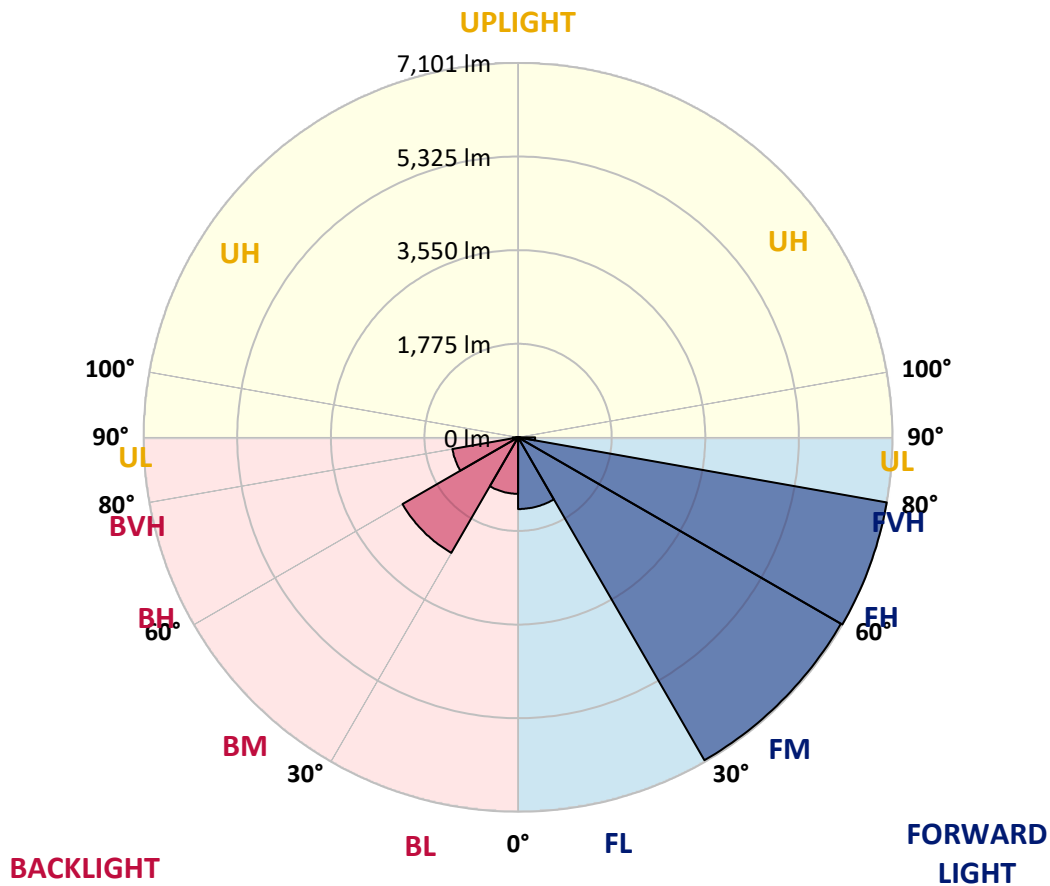
CATALOG NUMBER: GWS-SA3E-740-U-SLR-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.5	6.5			
FM (30°-60°)	7070.1	34.0			
FH (60°-80°)	7100.7	34.1			G3/7500
FVH (80°-90°)	323.5	1.6			G3/500
BL (0°-30°)	1070.6	5.1	B3/2500		
BM (30°-60°)	2530.6	12.2	B3/5000		
BH (60°-80°)	1264.8	6.1	B3/2500		G3/2500
BVH (80°-90°)	102.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2970.1	2968.5	2998.5	3044.2	3086.7	3105.7	3137.2	3134.0	3108.8	3075.7	3064.7
5°	3203.4	3209.7	3261.7	3362.6	3474.6	3521.9	3542.4	3534.5	3488.8	3430.4	3328.0
7.5°	3414.7	3425.7	3506.1	3657.4	3796.2	3859.2	3909.7	3900.2	3834.0	3725.2	3573.9
10°	3569.2	3581.8	3677.9	3856.1	4010.6	4065.7	4130.4	4133.5	4075.2	3928.6	3774.1
12.5°	3723.6	3736.3	3826.1	3988.5	4089.4	4091.0	4128.8	4149.3	4152.5	4084.7	3930.2
15°	3884.4	3895.5	3977.5	4068.9	4064.2	3975.9	3975.9	4015.3	4102.0	4150.9	4043.7
17.5°	4021.6	4035.8	4098.9	4068.9	3928.6	3769.4	3750.4	3800.9	3952.2	4139.8	4128.8
20°	4135.1	4146.1	4180.8	3982.2	3726.8	3518.7	3482.4	3540.8	3745.7	4072.1	4193.4
22.5°	4243.9	4250.2	4231.3	3868.7	3509.2	3271.2	3227.1	3288.5	3509.2	3952.2	4248.6
25°	4373.2	4366.9	4277.0	3750.4	3310.6	3075.7	3030.0	3099.4	3329.5	3793.0	4308.5
27.5°	4522.9	4499.3	4316.4	3622.8	3157.7	2930.7	2899.1	2973.2	3187.6	3646.4	4355.8
30°	4650.6	4604.9	4322.7	3509.2	3078.9	2869.2	2850.3	2919.6	3118.3	3547.1	4415.7
32.5°	4792.5	4729.4	4359.0	3479.3	3123.0	3017.4	3042.6	3047.3	3137.2	3518.7	4505.6
35°	4995.9	4913.9	4458.3	3566.0	3577.0	3755.2	3846.6	3723.6	3422.5	3581.8	4675.8
37.5°	5303.3	5199.2	4660.1	3941.2	4515.0	4913.9	5134.6	4854.0	4289.6	3819.8	4932.8
40°	5676.9	5544.5	4918.6	4634.9	5391.6	6030.0	6422.6	6011.1	5181.9	4414.1	5293.8
42.5°	6198.7	6060.0	5419.9	5315.9	6203.5	7154.1	7666.4	7053.2	5968.6	5181.9	5872.4
45°	7108.4	6974.4	6339.0	5998.5	7154.1	8538.2	9257.1	8404.2	6767.8	5952.8	6953.9
47.5°	8788.9	8631.2	7704.3	6755.2	8238.7	10335.4	11341.2	10098.9	7598.6	6835.6	8770.0
50°	10806.8	10655.4	9417.9	7650.7	9436.8	12257.1	13655.5	12090.0	8555.6	7909.2	10940.8
52.5°	13234.6	13206.2	11863.0	8782.6	10683.8	14306.6	16223.6	14295.5	9603.9	9354.8	13400.1
55°	15422.7	15700.2	14968.7	10508.8	12295.0	16881.0	18864.2	16701.2	11025.9	11744.8	16280.3
57.5°	16601.9	17347.6	18471.6	14030.7	14637.6	19958.2	22122.8	19638.2	13469.5	15723.8	18950.9
60°	15823.1	16668.1	18704.9	16682.3	16961.4	22423.9	24812.2	22107.0	15868.9	18485.8	18799.5
62.5°	14527.3	15285.6	17096.9	15134.2	17320.8	22966.2	24875.3	22537.4	16822.6	17084.3	16981.9
65°	12990.2	13754.8	15673.4	13210.9	16177.8	21678.2	23040.3	21271.5	15109.0	15435.3	15473.2
67.5°	10948.7	11654.9	13608.2	11746.4	14746.4	19788.0	20223.1	19468.0	13914.0	14434.3	13890.4
70°	8180.4	8817.3	10541.9	9545.6	12430.6	17325.5	16974.0	17085.9	12572.4	13089.5	11602.9
72.5°	5590.2	6069.5	7548.2	7500.9	9518.8	13869.9	13379.6	14440.6	10500.9	11186.7	8845.6
75°	3909.7	4283.3	5456.2	5926.0	7195.1	10280.2	9528.3	10808.4	8200.9	9179.8	6454.1
77.5°	2399.4	2646.9	3446.2	4390.5	4628.5	7035.8	5918.1	8133.1	5758.9	6695.3	4305.4
80°	1199.7	1319.5	1674.2	2760.4	3069.4	4146.1	3268.0	4721.6	3897.1	4146.1	2382.1
82.5°	362.6	400.4	490.3	1048.4	1590.7	2386.8	1931.2	2743.1	2128.2	1943.8	938.0
85°	96.2	108.8	135.6	310.6	558.1	856.0	652.7	1329.0	1020.0	717.3	353.1
87.5°	7.9	7.9	6.3	6.3	3.2	0.0	0.0	94.6	190.8	108.8	61.5
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°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	3009.5	3003.2	2938.6	2891.3	2836.1	2782.5	2727.3	2678.4	2623.3	2568.1	2552.3
5°	3252.3	3208.1	3071.0	2955.9	2842.4	2743.1	2656.4	2566.5	2494.0	2423.1	2396.3
7.5°	3466.7	3389.4	3190.8	3015.8	2858.2	2735.2	2607.5	2476.7	2374.2	2273.3	2248.1
10°	3660.6	3558.1	3307.5	3086.7	2911.8	2771.5	2621.7	2446.7	2298.5	2175.5	2142.4
12.5°	3804.0	3692.1	3408.4	3154.5	2955.9	2798.3	2650.1	2495.6	2339.5	2180.3	2144.0
15°	3917.6	3800.9	3491.9	3206.6	2957.5	2754.1	2610.7	2557.1	2508.2	2352.1	2285.9
17.5°	4009.0	3886.0	3564.4	3238.1	2914.9	2620.1	2495.6	2574.4	2698.9	2601.2	2476.7
20°	4092.5	3968.0	3619.6	3260.2	2820.3	2435.7	2366.3	2533.4	2721.0	2717.9	2605.9
22.5°	4184.0	4062.6	3700.0	3272.8	2687.9	2248.1	2289.1	2473.5	2626.4	2672.1	2602.8
25°	4300.6	4193.4	3811.9	3301.2	2538.1	2118.8	2232.3	2396.3	2523.9	2535.0	2494.0
27.5°	4436.2	4355.8	3979.0	3367.4	2393.1	2052.6	2166.1	2287.5	2404.1	2408.9	2360.0
30°	4584.4	4530.8	4133.5	3422.5	2284.3	2032.1	2081.0	2178.7	2252.8	2265.4	2222.8
32.5°	4773.6	4726.3	4270.7	3386.3	2219.7	2027.4	2002.1	2052.6	2114.1	2114.1	2081.0
35°	5033.7	4967.5	4415.7	3247.6	2140.9	2008.4	1918.6	1932.8	1959.6	1964.3	1945.4
37.5°	5402.6	5293.8	4562.3	2973.2	2011.6	1940.6	1822.4	1805.1	1814.5	1827.1	1822.4
40°	5859.8	5681.6	4776.7	2643.8	1857.1	1809.8	1723.1	1690.0	1682.1	1707.3	1716.8
42.5°	6435.2	6162.5	5006.9	2336.3	1716.8	1660.0	1606.4	1578.1	1565.4	1608.0	1633.2
45°	7354.3	6905.0	5227.6	2032.1	1638.0	1532.3	1496.1	1475.6	1481.9	1532.3	1563.9
47.5°	8941.8	8038.5	5437.3	1839.8	1631.7	1440.9	1396.8	1401.5	1418.8	1472.4	1510.3
50°	10950.2	9556.6	5577.6	1759.4	1650.6	1385.7	1327.4	1352.6	1379.4	1431.4	1475.6
52.5°	12994.9	10970.7	5410.5	1715.2	1649.0	1387.3	1262.8	1338.4	1351.0	1403.1	1450.4
55°	14401.2	11128.4	4674.3	1647.4	1623.8	1450.4	1212.3	1332.1	1340.0	1387.3	1429.9
57.5°	14937.2	10589.2	3564.4	1666.3	1548.1	1499.2	1190.2	1288.0	1344.7	1385.7	1429.9
60°	14289.2	9572.4	2166.1	1715.2	1426.7	1496.1	1204.4	1207.6	1305.3	1374.7	1418.8
62.5°	13067.4	8267.1	1521.3	1576.5	1338.4	1412.5	1237.5	1113.0	1236.0	1319.5	1358.9
65°	11667.5	6731.6	1160.3	1357.4	1295.9	1283.3	1248.6	1029.4	1141.4	1223.3	1258.0
67.5°	10209.3	5232.3	942.7	1012.1	1171.3	1160.3	1141.4	955.3	1029.4	1087.8	1127.2
70°	8372.7	3660.6	796.1	759.9	1004.2	1040.5	997.9	862.3	886.0	945.9	977.4
72.5°	6124.6	2281.2	654.2	627.4	807.2	909.6	887.6	759.9	770.9	827.7	852.9
75°	4404.7	1305.3	525.0	517.1	616.4	778.8	734.6	654.2	666.9	709.4	726.8
77.5°	2799.8	726.8	405.2	416.2	441.4	581.7	627.4	559.7	559.7	584.9	599.1
80°	1499.2	416.2	296.4	301.1	309.0	444.6	495.0	433.5	433.5	416.2	433.5
82.5°	611.7	239.6	203.4	189.2	206.5	304.3	346.8	275.9	288.5	260.1	266.4
85°	201.8	119.8	100.9	99.3	97.7	134.0	167.1	137.2	164.0	104.0	108.8
87.5°	26.8	22.1	12.6	9.5	11.0	4.7	9.5	11.0	11.0	7.9	7.9
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°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2541.3	2528.7	2483.0	2494.0	2486.1	2473.5	2486.1	2462.5	2481.4	2487.7	2527.1
5°	2375.8	2345.8	2301.7	2279.6	2274.9	2262.3	2263.8	2252.8	2255.9	2282.7	2326.9
7.5°	2227.6	2199.2	2164.5	2148.7	2134.6	2120.4	2118.8	2117.2	2129.8	2153.5	2196.0
10°	2120.4	2104.6	2090.4	2096.7	2090.4	2084.1	2073.1	2073.1	2093.6	2136.1	2188.2
12.5°	2120.4	2117.2	2120.4	2139.3	2137.7	2139.3	2125.1	2133.0	2189.7	2262.3	2336.3
15°	2233.9	2208.6	2208.6	2218.1	2215.0	2215.0	2215.0	2248.1	2377.3	2489.3	2568.1
17.5°	2372.6	2298.5	2267.0	2262.3	2260.7	2260.7	2267.0	2337.9	2539.7	2657.9	2703.7
20°	2468.8	2328.5	2276.4	2255.9	2257.5	2260.7	2279.6	2377.3	2599.6	2659.5	2648.5
22.5°	2486.1	2304.8	2241.8	2211.8	2216.5	2219.7	2248.1	2352.1	2517.6	2527.1	2505.0
25°	2405.7	2238.6	2170.8	2147.2	2153.5	2151.9	2177.1	2252.8	2371.0	2367.9	2355.3
27.5°	2285.9	2133.0	2082.5	2066.8	2077.8	2065.2	2073.1	2131.4	2222.8	2219.7	2215.0
30°	2162.9	2030.5	1984.8	1976.9	1991.1	1972.2	1973.8	2022.6	2085.7	2082.5	2081.0
32.5°	2040.0	1928.0	1887.0	1887.0	1901.2	1880.7	1883.9	1926.5	1969.0	1956.4	1956.4
35°	1923.3	1844.5	1811.4	1805.1	1816.1	1801.9	1808.2	1847.6	1863.4	1846.1	1835.0
37.5°	1820.8	1786.2	1753.0	1731.0	1732.6	1734.1	1753.0	1783.0	1773.5	1748.3	1734.1
40°	1726.2	1726.2	1694.7	1653.7	1649.0	1660.0	1691.6	1724.7	1697.9	1669.5	1652.2
42.5°	1658.5	1672.6	1642.7	1601.7	1592.2	1611.2	1645.8	1669.5	1638.0	1606.4	1582.8
45°	1595.4	1630.1	1609.6	1563.9	1551.3	1573.3	1617.5	1626.9	1584.4	1554.4	1537.1
47.5°	1551.3	1598.6	1584.4	1540.2	1521.3	1552.8	1598.6	1597.0	1543.4	1511.8	1497.7
50°	1519.7	1579.6	1578.1	1540.2	1519.7	1559.1	1600.1	1579.6	1521.3	1488.2	1474.0
52.5°	1494.5	1578.1	1589.1	1567.0	1552.8	1587.5	1612.7	1573.3	1505.5	1470.9	1459.8
55°	1483.5	1584.4	1592.2	1571.8	1559.1	1590.7	1612.7	1585.9	1505.5	1474.0	1464.6
57.5°	1486.6	1576.5	1578.1	1549.7	1527.6	1567.0	1601.7	1593.8	1522.9	1486.6	1475.6
60°	1467.7	1533.9	1537.1	1492.9	1467.7	1515.0	1576.5	1571.8	1515.0	1477.2	1456.7
62.5°	1404.6	1463.0	1464.6	1423.6	1387.3	1455.1	1522.9	1521.3	1469.3	1431.4	1407.8
65°	1299.0	1360.5	1376.3	1336.9	1308.5	1381.0	1451.9	1448.8	1396.8	1362.1	1338.4
67.5°	1168.2	1234.4	1264.3	1237.5	1226.5	1292.7	1358.9	1357.4	1314.8	1281.7	1261.2
70°	1008.9	1064.1	1114.6	1114.6	1106.7	1182.4	1253.3	1247.0	1207.6	1182.4	1166.6
72.5°	876.5	919.1	934.9	950.6	974.3	1053.1	1113.0	1117.7	1089.3	1076.7	1089.3
75°	745.7	772.5	786.7	774.1	815.0	897.0	975.8	983.7	953.8	933.3	938.0
77.5°	613.3	643.2	657.4	629.0	625.9	729.9	826.1	843.4	818.2	786.7	796.1
80°	443.0	482.4	506.1	487.1	480.8	526.5	659.0	677.9	654.2	629.0	643.2
82.5°	271.2	293.2	299.5	318.4	357.9	376.8	424.1	487.1	469.8	447.7	487.1
85°	107.2	127.7	141.9	160.8	187.6	222.3	261.7	312.1	283.8	274.3	323.2
87.5°	6.3	1.6	0.0	3.2	26.8	52.0	111.9	154.5	129.3	138.7	167.1
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°	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6	2763.6
2.5°	2558.6	2599.6	2654.8	2700.5	2758.8	2814.0	2870.8	2927.5	2957.5	2970.1
5°	2377.3	2453.0	2541.3	2639.0	2752.5	2872.3	2993.7	3118.3	3197.1	3203.4
7.5°	2268.6	2377.3	2498.7	2621.7	2762.0	2927.5	3119.9	3312.2	3392.6	3414.7
10°	2303.2	2424.6	2520.8	2635.9	2790.4	2996.9	3223.9	3449.3	3542.4	3569.2
12.5°	2442.0	2465.6	2495.6	2601.2	2790.4	3056.8	3331.1	3599.1	3698.4	3723.6
15°	2557.1	2443.5	2389.9	2501.9	2752.5	3108.8	3444.6	3741.0	3860.8	3884.4
17.5°	2566.5	2371.0	2254.4	2355.3	2686.3	3145.1	3553.4	3898.6	3999.5	4021.6
20°	2470.3	2293.8	2142.4	2203.9	2596.5	3160.8	3632.2	4013.7	4113.0	4135.1
22.5°	2361.6	2230.7	2066.8	2063.6	2487.7	3178.2	3726.8	4122.5	4229.7	4243.9
25°	2259.1	2144.0	2005.3	1961.1	2361.6	3211.3	3854.5	4286.5	4368.4	4373.2
27.5°	2139.3	2051.0	1956.4	1913.8	2251.2	3274.4	4043.7	4481.9	4530.8	4522.9
30°	2030.5	1964.3	1921.7	1909.1	2181.8	3321.6	4223.4	4674.3	4677.4	4650.6
32.5°	1915.4	1890.2	1890.2	1931.2	2125.1	3310.6	4370.0	4861.9	4831.9	4792.5
35°	1813.0	1817.7	1850.8	1947.0	2030.5	3200.3	4510.3	5096.8	5052.6	4995.9
37.5°	1715.2	1751.5	1798.8	1891.8	1906.0	3036.3	4674.3	5429.4	5374.2	5303.3
40°	1631.7	1686.8	1742.0	1787.7	1773.5	2803.0	4902.9	5820.4	5758.9	5676.9
42.5°	1565.4	1619.0	1680.5	1685.3	1690.0	2560.2	5145.6	6299.6	6288.6	6198.7
45°	1522.9	1557.6	1615.9	1608.0	1685.3	2292.2	5369.5	7031.1	7176.1	7108.4
47.5°	1494.5	1521.3	1527.6	1560.7	1726.2	2052.6	5658.0	8462.5	8866.1	8788.9
50°	1478.7	1505.5	1434.6	1563.9	1732.6	1898.1	6056.8	10259.7	10909.2	10806.8
52.5°	1477.2	1470.9	1363.7	1597.0	1697.9	1803.5	6264.9	11571.4	13012.3	13234.6
55°	1480.3	1401.5	1327.4	1606.4	1628.5	1768.8	5568.1	12202.0	14952.9	15422.7
57.5°	1451.9	1325.8	1347.9	1568.6	1497.7	1861.8	4116.2	11976.5	15728.5	16601.9
60°	1398.3	1253.3	1385.7	1466.1	1363.7	1702.6	2834.5	10970.7	14924.5	15823.1
62.5°	1321.1	1202.9	1381.0	1333.7	1314.8	1393.6	1948.5	9562.9	13649.2	14527.3
65°	1234.4	1161.9	1306.9	1206.0	1217.0	1072.0	1377.8	7973.8	12126.3	12990.2
67.5°	1141.4	1136.6	1198.1	1073.6	1027.9	849.7	1004.2	6391.1	10169.9	10948.7
70°	1035.7	1070.4	1089.3	953.8	834.0	666.9	745.7	4469.3	7502.5	8180.4
72.5°	930.1	933.3	960.1	829.2	624.3	534.4	559.7	2706.8	5096.8	5590.2
75°	822.9	793.0	818.2	674.7	465.1	438.3	432.0	1672.6	3520.3	3909.7
77.5°	707.8	674.7	641.6	507.6	373.6	338.9	331.1	938.0	2159.8	2399.4
80°	575.4	531.3	479.3	372.0	272.7	242.8	241.2	457.2	1076.7	1199.7
82.5°	447.7	364.2	350.0	231.7	168.7	148.2	157.6	175.0	324.8	362.6
85°	313.7	264.8	186.0	93.0	75.7	61.5	59.9	52.0	86.7	96.2
87.5°	175.0	115.1	59.9	11.0	12.6	14.2	11.0	7.9	7.9	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)