

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: P640738

Luminaire Tested: GWS-SA5E-740-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640738
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-SA5E-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20027.8 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

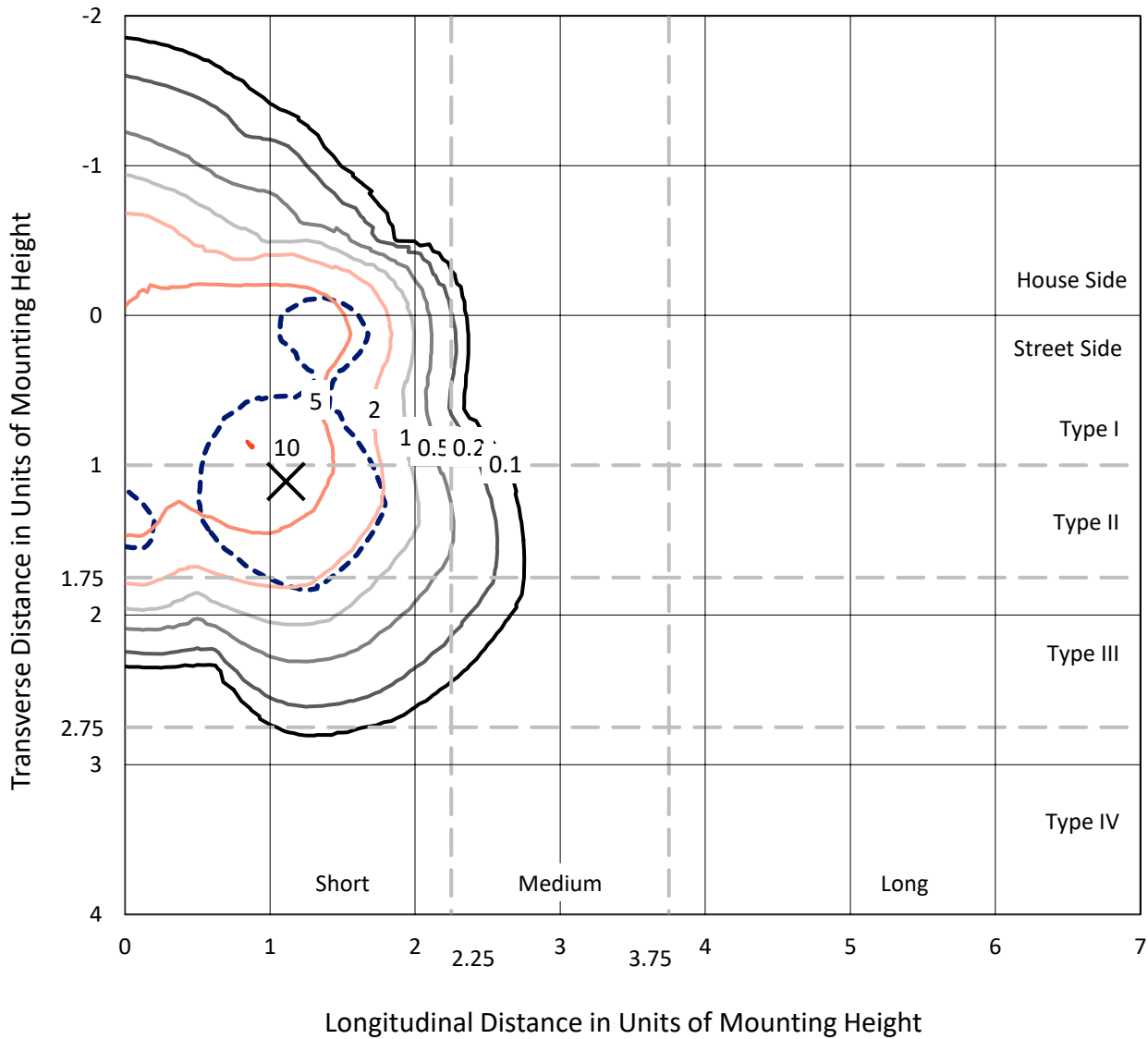
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

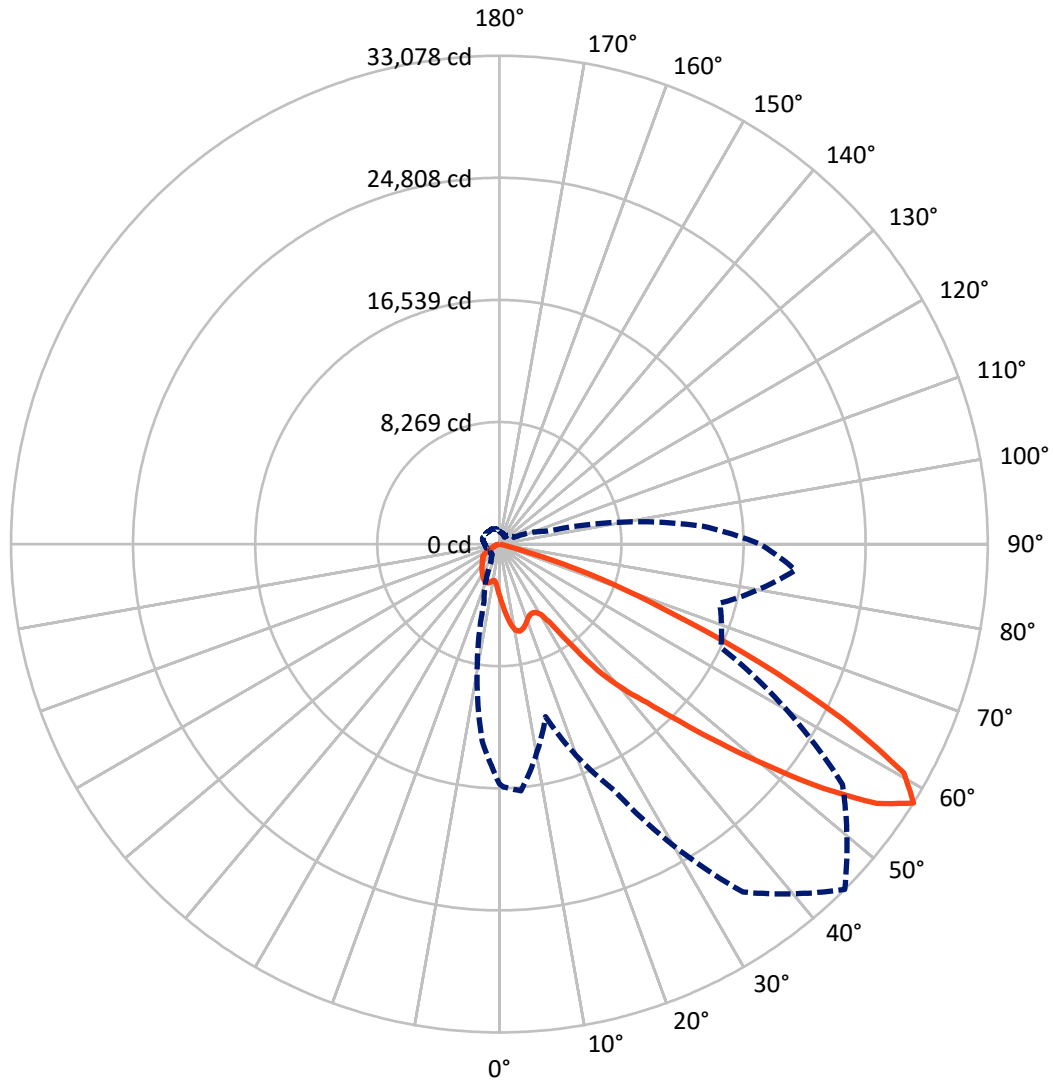
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	4484.8	0.0	4484.8
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	15543.0	0.0	15543.0
	% Fixture	77.6	0.0	77.6
Total	Lumens	20027.8	0.0	20027.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	1.7
10°-20°	1120.2	5.6
20°-30°	1819.8	9.1
30°-40°	2811.8	14.0
40°-50°	4508.8	22.5
50°-60°	6162.3	30.8
60°-70°	2984.5	14.9
70°-80°	273.3	1.4
80°-90°	0.8	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°	20027.8	100.0
0°-180°	20027.8	100.0

Coefficient of Utilization



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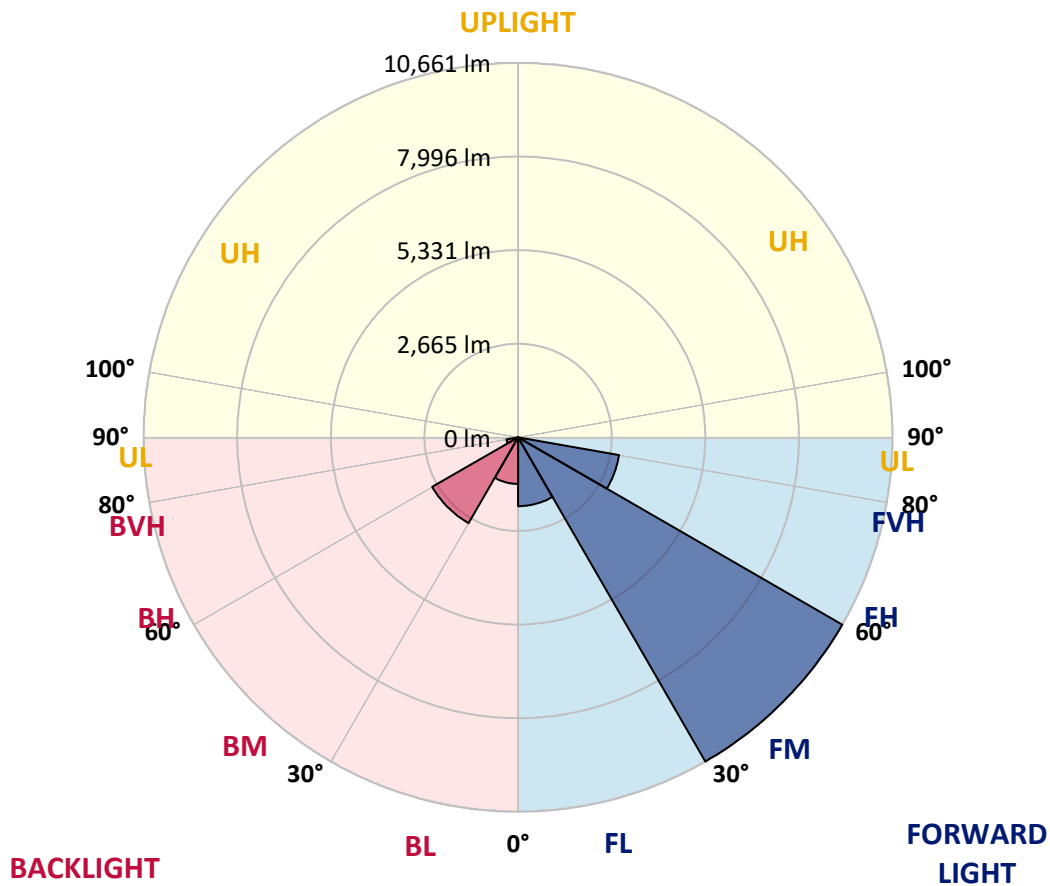
CATALOG NUMBER: GWS-SA5E-740-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.3	9.8			
FM (30°-60°)	10661.2	53.2			
FH (60°-80°)	2921.7	14.6			G2/5000
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	1327.0	6.6	B3/2500		
BM (30°-60°)	2821.6	14.1	B3/5000		
BH (60°-80°)	336.1	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: 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°	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1
2.5°	3813.4	3837.7	3878.0	3964.2	4036.8	4085.3	4106.8	4101.4	4071.8	4050.3	4007.2
5°	4222.5	4222.5	4300.6	4497.0	4647.7	4741.9	4790.4	4760.7	4701.5	4607.3	4462.0
7.5°	4580.4	4593.9	4725.8	5005.6	5234.4	5369.0	5447.0	5430.9	5325.9	5145.6	4854.9
10°	4860.3	4876.5	5051.4	5393.2	5662.3	5799.6	5915.3	5926.0	5810.3	5570.8	5237.1
12.5°	5132.1	5148.3	5331.3	5659.6	5896.4	5953.0	6055.2	6095.6	6066.0	5896.4	5549.3
15°	5425.5	5463.2	5619.2	5864.1	5963.7	5896.4	5963.7	6036.4	6136.0	6119.8	5807.6
17.5°	5713.4	5740.3	5899.1	5985.2	5874.9	5700.0	5732.3	5818.4	6044.5	6265.1	6063.3
20°	5979.9	6017.5	6149.4	6036.4	5702.7	5430.9	5433.6	5546.6	5891.1	6353.9	6324.3
22.5°	6259.8	6316.3	6410.5	6092.9	5543.9	5218.3	5231.7	5334.0	5770.0	6437.4	6620.4
25°	6625.8	6679.6	6741.5	6232.8	5492.8	5113.3	5164.4	5258.6	5770.0	6580.0	6986.4
27.5°	7120.9	7158.6	7161.3	6493.9	5581.6	5129.4	5237.1	5344.7	5942.2	6865.3	7476.2
30°	7742.6	7801.8	7723.8	6900.3	5858.8	5344.7	5503.5	5638.1	6313.6	7347.0	8197.4
32.5°	8498.8	8582.3	8477.3	7503.1	6437.4	6087.5	6375.5	6453.5	6905.6	8044.0	9015.5
35°	9386.9	9456.9	9343.9	8337.4	7788.4	7852.9	8375.0	8275.5	8095.2	8902.5	9970.9
37.5°	10361.2	10425.7	10207.8	9602.2	9785.2	10065.1	10899.4	10557.6	9976.3	10008.6	11007.0
40°	11254.6	11324.6	10982.8	10977.4	11354.2	11865.5	12872.1	12401.1	11609.9	11456.5	11978.6
42.5°	12180.4	12228.9	11919.4	11709.4	12565.3	13617.5	14683.2	14048.1	12691.7	12524.9	13195.0
45°	13501.8	13604.1	13052.4	12070.1	13655.2	15633.2	17118.8	15878.1	13429.1	13294.6	15057.3
47.5°	15444.8	15520.2	14395.3	12296.1	14669.8	18144.1	20162.5	18251.8	14077.7	13770.9	17603.2
50°	17051.5	17102.6	15630.5	12543.7	15749.0	20851.5	23631.5	21066.8	14807.0	14559.4	19979.5
52.5°	18235.6	18429.4	17253.3	13052.4	17167.2	24035.2	27471.9	24401.2	15945.4	16082.7	21949.5
55°	18480.5	18744.3	18362.1	13364.5	18415.9	27278.1	31018.9	27385.7	17081.1	17237.2	22611.5
57.5°	16241.4	16451.4	16768.9	12105.1	18386.3	28763.6	33077.6	28376.1	16564.4	15458.3	20132.9
60°	12167.0	12312.3	12888.2	9252.4	16908.9	27450.3	31473.7	26691.4	14484.1	11795.6	15339.9
62.5°	7215.1	7279.7	8009.0	5993.3	14034.7	23639.6	26102.0	23031.4	11445.7	7933.7	9395.0
65°	2769.3	2742.3	3299.4	2957.6	10320.8	18830.4	19414.4	17557.4	7852.9	3635.8	3582.0
67.5°	427.9	409.1	551.7	874.6	7443.9	13049.7	12810.2	12654.1	4919.5	847.7	740.1
70°	96.9	96.9	118.4	258.4	4548.1	7667.3	8205.5	7823.3	3148.7	180.3	96.9
72.5°	45.8	45.8	56.5	110.3	1647.0	3159.5	3681.6	3625.1	1022.7	59.2	35.0
75°	16.1	18.8	18.8	24.2	99.6	164.2	376.8	269.1	64.6	0.0	0.0
77.5°	5.4	5.4	5.4	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.7	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	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°	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1
2.5°	3913.0	3894.2	3824.2	3730.0	3638.5	3557.8	3474.4	3374.8	3302.1	3218.7	3191.8
5°	4349.0	4230.6	4039.5	3840.4	3657.4	3501.3	3350.6	3189.1	3070.7	2952.3	2911.9
7.5°	4717.7	4542.8	4233.3	3934.5	3684.3	3463.6	3245.6	3024.9	2852.7	2712.7	2669.7
10°	5048.7	4846.9	4432.4	4063.7	3748.9	3493.2	3229.5	2952.3	2728.9	2562.0	2521.7
12.5°	5334.0	5099.8	4602.0	4160.6	3775.8	3482.4	3226.8	3006.1	2804.2	2613.2	2562.0
15°	5573.5	5315.1	4744.6	4225.2	3735.4	3347.9	3124.5	3089.5	3073.4	2863.4	2763.9
17.5°	5807.6	5517.0	4860.3	4254.8	3622.4	3111.0	2949.6	3108.3	3277.9	3140.6	3014.2
20°	6052.5	5721.5	4978.7	4260.2	3434.0	2844.6	2817.7	3068.0	3283.3	3240.2	3121.8
22.5°	6340.5	5977.2	5126.8	4257.5	3197.2	2618.5	2720.8	2989.9	3164.9	3162.2	3068.0
25°	6757.6	6300.1	5325.9	4273.6	2938.8	2443.6	2613.2	2858.1	3000.7	2995.3	2917.3
27.5°	7204.4	6685.0	5584.3	4314.0	2718.1	2341.4	2486.7	2677.8	2801.5	2796.2	2728.9
30°	7831.4	7129.0	5831.8	4316.7	2559.3	2287.5	2346.7	2478.6	2597.0	2583.6	2532.4
32.5°	8593.0	7629.6	6039.1	4163.3	2459.8	2236.4	2201.4	2268.7	2360.2	2341.4	2327.9
35°	9513.4	8224.3	6216.7	3826.9	2306.4	2134.1	2039.9	2053.4	2118.0	2128.7	2123.4
37.5°	10563.0	8932.1	6437.4	3382.8	2099.1	1986.1	1859.6	1848.9	1886.5	1921.5	1948.4
40°	11599.1	9728.7	6736.1	2933.4	1910.8	1797.7	1676.6	1649.7	1665.9	1727.8	1784.3
42.5°	12764.4	10651.8	7059.0	2548.6	1781.6	1590.5	1474.8	1423.6	1469.4	1569.0	1636.3
45°	14443.7	11946.3	7373.9	2241.8	1727.8	1407.5	1251.4	1246.0	1297.2	1426.3	1501.7
47.5°	16801.2	13620.2	7581.1	2002.3	1725.1	1264.9	1079.2	1111.5	1170.7	1297.2	1383.3
50°	19099.5	15716.7	7352.4	1819.3	1668.5	1170.7	950.0	1014.6	1073.8	1184.1	1272.9
52.5°	20485.5	16844.3	6461.6	1647.0	1493.6	1127.6	823.5	936.5	947.3	1046.9	1141.1
55°	20340.2	16115.0	4949.1	1380.6	1235.3	1065.7	691.6	845.0	850.4	925.8	1006.5
57.5°	17654.3	13835.5	3399.0	1119.5	928.5	880.0	570.5	713.2	764.3	810.1	869.3
60°	13157.3	10094.7	1515.2	909.6	589.4	594.8	487.1	538.2	616.3	670.1	721.2
62.5°	7753.4	5807.6	616.3	546.3	325.6	374.1	392.9	392.9	441.4	481.7	514.0
65°	2930.7	2031.9	250.3	274.5	169.5	174.9	231.4	285.3	322.9	357.9	401.0
67.5°	514.0	355.2	129.2	102.3	99.6	88.8	118.4	185.7	207.2	234.1	253.0
70°	86.1	72.7	53.8	51.1	45.8	48.4	78.0	131.9	145.3	153.4	161.5
72.5°	24.2	21.5	16.1	13.5	10.8	13.5	48.4	102.3	107.6	113.0	121.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	18.8	72.7	78.0	80.7	88.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	21.5	26.9	21.5
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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1
2.5°	3175.6	3121.8	3092.2	3076.1	3076.1	3054.5	3030.3	3022.2	3057.2	3057.2	3116.4
5°	2860.8	2817.7	2769.3	2739.7	2693.9	2702.0	2675.1	2672.4	2707.4	2723.5	2785.4
7.5°	2642.8	2588.9	2559.3	2540.5	2516.3	2505.5	2481.3	2473.2	2492.1	2519.0	2578.2
10°	2497.4	2489.4	2486.7	2500.1	2500.1	2486.7	2465.1	2451.7	2457.1	2508.2	2575.5
12.5°	2535.1	2551.3	2556.6	2578.2	2588.9	2578.2	2562.0	2567.4	2602.4	2696.6	2796.2
15°	2699.3	2685.8	2680.4	2691.2	2699.3	2688.5	2683.1	2723.5	2844.6	2979.2	3092.2
17.5°	2874.2	2788.1	2750.4	2750.4	2755.8	2750.4	2755.8	2833.8	3030.3	3164.9	3248.3
20°	2963.0	2804.2	2745.0	2731.6	2742.3	2745.0	2763.9	2852.7	3068.0	3162.2	3181.0
22.5°	2936.1	2737.0	2669.7	2658.9	2669.7	2680.4	2699.3	2774.6	2976.5	3024.9	3016.8
25°	2801.5	2605.1	2551.3	2551.3	2575.5	2572.8	2580.9	2634.7	2801.5	2831.2	2817.7
27.5°	2632.0	2446.3	2400.6	2427.5	2449.0	2443.6	2446.3	2492.1	2615.9	2623.9	2610.5
30°	2459.8	2298.3	2255.2	2287.5	2317.1	2311.7	2314.4	2360.2	2438.2	2430.2	2411.3
32.5°	2284.8	2166.4	2134.1	2153.0	2198.7	2193.3	2204.1	2252.5	2282.1	2247.2	2225.6
35°	2123.4	2061.5	2037.2	2048.0	2083.0	2091.1	2109.9	2142.2	2142.2	2099.1	2061.5
37.5°	1972.7	1964.6	1948.4	1935.0	1967.3	1991.5	2018.4	2056.1	2002.3	1940.4	1905.4
40°	1832.7	1867.7	1846.2	1811.2	1830.0	1865.0	1918.8	1948.4	1883.8	1821.9	1762.7
42.5°	1703.5	1762.7	1754.7	1711.6	1727.8	1760.1	1821.9	1846.2	1770.8	1700.8	1644.3
45°	1579.7	1663.2	1668.5	1614.7	1630.9	1663.2	1735.8	1743.9	1647.0	1571.7	1531.3
47.5°	1472.1	1563.6	1566.3	1525.9	1531.3	1577.0	1644.3	1647.0	1536.7	1466.7	1415.6
50°	1369.8	1474.8	1482.9	1447.9	1453.3	1507.1	1563.6	1552.8	1434.4	1361.8	1316.0
52.5°	1246.0	1388.7	1407.5	1391.4	1412.9	1455.9	1490.9	1453.3	1316.0	1243.3	1203.0
55°	1111.5	1297.2	1337.5	1326.8	1351.0	1386.0	1394.0	1369.8	1197.6	1124.9	1087.2
57.5°	955.4	1068.4	1138.4	1116.9	1135.7	1170.7	1194.9	1176.1	1046.9	990.4	958.1
60°	791.2	866.6	882.7	847.7	831.6	893.5	950.0	925.8	815.4	780.5	742.8
62.5°	578.6	664.7	675.5	629.7	610.9	678.2	726.6	702.4	581.3	543.6	514.0
65°	462.9	543.6	565.2	522.1	511.3	562.5	592.1	532.9	446.7	406.4	374.1
67.5°	304.1	368.7	425.2	422.5	401.0	417.1	395.6	347.2	285.3	263.7	242.2
70°	188.4	226.1	261.0	274.5	271.8	266.4	236.8	201.8	183.0	174.9	164.2
72.5°	145.3	183.0	209.9	218.0	220.7	212.6	188.4	156.1	137.3	126.5	118.4
75°	107.6	137.3	158.8	169.5	174.9	169.5	145.3	123.8	105.0	96.9	88.8
77.5°	37.7	45.8	56.5	61.9	59.2	56.5	51.1	51.1	40.4	37.7	32.3
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°	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1	3520.1
2.5°	3183.7	3232.1	3321.0	3401.7	3487.8	3576.6	3673.5	3773.1	3818.8	3813.4
5°	2879.6	2984.6	3129.9	3288.7	3466.3	3657.4	3870.0	4087.9	4182.1	4222.5
7.5°	2688.5	2836.5	3027.6	3229.5	3463.6	3735.4	4055.7	4397.4	4534.7	4580.4
10°	2712.7	2885.0	3043.8	3240.2	3490.5	3843.0	4241.3	4647.7	4809.2	4860.3
12.5°	2909.2	2946.9	2989.9	3151.4	3466.3	3923.8	4410.9	4895.3	5081.0	5132.1
15°	3086.8	2911.9	2831.2	2979.2	3380.2	3980.3	4583.1	5161.7	5366.3	5425.5
17.5°	3094.9	2831.2	2650.8	2766.6	3240.2	4004.5	4752.7	5433.6	5656.9	5713.4
20°	2995.3	2742.3	2510.9	2513.6	3049.1	3999.1	4892.6	5678.5	5928.7	5979.9
22.5°	2850.0	2637.4	2397.9	2314.4	2844.6	3988.4	5046.0	5939.5	6211.3	6259.8
25°	2688.5	2502.8	2290.2	2163.7	2640.1	3999.1	5261.3	6281.3	6580.0	6625.8
27.5°	2513.6	2354.8	2206.8	2104.5	2467.8	4039.5	5519.7	6717.3	7072.5	7120.9
30°	2330.6	2212.2	2153.0	2091.1	2360.2	4050.3	5799.6	7225.9	7675.3	7742.6
32.5°	2150.3	2085.7	2088.4	2099.1	2257.9	3974.9	6055.2	7791.0	8391.2	8498.8
35°	1983.4	1964.6	2018.4	2072.2	2109.9	3781.1	6278.6	8458.5	9276.6	9386.9
37.5°	1840.8	1856.9	1924.2	1978.0	1948.4	3506.6	6574.6	9292.7	10267.0	10361.2
40°	1703.5	1743.9	1821.9	1846.2	1824.6	3186.4	6929.9	10097.4	11125.5	11254.6
42.5°	1577.0	1606.7	1717.0	1722.4	1789.7	2860.8	7271.6	10964.0	12113.1	12180.4
45°	1474.8	1469.4	1582.4	1617.4	1835.4	2500.1	7605.4	12118.5	13404.9	13501.8
47.5°	1375.2	1369.8	1396.7	1555.5	1854.2	2166.4	7936.4	13808.6	15278.0	15444.8
50°	1281.0	1289.1	1205.7	1525.9	1752.0	1910.8	8087.1	15372.2	16981.5	17051.5
52.5°	1197.6	1168.0	1022.7	1429.0	1534.0	1668.5	7659.2	16082.7	18036.5	18235.6
55°	1079.2	915.0	842.3	1159.9	1211.0	1455.9	6273.2	15670.9	18128.0	18480.5
57.5°	923.1	718.6	715.9	855.8	855.8	1351.0	4018.0	13388.8	15622.5	16241.4
60°	710.5	557.1	592.1	594.8	549.0	985.0	2255.2	9699.1	11550.7	12167.0
62.5°	505.9	425.2	446.7	355.2	314.9	492.5	1081.9	5584.3	7129.0	7215.1
65°	339.1	288.0	234.1	196.5	193.8	209.9	446.7	2018.4	2454.4	2769.3
67.5°	223.4	174.9	123.8	123.8	139.9	139.9	169.5	333.7	468.3	427.9
70°	145.3	121.1	78.0	75.4	91.5	91.5	86.1	91.5	96.9	96.9
72.5°	107.6	91.5	45.8	40.4	51.1	53.8	48.4	45.8	45.8	45.8
75°	80.7	64.6	26.9	18.8	24.2	32.3	26.9	18.8	18.8	16.1
77.5°	32.3	24.2	10.8	8.1	13.5	18.8	16.1	8.1	5.4	5.4
80°	2.7	5.4	5.4	5.4	8.1	10.8	13.5	5.4	2.7	2.7
82.5°	0.0	2.7	2.7	2.7	5.4	8.1	10.8	5.4	2.7	2.7
85°	0.0	0.0	0.0	0.0	5.4	8.1	5.4	2.7	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	2.7	8.1	5.4	2.7	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)