

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: P641174

Luminaire Tested: GWS-SA5F-735-U-SLL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-38)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-SLL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22074.2 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

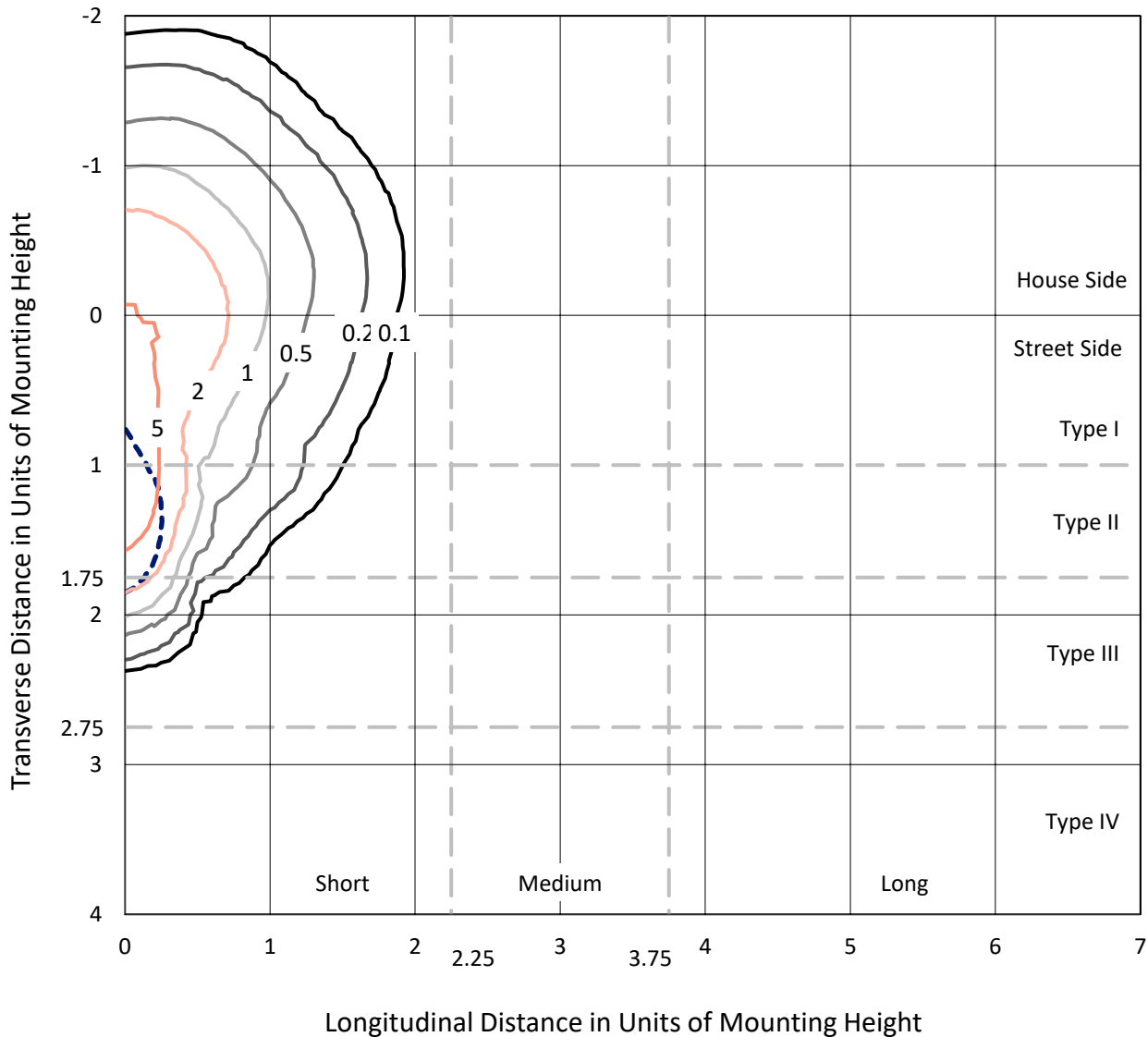
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

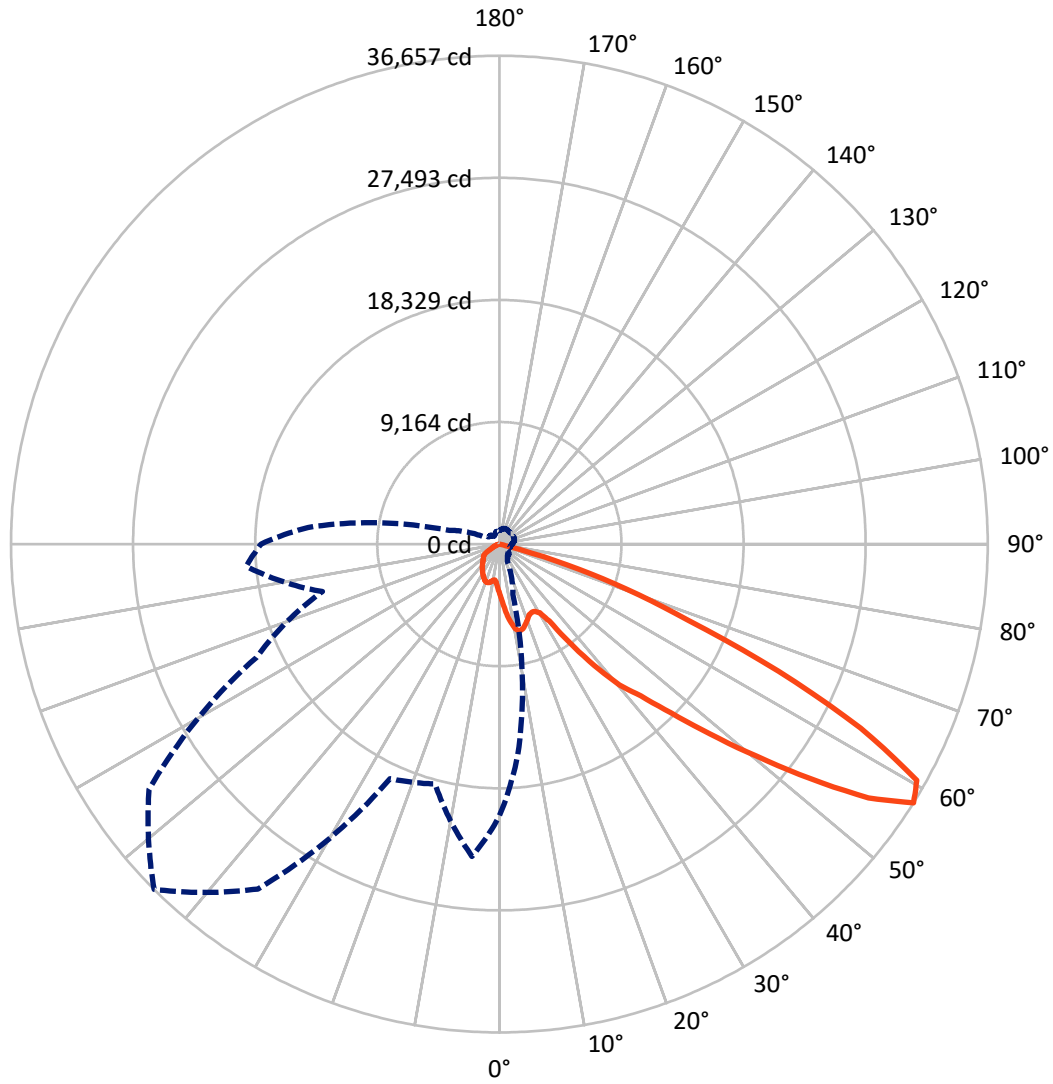
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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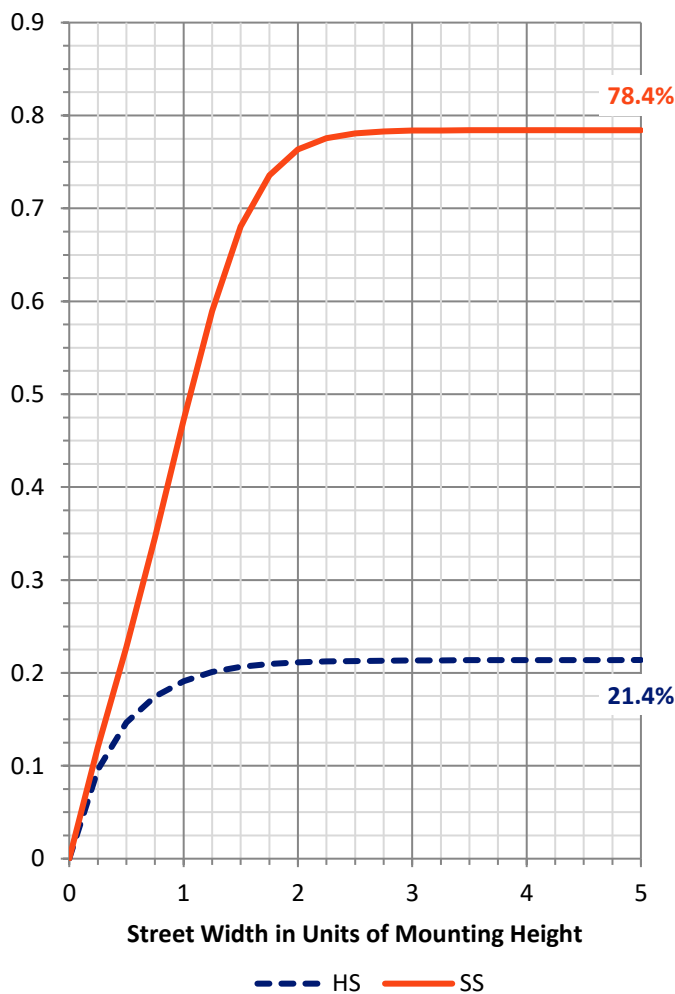
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4755.5	0.0	4755.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	17318.7	0.0	17318.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	22074.2	0.0	22074.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.7	1.7
10°-20°	1219.8	5.5
20°-30°	1979.7	9.0
30°-40°	3038.3	13.8
40°-50°	4852.4	22.0
50°-60°	6794.3	30.8
60°-70°	3483.6	15.8
70°-80°	335.4	1.5
80°-90°	0.0	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°	22074.2	100.0
0°-180°	22074.2	100.0

Coefficient of Utilization



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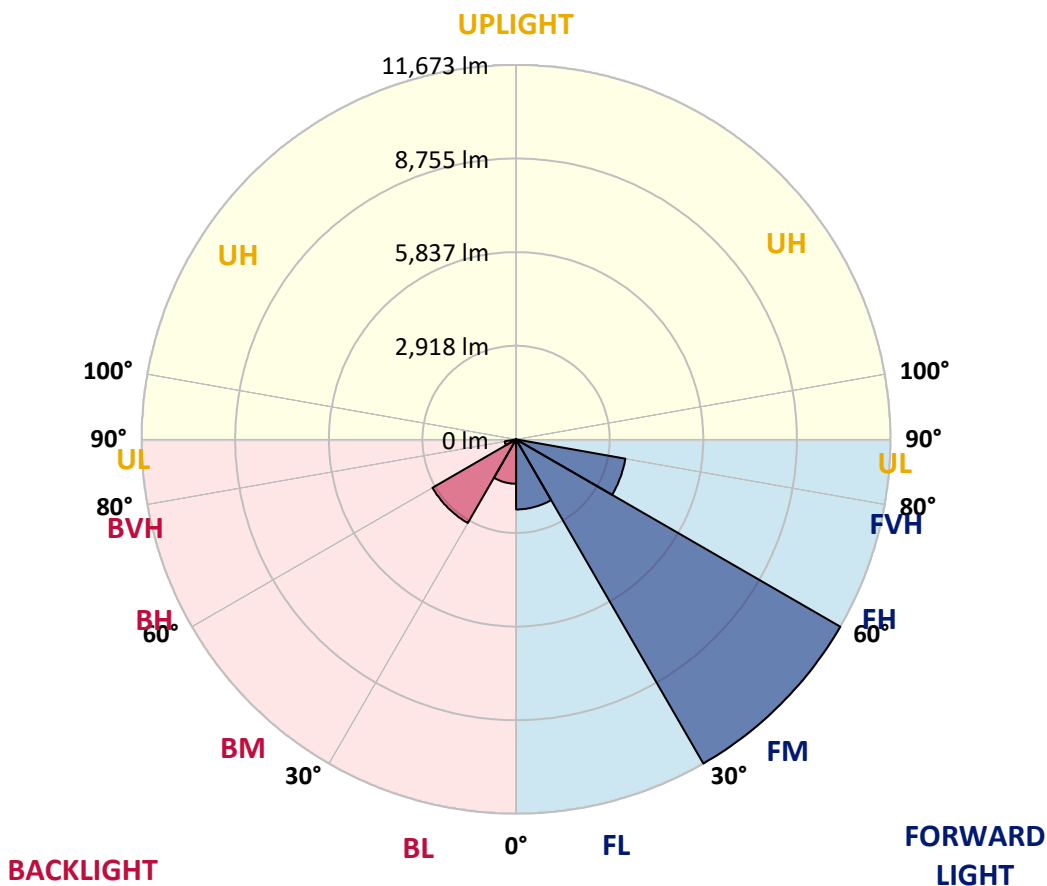
CATALOG NUMBER: GWS-SA5F-735-U-SLL-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2185.5	9.9			
FM (30°-60°)	11673.4	52.9			
FH (60°-80°)	3459.8	15.7			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1384.7	6.3	B3/2500		
BM (30°-60°)	3011.6	13.6	B3/5000		
BH (60°-80°)	359.2	1.6	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°	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7
2.5°	4166.8	4158.0	4128.5	4028.1	3966.2	3868.8	3797.9	3706.5	3606.1	3544.2	3482.2
5°	4609.5	4585.9	4506.2	4276.0	4099.0	3907.1	3753.7	3585.5	3405.5	3287.4	3178.2
7.5°	5034.4	4999.0	4892.8	4503.2	4234.7	3960.3	3741.9	3496.9	3243.2	3066.1	2930.4
10°	5450.5	5370.8	5202.6	4724.6	4361.6	4031.1	3774.3	3494.0	3195.9	2971.7	2821.2
12.5°	5792.8	5733.8	5503.6	4934.1	4467.8	4045.8	3730.1	3470.4	3269.7	3119.2	2980.5
15°	6087.9	6023.0	5804.6	5123.0	4559.3	3986.8	3544.2	3316.9	3349.4	3408.4	3290.4
17.5°	6359.4	6291.6	6055.5	5279.4	4594.7	3842.2	3284.5	3175.3	3355.3	3576.6	3532.4
20°	6639.8	6563.0	6273.8	5406.3	4582.9	3615.0	3021.8	3054.3	3308.1	3561.9	3585.5
22.5°	6967.3	6887.7	6551.2	5568.6	4574.1	3343.5	2794.6	2948.1	3219.6	3435.0	3476.3
25°	7401.1	7306.7	6937.8	5807.6	4597.7	3095.6	2632.3	2844.8	3069.1	3263.8	3287.4
27.5°	7973.6	7852.6	7383.4	6102.7	4647.8	2900.8	2561.5	2703.1	2877.2	3051.3	3072.0
30°	8720.2	8566.8	7894.0	6359.4	4624.2	2765.1	2514.3	2561.5	2664.8	2806.4	2809.4
32.5°	9593.7	9384.2	8466.4	6580.8	4420.6	2664.8	2449.3	2416.9	2440.5	2549.7	2570.3
35°	10620.7	10349.2	9098.0	6790.3	4048.8	2470.0	2331.3	2222.1	2213.3	2266.4	2316.5
37.5°	11798.1	11473.5	9894.7	7058.8	3609.1	2266.4	2157.2	2048.0	2000.8	2027.3	2104.1
40°	12884.1	12524.1	10726.9	7383.4	3160.5	2083.4	1953.6	1841.4	1785.4	1794.2	1888.6
42.5°	14158.9	13787.1	11745.0	7808.4	2788.7	1959.5	1741.1	1626.0	1552.2	1593.5	1702.7
45°	16094.8	15672.8	13229.4	8177.2	2493.6	1930.0	1555.2	1392.9	1357.5	1428.3	1558.1
47.5°	18738.9	18222.5	15268.5	8401.5	2242.8	1956.5	1425.3	1204.0	1212.9	1292.5	1422.4
50°	21362.4	20804.6	17626.4	8106.4	2036.2	1903.4	1360.4	1056.5	1112.5	1183.4	1301.4
52.5°	23165.4	22439.5	18774.3	7253.6	1847.3	1702.7	1354.5	917.8	1024.0	1047.6	1147.9
55°	23236.3	22342.1	18187.1	5719.1	1590.6	1437.1	1292.5	802.7	926.6	935.5	1021.0
57.5°	20367.9	19559.3	15894.1	3927.8	1413.5	1053.5	1029.9	702.3	761.4	835.1	888.3
60°	15495.8	14808.2	11886.7	1800.1	1074.2	669.9	705.3	605.0	569.5	678.7	731.9
62.5°	9490.4	9050.7	7129.6	796.8	684.6	357.1	427.9	481.0	427.9	469.2	513.5
65°	3768.4	3573.7	2706.1	339.4	280.3	180.0	194.8	280.3	301.0	330.5	371.8
67.5°	655.1	619.7	454.5	150.5	115.1	109.2	94.4	129.8	183.0	203.6	236.1
70°	85.6	82.6	73.8	62.0	59.0	53.1	41.3	82.6	123.9	129.8	150.5
72.5°	20.7	17.7	17.7	14.8	17.7	5.9	5.9	44.3	88.5	91.5	106.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	56.1	62.0	73.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7
2.5°	3432.0	3373.0	3352.3	3322.8	3284.5	3296.3	3243.2	3225.5	3252.0	3287.4	3278.6
5°	3119.2	3054.3	3010.0	2942.2	2930.4	2903.8	2886.1	2862.5	2892.0	2933.3	2942.2
7.5°	2871.3	2815.3	2771.0	2750.3	2735.6	2723.8	2688.4	2670.7	2670.7	2688.4	2703.1
10°	2765.1	2723.8	2714.9	2720.8	2744.4	2741.5	2709.0	2685.4	2655.9	2641.2	2658.9
12.5°	2912.6	2844.8	2833.0	2835.9	2865.4	2862.5	2827.1	2797.6	2791.7	2797.6	2853.6
15°	3163.5	3060.2	2983.5	2968.7	2983.5	2977.6	2951.0	2933.3	2942.2	3027.7	3122.2
17.5°	3387.8	3228.4	3089.7	3036.6	3033.6	3024.8	2998.2	2992.3	3036.6	3195.9	3334.6
20°	3452.7	3296.3	3098.6	3030.7	3015.9	3007.1	2977.6	2986.4	3042.5	3234.3	3352.3
22.5°	3367.1	3216.6	3010.0	2942.2	2930.4	2927.4	2897.9	2909.7	2956.9	3125.1	3222.5
25°	3204.8	3077.9	2862.5	2803.5	2803.5	2797.6	2771.0	2776.9	2806.4	2954.0	3048.4
27.5°	3007.1	2886.1	2706.1	2647.1	2655.9	2664.8	2632.3	2623.4	2647.1	2785.8	2841.8
30°	2779.9	2694.3	2552.6	2499.5	2496.6	2532.0	2487.7	2475.9	2508.4	2617.5	2629.3
32.5°	2558.5	2517.2	2416.9	2375.6	2378.5	2384.4	2360.8	2360.8	2390.3	2449.3	2446.4
35°	2343.1	2316.5	2298.8	2269.3	2266.4	2254.6	2254.6	2260.5	2292.9	2313.6	2275.2
37.5°	2136.5	2163.1	2183.7	2154.2	2130.6	2130.6	2130.6	2157.2	2186.7	2177.8	2112.9
40°	1953.6	2009.6	2074.6	2042.1	1986.0	1983.1	1994.9	2039.1	2083.4	2030.3	1971.3
42.5°	1797.2	1868.0	1959.5	1941.8	1879.8	1870.9	1879.8	1935.9	1971.3	1903.4	1838.5
45°	1643.7	1732.2	1841.4	1841.4	1773.6	1764.7	1767.7	1841.4	1862.1	1782.4	1699.8
47.5°	1513.9	1611.3	1726.3	1726.3	1670.3	1652.6	1667.3	1744.0	1758.8	1646.7	1569.9
50°	1389.9	1496.2	1623.1	1614.2	1575.8	1561.1	1587.6	1670.3	1652.6	1528.6	1448.9
52.5°	1233.5	1345.7	1519.8	1528.6	1508.0	1510.9	1543.4	1596.5	1546.3	1395.8	1328.0
55°	1091.9	1207.0	1381.1	1428.3	1428.3	1425.3	1440.1	1481.4	1440.1	1260.1	1177.5
57.5°	938.4	1035.8	1180.4	1192.2	1201.1	1168.6	1189.3	1245.3	1224.7	1071.2	1024.0
60°	770.2	852.8	935.5	944.3	906.0	838.1	876.4	941.4	956.1	841.0	787.9
62.5°	545.9	625.6	723.0	723.0	684.6	616.8	666.9	723.0	702.3	584.3	551.8
65°	407.2	481.0	554.8	587.3	554.8	507.6	545.9	587.3	554.8	457.4	410.2
67.5°	262.6	312.8	357.1	383.6	389.5	383.6	401.3	389.5	351.2	286.2	259.7
70°	159.4	185.9	209.5	233.1	250.8	259.7	268.5	242.0	203.6	168.2	159.4
72.5°	115.1	138.7	159.4	177.1	197.7	203.6	203.6	185.9	150.5	118.0	109.2
75°	79.7	100.3	118.0	129.8	147.6	153.5	153.5	138.7	112.1	85.6	76.7
77.5°	3.0	20.7	20.7	17.7	23.6	29.5	29.5	35.4	32.5	23.6	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7
2.5°	3296.3	3402.5	3432.0	3541.2	3638.6	3736.0	3854.0	3924.8	4031.1	4104.9	4146.2
5°	2971.7	3060.2	3166.4	3328.7	3496.9	3682.9	3907.1	4101.9	4346.8	4526.8	4585.9
7.5°	2735.6	2850.7	2974.6	3178.2	3408.4	3656.3	3972.1	4290.8	4665.5	4910.5	5066.9
10°	2691.3	2809.4	2974.6	3175.3	3417.3	3700.6	4087.1	4500.3	4969.5	5267.6	5444.6
12.5°	2903.8	3030.7	3101.5	3193.0	3376.0	3691.7	4187.5	4712.8	5264.6	5589.2	5778.1
15°	3216.6	3328.7	3213.6	3098.6	3216.6	3597.3	4243.6	4889.8	5524.3	5899.1	6093.8
17.5°	3432.0	3440.9	3190.0	2945.1	2977.6	3426.1	4264.2	5066.9	5801.7	6194.2	6397.8
20°	3411.4	3340.5	3086.8	2815.3	2714.9	3204.8	4240.6	5223.3	6082.0	6492.2	6692.9
22.5°	3252.0	3169.4	2954.0	2688.4	2493.6	2942.2	4199.3	5364.9	6338.8	6805.0	6993.9
25°	3060.2	2971.7	2794.6	2561.5	2352.0	2688.4	4166.8	5559.7	6663.4	7212.3	7359.8
27.5°	2835.9	2759.2	2608.7	2440.5	2292.9	2496.6	4158.0	5816.4	7055.9	7708.0	7811.3
30°	2617.5	2546.7	2428.7	2331.3	2269.3	2384.4	4128.5	6090.9	7525.1	8277.6	8389.7
32.5°	2408.0	2337.2	2263.4	2248.7	2251.6	2343.1	4028.1	6362.4	8082.8	9103.9	9186.5
35°	2228.0	2145.4	2115.9	2151.3	2216.2	2272.3	3744.8	6586.7	8681.9	10003.9	10071.8
37.5°	2056.9	1974.2	1971.3	2056.9	2127.7	2163.1	3411.4	6808.0	9490.4	10918.7	11004.3
40°	1900.5	1817.8	1847.3	1950.6	2006.7	2024.4	3007.1	7144.4	10346.2	11883.7	11836.5
42.5°	1767.7	1682.1	1699.8	1832.6	1882.7	1930.0	2635.3	7424.7	11169.6	12798.5	12783.8
45°	1637.8	1572.9	1561.1	1705.7	1749.9	1938.8	2363.8	7640.2	12229.0	13964.2	13987.8
47.5°	1510.9	1460.7	1463.7	1525.7	1634.9	1983.1	2133.6	7781.8	13766.5	15811.5	15401.3
50°	1395.8	1357.5	1389.9	1319.1	1561.1	1927.0	1935.9	7752.3	15483.9	17582.1	16758.8
52.5°	1268.9	1260.1	1274.8	1103.7	1443.0	1699.8	1749.9	7359.8	16289.6	18792.0	18322.8
55°	1139.1	1136.1	1018.1	882.4	1207.0	1357.5	1499.1	6141.1	16263.0	19435.4	20004.9
57.5°	985.6	962.0	773.2	720.0	938.4	944.3	1366.3	4022.2	14412.7	17894.9	19075.3
60°	746.6	728.9	566.6	584.3	655.1	605.0	1088.9	2003.7	10771.2	13940.6	15271.5
62.5°	516.4	492.8	422.0	451.5	422.0	345.3	666.9	991.5	6524.7	8802.9	10009.8
65°	377.7	351.2	289.2	247.9	197.7	197.7	253.8	380.7	2526.1	3741.9	4512.1
67.5°	233.1	221.3	171.2	123.9	121.0	129.8	132.8	188.9	407.2	649.2	793.8
70°	150.5	138.7	115.1	79.7	73.8	76.7	79.7	88.5	103.3	112.1	135.7
72.5°	103.3	97.4	82.6	44.3	35.4	38.4	41.3	41.3	50.2	47.2	56.1
75°	73.8	67.9	59.0	20.7	11.8	14.8	17.7	14.8	17.7	11.8	14.8
77.5°	20.7	20.7	14.8	3.0	0.0	3.0	5.9	5.9	3.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	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°	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7	3750.7
2.5°	4252.4	4320.3	4346.8	4308.5	4340.9	4287.8	4267.2	4187.5	4181.6	4166.8
5°	4824.9	4978.4	5069.8	5125.9	5061.0	4990.2	4883.9	4701.0	4644.9	4609.5
7.5°	5388.5	5627.6	5784.0	5857.8	5840.0	5695.4	5503.6	5196.7	5087.5	5034.4
10°	5878.4	6170.6	6359.4	6450.9	6412.5	6285.7	6011.2	5627.6	5483.0	5450.5
12.5°	6220.7	6489.3	6619.1	6698.8	6701.7	6651.6	6391.9	6005.3	5834.1	5792.8
15°	6436.2	6551.2	6554.2	6601.4	6684.0	6796.2	6675.2	6332.9	6149.9	6087.9
17.5°	6571.9	6445.0	6315.2	6327.0	6462.7	6760.8	6884.7	6622.1	6427.3	6359.4
20°	6669.3	6267.9	6026.0	6028.9	6167.6	6619.1	7029.3	6902.4	6701.7	6639.8
22.5°	6731.3	6111.5	5766.3	5757.4	5905.0	6450.9	7162.1	7235.9	7038.2	6967.3
25°	6858.1	6037.8	5609.9	5660.0	5789.9	6397.8	7342.1	7678.5	7495.6	7401.1
27.5°	7085.4	6111.5	5595.1	5710.2	5857.8	6554.2	7654.9	8268.7	8079.9	7973.6
30°	7477.9	6388.9	5822.3	5981.7	6158.8	6964.4	8180.2	9092.1	8820.6	8720.2
32.5°	8109.4	6964.4	6524.7	6867.0	7038.2	7637.2	8968.1	10015.7	9794.4	9593.7
35°	8979.9	8277.6	8227.4	9024.2	8982.9	8912.1	9936.1	11148.9	10815.5	10620.7
37.5°	10178.0	10390.5	10762.3	11553.2	11526.6	10986.6	11207.9	12220.1	12049.0	11798.1
40°	11674.2	12125.7	12757.2	13890.4	13536.3	12857.6	12769.0	13317.9	13179.2	12884.1
42.5°	12556.5	13335.6	14539.6	15557.7	15274.4	14088.1	13987.8	14784.6	14480.6	14158.9
45°	12966.7	14321.3	16682.1	18060.2	17201.4	14905.6	14867.2	16696.8	16525.7	16094.8
47.5°	13155.6	15315.7	19190.4	21276.8	19671.4	15622.6	15483.9	19470.8	19246.5	18738.9
50°	13365.1	16688.0	22212.3	25003.9	22654.9	16434.2	16534.5	22055.8	21961.4	21362.4
52.5°	13825.5	18139.9	25933.5	29265.2	26272.8	17706.1	18337.6	24493.4	23856.0	23165.4
55°	14516.0	19721.6	29805.2	33617.9	29964.6	19414.7	20288.2	25788.9	24000.6	23236.3
57.5°	13751.7	20117.0	32098.1	36657.4	31602.4	19420.6	18638.6	23543.2	21108.6	20367.9
60°	10912.8	18715.3	31215.8	35999.4	30206.5	17245.7	14271.1	18381.8	15991.5	15495.8
62.5°	7377.5	15696.4	27479.8	30445.6	25853.8	13565.8	9275.0	11954.5	9900.6	9490.4
65°	4042.9	11709.6	22203.4	23032.6	20235.1	9475.7	4771.8	5187.9	3951.4	3768.4
67.5°	1115.5	8150.7	16336.8	15280.3	14197.3	6170.6	1233.5	926.6	661.0	655.1
70°	280.3	5391.5	9788.5	10089.5	8705.5	3951.4	236.1	112.1	88.5	85.6
72.5°	118.0	2319.5	4644.9	5338.4	4456.0	1829.6	85.6	32.5	26.6	20.7
75°	14.8	185.9	395.4	599.1	410.2	197.7	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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
85°	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
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)