

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: P643650

Luminaire Tested: GWS-SA6F-735-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38209 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

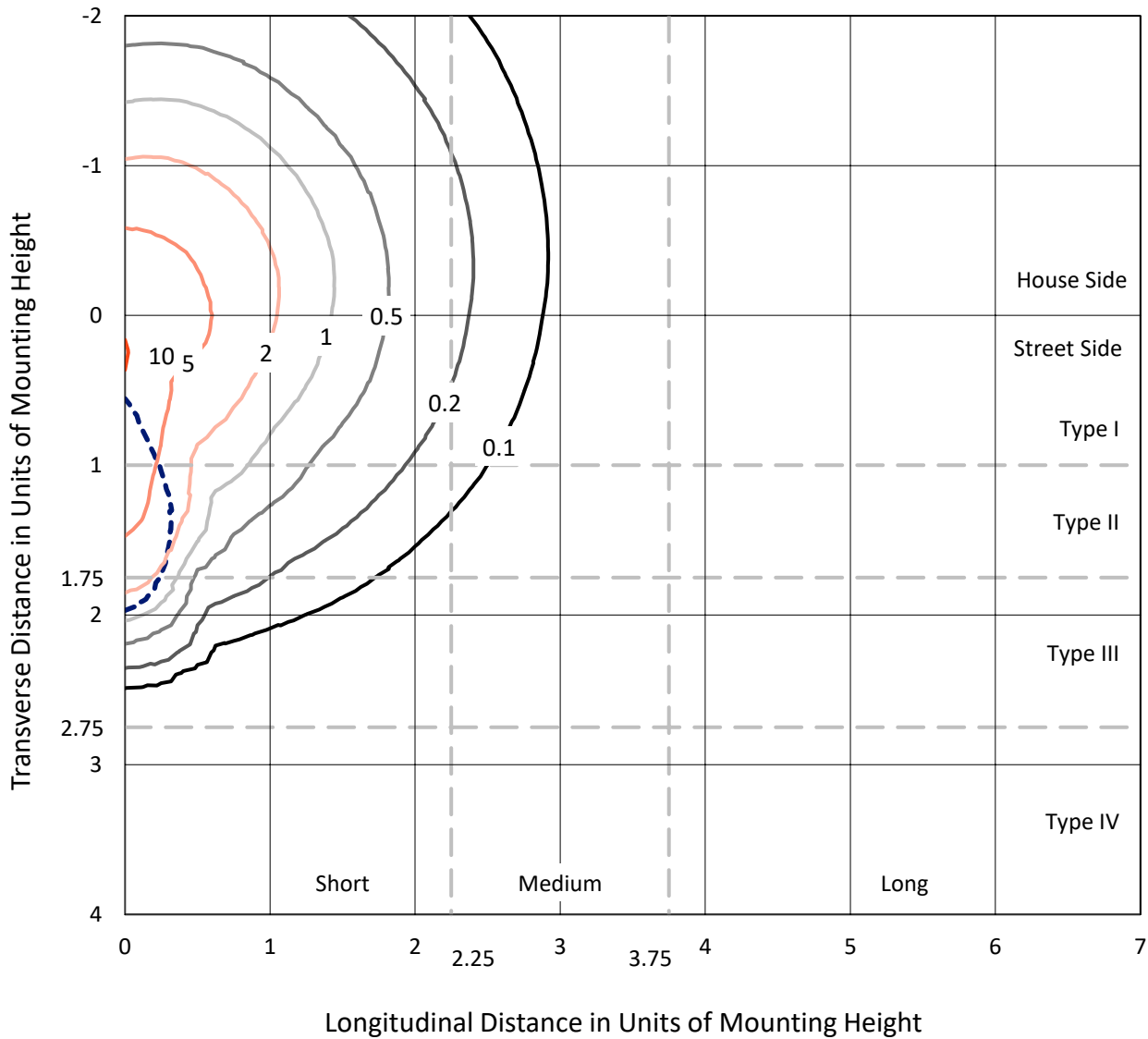
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

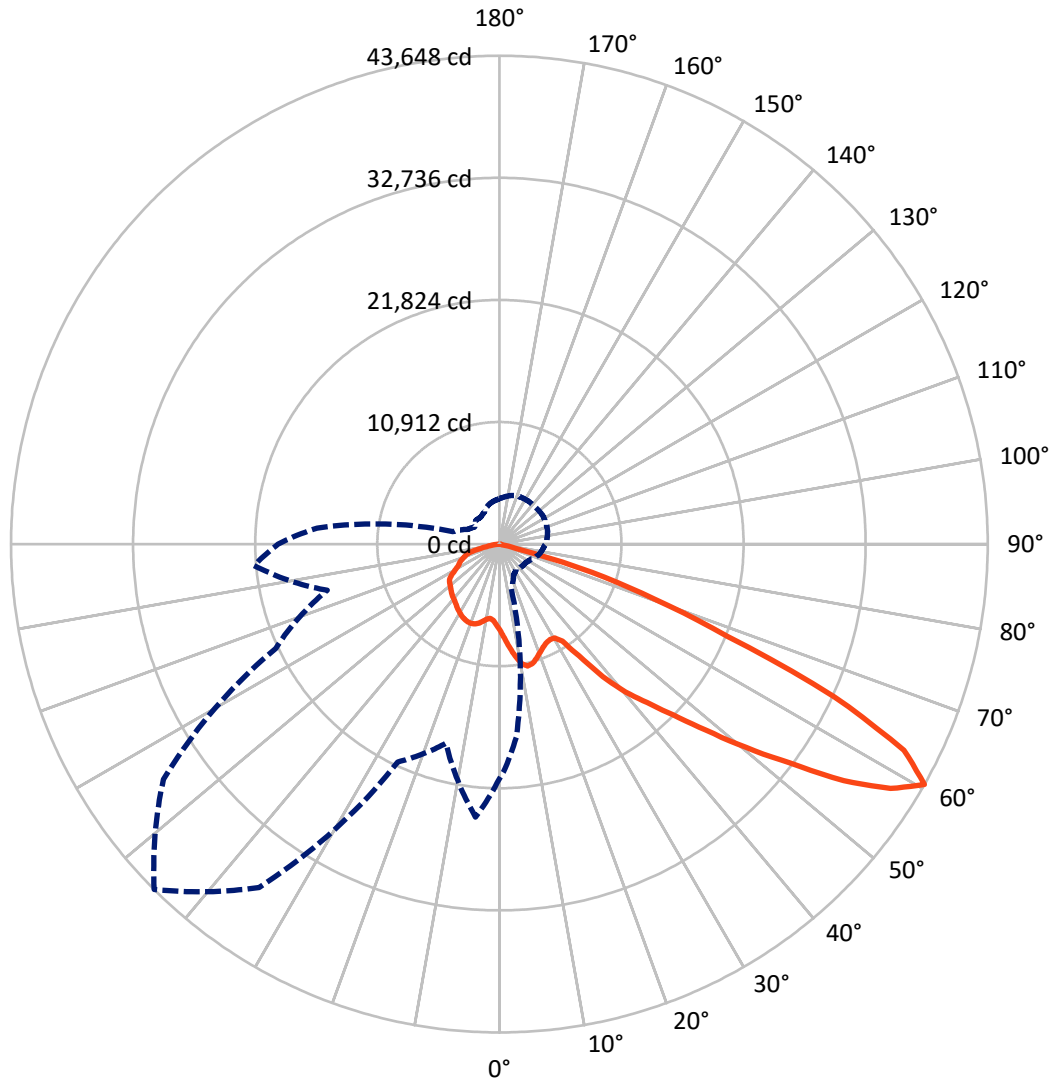
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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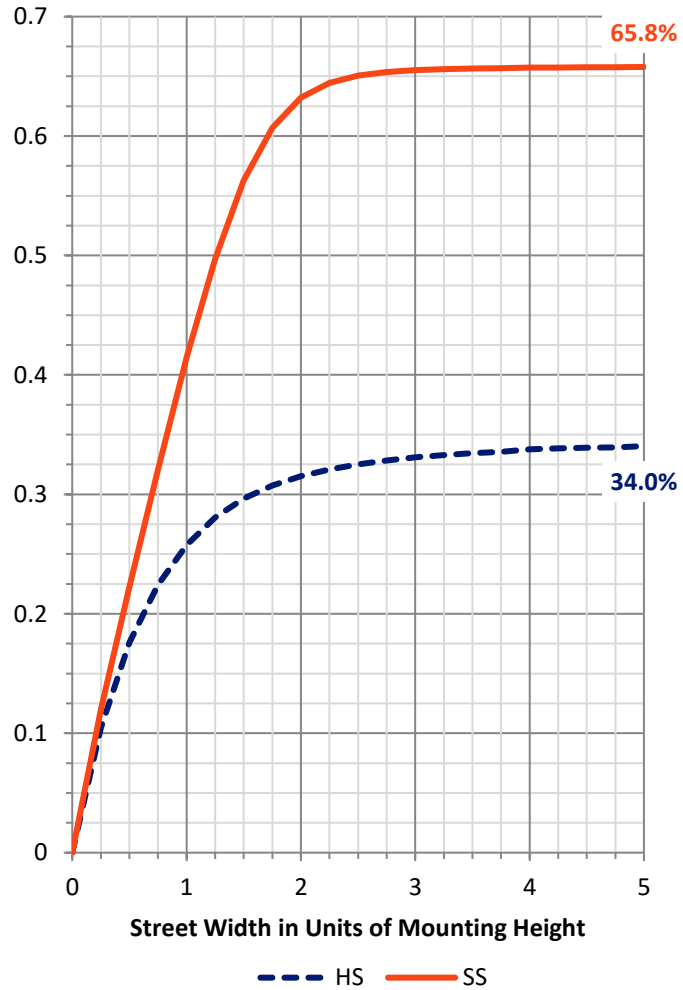
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13071.0	0.0	13071.0
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	25138.0	0.0	25138.0
	% Fixture	65.8	0.0	65.8
Total	Lumens	38209.0	0.0	38209.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.9	2.0
10°-20°	2414.9	6.3
20°-30°	3933.0	10.3
30°-40°	5525.0	14.5
40°-50°	7560.4	19.8
50°-60°	9699.5	25.4
60°-70°	6531.3	17.1
70°-80°	1632.8	4.3
80°-90°	159.2	0.4
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°	38209.0	100.0
0°-180°	38209.0	100.0

Coefficient of Utilization



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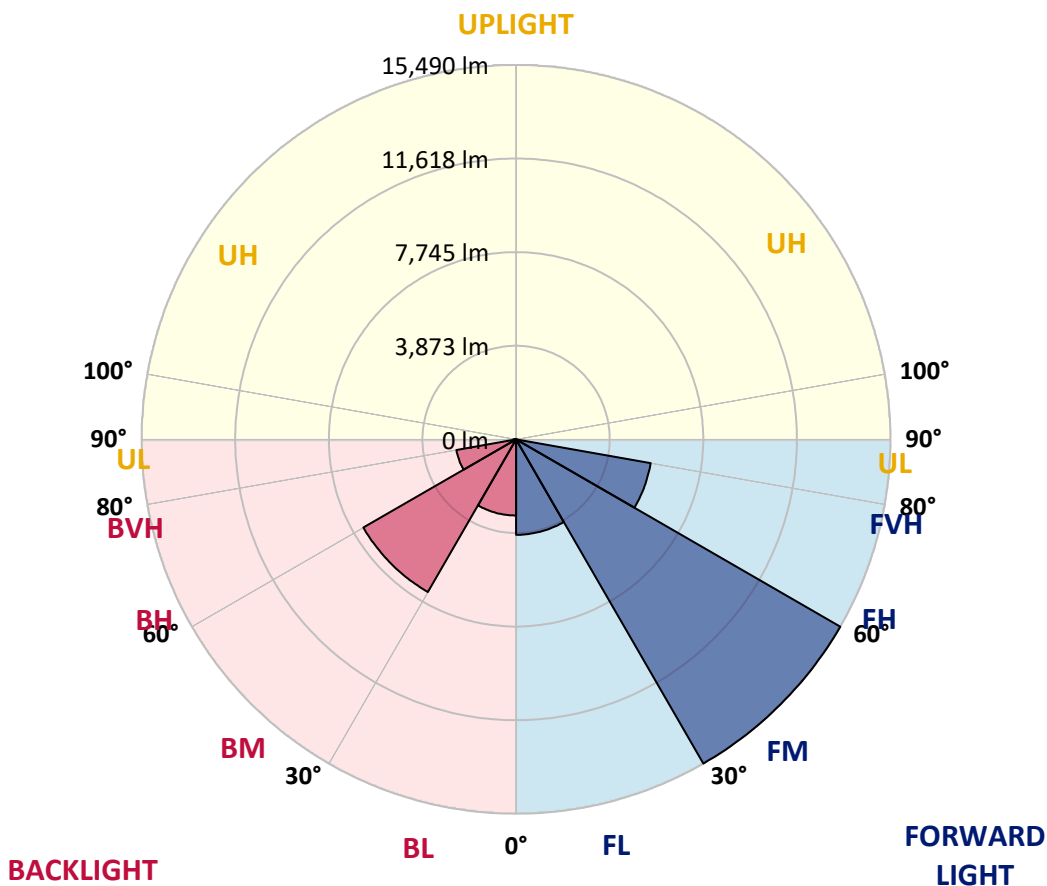
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3949.9	10.3			
FM (30°-60°)	15490.2	40.5			
FH (60°-80°)	5656.5	14.8			G3/7500
FVH (80°-90°)	41.4	0.1			G1/100
BL (0°-30°)	3150.9	8.2	B4/5000		
BM (30°-60°)	7294.6	19.1	B4/8500		
BH (60°-80°)	2507.6	6.6	B4/5000		G4/5000
BVH (80°-90°)	117.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3
2.5°	8153.2	8135.7	8118.1	7980.8	7945.6	7847.1	7776.7	7688.8	7562.1	7491.7	7431.9
5°	8663.5	8635.3	8540.3	8258.8	8075.8	7875.3	7709.9	7526.9	7333.3	7206.7	7108.1
7.5°	9145.6	9138.5	8976.7	8512.2	8216.6	7928.0	7702.8	7435.4	7157.4	6967.4	6840.7
10°	9592.5	9539.7	9346.1	8740.9	8353.8	8023.0	7780.2	7484.7	7160.9	6904.0	6735.1
12.5°	9986.6	9919.7	9652.3	8952.0	8473.5	8065.3	7801.4	7558.6	7343.9	7129.3	6935.7
15°	10310.3	10229.4	9958.4	9149.1	8579.0	8040.6	7671.2	7481.1	7555.0	7650.0	7435.4
17.5°	10612.9	10528.5	10197.7	9293.4	8610.7	7889.3	7350.9	7270.0	7643.0	8075.8	7977.3
20°	10866.3	10771.3	10387.7	9363.7	8554.4	7600.8	6935.7	7076.5	7569.1	8086.4	8244.7
22.5°	11140.8	11063.4	10602.4	9465.8	8484.0	7203.1	6587.3	6932.2	7442.4	7896.4	8135.7
25°	11580.6	11485.6	10936.7	9645.3	8448.8	6830.1	6337.5	6791.4	7266.5	7678.2	7864.7
27.5°	12217.6	12041.6	11394.1	9958.4	8487.5	6478.3	6179.2	6619.0	7062.4	7414.3	7565.6
30°	12910.8	12699.6	11900.9	10282.2	8543.8	6263.6	6094.7	6422.0	6749.2	7101.1	7266.5
32.5°	13730.7	13544.2	12442.8	10525.0	8424.2	6165.1	6031.4	6207.3	6467.7	6749.2	6886.4
35°	14708.9	14374.6	13033.9	10722.0	8037.1	6020.8	5975.1	5971.5	6108.8	6383.2	6538.1
37.5°	15761.1	15402.1	13762.3	10933.2	7435.4	5792.1	5841.3	5693.5	5820.2	6038.4	6214.3
40°	16623.2	16246.7	14497.8	11221.7	6682.4	5433.2	5545.8	5387.4	5464.8	5690.0	5887.1
42.5°	17467.7	17066.6	15184.0	11549.0	5953.9	5081.3	5137.6	5077.7	5102.4	5338.1	5612.6
45°	18576.2	18125.8	16028.5	11781.2	5299.4	4803.3	4750.5	4648.4	4778.6	5084.8	5376.9
47.5°	20427.1	19888.7	17411.4	11932.5	4824.4	4644.9	4402.1	4342.3	4504.2	4845.5	5148.1
50°	22591.2	22126.7	19621.3	11925.5	4469.0	4511.2	4064.3	4011.5	4279.0	4623.8	4944.0
52.5°	24364.7	23893.2	21510.9	11573.6	4176.9	4226.2	3867.3	3719.5	4085.4	4405.6	4725.9
55°	25796.9	25265.6	22380.1	10102.7	3807.4	3772.2	3652.6	3381.6	3842.6	4187.5	4486.6
57.5°	25026.3	24392.9	21327.9	7681.7	3427.4	3205.7	3283.1	3082.5	3511.8	3944.7	4233.2
60°	20983.1	20413.0	17327.0	4088.9	3015.7	2677.9	2839.7	2871.4	3149.4	3652.6	3948.2
62.5°	14413.3	13998.1	11742.5	2480.8	2378.8	2150.0	2403.4	2632.1	2839.7	3265.5	3522.4
65°	7051.8	6928.7	5873.0	1590.5	1664.4	1738.3	1991.7	2269.7	2575.8	2948.8	3219.8
67.5°	1942.4	1956.5	1780.6	1242.2	1312.5	1516.6	1717.2	1938.9	2245.0	2589.9	2864.4
70°	855.1	869.2	897.3	957.1	1090.9	1277.4	1485.0	1713.7	1995.2	2283.8	2547.7
72.5°	594.7	608.8	651.0	728.4	848.1	1024.0	1221.1	1439.2	1731.3	1974.1	2192.3
75°	366.0	376.5	415.2	482.1	563.0	696.7	890.3	1090.9	1347.7	1569.4	1763.0
77.5°	193.5	186.5	211.1	256.9	327.3	397.6	527.8	654.5	837.5	1017.0	1178.8
80°	105.6	102.0	116.1	140.8	161.9	218.2	306.1	390.6	496.2	598.2	686.2
82.5°	45.7	42.2	45.7	59.8	73.9	105.6	154.8	214.7	274.5	344.9	401.2
85°	0.0	0.0	0.0	3.5	17.6	28.2	52.8	77.4	112.6	154.8	190.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	31.7
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°	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3
2.5°	7396.7	7308.7	7301.7	7231.3	7238.3	7241.9	7171.5	7143.3	7168.0	7196.1	7182.0
5°	7073.0	6981.5	6942.8	6875.9	6868.9	6837.2	6809.0	6773.8	6798.5	6823.1	6837.2
7.5°	6791.4	6731.6	6707.0	6689.4	6696.4	6682.4	6626.1	6594.4	6590.9	6601.4	6615.5
10°	6699.9	6650.7	6682.4	6731.6	6766.8	6791.4	6731.6	6678.8	6629.6	6608.5	6608.5
12.5°	6897.0	6833.7	6897.0	6949.8	7020.2	7037.8	6970.9	6914.6	6897.0	6918.1	6960.3
15°	7333.3	7185.6	7182.0	7213.7	7270.0	7298.2	7234.8	7206.7	7206.7	7340.4	7446.0
17.5°	7769.7	7526.9	7424.8	7407.2	7442.4	7453.0	7400.2	7375.6	7438.9	7699.3	7896.4
20°	8075.8	7780.2	7558.6	7516.3	7526.9	7530.4	7488.2	7470.6	7562.1	7878.8	8044.2
22.5°	8044.2	7826.0	7555.0	7502.3	7519.8	7512.8	7474.1	7467.1	7541.0	7815.4	7892.8
25°	7826.0	7657.1	7428.4	7393.2	7421.3	7417.8	7379.1	7361.5	7393.2	7576.2	7583.2
27.5°	7576.2	7428.4	7231.3	7220.7	7266.5	7291.1	7224.3	7171.5	7160.9	7284.1	7255.9
30°	7277.0	7168.0	7009.6	7016.6	7101.1	7115.2	7034.2	6956.8	6935.7	7002.6	6963.9
32.5°	6921.6	6886.4	6802.0	6819.6	6900.5	6928.7	6844.2	6763.3	6738.7	6759.8	6678.8
35°	6619.0	6604.9	6612.0	6643.6	6714.0	6735.1	6664.8	6601.4	6566.2	6492.3	6386.8
37.5°	6305.8	6344.5	6446.6	6506.4	6545.1	6538.1	6499.4	6453.6	6397.3	6260.1	6129.9
40°	6013.8	6112.3	6295.3	6362.1	6376.2	6379.7	6351.6	6312.9	6242.5	6059.5	5911.7
42.5°	5788.6	5897.6	6140.4	6242.5	6249.5	6256.6	6228.4	6196.7	6098.2	5855.4	5711.1
45°	5552.8	5697.1	5982.1	6105.3	6098.2	6094.7	6070.1	6056.0	5939.9	5658.4	5500.0
47.5°	5352.2	5521.1	5827.3	5932.8	5929.3	5925.8	5908.2	5908.2	5792.1	5485.9	5306.5
50°	5155.2	5348.7	5668.9	5756.9	5763.9	5756.9	5749.9	5760.4	5623.2	5295.9	5120.0
52.5°	4940.5	5158.7	5493.0	5573.9	5616.1	5633.7	5633.7	5609.1	5447.2	5105.9	4912.4
55°	4704.7	4912.4	5299.4	5408.5	5443.7	5475.4	5475.4	5426.1	5274.8	4930.0	4722.3
57.5°	4412.7	4595.7	4901.8	5010.9	5095.3	5116.5	5116.5	5035.5	4912.4	4581.6	4412.7
60°	4096.0	4254.3	4461.9	4578.1	4641.4	4599.2	4630.8	4609.7	4511.2	4205.1	4064.3
62.5°	3673.7	3835.6	4064.3	4183.9	4212.1	4169.9	4212.1	4208.6	4074.9	3800.4	3631.5
65°	3371.1	3529.4	3754.6	3909.5	3955.2	3944.7	3972.8	3930.6	3765.2	3504.8	3342.9
67.5°	3012.2	3181.1	3441.5	3613.9	3708.9	3719.5	3758.2	3670.2	3501.3	3216.3	3012.2
70°	2670.8	2815.1	3015.7	3177.5	3311.3	3378.1	3385.2	3258.5	3047.4	2811.6	2663.8
72.5°	2311.9	2459.7	2702.5	2878.4	3047.4	3124.8	3124.8	2969.9	2741.2	2480.8	2322.5
75°	1875.6	2012.8	2234.5	2424.5	2618.0	2716.6	2713.1	2579.3	2326.0	2079.7	1914.3
77.5°	1270.3	1372.4	1513.1	1657.4	1685.5	1763.0	1801.7	1632.8	1492.0	1358.3	1210.5
80°	739.0	802.3	879.7	960.7	978.2	1002.9	939.5	876.2	802.3	714.3	647.5
82.5°	432.8	475.0	513.8	577.1	587.7	594.7	538.4	510.2	450.4	397.6	355.4
85°	211.1	225.2	260.4	292.1	278.0	271.0	246.3	218.2	193.5	172.4	151.3
87.5°	42.2	42.2	63.3	59.8	49.3	42.2	24.6	31.7	7.0	7.0	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°	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3
2.5°	7227.8	7287.6	7361.5	7460.0	7572.6	7692.3	7808.4	7896.4	7984.3	8114.5	8093.4
5°	6858.3	6960.3	7076.5	7227.8	7410.8	7618.4	7850.6	8082.9	8332.7	8543.8	8635.3
7.5°	6643.6	6756.3	6893.5	7090.5	7326.3	7579.7	7906.9	8283.4	8688.1	8966.1	9138.5
10°	6643.6	6787.9	6967.4	7157.4	7365.0	7625.4	8030.1	8501.6	9022.4	9388.4	9589.0
12.5°	7027.2	7171.5	7210.2	7203.1	7319.3	7607.8	8128.6	8730.3	9353.2	9740.3	9986.6
15°	7625.4	7674.7	7382.6	7115.2	7132.8	7481.1	8174.4	8913.3	9638.2	10102.7	10370.1
17.5°	8026.6	7896.4	7375.6	6907.6	6809.0	7266.5	8174.4	9089.3	9940.8	10465.2	10715.0
20°	8058.2	7734.5	7196.1	6707.0	6453.6	6981.5	8118.1	9223.0	10232.9	10813.5	11081.0
22.5°	7780.2	7460.0	7006.1	6534.6	6161.6	6636.6	8026.6	9325.0	10482.7	11140.8	11471.6
25°	7463.5	7196.1	6812.6	6358.6	5961.0	6288.2	7942.1	9497.5	10831.1	11584.2	11918.4
27.5°	7153.9	6928.7	6580.3	6210.8	5848.4	5985.6	7889.3	9750.8	11246.3	12214.0	12502.6
30°	6851.3	6647.2	6330.5	6070.1	5788.6	5788.6	7843.6	10042.9	11795.3	12921.3	13209.9
32.5°	6545.1	6351.6	6094.7	5932.8	5753.4	5711.1	7716.9	10317.4	12361.8	13695.5	13991.1
35°	6260.1	6066.6	5869.5	5802.6	5735.8	5651.3	7403.7	10532.0	12914.3	14599.8	14853.2
37.5°	5992.7	5806.2	5658.4	5640.8	5647.8	5489.5	6911.1	10711.5	13604.0	15525.3	15659.0
40°	5760.4	5552.8	5436.7	5433.2	5468.3	5229.1	6288.2	10968.4	14392.2	16310.0	16253.7
42.5°	5552.8	5334.6	5193.9	5225.5	5204.4	4968.7	5679.5	11204.1	15078.4	17045.5	16932.9
45°	5348.7	5137.6	4940.5	4986.3	4961.6	4806.8	5162.2	11376.5	15838.5	17928.7	17942.8
47.5°	5151.6	4944.0	4747.0	4690.7	4687.1	4757.5	4764.6	11432.8	17077.1	19350.3	19030.1
50°	4968.7	4761.0	4557.0	4366.9	4440.8	4659.0	4469.0	11390.6	18931.6	20919.7	20026.0
52.5°	4778.6	4581.6	4356.4	4015.0	4208.6	4423.2	4205.1	11239.3	20064.7	22306.2	21771.3
55°	4560.5	4374.0	4067.8	3652.6	3888.4	3934.1	3934.1	9775.5	20546.7	23678.5	24009.3
57.5°	4268.4	4022.1	3536.5	3202.2	3413.3	3237.4	3645.6	6840.7	19751.5	23245.7	24530.1
60°	3937.6	3673.7	3160.0	2920.7	2984.0	2674.3	3107.2	4289.5	16369.8	19779.6	22003.6
62.5°	3501.3	3258.5	2832.7	2646.2	2516.0	2181.7	2501.9	2713.1	11221.7	14687.8	16204.4
65°	3209.2	2941.8	2561.7	2315.4	2048.0	1755.9	1660.9	1780.6	6034.9	8220.1	9244.1
67.5°	2864.4	2600.5	2241.5	1931.9	1717.2	1506.1	1340.7	1298.5	2069.1	2737.7	2962.9
70°	2537.1	2283.8	1984.6	1696.1	1481.4	1273.8	1112.0	995.8	957.1	950.1	936.0
72.5°	2202.8	1967.1	1717.2	1449.8	1214.0	1024.0	879.7	746.0	689.7	672.1	654.5
75°	1805.2	1618.7	1368.8	1080.3	890.3	714.3	601.7	513.8	464.5	446.9	425.8
77.5°	1161.2	1076.8	858.6	696.7	538.4	425.8	366.0	309.7	278.0	271.0	253.4
80°	619.3	577.1	475.0	401.2	320.2	260.4	228.7	197.1	179.5	172.4	165.4
82.5°	344.9	313.2	263.9	232.2	186.5	158.3	140.8	126.7	116.1	112.6	109.1
85°	154.8	133.7	105.6	98.5	88.0	80.9	77.4	70.4	66.9	63.3	59.8
87.5°	7.0	14.1	17.6	14.1	14.1	21.1	24.6	24.6	21.1	21.1	17.6
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°	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3	7706.3
2.5°	8223.6	8329.2	8339.7	8374.9	8329.2	8318.6	8244.7	8202.5	8163.8	8153.2
5°	8864.1	9075.2	9159.6	9219.5	9163.2	9135.0	8973.1	8804.2	8709.2	8663.5
7.5°	9522.1	9838.8	10004.2	10078.1	10085.1	9958.4	9680.4	9363.7	9205.4	9145.6
10°	10109.7	10500.3	10718.5	10859.3	10810.0	10655.2	10275.1	9845.8	9645.3	9592.5
12.5°	10546.1	10919.1	11088.0	11179.5	11176.0	11091.5	10732.6	10268.1	10039.4	9986.6
15°	10827.6	11049.3	11059.8	11081.0	11140.8	11253.4	11066.9	10637.6	10384.2	10310.3
17.5°	11049.3	10961.3	10795.9	10739.6	10873.3	11186.5	11299.1	10950.8	10676.3	10612.9
20°	11190.0	10746.7	10454.6	10345.5	10500.3	11010.6	11439.9	11232.3	10947.2	10866.3
22.5°	11299.1	10546.1	10074.6	10000.7	10162.5	10820.6	11584.2	11566.6	11253.4	11140.8
25°	11471.6	10412.4	9807.1	9754.3	9905.6	10729.1	11777.7	12020.5	11742.5	11580.6
27.5°	11742.5	10398.3	9669.9	9652.3	9859.9	10810.0	12055.7	12685.6	12337.2	12217.6
30°	12119.0	10532.0	9701.6	9736.7	9990.1	11102.1	12488.5	13445.6	13097.3	12910.8
32.5°	12660.9	10890.9	10183.6	10335.0	10521.5	11570.1	13121.9	14269.1	14005.1	13730.7
35°	13375.3	11876.2	11608.8	12252.7	12076.8	12594.1	13885.5	15268.4	14948.2	14708.9
37.5°	14328.9	13896.1	14142.4	15029.1	14603.4	14529.5	14818.0	16176.3	16000.4	15761.1
40°	15666.1	15754.0	16208.0	17372.7	16756.9	16281.9	15961.6	16859.0	16918.8	16623.2
42.5°	16552.8	16957.5	18051.9	19375.0	18526.9	17390.3	16918.8	17731.6	17735.2	17467.7
45°	16883.6	17942.8	20230.0	21753.7	20335.6	18023.7	17446.6	18917.5	18882.3	18576.2
47.5°	16763.9	18773.2	22492.7	24822.2	22658.1	18474.1	17372.7	20606.6	20891.6	20427.1
50°	16514.1	19607.2	25135.4	28580.4	25508.4	18952.7	17260.1	22478.6	22950.1	22591.2
52.5°	16767.5	20536.2	28260.1	32465.2	29083.6	19716.3	18020.2	24882.0	24797.6	24364.7
55°	17569.8	21634.1	32057.0	37345.9	33010.6	21007.7	19973.2	27172.8	26314.2	25796.9
57.5°	17531.1	22418.8	35385.9	41206.1	36427.5	22066.9	20652.3	27415.6	25680.8	25026.3
60°	15912.4	22059.9	36652.7	43648.2	37458.5	21482.8	18417.8	24487.9	21669.3	20983.1
62.5°	11876.2	19575.5	34196.5	40590.3	34541.3	18555.1	13850.3	17576.8	15571.0	14413.3
65°	7597.3	15314.2	28749.3	32883.9	28471.3	14191.6	8248.3	9423.6	7382.6	7051.8
67.5°	3233.9	10810.0	22348.4	21978.9	21299.8	9194.8	3184.6	2653.2	1977.6	1942.4
70°	1069.7	7354.5	13776.4	14659.7	12720.8	6334.0	1052.1	890.3	886.8	855.1
72.5°	700.3	3948.2	7755.6	8635.3	8184.9	3645.6	636.9	594.7	608.8	594.7
75°	418.7	858.6	1305.5	1696.1	1305.5	612.3	383.6	376.5	383.6	366.0
77.5°	246.3	239.3	232.2	232.2	228.7	211.1	193.5	186.5	190.0	193.5
80°	158.3	151.3	144.3	140.8	123.2	116.1	109.1	102.0	102.0	105.6
82.5°	102.0	95.0	88.0	77.4	63.3	52.8	49.3	42.2	42.2	45.7
85°	52.8	42.2	31.7	24.6	14.1	7.0	0.0	0.0	0.0	0.0
87.5°	10.6	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)