

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: P640516

Luminaire Tested: GWS-SA5E-722-U-SLL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-40)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-722-U-SLL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16742.6 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

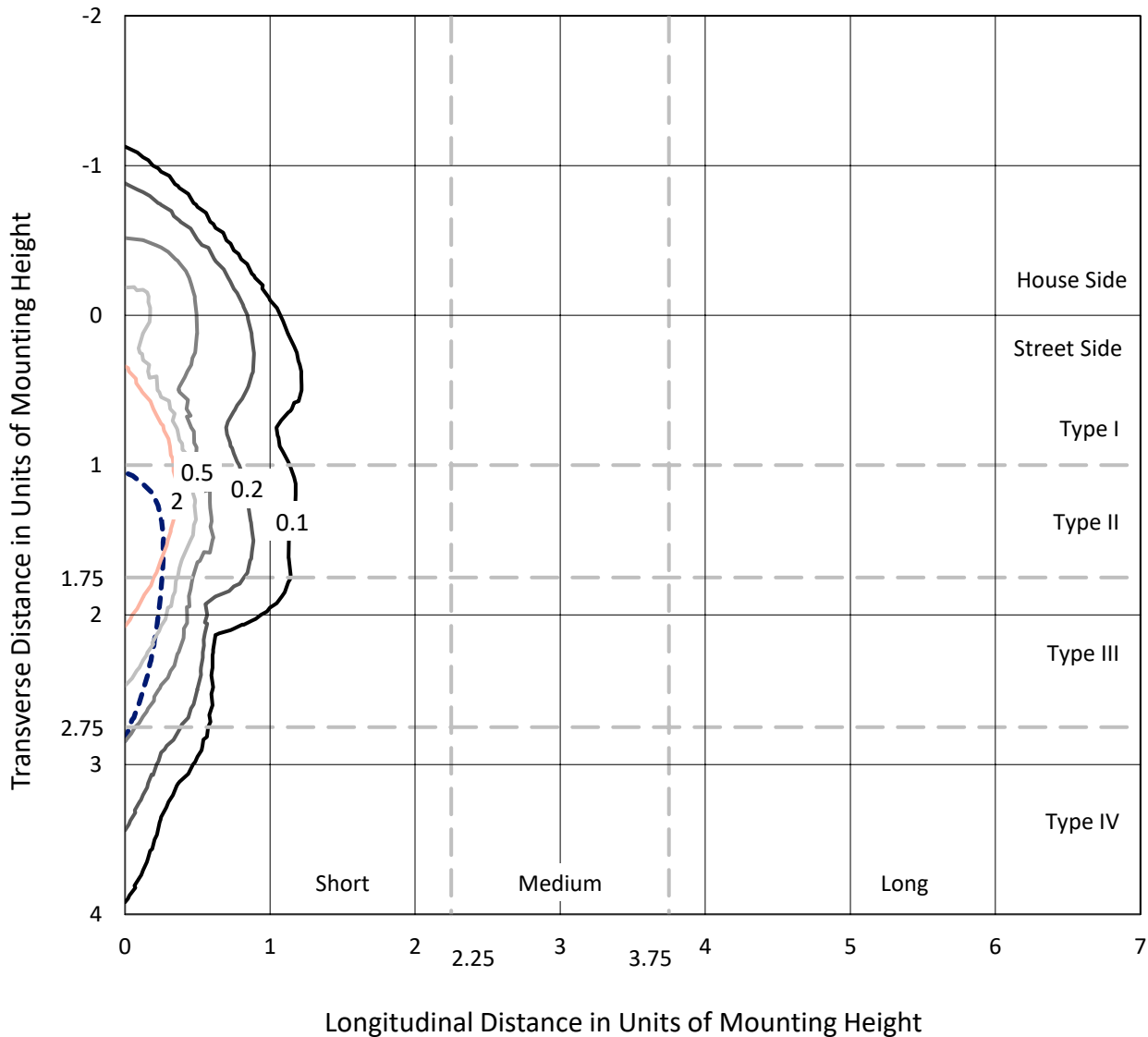
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

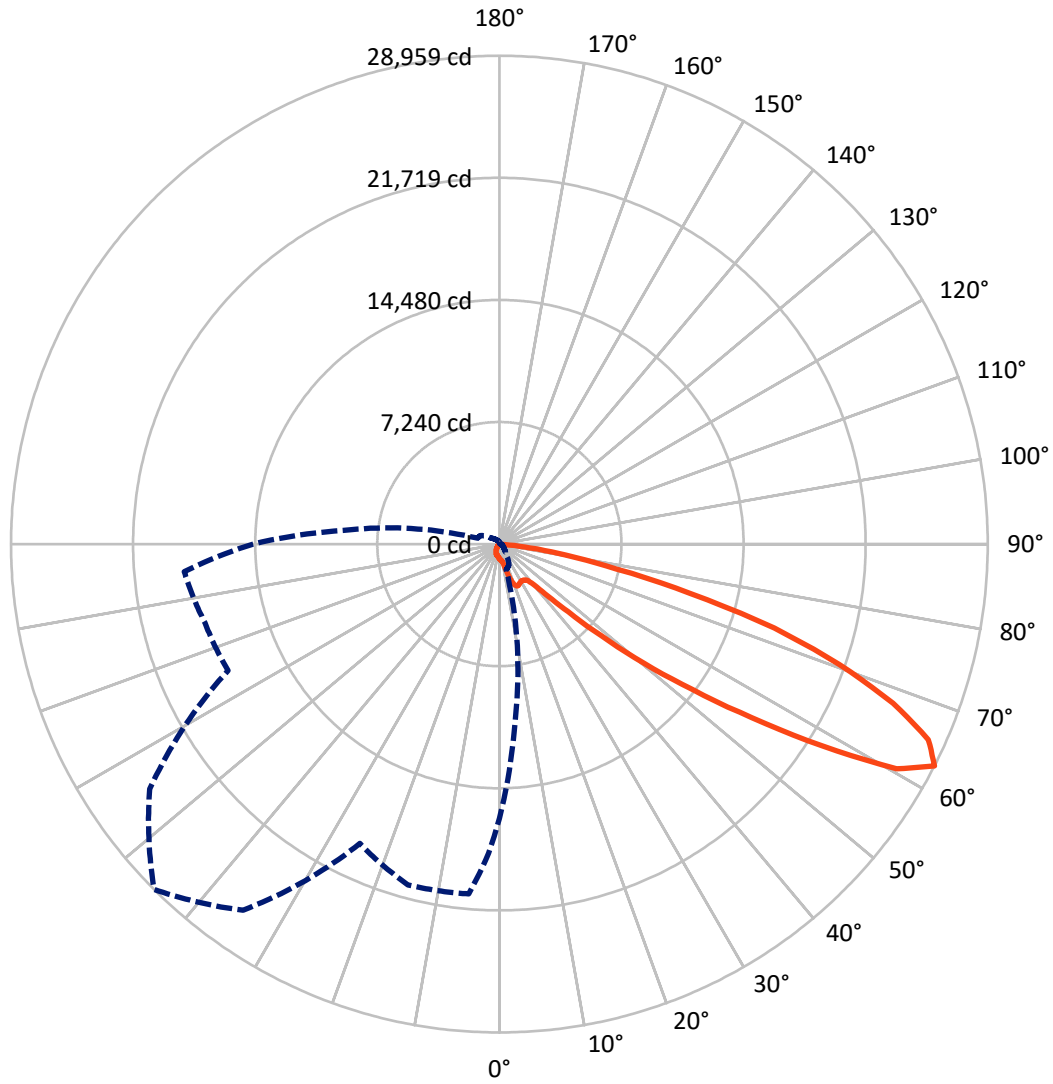
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1945.3	0.0	1945.3
	% Fixture	11.6	0.0	11.6
Street Side	Lumens	14797.3	0.0	14797.3
	% Fixture	88.4	0.0	88.4
Total	Lumens	16742.6	0.0	16742.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	0.4
10°-20°	257.0	1.5
20°-30°	580.6	3.5
30°-40°	1000.2	6.0
40°-50°	1886.7	11.3
50°-60°	4212.6	25.2
60°-70°	5634.3	33.7
70°-80°	2825.4	16.9
80°-90°	270.8	1.6
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°	16742.6	100.0
0°-180°	16742.6	100.0

Coefficient of Utilization



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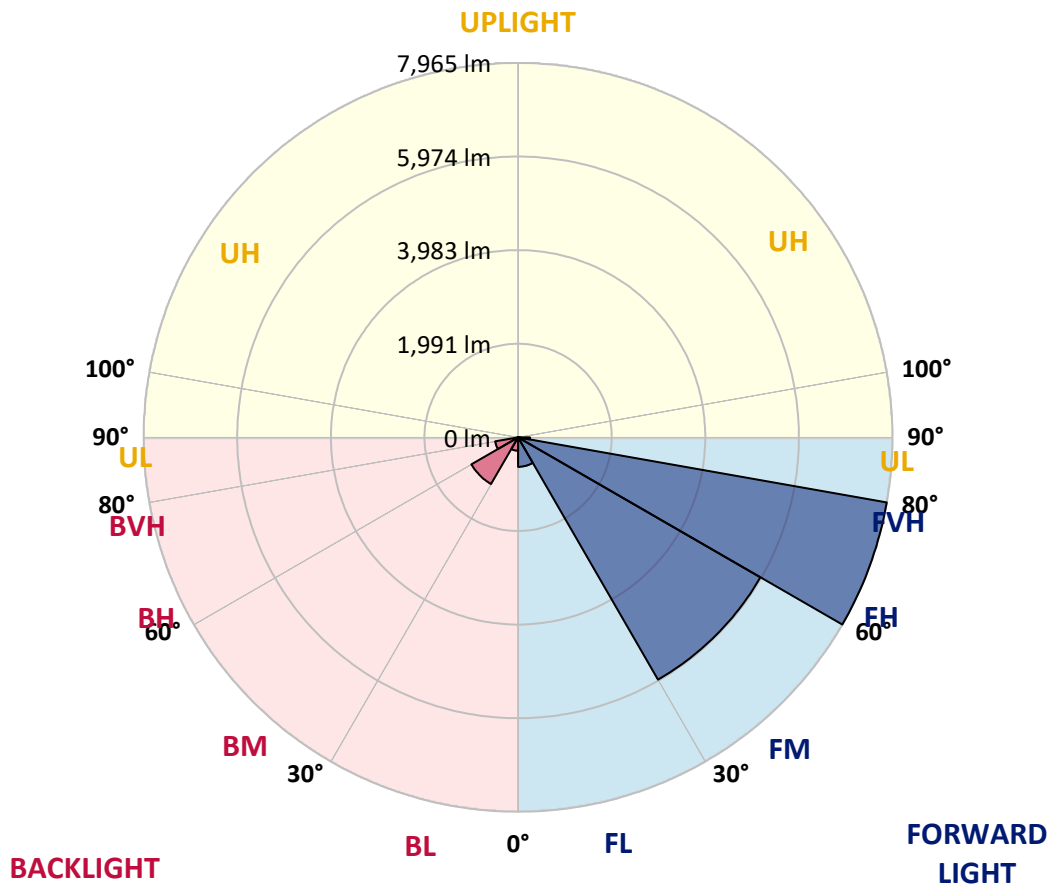
CATALOG NUMBER: GWS-SA5E-722-U-SLL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.0	3.7			
FM (30°-60°)	5952.5	35.6			
FH (60°-80°)	7965.0	47.6			G4/12000
FVH (80°-90°)	252.8	1.5			G3/500
BL (0°-30°)	285.5	1.7	B1/500		
BM (30°-60°)	1147.0	6.9	B2/2500		
BH (60°-80°)	494.7	3.0	B1/500		G1/500
BVH (80°-90°)	18.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3
2.5°	858.4	856.4	852.4	840.5	830.6	824.7	812.8	812.8	810.8	806.8	798.9
5°	830.6	822.7	814.8	793.0	769.2	755.3	739.4	737.5	737.5	733.5	731.5
7.5°	787.0	779.1	769.2	733.5	711.7	697.8	683.9	681.9	676.0	676.0	676.0
10°	763.2	751.3	735.5	695.8	674.0	662.1	652.2	646.3	642.3	636.4	634.4
12.5°	814.8	793.0	759.3	687.9	658.2	642.3	630.4	626.4	614.5	606.6	600.7
15°	975.3	921.8	854.4	705.7	652.2	628.4	612.6	604.6	594.7	580.8	570.9
17.5°	1239.0	1161.7	1048.7	763.2	646.3	616.5	596.7	582.8	569.0	553.1	541.2
20°	1603.8	1488.8	1354.0	868.3	646.3	602.7	578.9	561.0	541.2	523.4	509.5
22.5°	2067.7	1952.7	1722.7	1046.7	654.2	584.8	557.1	533.3	509.5	493.6	477.8
25°	2587.0	2424.5	2210.4	1262.8	676.0	561.0	531.3	507.5	485.7	465.9	448.0
27.5°	3165.9	2989.5	2704.0	1570.1	723.6	537.2	503.5	481.7	461.9	442.1	418.3
30°	3699.2	3594.1	3302.7	1938.8	800.9	521.4	481.7	461.9	442.1	416.3	394.5
32.5°	4339.5	4153.1	3913.3	2359.1	904.0	505.5	463.9	436.1	420.3	396.5	372.7
35°	4983.8	4825.2	4510.0	2876.5	1019.0	489.7	442.1	416.3	402.4	374.7	348.9
37.5°	5647.9	5612.2	5301.0	3449.4	1132.0	471.8	416.3	400.4	386.6	354.9	325.1
40°	6302.1	6236.7	5949.2	4103.6	1201.3	452.0	394.5	384.6	368.7	333.0	299.3
42.5°	6928.5	6879.0	6599.4	4730.0	1191.4	434.1	372.7	360.8	348.9	313.2	271.6
45°	7697.7	7616.4	7263.5	5193.9	1090.3	454.0	350.9	331.1	329.1	295.4	243.8
47.5°	9136.9	8869.3	8270.6	5550.7	989.2	505.5	327.1	303.3	317.2	277.5	216.1
50°	11153.0	10837.8	9971.5	5828.3	987.2	572.9	323.1	277.5	307.3	263.7	192.3
52.5°	13179.1	12624.0	11571.3	5977.0	1060.6	622.5	358.8	251.8	295.4	249.8	174.5
55°	15119.8	13968.1	12241.4	5485.3	1118.1	676.0	424.2	237.9	273.6	233.9	164.5
57.5°	16969.4	15048.5	12532.8	4339.5	1310.4	697.8	463.9	243.8	241.9	214.1	156.6
60°	17223.2	14996.9	11944.0	2523.6	1445.2	660.1	448.0	271.6	212.1	190.3	142.7
62.5°	16263.7	13999.8	10601.9	1574.0	1342.1	646.3	398.5	309.3	192.3	168.5	124.9
65°	14806.6	12435.7	8839.6	1015.0	1017.0	717.6	348.9	303.3	180.4	148.7	107.1
67.5°	12528.8	10407.6	6964.2	680.0	574.9	612.6	305.3	208.2	176.4	126.9	83.3
70°	9144.9	7408.3	4533.8	454.0	343.0	489.7	255.7	148.7	166.5	105.1	59.5
72.5°	6684.7	4977.8	2531.5	297.4	194.3	285.5	188.3	107.1	128.9	77.3	41.6
75°	4811.3	3425.6	1445.2	190.3	128.9	156.6	122.9	73.3	83.3	61.5	37.7
77.5°	2315.5	1669.2	656.2	105.1	87.2	79.3	65.4	45.6	51.5	55.5	33.7
80°	87.2	65.4	49.6	51.5	55.5	35.7	29.7	23.8	29.7	37.7	17.8
82.5°	0.0	0.0	0.0	5.9	7.9	9.9	11.9	9.9	11.9	13.9	2.0
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°	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3
2.5°	804.9	800.9	804.9	808.8	812.8	816.8	810.8	814.8	818.7	808.8	812.8
5°	741.4	739.4	751.3	757.3	765.2	769.2	765.2	765.2	763.2	751.3	751.3
7.5°	685.9	687.9	697.8	711.7	721.6	727.5	723.6	721.6	715.6	697.8	697.8
10°	644.3	644.3	660.1	672.0	685.9	691.9	687.9	681.9	676.0	658.2	656.2
12.5°	610.6	610.6	622.5	642.3	658.2	666.1	664.1	656.2	646.3	628.4	626.4
15°	578.9	576.9	594.7	612.6	634.4	644.3	640.3	634.4	616.5	600.7	596.7
17.5°	547.1	545.2	561.0	584.8	608.6	622.5	620.5	606.6	590.8	570.9	567.0
20°	515.4	511.5	531.3	555.1	578.9	592.7	588.8	576.9	557.1	537.2	533.3
22.5°	483.7	481.7	495.6	515.4	537.2	549.1	547.1	537.2	517.4	499.6	499.6
25°	448.0	448.0	457.9	471.8	487.7	493.6	495.6	491.6	479.7	469.8	469.8
27.5°	418.3	412.3	416.3	420.3	428.2	438.1	438.1	442.1	444.1	440.1	442.1
30°	394.5	384.6	378.6	370.7	366.7	370.7	374.7	388.6	402.4	410.4	414.3
32.5°	366.7	354.9	339.0	317.2	303.3	299.3	311.2	337.0	362.8	380.6	390.5
35°	339.0	323.1	293.4	261.7	243.8	237.9	251.8	281.5	319.2	350.9	364.8
37.5°	311.2	289.4	247.8	210.1	190.3	186.3	200.2	231.9	275.6	319.2	337.0
40°	279.5	253.7	204.2	164.5	148.7	144.7	156.6	188.3	233.9	283.5	311.2
42.5°	247.8	216.1	164.5	130.8	115.0	115.0	130.8	154.6	196.3	249.8	283.5
45°	216.1	182.4	134.8	105.1	95.2	97.1	107.1	130.8	164.5	220.0	251.8
47.5°	186.3	156.6	111.0	87.2	79.3	81.3	93.2	113.0	140.8	190.3	224.0
50°	160.6	132.8	97.1	73.3	67.4	71.4	83.3	101.1	124.9	168.5	196.3
52.5°	144.7	118.9	89.2	63.4	59.5	63.4	75.3	91.2	113.0	148.7	176.4
55°	136.8	117.0	89.2	57.5	51.5	55.5	67.4	83.3	101.1	134.8	158.6
57.5°	134.8	120.9	95.2	51.5	43.6	47.6	59.5	75.3	93.2	122.9	142.7
60°	126.9	115.0	93.2	41.6	33.7	39.6	49.6	65.4	85.2	115.0	132.8
62.5°	111.0	101.1	81.3	33.7	25.8	29.7	41.6	57.5	77.3	105.1	124.9
65°	91.2	81.3	63.4	21.8	15.9	19.8	31.7	49.6	67.4	95.2	113.0
67.5°	67.4	57.5	43.6	13.9	7.9	13.9	25.8	41.6	61.5	85.2	103.1
70°	41.6	33.7	23.8	7.9	5.9	11.9	23.8	39.6	55.5	79.3	97.1
72.5°	23.8	15.9	9.9	4.0	5.9	11.9	23.8	39.6	53.5	75.3	91.2
75°	17.8	9.9	4.0	2.0	4.0	9.9	21.8	35.7	51.5	71.4	87.2
77.5°	11.9	5.9	2.0	0.0	2.0	7.9	19.8	33.7	47.6	67.4	83.3
80°	2.0	0.0	0.0	0.0	0.0	5.9	17.8	29.7	43.6	59.5	73.3
82.5°	0.0	0.0	0.0	0.0	0.0	2.0	13.9	25.8	37.7	49.6	59.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	7.9	19.8	29.7	37.7	41.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	19.8	23.8	27.8
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°	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3
2.5°	810.8	822.7	822.7	830.6	840.5	858.4	868.3	882.2	892.1	902.0	906.0
5°	749.4	751.3	753.3	757.3	769.2	789.0	806.8	828.6	854.4	874.2	886.1
7.5°	697.8	697.8	697.8	703.8	715.6	729.5	747.4	777.1	806.8	830.6	850.5
10°	654.2	660.1	662.1	672.0	685.9	703.8	723.6	749.4	783.1	814.8	850.5
12.5°	626.4	632.4	642.3	652.2	666.1	685.9	707.7	741.4	810.8	876.2	951.6
15°	600.7	608.6	620.5	634.4	650.2	672.0	695.8	765.2	927.8	1050.7	1169.6
17.5°	572.9	584.8	600.7	614.5	634.4	658.2	687.9	822.7	1141.9	1346.1	1548.3
20°	537.2	553.1	570.9	592.7	616.5	644.3	687.9	941.6	1451.1	1744.5	2012.1
22.5°	503.5	519.4	541.2	569.0	596.7	624.5	697.8	1122.0	1849.6	2220.3	2559.3
25°	475.8	495.6	517.4	541.2	572.9	604.6	721.6	1375.8	2329.3	2807.1	3047.0
27.5°	450.0	473.8	495.6	515.4	543.2	578.9	775.1	1714.8	2896.3	3382.0	3570.3
30°	424.2	452.0	473.8	493.6	521.4	559.0	856.4	2146.9	3526.7	3998.5	4018.3
32.5°	402.4	428.2	454.0	473.8	499.6	543.2	969.4	2652.5	4173.0	4628.9	4442.6
35°	378.6	408.4	432.2	454.0	481.7	529.3	1100.2	3197.6	4825.2	5207.8	4864.8
37.5°	354.9	388.6	418.3	434.1	461.9	515.4	1195.4	3766.6	5491.3	5772.8	5235.5
40°	333.0	370.7	404.4	420.3	434.1	497.6	1209.3	4349.4	6167.3	6329.8	5584.4
42.5°	309.3	350.9	380.6	402.4	414.3	485.7	1126.0	4841.0	6734.2	6884.9	6040.4
45°	283.5	333.0	356.8	372.7	396.5	493.6	1019.0	5221.7	7382.5	7642.2	6791.7
47.5°	257.7	313.2	333.0	344.9	376.7	541.2	979.3	5475.4	8451.0	8990.2	8058.5
50°	233.9	295.4	317.2	315.2	372.7	602.7	1022.9	5667.7	10056.8	10691.1	9795.1
52.5°	208.2	275.6	301.3	293.4	402.4	650.2	1110.1	5820.4	11291.8	12685.4	12128.4
55°	186.3	253.7	277.5	275.6	457.9	685.9	1177.6	5015.5	11803.3	14539.0	14757.1
57.5°	170.5	230.0	249.8	283.5	493.6	685.9	1361.9	3560.4	11813.2	15902.9	18246.1
60°	156.6	208.2	222.0	311.2	479.7	650.2	1348.0	2180.7	10887.4	15809.7	20101.6
62.5°	144.7	188.3	206.2	319.2	424.2	644.3	1217.2	1352.0	9285.6	14606.4	18755.6
65°	134.8	172.5	198.2	293.4	384.6	689.9	820.7	971.4	7531.2	13234.6	17211.3
67.5°	124.9	158.6	210.1	239.9	348.9	616.5	592.7	689.9	5911.5	11729.9	15793.9
70°	117.0	150.7	222.0	196.3	305.3	481.7	420.3	523.4	4525.8	9787.2	13797.6
72.5°	111.0	140.8	186.3	154.6	247.8	372.7	293.4	380.6	2957.8	7640.2	11248.2
75°	105.1	128.9	136.8	124.9	184.4	243.8	222.0	255.7	1762.4	5584.4	8534.3
77.5°	103.1	120.9	111.0	101.1	124.9	144.7	168.5	172.5	860.4	2793.2	4472.3
80°	91.2	109.0	95.2	83.3	85.2	95.2	124.9	115.0	196.3	709.7	1193.4
82.5°	71.4	85.2	79.3	69.4	69.4	69.4	83.3	77.3	63.4	319.2	539.2
85°	49.6	59.5	59.5	55.5	53.5	53.5	51.5	49.6	17.8	19.8	29.7
87.5°	33.7	41.6	43.6	41.6	35.7	31.7	27.8	23.8	7.9	0.0	4.0
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°	358°	360°
0°	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3	868.3
2.5°	919.8	925.8	925.8	917.9	911.9	896.0	880.2	864.3	860.4	858.4
5°	919.8	943.6	955.5	953.5	939.7	913.9	880.2	844.5	834.6	830.6
7.5°	906.0	951.6	987.2	993.2	967.4	921.8	860.4	806.8	793.0	787.0
10°	937.7	1026.9	1098.3	1108.2	1078.4	989.2	890.1	798.9	777.1	763.2
12.5°	1108.2	1254.9	1342.1	1383.7	1326.2	1213.2	1048.7	886.1	836.6	814.8
15°	1453.1	1661.3	1827.8	1827.8	1774.3	1574.0	1365.9	1102.2	1034.8	975.3
17.5°	1895.2	2156.9	2303.6	2287.7	2206.4	2065.7	1815.9	1437.2	1300.5	1239.0
20°	2398.7	2555.3	2589.0	2579.1	2543.4	2462.2	2289.7	1883.3	1698.9	1603.8
22.5°	2834.8	2793.2	2743.7	2704.0	2694.1	2717.9	2694.1	2380.9	2236.2	2067.7
25°	3130.2	2894.3	2745.6	2674.3	2708.0	2844.8	2993.4	2876.5	2761.5	2587.0
27.5°	3290.8	2882.4	2668.3	2595.0	2652.5	2846.7	3169.9	3368.1	3249.2	3165.9
30°	3378.0	2872.5	2618.8	2547.4	2634.6	2878.5	3292.8	3828.0	3832.0	3699.2
32.5°	3502.9	2935.9	2628.7	2563.3	2680.2	2973.6	3447.4	4295.9	4410.9	4339.5
35°	3643.7	3033.1	2674.3	2614.8	2759.5	3100.5	3619.9	4767.7	5007.6	4983.8
37.5°	3776.5	3142.1	2781.3	2723.8	2880.4	3209.5	3786.4	5231.6	5564.6	5647.9
40°	3915.3	3294.8	3110.4	3165.9	3253.1	3382.0	3935.1	5634.0	6177.2	6302.1
42.5°	4242.4	3824.1	4105.6	4210.6	4222.5	3956.9	4260.2	6149.4	6779.8	6928.5
45°	4971.9	4765.7	5572.6	5721.2	5643.9	4839.1	5043.2	6892.8	7622.4	7697.7
47.5°	5893.7	5988.9	7580.7	8094.2	7630.3	5879.8	5992.8	8457.0	9164.7	9136.9
50°	6968.2	7418.2	9860.5	11071.8	9961.6	7231.8	7087.1	10379.9	11238.3	11153.0
52.5°	8238.9	9079.4	12600.2	14320.9	13270.2	8752.3	8692.9	12927.3	13450.6	13179.1
55°	9838.7	10683.2	15752.2	18156.9	16662.2	10607.9	10812.1	15881.1	15982.2	15119.8
57.5°	12225.5	12774.6	19467.3	22555.9	20202.7	13129.5	14610.4	19812.2	18602.9	16969.4
60°	16559.1	15464.8	23057.4	27055.9	23969.3	16676.0	19619.9	22141.5	19475.2	17223.2
62.5°	18067.7	17748.5	25305.5	28959.0	26502.8	19588.2	20922.3	20821.2	18345.2	16263.7
65°	15782.0	17179.6	24903.0	27954.0	26177.7	19108.4	18775.4	19364.2	17072.5	14806.6
67.5°	14578.6	15843.4	23378.6	25180.6	24375.7	17480.9	16735.5	16574.9	14332.8	12528.8
70°	13365.4	14618.3	21168.2	21392.2	21017.5	14828.4	13849.1	12772.7	10712.9	9144.9
72.5°	11906.4	12596.2	18101.4	17038.8	16614.6	11646.7	11440.5	9618.7	8030.7	6684.7
75°	10383.9	10183.6	14112.8	11694.2	12011.4	9061.6	9662.3	7063.3	5883.8	4811.3
77.5°	7553.0	7404.3	9452.1	7103.0	7866.2	5935.3	5332.7	2819.0	2684.2	2315.5
80°	4214.6	5080.9	5104.7	3980.7	4965.9	3869.7	1334.2	93.2	59.5	87.2
82.5°	1958.6	2184.6	2767.4	1845.6	2832.9	1917.0	275.6	0.0	0.0	0.0
85°	634.4	927.8	777.1	271.6	685.9	648.2	45.6	0.0	0.0	0.0
87.5°	37.7	77.3	19.8	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

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