

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: P640740

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640740
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-44)
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-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23297.5 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

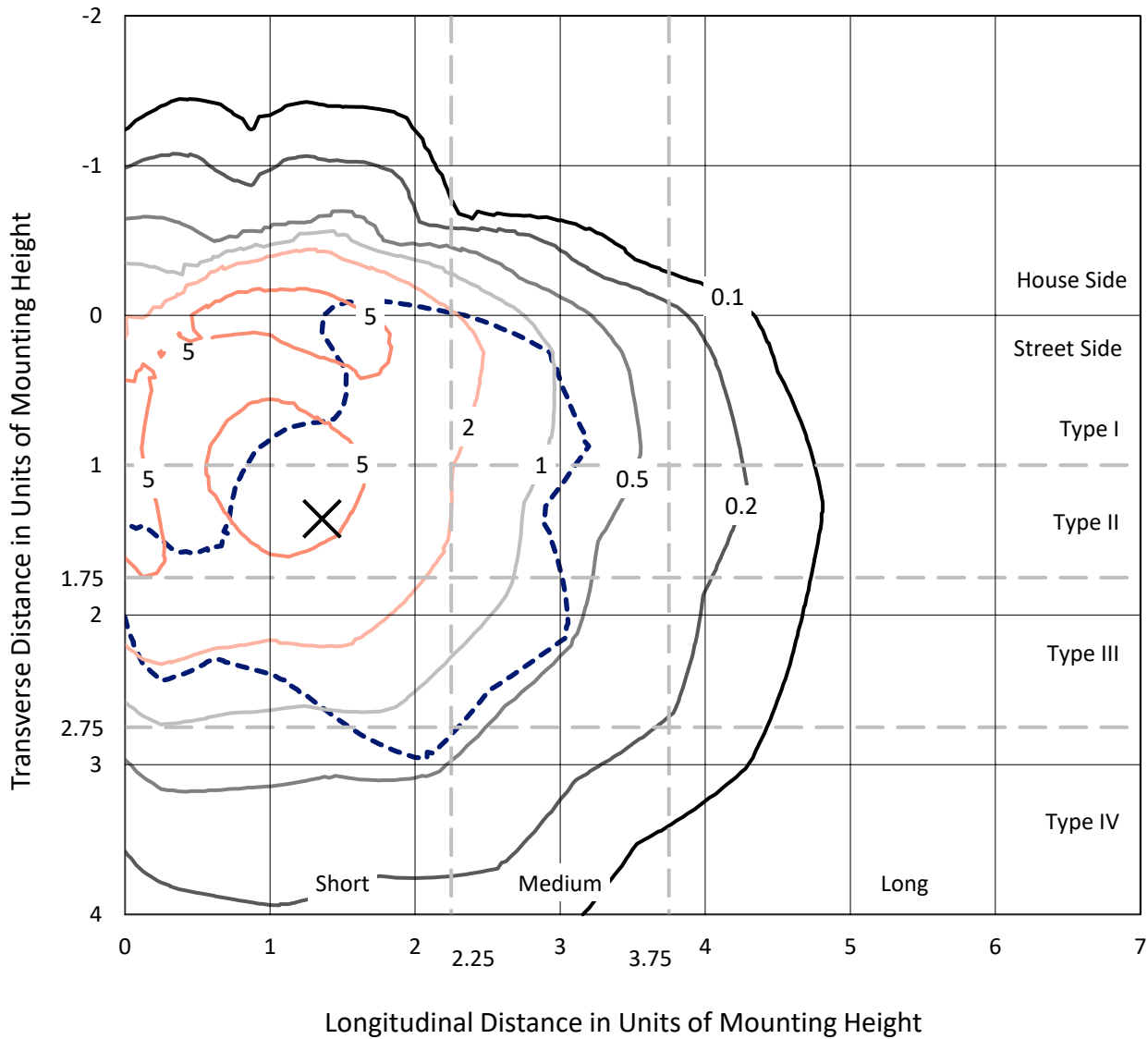
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

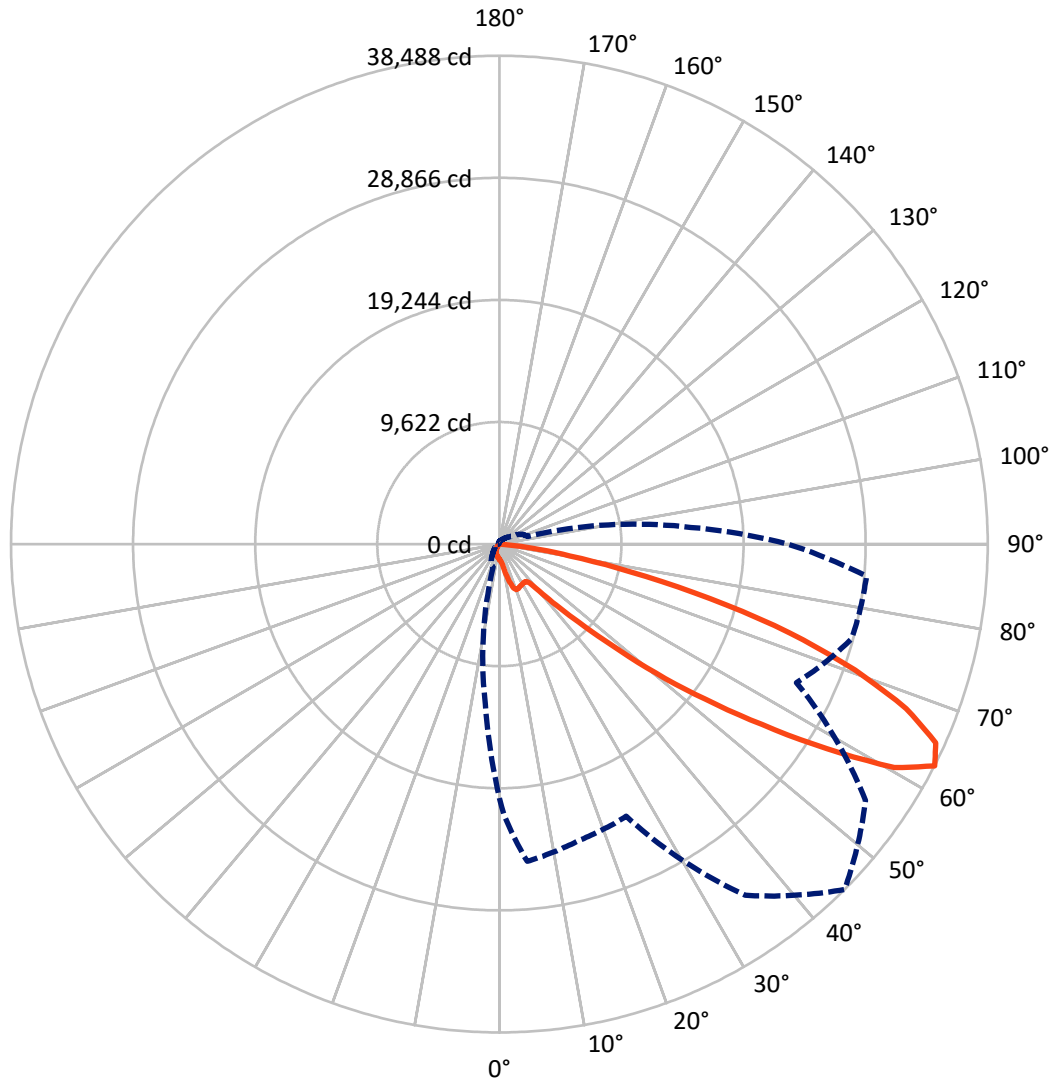
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - 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	2874.9	0.0	2874.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	20422.6	0.0	20422.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	23297.5	0.0	23297.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	0.5
10°-20°	406.2	1.7
20°-30°	883.0	3.8
30°-40°	1449.2	6.2
40°-50°	2664.2	11.4
50°-60°	5721.5	24.6
60°-70°	7684.9	33.0
70°-80°	4001.6	17.2
80°-90°	379.4	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°	23297.5	100.0
0°-180°	23297.5	100.0

Coefficient of Utilization



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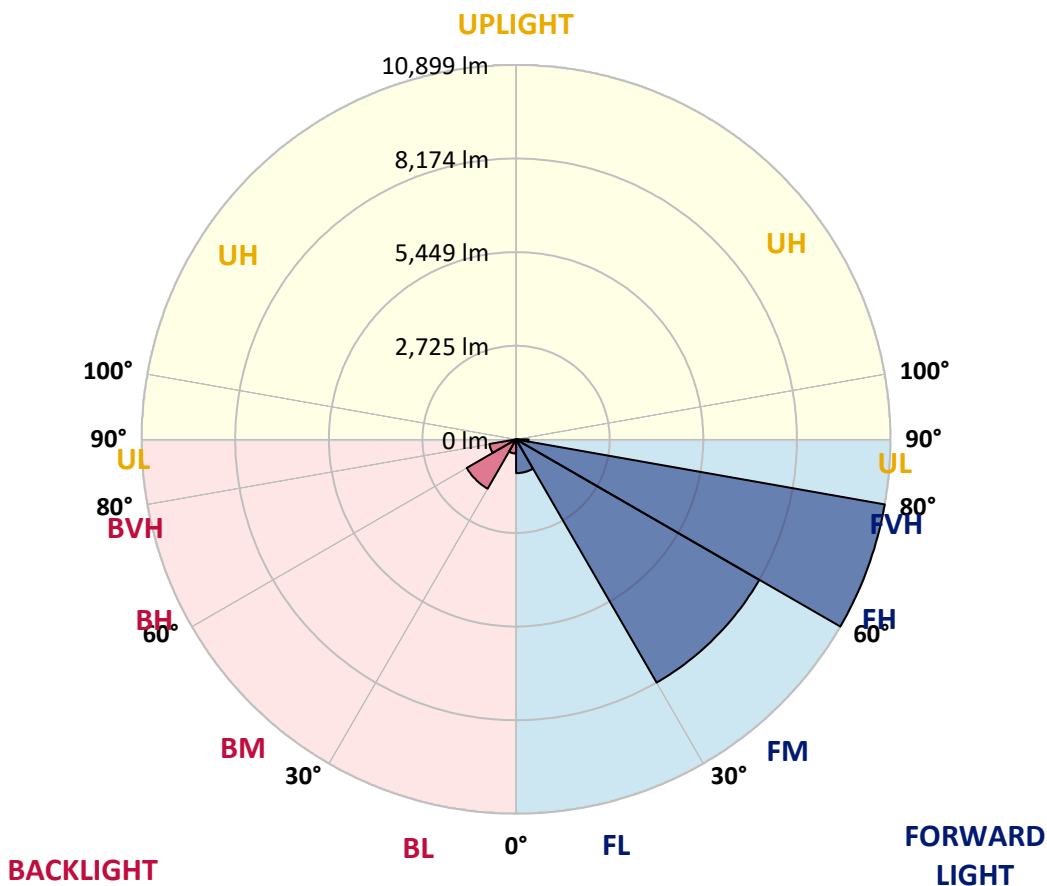
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.2	4.2			
FM (30°-60°)	8177.2	35.1			
FH (60°-80°)	10898.8	46.8			G4/12000
FVH (80°-90°)	362.5	1.6			G3/500
BL (0°-30°)	412.4	1.8	B1/500		
BM (30°-60°)	1657.8	7.1	B2/2500		
BH (60°-80°)	787.7	3.4	B2/1000		G2/1000
BVH (80°-90°)	16.9	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1235.2	1240.6	1246.0	1264.8	1278.3	1289.0	1291.7	1283.6	1264.8	1246.0	1219.1
5°	1197.5	1202.9	1221.7	1272.9	1324.0	1364.4	1377.8	1369.8	1324.0	1264.8	1202.9
7.5°	1194.8	1205.6	1251.3	1359.0	1469.3	1552.7	1574.3	1555.4	1469.3	1350.9	1224.4
10°	1291.7	1310.6	1377.8	1571.6	1773.4	1921.4	1980.6	1899.9	1762.7	1547.4	1340.2
12.5°	1544.7	1577.0	1706.1	1988.7	2300.9	2497.3	2578.0	2478.5	2263.2	1951.0	1622.7
15°	1943.0	1991.4	2185.2	2607.6	2976.3	3151.2	3178.2	3121.6	2871.4	2526.9	2085.6
17.5°	2505.4	2575.4	2876.8	3307.3	3573.7	3635.6	3627.6	3568.4	3385.4	3148.6	2731.4
20°	3178.2	3261.6	3557.6	3912.8	3939.7	3867.1	3826.7	3791.7	3729.8	3689.5	3363.8
22.5°	3856.3	3958.6	4268.0	4356.8	4114.6	3904.7	3805.2	3832.1	3923.6	4122.7	3990.9
25°	4531.8	4628.6	4919.3	4679.8	4195.4	3845.5	3719.1	3783.6	4001.6	4432.2	4601.7
27.5°	5320.2	5392.9	5565.1	4900.4	4208.8	3797.1	3673.3	3772.9	4039.3	4626.0	5271.8
30°	6141.0	6184.1	6100.7	4959.6	4163.1	3724.4	3627.6	3772.9	4103.9	4755.1	5775.0
32.5°	6743.8	6751.9	6480.1	4965.0	4138.9	3665.2	3584.5	3756.7	4165.8	4862.8	6262.1
35°	7365.5	7325.1	6843.4	5045.8	4203.5	3686.8	3616.8	3802.5	4262.7	4989.2	6690.0
37.5°	7995.2	7922.5	7249.7	5177.6	4370.3	3920.9	3877.8	4036.6	4418.7	5164.2	7160.9
40°	8641.0	8541.5	7672.2	5376.8	4741.7	4717.4	4865.5	4846.6	4846.6	5387.5	7645.3
42.5°	9429.5	9313.8	8296.6	5939.2	5608.2	6149.1	6552.8	6302.5	5839.6	5901.5	8275.0
45°	10471.0	10371.4	9378.4	7015.6	6967.2	8210.5	8754.1	8258.9	7107.1	7088.3	9327.3
47.5°	12136.7	12117.9	11103.4	8264.3	8630.3	10834.3	11883.8	10931.1	8552.2	8345.0	11318.6
50°	14478.0	14421.5	13253.5	9728.2	10608.2	14085.1	15958.1	14370.3	10298.7	9811.6	13985.5
52.5°	17115.2	17174.4	16264.8	11326.7	12709.9	17701.9	20309.5	18310.1	12195.9	11676.6	17341.3
55°	19599.1	19938.2	19698.6	13197.0	14763.2	21695.4	25088.9	22631.9	14545.2	14117.4	21103.4
57.5°	21542.0	22497.4	24176.6	15915.0	17177.1	26367.1	30425.3	27317.1	17287.4	18081.3	26224.5
60°	21649.7	22914.5	26813.8	21601.2	20282.6	30374.1	35753.6	31894.6	21598.5	24811.7	30236.9
62.5°	20027.0	21383.3	25096.9	24184.7	23665.3	33783.7	38487.7	35231.5	25839.7	28754.1	29047.4
65°	18170.1	19539.9	23180.9	21254.1	23272.4	33638.4	37793.4	35309.6	26224.5	26073.8	26918.8
67.5°	15363.3	16593.1	19889.7	18813.3	21450.5	32015.7	34585.7	33084.0	24160.4	24386.5	24763.2
70°	11213.7	12397.8	15457.5	15511.3	18732.6	29090.5	29717.5	29510.3	22249.8	22489.3	21412.9
72.5°	8100.1	9098.5	11738.5	12720.7	14954.3	24394.6	23961.3	24760.6	19090.5	20029.6	17198.6
75°	5823.5	6571.6	8611.4	11065.7	11854.2	18116.3	17152.9	19176.6	15317.6	17247.1	12930.6
77.5°	2362.8	2626.5	3388.1	7454.3	7790.7	12187.9	10500.6	13929.0	10920.4	11332.1	6267.5
80°	96.9	107.6	139.9	3848.2	5341.8	6856.9	5619.0	7446.2	7212.1	4564.1	1480.1
82.5°	10.8	10.8	24.2	1108.7	2338.5	3783.6	2648.0	4289.6	3651.8	1934.9	672.8
85°	2.7	2.7	5.4	126.5	549.0	605.5	357.9	1315.9	1698.1	791.2	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	24.2	26.9	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°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1219.1	1205.6	1189.5	1173.3	1165.2	1143.7	1135.6	1130.3	1124.9	1127.6	1127.6
5°	1178.7	1149.1	1114.1	1079.1	1060.3	1038.8	1028.0	1022.6	1025.3	1036.1	1036.1
7.5°	1173.3	1116.8	1041.4	995.7	974.2	958.0	947.3	941.9	944.6	958.0	963.4
10°	1262.1	1162.5	1028.0	949.9	925.7	909.6	898.8	890.7	885.4	896.1	898.8
12.5°	1453.2	1315.9	1092.6	944.6	901.5	880.0	871.9	855.8	847.7	853.1	855.8
15°	1848.8	1612.0	1221.7	966.1	880.0	855.8	842.3	828.9	815.4	812.7	815.4
17.5°	2365.5	2026.4	1418.2	1017.2	863.8	834.2	815.4	796.6	777.7	775.0	772.3
20°	3005.9	2535.0	1692.7	1098.0	850.4	815.4	788.5	761.6	737.4	729.3	729.3
22.5°	3589.9	3148.6	2045.2	1197.5	831.5	788.5	756.2	723.9	697.0	683.5	680.8
25°	4303.0	3799.8	2467.7	1313.2	804.6	753.5	718.5	686.2	659.3	643.2	637.8
27.5°	5021.5	4486.0	2946.7	1463.9	772.3	718.5	686.2	656.6	627.0	608.2	602.8
30°	5718.5	5226.1	3484.9	1652.3	748.1	683.5	656.6	627.0	600.1	570.5	562.4
32.5°	6466.6	5982.3	4087.7	1862.2	729.3	659.3	629.7	602.8	567.8	540.9	527.5
35°	7187.9	6762.7	4752.4	2066.7	710.4	637.8	605.5	578.6	540.9	511.3	492.5
37.5°	7914.4	7556.5	5446.7	2190.5	683.5	608.2	578.6	557.1	514.0	479.0	457.5
40°	8684.1	8377.3	6197.5	2139.4	659.3	575.9	559.7	535.5	487.1	446.7	419.8
42.5°	9529.1	9160.4	6961.8	1943.0	637.8	549.0	532.8	508.6	462.9	414.4	379.4
45°	10592.1	10018.9	7588.8	1646.9	648.5	522.1	489.8	484.4	441.3	379.4	336.4
47.5°	12419.3	11337.5	8075.9	1455.9	721.2	492.5	454.8	468.2	422.5	344.5	296.0
50°	15215.3	13522.6	8530.7	1442.4	831.5	479.0	422.5	457.5	403.7	309.5	261.0
52.5°	17879.5	15742.8	8821.3	1560.8	928.4	514.0	390.2	444.0	390.2	285.3	236.8
55°	20427.9	17023.7	8302.0	1646.9	1019.9	618.9	366.0	422.5	374.1	271.8	228.7
57.5°	23175.5	17594.2	6536.6	1821.9	1084.5	707.8	371.4	390.2	352.5	263.7	226.1
60°	23996.3	16864.9	3945.1	2050.6	1049.5	734.7	411.7	347.1	322.9	247.6	218.0
62.5°	22720.7	15134.6	2327.8	1867.6	1019.9	694.3	470.9	320.2	293.3	226.1	201.8
65°	20812.8	12785.3	1517.8	1577.0	1081.8	618.9	500.5	306.8	266.4	204.5	177.6
67.5°	18633.0	10298.7	1063.0	931.1	998.4	557.1	422.5	304.1	239.5	172.2	145.3
70°	15694.3	7712.6	748.1	616.3	831.5	495.2	328.3	296.0	209.9	139.9	113.0
72.5°	12126.0	4827.8	557.1	398.3	592.0	403.7	261.0	250.3	169.5	115.7	86.1
75°	8942.4	2753.0	392.9	287.9	390.2	306.8	193.8	177.6	145.3	110.3	78.0
77.5°	4669.0	1377.8	244.9	220.7	223.4	191.1	139.9	129.2	134.6	110.3	72.7
80°	896.1	274.5	148.0	161.5	121.1	121.1	102.3	107.6	118.4	88.8	61.9
82.5°	374.1	59.2	80.7	91.5	75.4	83.4	83.4	86.1	83.4	64.6	45.7
85°	0.0	0.0	35.0	37.7	51.1	51.1	43.1	43.1	43.1	37.7	26.9
87.5°	0.0	0.0	0.0	0.0	2.7	8.1	16.1	18.8	21.5	16.1	10.8
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°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1124.9	1119.5	1127.6	1132.9	1138.3	1138.3	1132.9	1127.6	1119.5	1127.6	1119.5
5°	1038.8	1046.8	1060.3	1065.7	1071.0	1060.3	1054.9	1038.8	1025.3	1028.0	1022.6
7.5°	971.5	979.6	995.7	1006.5	1006.5	1001.1	984.9	968.8	947.3	947.3	944.6
10°	909.6	920.3	939.2	952.6	958.0	952.6	936.5	915.0	896.1	896.1	888.1
12.5°	858.5	871.9	893.4	912.3	917.7	912.3	896.1	874.6	853.1	853.1	847.7
15°	815.4	831.5	855.8	877.3	885.4	877.3	858.5	831.5	810.0	812.7	804.6
17.5°	775.0	788.5	820.8	845.0	853.1	845.0	820.8	785.8	764.3	769.6	764.3
20°	729.3	745.4	777.7	804.6	812.7	804.6	777.7	740.0	718.5	718.5	721.2
22.5°	680.8	697.0	729.3	748.1	758.9	750.8	723.9	688.9	667.4	667.4	670.1
25°	637.8	645.9	670.1	688.9	691.6	683.5	662.0	635.1	618.9	627.0	629.7
27.5°	597.4	597.4	608.2	618.9	616.3	608.2	600.1	578.6	575.9	584.0	592.0
30°	554.4	540.9	535.5	527.5	524.8	522.1	530.1	530.1	535.5	546.3	554.4
32.5°	516.7	489.8	465.6	441.3	427.9	438.6	460.2	479.0	497.8	514.0	522.1
35°	473.6	430.6	390.2	357.9	336.4	352.5	387.5	422.5	454.8	476.3	489.8
37.5°	430.6	368.7	320.2	279.9	263.7	277.2	314.9	363.3	411.7	438.6	457.5
40°	384.8	306.8	250.3	218.0	201.8	215.3	253.0	301.4	366.0	401.0	425.2
42.5°	339.1	253.0	201.8	169.5	161.5	169.5	199.1	247.6	317.5	360.6	392.9
45°	293.3	209.9	161.5	137.2	129.2	137.2	161.5	201.8	271.8	320.2	357.9
47.5°	253.0	177.6	134.6	113.0	107.6	115.7	134.6	169.5	228.7	277.2	320.2
50°	220.7	156.1	115.7	96.9	91.5	99.6	115.7	142.6	193.8	236.8	282.6
52.5°	199.1	145.3	102.3	83.4	80.7	86.1	99.6	121.1	164.2	201.8	244.9
55°	193.8	145.3	94.2	75.4	72.7	78.0	88.8	105.0	142.6	174.9	212.6
57.5°	199.1	156.1	88.8	64.6	61.9	67.3	78.0	91.5	123.8	150.7	185.7
60°	199.1	158.8	78.0	51.1	48.4	53.8	64.6	80.7	110.3	131.9	161.5
62.5°	180.3	145.3	64.6	40.4	35.0	40.4	53.8	67.3	96.9	118.4	142.6
65°	156.1	123.8	53.8	29.6	24.2	29.6	43.1	56.5	83.4	102.3	129.2
67.5°	126.5	94.2	40.4	21.5	16.1	21.5	32.3	45.7	70.0	88.8	115.7
70°	94.2	67.3	32.3	18.8	16.1	18.8	29.6	43.1	61.9	80.7	107.6
72.5°	70.0	45.7	26.9	18.8	13.5	18.8	26.9	40.4	59.2	78.0	102.3
75°	59.2	37.7	24.2	16.1	13.5	16.1	24.2	37.7	53.8	72.7	96.9
77.5°	56.5	35.0	21.5	13.5	10.8	13.5	21.5	32.3	48.4	67.3	94.2
80°	48.4	29.6	18.8	10.8	8.1	10.8	18.8	26.9	37.7	51.1	72.7
82.5°	37.7	24.2	13.5	5.4	2.7	5.4	13.5	16.1	24.2	29.6	43.1
85°	24.2	13.5	5.4	0.0	0.0	0.0	5.4	10.8	10.8	13.5	21.5
87.5°	10.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.7	5.4	8.1
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°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1135.6	1138.3	1143.7	1151.8	1170.6	1186.8	1202.9	1224.4	1235.2	1235.2
5°	1028.0	1030.7	1033.4	1044.1	1071.0	1092.6	1127.6	1170.6	1192.1	1197.5
7.5°	944.6	949.9	955.3	963.4	990.3	1019.9	1065.7	1146.4	1186.8	1194.8
10°	896.1	904.2	915.0	931.1	955.3	987.6	1065.7	1211.0	1278.3	1291.7
12.5°	858.5	871.9	882.7	901.5	931.1	982.2	1138.3	1394.0	1512.4	1544.7
15°	820.8	836.9	853.1	871.9	904.2	1001.1	1278.3	1722.3	1918.7	1943.0
17.5°	783.1	801.9	823.5	845.0	885.4	1046.8	1498.9	2177.1	2451.6	2505.4
20°	740.0	764.3	793.9	820.8	866.5	1119.5	1805.7	2718.0	3062.4	3178.2
22.5°	694.3	723.9	758.9	793.9	845.0	1208.3	2177.1	3299.3	3781.0	3856.3
25°	656.6	686.2	718.5	753.5	810.0	1315.9	2626.5	4020.5	4459.1	4531.8
27.5°	621.6	651.2	680.8	713.1	775.0	1455.9	3167.4	4787.4	5244.9	5320.2
30°	584.0	618.9	648.5	680.8	742.7	1628.1	3791.7	5637.8	6071.1	6141.0
32.5°	551.7	586.7	616.3	648.5	718.5	1816.5	4448.3	6391.3	6743.8	6743.8
35°	524.8	562.4	584.0	627.0	699.7	1937.6	5070.0	7109.8	7376.2	7365.5
37.5°	495.2	540.9	557.1	586.7	675.5	1951.0	5653.9	7868.7	8065.1	7995.2
40°	465.6	514.0	538.2	554.4	648.5	1840.7	6294.4	8565.7	8732.5	8641.0
42.5°	438.6	476.3	511.3	530.1	632.4	1646.9	6808.4	9311.1	9510.2	9429.5
45°	411.7	444.0	465.6	500.5	643.2	1512.4	7249.7	10180.3	10530.2	10471.0
47.5°	384.8	411.7	425.2	479.0	715.8	1450.5	7518.9	11525.9	12185.2	12136.7
50°	355.2	387.5	387.5	473.6	823.5	1472.0	7753.0	13474.2	14494.1	14478.0
52.5°	325.6	360.6	355.2	514.0	906.9	1571.6	8019.4	15193.8	16967.2	17115.2
55°	296.0	328.3	333.7	594.7	955.3	1657.7	6988.7	15917.7	19079.7	19599.1
57.5°	263.7	282.6	347.1	656.6	939.2	1908.0	4787.4	16049.6	20427.9	21542.0
60°	228.7	244.9	392.9	643.2	888.1	1762.7	3014.0	14865.5	20236.9	21649.7
62.5°	199.1	226.1	414.4	567.8	904.2	1528.5	1921.4	12669.6	18415.0	20027.0
65°	174.9	218.0	376.8	514.0	915.0	1036.1	1297.1	10306.8	16636.2	18170.1
67.5°	156.1	242.2	309.5	457.5	785.8	729.3	890.7	8008.6	13988.2	15363.3
70°	142.6	247.6	253.0	392.9	608.2	468.2	586.7	5390.2	9642.1	11213.7
72.5°	129.2	183.0	191.1	314.9	392.9	285.3	379.4	3084.0	7029.1	8100.1
75°	123.8	123.8	131.9	204.5	218.0	207.2	244.9	1840.7	5040.4	5823.5
77.5°	115.7	94.2	83.4	131.9	118.4	148.0	145.3	818.1	2185.2	2362.8
80°	91.5	67.3	56.5	83.4	80.7	99.6	86.1	67.3	99.6	96.9
82.5°	56.5	43.1	40.4	51.1	45.7	51.1	40.4	10.8	10.8	10.8
85°	26.9	24.2	21.5	21.5	24.2	21.5	16.1	5.4	2.7	2.7
87.5°	13.5	13.5	10.8	8.1	10.8	10.8	8.1	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

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