

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: P638815

Luminaire Tested: GWS-SA4F-750-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638815
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-SA4F-750-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21599.4 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

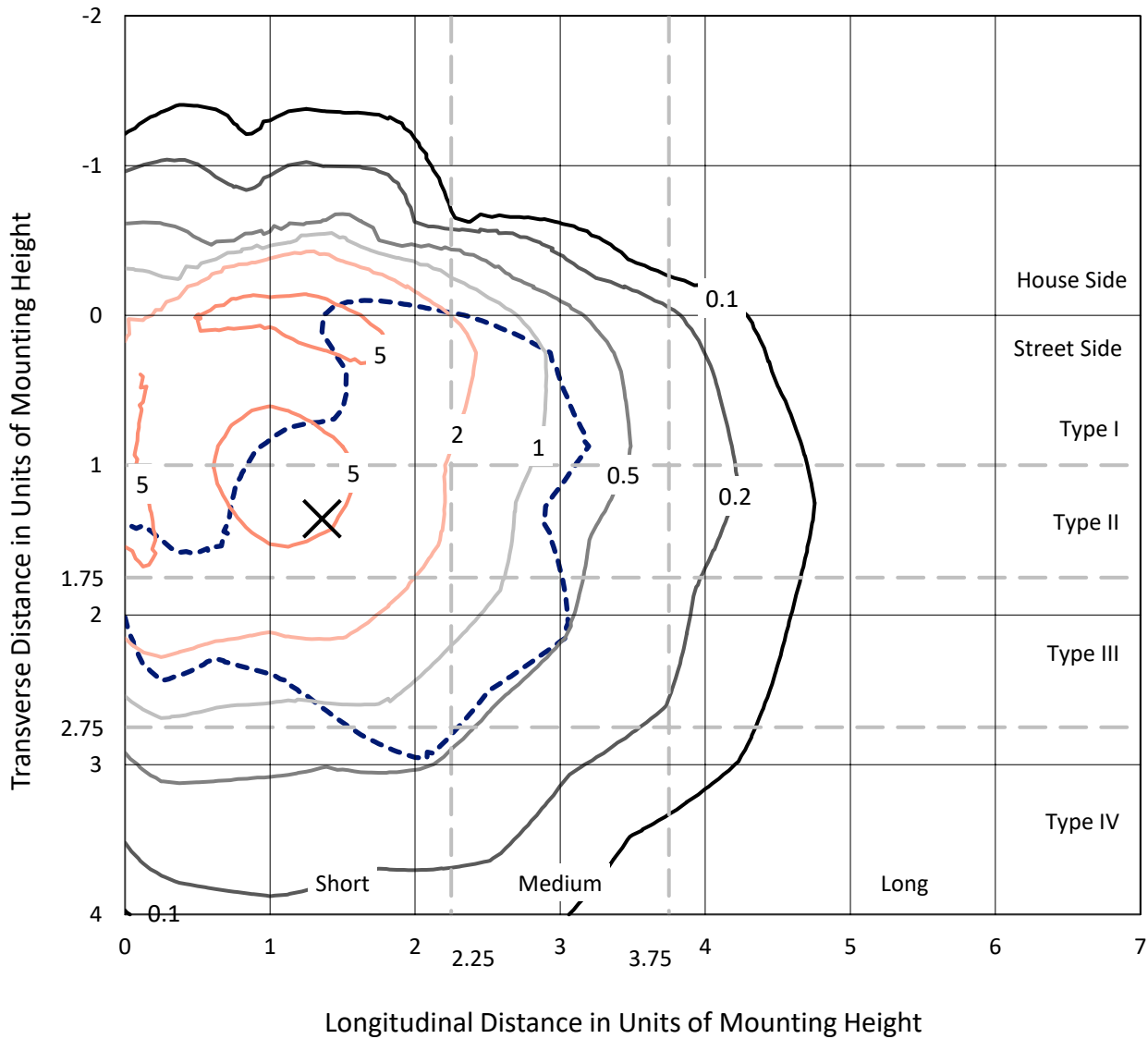
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

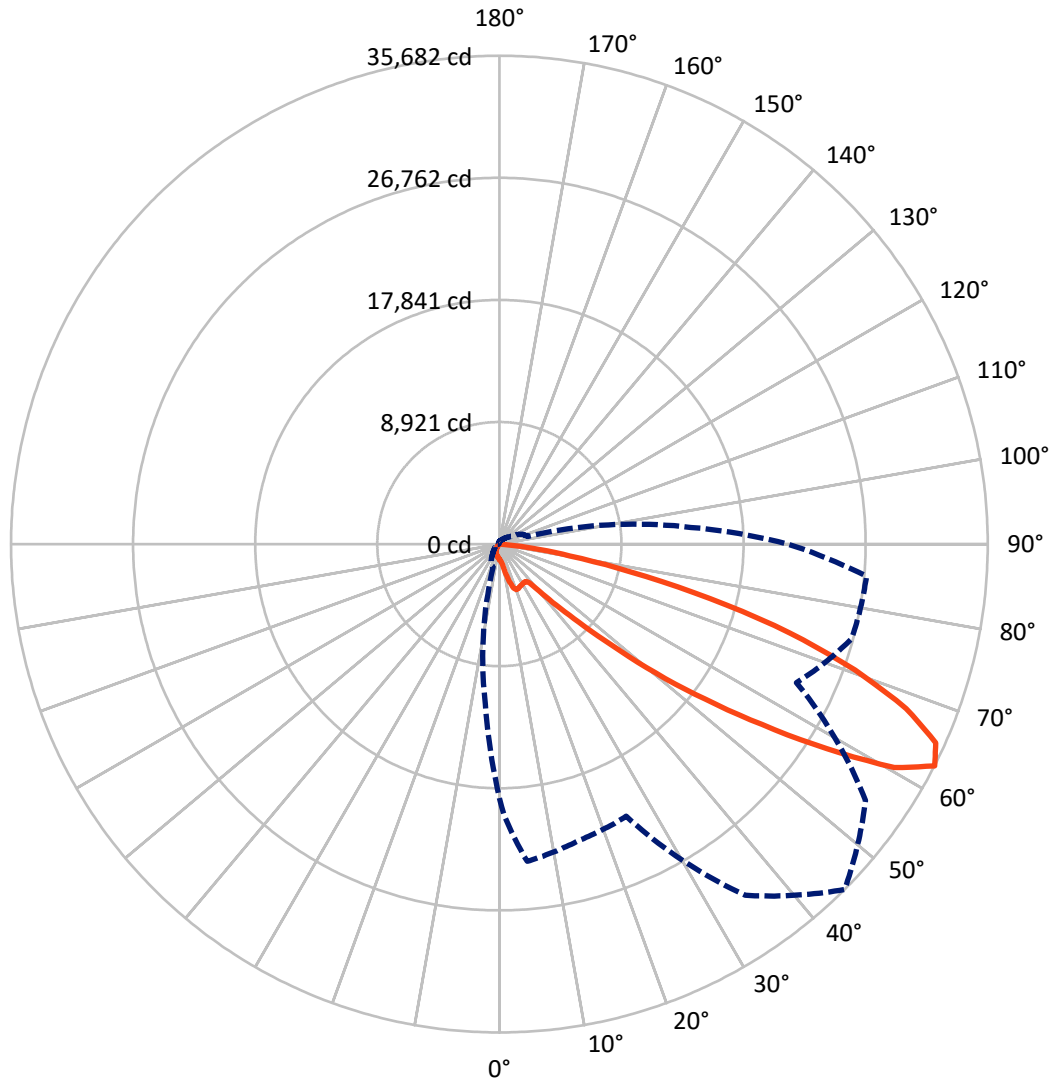
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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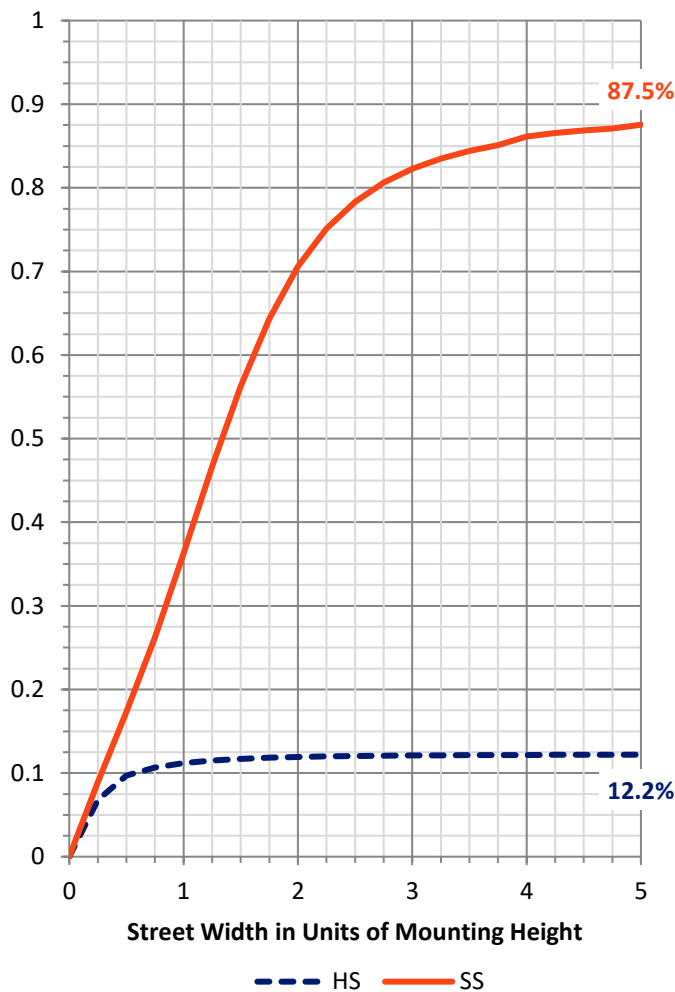
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2665.3	0.0	2665.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	18934.1	0.0	18934.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	21599.4	0.0	21599.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	0.5
10°-20°	376.6	1.7
20°-30°	818.6	3.8
30°-40°	1343.6	6.2
40°-50°	2470.0	11.4
50°-60°	5304.5	24.6
60°-70°	7124.8	33.0
70°-80°	3709.9	17.2
80°-90°	351.8	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°	21599.4	100.0
0°-180°	21599.4	100.0

Coefficient of Utilization



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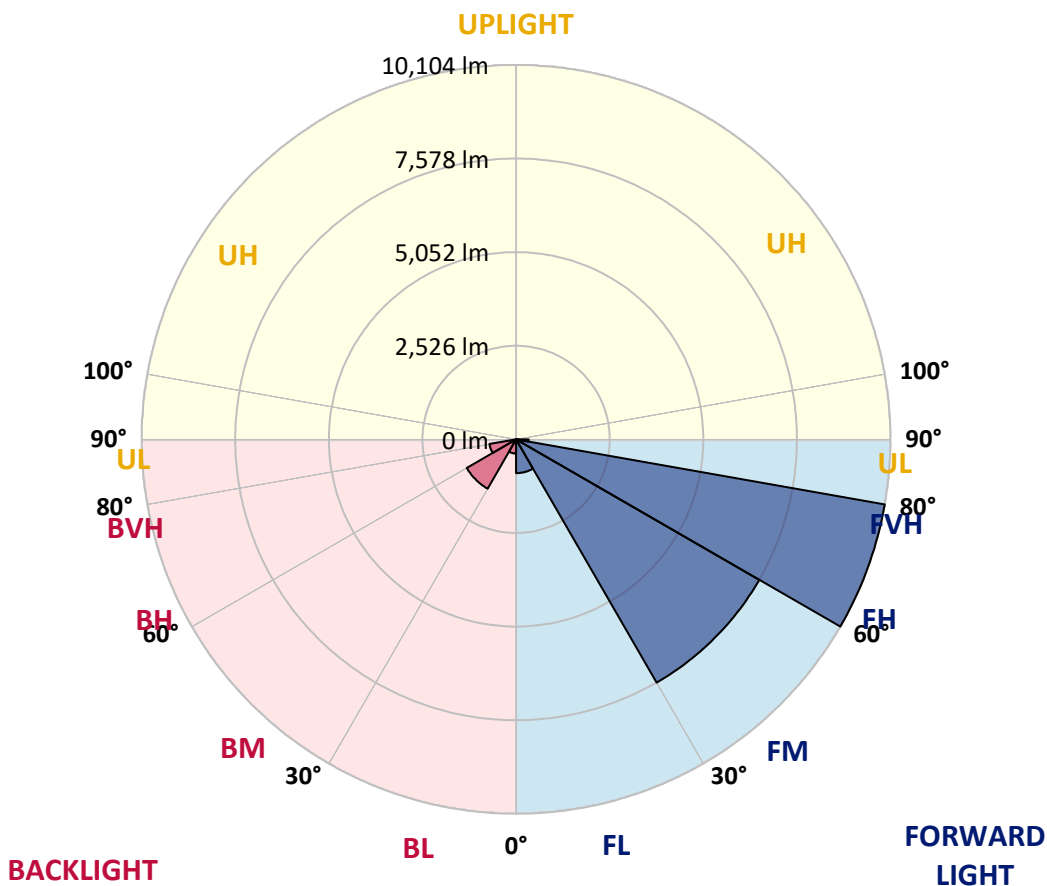
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.5	4.2			
FM (30°-60°)	7581.1	35.1			
FH (60°-80°)	10104.4	46.8			G4/12000
FVH (80°-90°)	336.1	1.6			G3/500
BL (0°-30°)	382.3	1.8	B1/500		
BM (30°-60°)	1537.0	7.1	B2/2500		
BH (60°-80°)	730.3	3.4	B2/1000		G2/1000
BVH (80°-90°)	15.7	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°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1145.2	1150.2	1155.2	1172.6	1185.1	1195.1	1197.6	1190.1	1172.6	1155.2	1130.2
5°	1110.2	1115.2	1132.7	1180.1	1227.5	1264.9	1277.4	1269.9	1227.5	1172.6	1115.2
7.5°	1107.7	1117.7	1160.1	1259.9	1362.2	1439.6	1459.5	1442.1	1362.2	1252.5	1135.2
10°	1197.6	1215.0	1277.4	1457.0	1644.2	1781.4	1836.3	1761.4	1634.2	1434.6	1242.5
12.5°	1432.1	1462.0	1581.8	1843.8	2133.2	2315.3	2390.1	2297.8	2098.2	1808.8	1504.4
15°	1801.3	1846.2	2025.9	2417.6	2759.4	2921.6	2946.5	2894.1	2662.1	2342.7	1933.6
17.5°	2322.8	2387.6	2667.1	3066.3	3313.3	3370.6	3363.2	3308.3	3138.6	2919.1	2532.3
20°	2946.5	3023.9	3298.3	3627.6	3652.6	3585.2	3547.8	3515.4	3458.0	3420.5	3118.7
22.5°	3575.2	3670.0	3957.0	4039.3	3814.7	3620.1	3527.8	3552.8	3637.6	3822.2	3700.0
25°	4201.5	4291.3	4560.7	4338.7	3889.6	3565.2	3448.0	3507.9	3710.0	4109.1	4266.3
27.5°	4932.5	4999.8	5159.5	4543.3	3902.1	3520.3	3405.6	3497.9	3744.9	4288.8	4887.6
30°	5693.4	5733.3	5656.0	4598.1	3859.7	3453.0	3363.2	3497.9	3804.8	4408.5	5354.1
32.5°	6252.3	6259.8	6007.8	4603.1	3837.2	3398.1	3323.2	3482.9	3862.1	4508.3	5805.7
35°	6828.6	6791.2	6344.6	4678.0	3897.1	3418.0	3353.2	3525.3	3952.0	4625.6	6202.4
37.5°	7412.4	7345.1	6721.3	4800.2	4051.8	3635.1	3595.2	3742.4	4096.7	4787.8	6639.0
40°	8011.2	7918.9	7113.0	4984.9	4396.1	4373.6	4510.8	4493.4	4493.4	4994.8	7088.1
42.5°	8742.2	8634.9	7691.9	5506.3	5199.4	5700.9	6075.1	5843.1	5414.0	5471.4	7671.9
45°	9707.8	9615.4	8694.8	6504.3	6459.4	7612.0	8116.0	7656.9	6589.1	6571.6	8647.4
47.5°	11252.1	11234.7	10294.1	7661.9	8001.2	10044.6	11017.6	10134.4	7928.9	7736.8	10493.7
50°	13422.7	13370.3	12287.5	9019.2	9835.0	13058.4	14794.9	13322.9	9548.1	9096.5	12966.1
52.5°	15867.7	15922.6	15079.3	10501.1	11783.5	16411.6	18829.2	16975.5	11307.0	10825.5	16077.3
55°	18170.5	18484.9	18262.9	12235.1	13687.2	20114.1	23260.2	20982.3	13485.1	13088.4	19565.2
57.5°	19971.9	20857.6	22414.4	14755.0	15925.1	24445.3	28207.6	25326.0	16027.4	16763.4	24313.1
60°	20071.7	21244.3	24859.4	20026.8	18804.3	28160.2	33147.6	29569.9	20024.3	23003.2	28033.0
62.5°	18567.2	19824.7	23267.7	22421.9	21940.4	31321.3	35682.4	32663.6	23956.3	26658.3	26930.2
65°	16845.7	18115.7	21491.3	19704.9	21576.1	31186.6	35038.7	32735.9	24313.1	24173.3	24956.7
67.5°	14243.5	15383.7	18440.0	17442.0	19887.1	29682.1	32064.8	30672.6	22399.4	22609.0	22958.3
70°	10396.4	11494.1	14330.9	14380.8	17367.2	26970.1	27551.5	27359.4	20628.0	20850.1	19852.1
72.5°	7509.7	8435.3	10882.9	11793.5	13864.3	22616.5	22214.8	22955.8	17699.0	18569.7	15945.1
75°	5399.0	6092.6	7983.8	10259.1	10990.1	16795.8	15902.7	17778.8	14201.1	15990.0	11988.1
77.5°	2190.5	2435.0	3141.1	6910.9	7222.8	11299.5	9735.2	12913.7	10124.4	10506.1	5810.7
80°	89.8	99.8	129.7	3567.7	4952.4	6357.1	5209.4	6903.5	6686.4	4231.4	1372.2
82.5°	10.0	10.0	22.5	1027.9	2168.1	3507.9	2455.0	3976.9	3385.6	1793.9	623.7
85°	2.5	2.5	5.0	117.3	509.0	561.4	331.8	1220.0	1574.3	733.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	22.5	24.9	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°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1130.2	1117.7	1102.8	1087.8	1080.3	1060.3	1052.9	1047.9	1042.9	1045.4	1045.4
5°	1092.8	1065.3	1032.9	1000.5	983.0	963.0	953.1	948.1	950.6	960.5	960.5
7.5°	1087.8	1035.4	965.5	923.1	903.2	888.2	878.2	873.2	875.7	888.2	893.2
10°	1170.1	1077.8	953.1	880.7	858.3	843.3	833.3	825.8	820.8	830.8	833.3
12.5°	1347.3	1220.0	1012.9	875.7	835.8	815.8	808.4	793.4	785.9	790.9	793.4
15°	1714.0	1494.5	1132.7	895.7	815.8	793.4	780.9	768.4	756.0	753.5	756.0
17.5°	2193.0	1878.7	1314.8	943.1	800.9	773.4	756.0	738.5	721.0	718.5	716.0
20°	2786.8	2350.2	1569.3	1017.9	788.4	756.0	731.0	706.1	683.6	676.1	676.1
22.5°	3328.2	2919.1	1896.1	1110.2	770.9	731.0	701.1	671.1	646.2	633.7	631.2
25°	3989.4	3522.8	2287.8	1217.5	746.0	698.6	666.1	636.2	611.3	596.3	591.3
27.5°	4655.5	4159.0	2731.9	1357.2	716.0	666.1	636.2	608.8	581.3	563.9	558.9
30°	5301.7	4845.1	3230.9	1531.9	693.6	633.7	608.8	581.3	556.4	528.9	521.4
32.5°	5995.3	5546.2	3789.8	1726.5	676.1	611.3	583.8	558.9	526.4	501.5	489.0
35°	6663.9	6269.7	4406.0	1916.1	658.7	591.3	561.4	536.4	501.5	474.0	456.6
37.5°	7337.6	7005.8	5049.7	2030.9	633.7	563.9	536.4	516.4	476.5	444.1	424.1
40°	8051.1	7766.7	5745.8	1983.5	611.3	533.9	518.9	496.5	451.6	414.2	389.2
42.5°	8834.5	8492.7	6454.4	1801.3	591.3	509.0	494.0	471.5	429.1	384.2	351.8
45°	9820.0	9288.6	7035.7	1526.9	601.3	484.0	454.1	449.1	409.2	351.8	311.9
47.5°	11514.1	10511.1	7487.3	1349.8	668.6	456.6	421.6	434.1	391.7	319.4	274.4
50°	14106.3	12537.0	7908.9	1337.3	770.9	444.1	391.7	424.1	374.2	286.9	242.0
52.5°	16576.3	14595.3	8178.4	1447.1	860.7	476.5	361.8	411.7	361.8	264.5	219.6
55°	18939.0	15782.9	7696.8	1526.9	945.6	573.8	339.3	391.7	346.8	252.0	212.1
57.5°	21486.3	16311.8	6060.2	1689.1	1005.5	656.2	344.3	361.8	326.8	244.5	209.6
60°	22247.3	15635.7	3657.6	1901.1	973.0	681.1	381.7	321.8	299.4	229.5	202.1
62.5°	21064.7	14031.5	2158.1	1731.5	945.6	643.7	436.6	296.9	271.9	209.6	187.1
65°	19295.8	11853.4	1407.1	1462.0	1003.0	573.8	464.1	284.4	247.0	189.6	164.7
67.5°	17274.9	9548.1	985.5	863.2	925.6	516.4	391.7	281.9	222.0	159.7	134.7
70°	14550.4	7150.5	693.6	571.3	770.9	459.1	304.4	274.4	194.6	129.7	104.8
72.5°	11242.1	4475.9	516.4	369.2	548.9	374.2	242.0	232.0	157.2	107.3	79.8
75°	8290.6	2552.3	364.3	267.0	361.8	284.4	179.6	164.7	134.7	102.3	72.4
77.5°	4328.7	1277.4	227.0	204.6	207.1	177.1	129.7	119.8	124.7	102.3	67.4
80°	830.8	254.5	137.2	149.7	112.3	112.3	94.8	99.8	109.8	82.3	57.4
82.5°	346.8	54.9	74.8	84.8	69.9	77.3	77.3	79.8	77.3	59.9	42.4
85°	0.0	0.0	32.4	34.9	47.4	47.4	39.9	39.9	39.9	34.9	24.9
87.5°	0.0	0.0	0.0	0.0	2.5	7.5	15.0	17.5	20.0	15.0	10.0
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°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1042.9	1037.9	1045.4	1050.4	1055.4	1055.4	1050.4	1045.4	1037.9	1045.4	1037.9
5°	963.0	970.5	983.0	988.0	993.0	983.0	978.0	963.0	950.6	953.1	948.1
7.5°	900.7	908.2	923.1	933.1	933.1	928.1	913.1	898.2	878.2	878.2	875.7
10°	843.3	853.3	870.7	883.2	888.2	883.2	868.2	848.3	830.8	830.8	823.3
12.5°	795.9	808.4	828.3	845.8	850.8	845.8	830.8	810.9	790.9	790.9	785.9
15°	756.0	770.9	793.4	813.3	820.8	813.3	795.9	770.9	751.0	753.5	746.0
17.5°	718.5	731.0	761.0	783.4	790.9	783.4	761.0	728.5	708.6	713.5	708.6
20°	676.1	691.1	721.0	746.0	753.5	746.0	721.0	686.1	666.1	666.1	668.6
22.5°	631.2	646.2	676.1	693.6	703.6	696.1	671.1	638.7	618.7	618.7	621.2
25°	591.3	598.8	621.2	638.7	641.2	633.7	613.8	588.8	573.8	581.3	583.8
27.5°	553.9	553.9	563.9	573.8	571.3	563.9	556.4	536.4	533.9	541.4	548.9
30°	514.0	501.5	496.5	489.0	486.5	484.0	491.5	491.5	496.5	506.5	514.0
32.5°	479.0	454.1	431.6	409.2	396.7	406.7	426.6	444.1	461.6	476.5	484.0
35°	439.1	399.2	361.8	331.8	311.9	326.8	359.3	391.7	421.6	441.6	454.1
37.5°	399.2	341.8	296.9	259.5	244.5	257.0	291.9	336.8	381.7	406.7	424.1
40°	356.8	284.4	232.0	202.1	187.1	199.6	234.5	279.4	339.3	371.7	394.2
42.5°	314.4	234.5	187.1	157.2	149.7	157.2	184.6	229.5	294.4	334.3	364.3
45°	271.9	194.6	149.7	127.2	119.8	127.2	149.7	187.1	252.0	296.9	331.8
47.5°	234.5	164.7	124.7	104.8	99.8	107.3	124.7	157.2	212.1	257.0	296.9
50°	204.6	144.7	107.3	89.8	84.8	92.3	107.3	132.2	179.6	219.6	262.0
52.5°	184.6	134.7	94.8	77.3	74.8	79.8	92.3	112.3	152.2	187.1	227.0
55°	179.6	134.7	87.3	69.9	67.4	72.4	82.3	97.3	132.2	162.2	197.1
57.5°	184.6	144.7	82.3	59.9	57.4	62.4	72.4	84.8	114.8	139.7	172.1
60°	184.6	147.2	72.4	47.4	44.9	49.9	59.9	74.8	102.3	122.3	149.7
62.5°	167.2	134.7	59.9	37.4	32.4	37.4	49.9	62.4	89.8	109.8	132.2
65°	144.7	114.8	49.9	27.4	22.5	27.4	39.9	52.4	77.3	94.8	119.8
67.5°	117.3	87.3	37.4	20.0	15.0	20.0	29.9	42.4	64.9	82.3	107.3
70°	87.3	62.4	29.9	17.5	15.0	17.5	27.4	39.9	57.4	74.8	99.8
72.5°	64.9	42.4	24.9	17.5	12.5	17.5	24.9	37.4	54.9	72.4	94.8
75°	54.9	34.9	22.5	15.0	12.5	15.0	22.5	34.9	49.9	67.4	89.8
77.5°	52.4	32.4	20.0	12.5	10.0	12.5	20.0	29.9	44.9	62.4	87.3
80°	44.9	27.4	17.5	10.0	7.5	10.0	17.5	24.9	34.9	47.4	67.4
82.5°	34.9	22.5	12.5	5.0	2.5	5.0	12.5	15.0	22.5	27.4	39.9
85°	22.5	12.5	5.0	0.0	0.0	0.0	5.0	10.0	10.0	12.5	20.0
87.5°	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.5
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°	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7	1122.7
2.5°	1052.9	1055.4	1060.3	1067.8	1085.3	1100.3	1115.2	1135.2	1145.2	1145.2
5°	953.1	955.6	958.1	968.0	993.0	1012.9	1045.4	1085.3	1105.3	1110.2
7.5°	875.7	880.7	885.7	893.2	918.1	945.6	988.0	1062.8	1100.3	1107.7
10°	830.8	838.3	848.3	863.2	885.7	915.6	988.0	1122.7	1185.1	1197.6
12.5°	795.9	808.4	818.3	835.8	863.2	910.6	1055.4	1292.4	1402.1	1432.1
15°	761.0	775.9	790.9	808.4	838.3	928.1	1185.1	1596.8	1778.9	1801.3
17.5°	726.0	743.5	763.4	783.4	820.8	970.5	1389.7	2018.4	2272.9	2322.8
20°	686.1	708.6	736.0	761.0	803.4	1037.9	1674.1	2519.9	2839.2	2946.5
22.5°	643.7	671.1	703.6	736.0	783.4	1120.2	2018.4	3058.8	3505.4	3575.2
25°	608.8	636.2	666.1	698.6	751.0	1220.0	2435.0	3727.4	4134.1	4201.5
27.5°	576.3	603.8	631.2	661.2	718.5	1349.8	2936.5	4438.5	4862.6	4932.5
30°	541.4	573.8	601.3	631.2	688.6	1509.4	3515.4	5226.9	5628.6	5693.4
32.5°	511.5	543.9	571.3	601.3	666.1	1684.1	4124.1	5925.4	6252.3	6252.3
35°	486.5	521.4	541.4	581.3	648.7	1796.3	4700.4	6591.6	6838.6	6828.6
37.5°	459.1	501.5	516.4	543.9	626.2	1808.8	5241.8	7295.2	7477.3	7412.4
40°	431.6	476.5	499.0	514.0	601.3	1706.5	5835.6	7941.3	8096.0	8011.2
42.5°	406.7	441.6	474.0	491.5	586.3	1526.9	6312.2	8632.4	8817.1	8742.2
45°	381.7	411.7	431.6	464.1	596.3	1402.1	6721.3	9438.3	9762.6	9707.8
47.5°	356.8	381.7	394.2	444.1	663.7	1344.8	6970.8	10685.8	11297.0	11252.1
50°	329.3	359.3	359.3	439.1	763.4	1364.7	7187.9	12492.1	13437.7	13422.7
52.5°	301.9	334.3	329.3	476.5	840.8	1457.0	7434.9	14086.4	15730.5	15867.7
55°	274.4	304.4	309.4	551.4	885.7	1536.9	6479.3	14757.5	17689.0	18170.5
57.5°	244.5	262.0	321.8	608.8	870.7	1768.9	4438.5	14879.7	18939.0	19971.9
60°	212.1	227.0	364.3	596.3	823.3	1634.2	2794.3	13782.0	18761.8	20071.7
62.5°	184.6	209.6	384.2	526.4	838.3	1417.1	1781.4	11746.1	17072.8	18567.2
65°	162.2	202.1	349.3	476.5	848.3	960.5	1202.6	9555.6	15423.6	16845.7
67.5°	144.7	224.5	286.9	424.1	728.5	676.1	825.8	7424.9	12968.6	14243.5
70°	132.2	229.5	234.5	364.3	563.9	434.1	543.9	4997.3	8939.3	10396.4
72.5°	119.8	169.7	177.1	291.9	364.3	264.5	351.8	2859.2	6516.7	7509.7
75°	114.8	114.8	122.3	189.6	202.1	192.1	227.0	1706.5	4673.0	5399.0
77.5°	107.3	87.3	77.3	122.3	109.8	137.2	134.7	758.5	2025.9	2190.5
80°	84.8	62.4	52.4	77.3	74.8	92.3	79.8	62.4	92.3	89.8
82.5°	52.4	39.9	37.4	47.4	42.4	47.4	37.4	10.0	10.0	10.0
85°	24.9	22.5	20.0	20.0	22.5	20.0	15.0	5.0	2.5	2.5
87.5°	12.5	12.5	10.0	7.5	10.0	10.0	7.5	2.5	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)