

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: P643655

Luminaire Tested: GWS-SA6F-735-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643655
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-SAGF-735-U-SLR-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30463.8 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

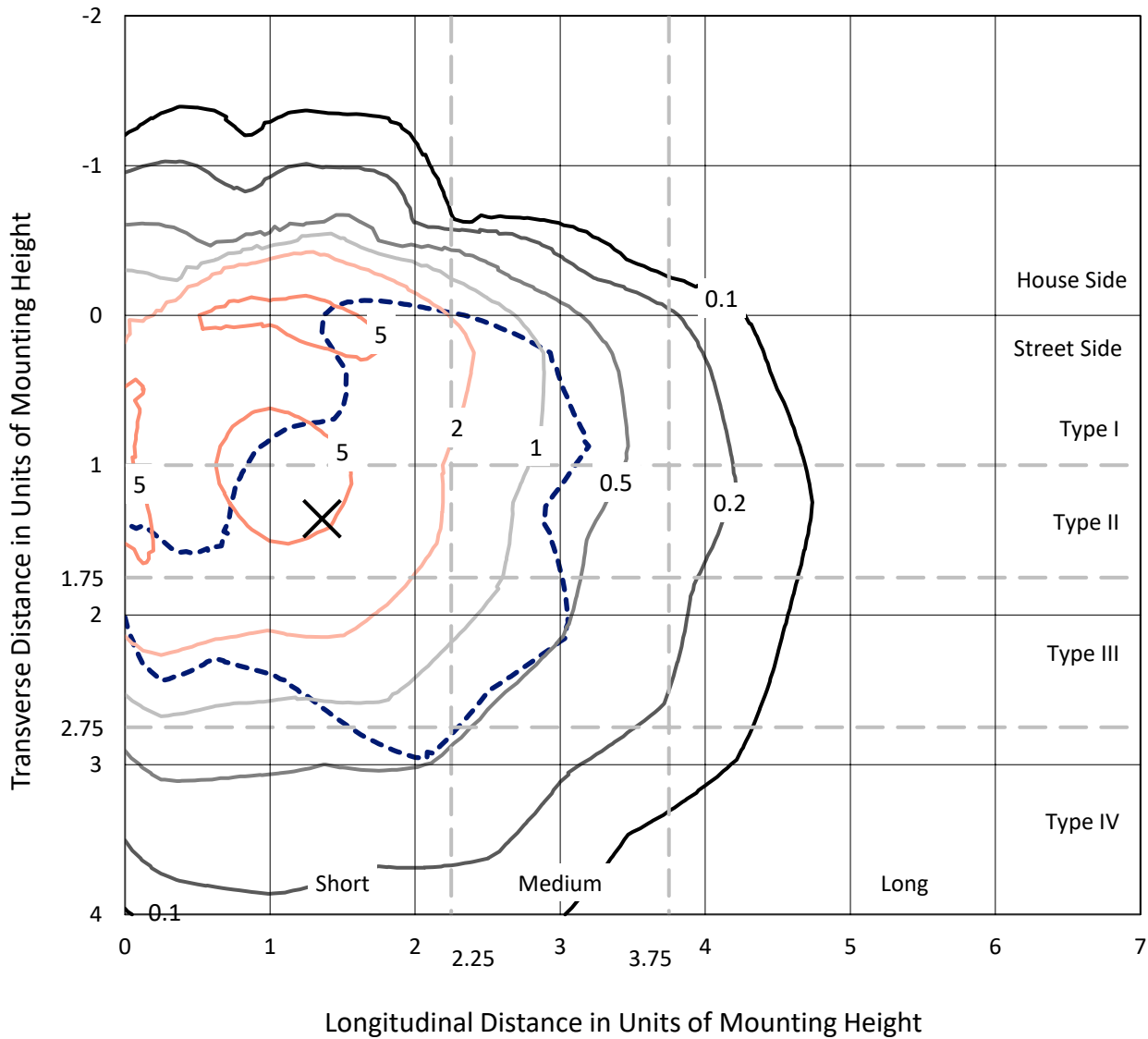
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

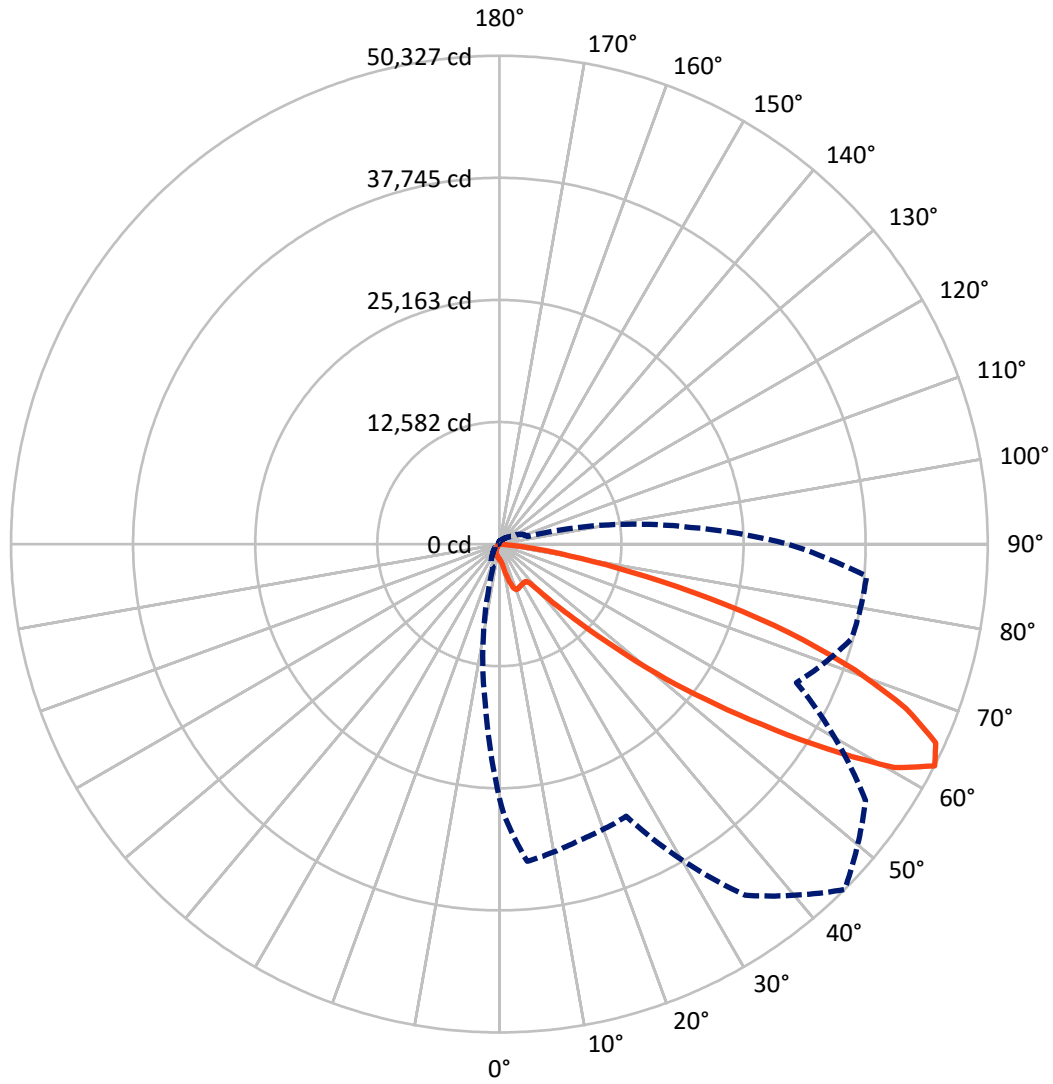
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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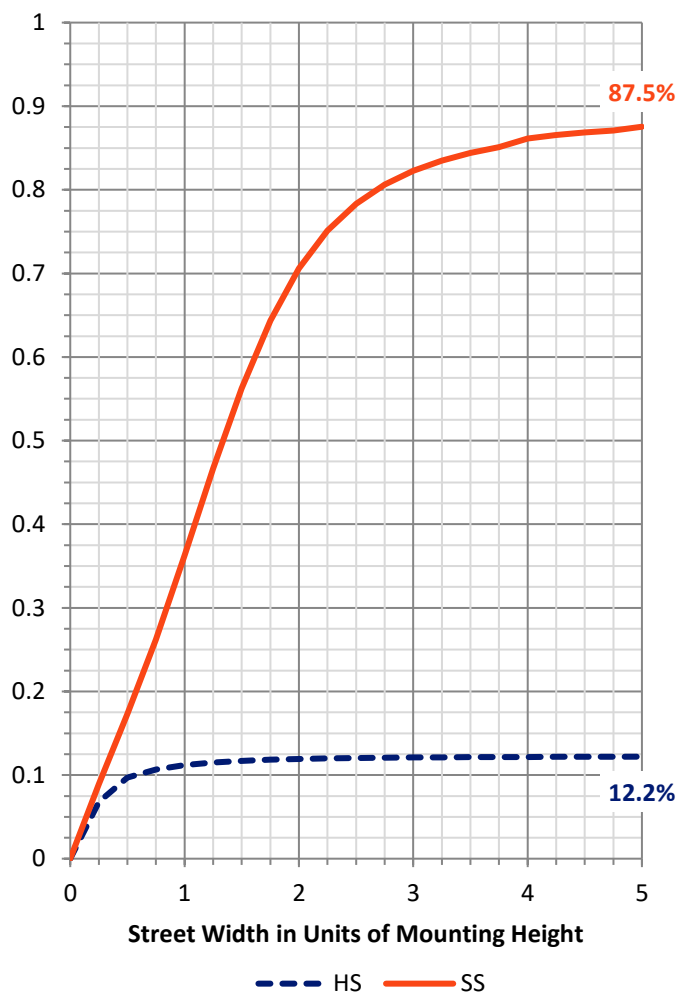
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3759.2	0.0	3759.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	26704.6	0.0	26704.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	30463.8	0.0	30463.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	0.5
10°-20°	531.1	1.7
20°-30°	1154.6	3.8
30°-40°	1895.0	6.2
40°-50°	3483.7	11.4
50°-60°	7481.5	24.6
60°-70°	10048.8	33.0
70°-80°	5232.5	17.2
80°-90°	496.1	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°	30463.8	100.0
0°-180°	30463.8	100.0

Coefficient of Utilization

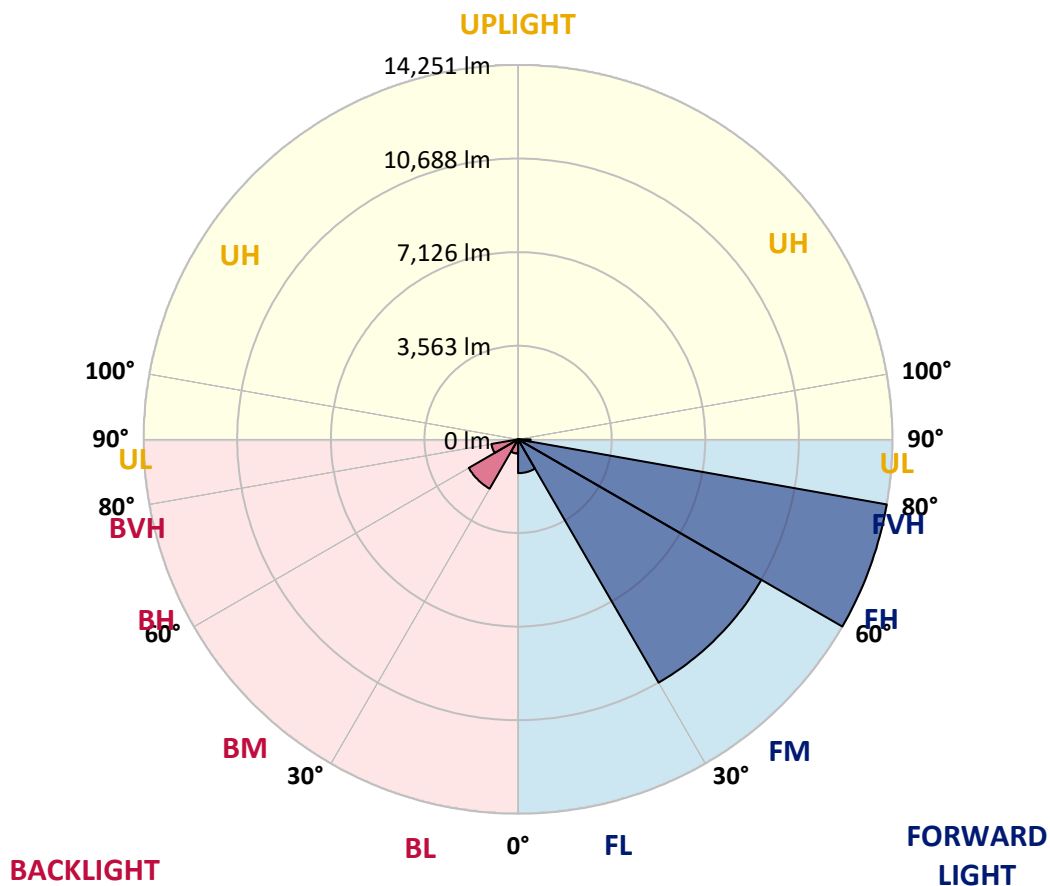


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.9	4.2			
FM (30°-60°)	10692.4	35.1			
FH (60°-80°)	14251.2	46.8			G5
FVH (80°-90°)	474.0	1.6			G3/500
BL (0°-30°)	539.2	1.8	B2/1000		
BM (30°-60°)	2167.8	7.1	B2/2500		
BH (60°-80°)	1030.0	3.4	B3/2500		G3/2500
BVH (80°-90°)	22.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1615.1	1622.2	1629.2	1653.9	1671.5	1685.5	1689.0	1678.5	1653.9	1629.2	1594.0
5°	1565.9	1572.9	1597.6	1664.4	1731.3	1784.1	1801.6	1791.1	1731.3	1653.9	1572.9
7.5°	1562.4	1576.4	1636.3	1777.0	1921.3	2030.4	2058.5	2033.9	1921.3	1766.5	1601.1
10°	1689.0	1713.7	1801.6	2055.0	2318.9	2512.5	2589.9	2484.3	2304.8	2023.3	1752.4
12.5°	2019.8	2062.0	2230.9	2600.4	3008.6	3265.5	3371.1	3240.9	2959.3	2551.2	2121.9
15°	2540.6	2603.9	2857.3	3409.8	3891.8	4120.6	4155.8	4081.9	3754.6	3304.2	2727.1
17.5°	3276.0	3367.5	3761.6	4324.7	4673.0	4754.0	4743.4	4666.0	4426.7	4117.0	3571.6
20°	4155.8	4264.8	4651.9	5116.4	5151.6	5056.6	5003.8	4958.1	4877.1	4824.3	4398.6
22.5°	5042.5	5176.2	5580.9	5697.0	5380.3	5105.8	4975.6	5010.8	5130.5	5390.9	5218.4
25°	5925.7	6052.4	6432.4	6119.3	5485.9	5028.4	4863.0	4947.5	5232.5	5795.5	6017.2
27.5°	6956.8	7051.8	7277.0	6407.8	5503.5	4965.1	4803.2	4933.4	5281.8	6048.9	6893.4
30°	8030.0	8086.3	7977.2	6485.2	5443.7	4870.1	4743.4	4933.4	5366.2	6217.8	7551.4
32.5°	8818.2	8828.8	8473.4	6492.3	5412.0	4792.7	4687.1	4912.3	5447.2	6358.6	8188.4
35°	9631.1	9578.3	8948.4	6597.8	5496.4	4820.8	4729.3	4972.1	5573.8	6523.9	8747.8
37.5°	10454.5	10359.5	9479.8	6770.3	5714.6	5127.0	5070.7	5278.3	5777.9	6752.7	9363.6
40°	11299.0	11168.8	10032.2	7030.7	6200.2	6168.5	6362.1	6337.4	6337.4	7044.7	9997.0
42.5°	12330.0	12178.7	10848.6	7766.1	7333.3	8040.6	8568.4	8241.1	7635.9	7716.8	10820.4
45°	13691.8	13561.6	12263.2	9173.6	9110.3	10736.0	11446.8	10799.3	9293.3	9268.6	12196.3
47.5°	15870.0	15845.4	14518.8	10806.4	11284.9	14166.9	15539.2	14293.5	11182.9	10911.9	14800.3
50°	18931.4	18857.5	17330.3	12720.6	13871.3	18417.6	20866.7	18790.6	13466.6	12829.7	18287.4
52.5°	22379.8	22457.3	21267.9	14810.8	16619.5	23147.0	26556.7	23942.2	15947.4	15268.3	22675.4
55°	25627.7	26071.1	25757.9	17256.4	19304.4	28368.9	32806.2	29593.5	19019.4	18459.9	27594.8
57.5°	28168.3	29417.5	31613.3	20810.4	22460.8	34477.6	39784.1	35719.8	22605.1	23643.1	34291.1
60°	28309.1	29963.0	35061.8	28245.8	26521.5	39717.2	46751.4	41705.3	28242.2	32443.7	39537.7
62.5°	26187.2	27960.7	32816.7	31623.9	30944.7	44175.6	50326.5	46068.7	33787.9	37598.9	37982.4
65°	23759.2	25550.3	30311.3	27791.8	30431.0	43985.6	49418.6	46170.8	34291.1	34094.1	35199.0
67.5°	20089.1	21697.2	26007.8	24600.2	28048.7	41863.7	45224.2	43260.7	31592.2	31887.8	32380.4
70°	14663.0	16211.3	20212.2	20282.6	24494.7	38038.7	38858.6	38587.6	29093.8	29407.0	27999.4
72.5°	10591.7	11897.2	15349.2	16633.6	19554.2	31898.3	31331.8	32376.9	24962.7	26190.8	22488.9
75°	7614.8	8593.0	11260.3	14469.5	15500.5	23688.9	22429.1	25075.3	20029.3	22552.3	16908.0
77.5°	3089.5	3434.4	4430.2	9747.2	10187.1	15936.8	13730.5	18213.5	14279.5	14817.9	8195.4
80°	126.7	140.8	183.0	5031.9	6984.9	8966.0	7347.3	9736.6	9430.5	5968.0	1935.4
82.5°	14.1	14.1	31.7	1449.8	3057.9	4947.5	3462.5	5609.0	4775.1	2530.0	879.7
85°	3.5	3.5	7.0	165.4	717.8	791.7	468.0	1720.7	2220.4	1034.5	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	31.7	35.2	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°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1594.0	1576.4	1555.3	1534.2	1523.7	1495.5	1485.0	1477.9	1470.9	1474.4	1474.4
5°	1541.3	1502.5	1456.8	1411.1	1386.4	1358.3	1344.2	1337.2	1340.7	1354.8	1354.8
7.5°	1534.2	1460.3	1361.8	1302.0	1273.8	1252.7	1238.6	1231.6	1235.1	1252.7	1259.7
10°	1650.3	1520.1	1344.2	1242.2	1210.5	1189.4	1175.3	1164.7	1157.7	1171.8	1175.3
12.5°	1900.2	1720.7	1428.7	1235.1	1178.8	1150.7	1140.1	1119.0	1108.4	1115.5	1119.0
15°	2417.4	2107.8	1597.6	1263.3	1150.7	1119.0	1101.4	1083.8	1066.2	1062.7	1066.2
17.5°	3093.1	2649.7	1854.4	1330.1	1129.5	1090.8	1066.2	1041.6	1016.9	1013.4	1009.9
20°	3930.5	3314.8	2213.4	1435.7	1112.0	1066.2	1031.0	995.8	964.2	953.6	953.6
22.5°	4694.1	4117.0	2674.3	1565.9	1087.3	1031.0	988.8	946.6	911.4	893.8	890.3
25°	5626.6	4968.6	3226.8	1717.2	1052.1	985.3	939.5	897.3	862.1	841.0	834.0
27.5°	6566.2	5865.9	3853.1	1914.3	1009.9	939.5	897.3	858.6	819.9	795.3	788.2
30°	7477.5	6833.6	4556.9	2160.6	978.2	893.8	858.6	819.9	784.7	746.0	735.4
32.5°	8455.8	7822.4	5345.1	2435.0	953.6	862.1	823.4	788.2	742.5	707.3	689.7
35°	9398.8	8842.9	6214.3	2702.5	929.0	834.0	791.7	756.6	707.3	668.6	643.9
37.5°	10348.9	9880.9	7122.1	2864.3	893.8	795.3	756.6	728.4	672.1	626.4	598.2
40°	11355.3	10954.2	8103.9	2797.5	862.1	753.0	731.9	700.3	636.9	584.1	548.9
42.5°	12460.2	11978.1	9103.3	2540.6	834.0	717.8	696.7	665.1	605.2	541.9	496.2
45°	13850.2	13100.7	9923.1	2153.5	848.0	682.7	640.4	633.4	577.1	496.2	439.9
47.5°	16239.5	14824.9	10560.1	1903.7	943.1	643.9	594.7	612.3	552.5	450.4	387.1
50°	19895.5	17682.2	11154.7	1886.1	1087.3	626.4	552.5	598.2	527.8	404.7	341.3
52.5°	23379.2	20585.2	11534.8	2040.9	1214.0	672.1	510.2	580.6	510.2	373.0	309.7
55°	26711.5	22260.2	10855.6	2153.5	1333.6	809.3	478.6	552.5	489.1	355.4	299.1
57.5°	30304.3	23006.2	8547.3	2382.3	1418.1	925.5	485.6	510.2	461.0	344.8	295.6
60°	31377.5	22052.6	5158.6	2681.4	1372.3	960.6	538.4	453.9	422.3	323.7	285.0
62.5°	29709.6	19790.0	3043.8	2442.1	1333.6	907.9	615.8	418.7	383.6	295.6	263.9
65°	27214.7	16718.0	1984.6	2062.0	1414.6	809.3	654.5	401.1	348.4	267.4	232.2
67.5°	24364.5	13466.6	1389.9	1217.5	1305.5	728.4	552.5	397.6	313.2	225.2	190.0
70°	20521.9	10085.0	978.2	805.8	1087.3	647.5	429.3	387.1	274.5	183.0	147.8
72.5°	15855.9	6312.8	728.4	520.8	774.1	527.8	341.3	327.3	221.7	151.3	112.6
75°	11693.1	3599.8	513.8	376.5	510.2	401.1	253.4	232.2	190.0	144.3	102.0
77.5°	6105.2	1801.6	320.2	288.5	292.1	249.8	183.0	168.9	175.9	144.3	95.0
80°	1171.8	358.9	193.5	211.1	158.3	158.3	133.7	140.8	154.8	116.1	80.9
82.5°	489.1	77.4	105.6	119.6	98.5	109.1	109.1	112.6	109.1	84.5	59.8
85°	0.0	0.0	45.7	49.3	66.9	66.9	56.3	56.3	56.3	49.3	35.2
87.5°	0.0	0.0	0.0	0.0	3.5	10.6	21.1	24.6	28.2	21.1	14.1
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1470.9	1463.8	1474.4	1481.4	1488.5	1488.5	1481.4	1474.4	1463.8	1474.4	1463.8
5°	1358.3	1368.8	1386.4	1393.5	1400.5	1386.4	1379.4	1358.3	1340.7	1344.2	1337.2
7.5°	1270.3	1280.9	1302.0	1316.0	1316.0	1309.0	1287.9	1266.8	1238.6	1238.6	1235.1
10°	1189.4	1203.4	1228.1	1245.7	1252.7	1245.7	1224.6	1196.4	1171.8	1171.8	1161.2
12.5°	1122.5	1140.1	1168.3	1192.9	1199.9	1192.9	1171.8	1143.6	1115.5	1115.5	1108.4
15°	1066.2	1087.3	1119.0	1147.1	1157.7	1147.1	1122.5	1087.3	1059.2	1062.7	1052.1
17.5°	1013.4	1031.0	1073.2	1104.9	1115.5	1104.9	1073.2	1027.5	999.4	1006.4	999.4
20°	953.6	974.7	1016.9	1052.1	1062.7	1052.1	1016.9	967.7	939.5	939.5	943.1
22.5°	890.3	911.4	953.6	978.2	992.3	981.8	946.6	900.8	872.7	872.7	876.2
25°	834.0	844.5	876.2	900.8	904.3	893.8	865.6	830.4	809.3	819.9	823.4
27.5°	781.2	781.2	795.3	809.3	805.8	795.3	784.7	756.6	753.0	763.6	774.1
30°	724.9	707.3	700.3	689.7	686.2	682.7	693.2	693.2	700.3	714.3	724.9
32.5°	675.6	640.4	608.8	577.1	559.5	573.6	601.7	626.4	651.0	672.1	682.7
35°	619.3	563.0	510.2	468.0	439.9	461.0	506.7	552.5	594.7	622.8	640.4
37.5°	563.0	482.1	418.7	366.0	344.8	362.4	411.7	475.0	538.4	573.6	598.2
40°	503.2	401.1	327.3	285.0	263.9	281.5	330.8	394.1	478.6	524.3	556.0
42.5°	443.4	330.8	263.9	221.7	211.1	221.7	260.4	323.7	415.2	471.5	513.8
45°	383.6	274.5	211.1	179.5	168.9	179.5	211.1	263.9	355.4	418.7	468.0
47.5°	330.8	232.2	175.9	147.8	140.8	151.3	175.9	221.7	299.1	362.4	418.7
50°	288.5	204.1	151.3	126.7	119.6	130.2	151.3	186.5	253.4	309.7	369.5
52.5°	260.4	190.0	133.7	109.1	105.6	112.6	130.2	158.3	214.6	263.9	320.2
55°	253.4	190.0	123.2	98.5	95.0	102.0	116.1	137.2	186.5	228.7	278.0
57.5°	260.4	204.1	116.1	84.5	80.9	88.0	102.0	119.6	161.9	197.1	242.8
60°	260.4	207.6	102.0	66.9	63.3	70.4	84.5	105.6	144.3	172.4	211.1
62.5°	235.8	190.0	84.5	52.8	45.7	52.8	70.4	88.0	126.7	154.8	186.5
65°	204.1	161.9	70.4	38.7	31.7	38.7	56.3	73.9	109.1	133.7	168.9
67.5°	165.4	123.2	52.8	28.2	21.1	28.2	42.2	59.8	91.5	116.1	151.3
70°	123.2	88.0	42.2	24.6	21.1	24.6	38.7	56.3	80.9	105.6	140.8
72.5°	91.5	59.8	35.2	24.6	17.6	24.6	35.2	52.8	77.4	102.0	133.7
75°	77.4	49.3	31.7	21.1	17.6	21.1	31.7	49.3	70.4	95.0	126.7
77.5°	73.9	45.7	28.2	17.6	14.1	17.6	28.2	42.2	63.3	88.0	123.2
80°	63.3	38.7	24.6	14.1	10.6	14.1	24.6	35.2	49.3	66.9	95.0
82.5°	49.3	31.7	17.6	7.0	3.5	7.0	17.6	21.1	31.7	38.7	56.3
85°	31.7	17.6	7.0	0.0	0.0	0.0	7.0	14.1	14.1	17.6	28.2
87.5°	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	7.0	10.6
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°	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5	1583.5
2.5°	1485.0	1488.5	1495.5	1506.1	1530.7	1551.8	1572.9	1601.1	1615.1	1615.1
5°	1344.2	1347.7	1351.2	1365.3	1400.5	1428.7	1474.4	1530.7	1558.8	1565.9
7.5°	1235.1	1242.2	1249.2	1259.7	1294.9	1333.6	1393.5	1499.0	1551.8	1562.4
10°	1171.8	1182.3	1196.4	1217.5	1249.2	1291.4	1393.5	1583.5	1671.5	1689.0
12.5°	1122.5	1140.1	1154.2	1178.8	1217.5	1284.4	1488.5	1822.8	1977.6	2019.8
15°	1073.2	1094.4	1115.5	1140.1	1182.3	1309.0	1671.5	2252.1	2508.9	2540.6
17.5°	1024.0	1048.6	1076.8	1104.9	1157.7	1368.8	1960.0	2846.7	3205.7	3276.0
20°	967.7	999.4	1038.1	1073.2	1133.1	1463.8	2361.1	3554.0	4004.4	4155.8
22.5°	907.9	946.6	992.3	1038.1	1104.9	1580.0	2846.7	4314.1	4944.0	5042.5
25°	858.6	897.3	939.5	985.3	1059.2	1720.7	3434.4	5257.2	5830.7	5925.7
27.5°	812.9	851.6	890.3	932.5	1013.4	1903.7	4141.7	6260.0	6858.2	6956.8
30°	763.6	809.3	848.0	890.3	971.2	2128.9	4958.1	7372.0	7938.5	8030.0
32.5°	721.4	767.1	805.8	848.0	939.5	2375.2	5816.6	8357.3	8818.2	8818.2
35°	686.2	735.4	763.6	819.9	914.9	2533.6	6629.5	9296.8	9645.2	9631.1
37.5°	647.5	707.3	728.4	767.1	883.2	2551.2	7393.1	10289.1	10546.0	10454.5
40°	608.8	672.1	703.8	724.9	848.0	2406.9	8230.6	11200.5	11418.6	11299.0
42.5°	573.6	622.8	668.6	693.2	826.9	2153.5	8902.7	12175.2	12435.6	12330.0
45°	538.4	580.6	608.8	654.5	841.0	1977.6	9479.8	13311.8	13769.2	13691.8
47.5°	503.2	538.4	556.0	626.4	936.0	1896.7	9831.7	15071.2	15933.3	15870.0
50°	464.5	506.7	506.7	619.3	1076.8	1924.8	10137.8	17618.9	18952.5	18931.4
52.5°	425.8	471.5	464.5	672.1	1185.9	2055.0	10486.2	19867.4	22186.3	22379.8
55°	387.1	429.3	436.3	777.7	1249.2	2167.6	9138.4	20814.0	24948.6	25627.7
57.5°	344.8	369.5	453.9	858.6	1228.1	2494.9	6260.0	20986.4	26711.5	28168.3
60°	299.1	320.2	513.8	841.0	1161.2	2304.8	3941.1	19438.1	26461.7	28309.1
62.5°	260.4	295.6	541.9	742.5	1182.3	1998.7	2512.5	16566.7	24079.5	26187.2
65°	228.7	285.0	492.6	672.1	1196.4	1354.8	1696.1	13477.2	21753.5	23759.2
67.5°	204.1	316.7	404.7	598.2	1027.5	953.6	1164.7	10472.1	18291.0	20089.1
70°	186.5	323.7	330.8	513.8	795.3	612.3	767.1	7048.2	12608.0	14663.0
72.5°	168.9	239.3	249.8	411.7	513.8	373.0	496.2	4032.6	9191.2	10591.7
75°	161.9	161.9	172.4	267.4	285.0	271.0	320.2	2406.9	6590.8	7614.8
77.5°	151.3	123.2	109.1	172.4	154.8	193.5	190.0	1069.7	2857.3	3089.5
80°	119.6	88.0	73.9	109.1	105.6	130.2	112.6	88.0	130.2	126.7
82.5°	73.9	56.3	52.8	66.9	59.8	66.9	52.8	14.1	14.1	14.1
85°	35.2	31.7	28.2	28.2	31.7	28.2	21.1	7.0	3.5	3.5
87.5°	17.6	17.6	14.1	10.6	14.1	14.1	10.6	3.5	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)