

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: P641235

Luminaire Tested: GWS-SA5F-740-U-SLR-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641235
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-SA5F-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: 25902.6 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

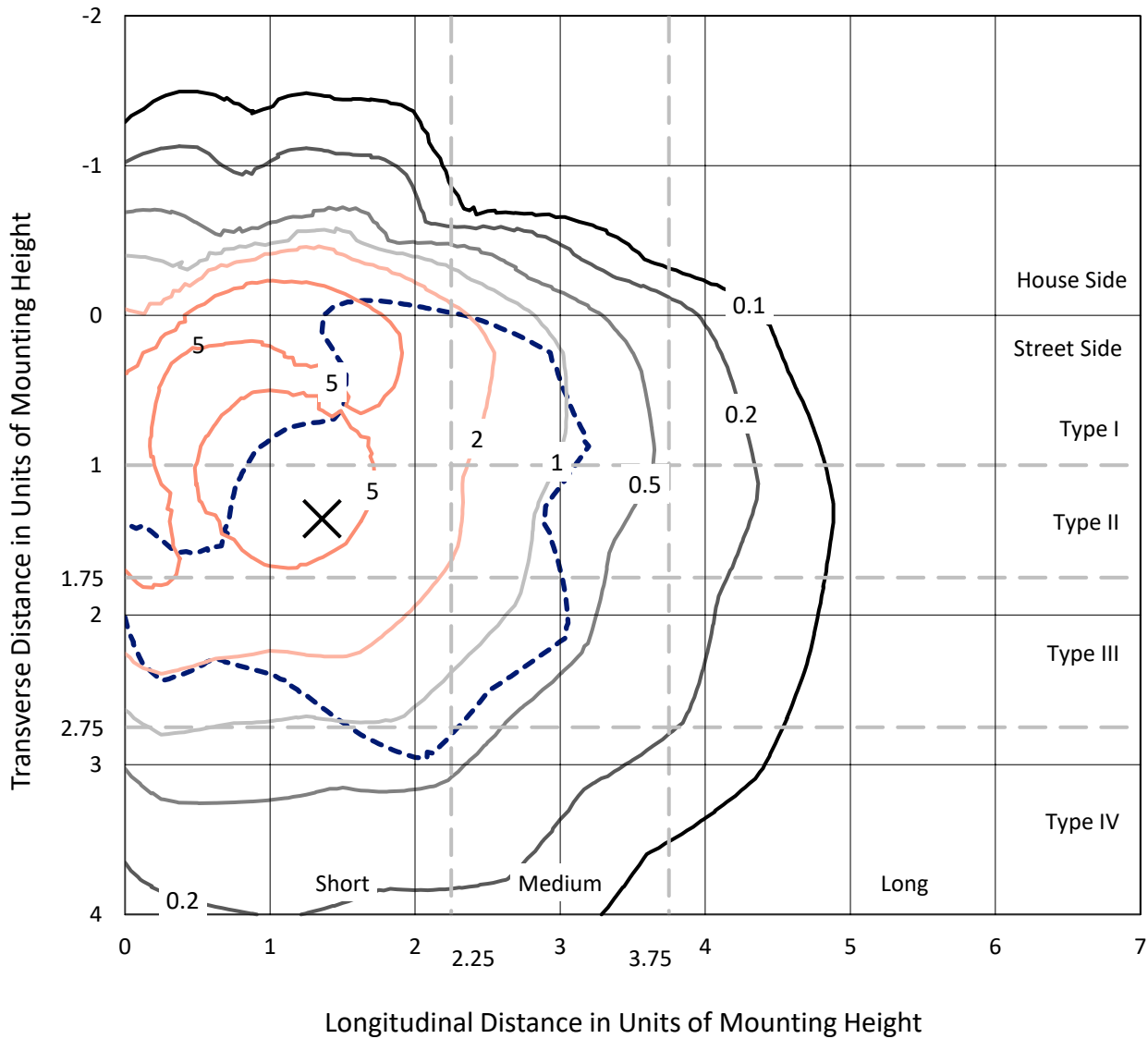
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

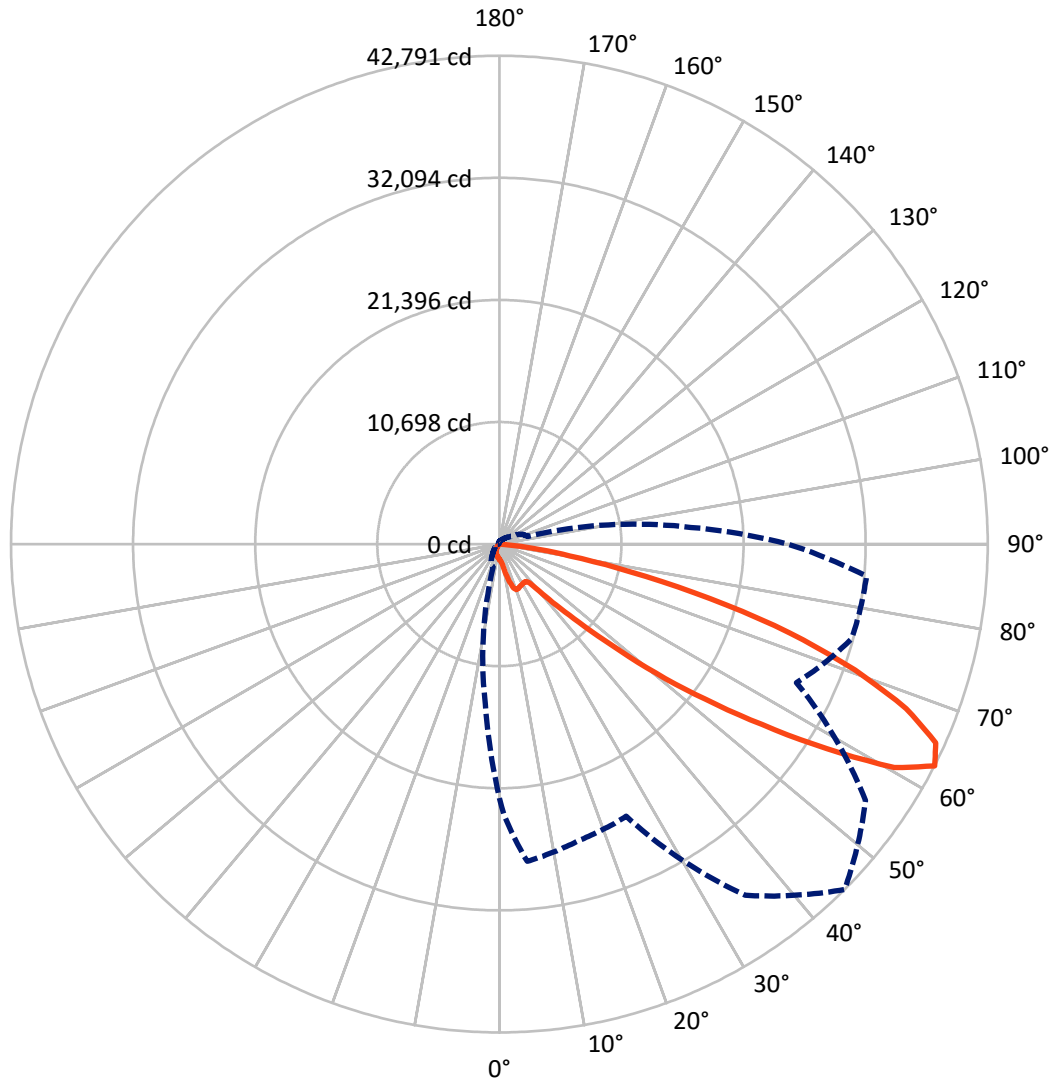
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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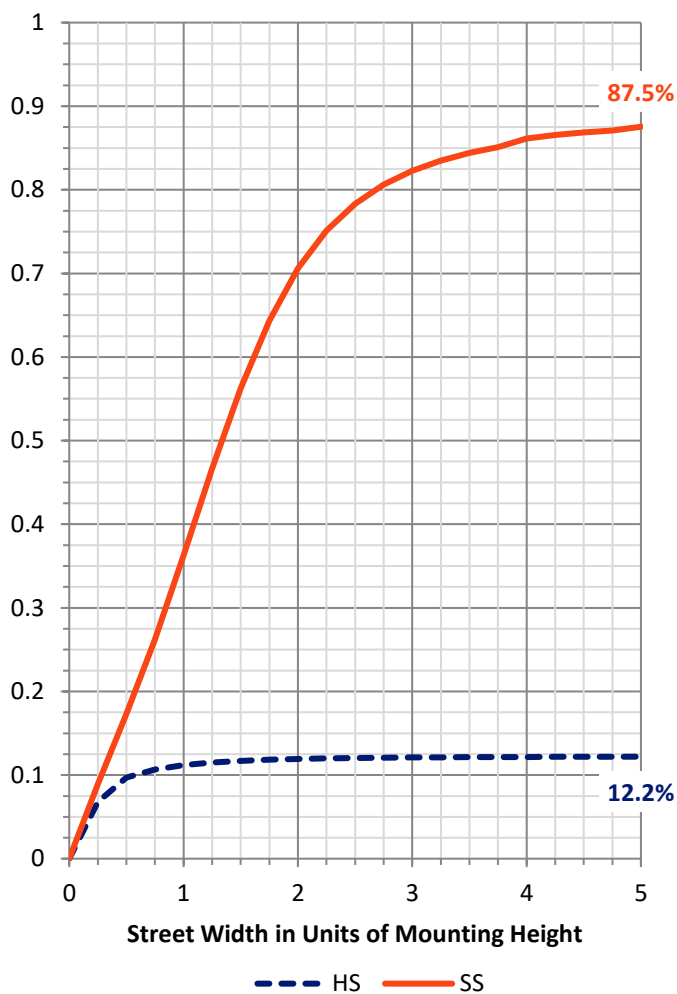
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3196.3	0.0	3196.3
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	22706.3	0.0	22706.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	25902.6	0.0	25902.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	0.5
10°-20°	451.6	1.7
20°-30°	981.7	3.8
30°-40°	1611.3	6.2
40°-50°	2962.1	11.4
50°-60°	6361.3	24.6
60°-70°	8544.2	33.0
70°-80°	4449.1	17.2
80°-90°	421.9	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°	25902.6	100.0
0°-180°	25902.6	100.0

Coefficient of Utilization



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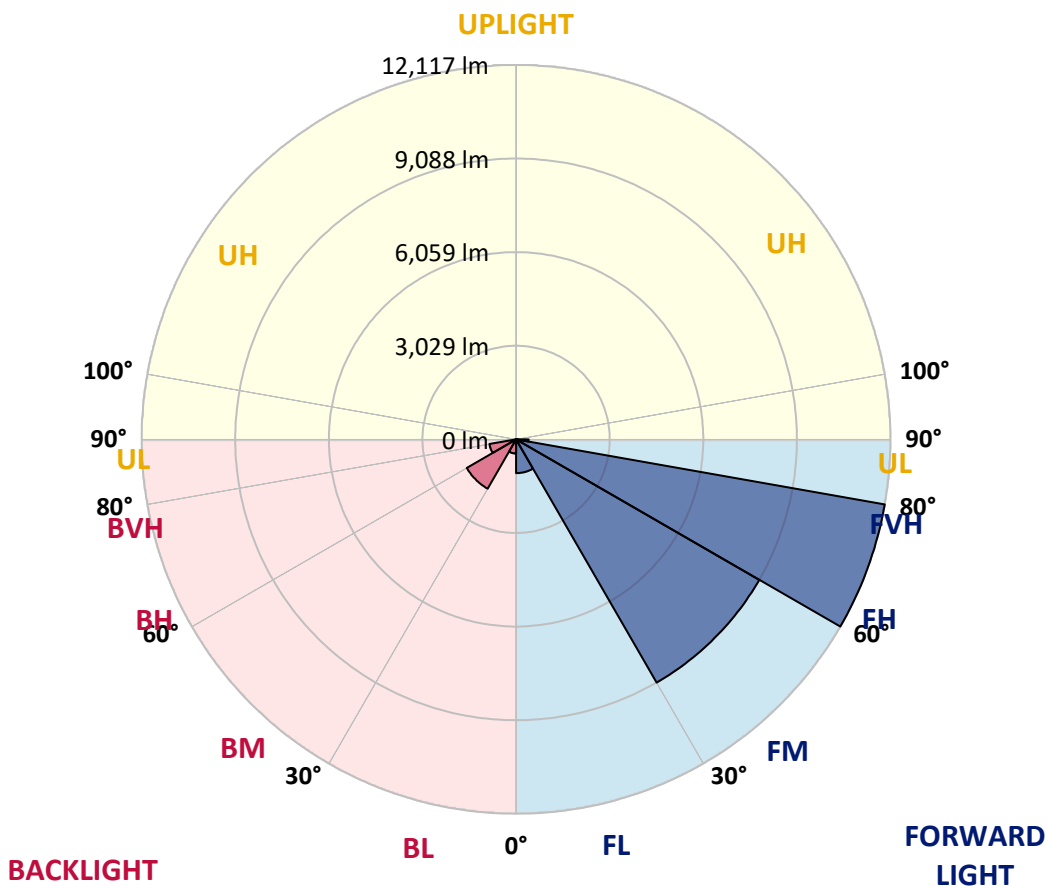
CATALOG NUMBER: GWS-SA5F-740-U-SLR-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.3	4.2			
FM (30°-60°)	9091.5	35.1			
FH (60°-80°)	12117.5	46.8			G5
FVH (80°-90°)	403.0	1.6			G3/500
BL (0°-30°)	458.5	1.8	B1/500		
BM (30°-60°)	1843.2	7.1	B2/2500		
BH (60°-80°)	875.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	18.8	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4
2.5°	1373.3	1379.3	1385.3	1406.2	1421.2	1433.2	1436.2	1427.2	1406.2	1385.3	1355.4
5°	1331.4	1337.4	1358.4	1415.2	1472.1	1516.9	1531.9	1522.9	1472.1	1406.2	1337.4
7.5°	1328.4	1340.4	1391.3	1511.0	1633.6	1726.4	1750.3	1729.4	1633.6	1502.0	1361.4
10°	1436.2	1457.1	1531.9	1747.3	1971.7	2136.3	2202.1	2112.3	1959.7	1720.4	1490.0
12.5°	1717.4	1753.3	1896.9	2211.1	2558.1	2776.6	2866.3	2755.6	2516.3	2169.2	1804.2
15°	2160.2	2214.1	2429.5	2899.2	3309.1	3503.6	3533.5	3470.7	3192.4	2809.5	2318.8
17.5°	2785.5	2863.3	3198.4	3677.1	3973.4	4042.2	4033.2	3967.4	3763.9	3500.6	3036.9
20°	3533.5	3626.3	3955.4	4350.3	4380.3	4299.5	4254.6	4215.7	4146.9	4102.0	3740.0
22.5°	4287.5	4401.2	4745.3	4844.0	4574.7	4341.4	4230.7	4260.6	4362.3	4583.7	4437.1
25°	5038.5	5146.2	5469.3	5203.1	4664.5	4275.5	4134.9	4206.7	4449.1	4927.8	5116.3
27.5°	5915.2	5995.9	6187.4	5448.4	4679.5	4221.7	4084.1	4194.8	4491.0	5143.2	5861.3
30°	6827.7	6875.6	6782.8	5514.2	4628.6	4140.9	4033.2	4194.8	4562.8	5286.8	6420.8
32.5°	7497.9	7506.9	7204.7	5520.2	4601.7	4075.1	3985.3	4176.8	4631.6	5406.5	6962.3
35°	8189.1	8144.2	7608.6	5610.0	4673.5	4099.0	4021.2	4227.7	4739.3	5547.1	7438.1
37.5°	8889.2	8808.4	8060.4	5756.6	4859.0	4359.3	4311.4	4488.0	4912.8	5741.6	7961.7
40°	9607.3	9496.6	8530.1	5978.0	5271.9	5244.9	5409.5	5388.6	5388.6	5990.0	8500.2
42.5°	10483.9	10355.3	9224.3	6603.3	6235.3	6836.7	7285.5	7007.2	6492.6	6561.4	9200.4
45°	11641.8	11531.1	10427.1	7800.1	7746.2	9128.5	9732.9	9182.4	7901.8	7880.9	10370.2
47.5°	13493.9	13472.9	12344.9	9188.4	9595.3	12045.7	13212.6	12153.4	9508.5	9278.1	12584.3
50°	16096.9	16034.0	14735.5	10816.0	11794.4	15660.0	17742.5	15977.2	11450.3	10908.8	15549.3
52.5°	19029.0	19094.8	18083.6	12593.3	14131.1	19681.3	22580.5	20357.5	13559.7	12982.2	19280.3
55°	21790.6	22167.6	21901.3	14672.7	16414.0	24121.4	27894.3	25162.6	16171.7	15696.0	23463.1
57.5°	23950.8	25013.0	26880.0	17694.6	19097.8	29315.5	33827.4	30371.6	19220.5	20103.1	29156.9
60°	24070.5	25476.7	29812.1	24016.7	22550.6	33770.5	39751.5	35461.0	24013.7	27586.1	33617.9
62.5°	22266.3	23774.3	27903.2	26889.0	26311.5	37561.4	42791.4	39171.1	28729.0	31969.4	32295.5
65°	20201.9	21724.8	25773.0	23630.7	25874.7	37399.8	42019.4	39257.8	29156.9	28989.3	29928.8
67.5°	17081.2	18448.6	22113.8	20917.0	23849.1	35595.6	38453.0	36783.5	26862.0	27113.4	27532.2
70°	12467.6	13784.1	17186.0	17245.8	20827.2	32343.4	33040.5	32810.1	24737.7	25004.0	23807.2
72.5°	9005.9	10115.9	13051.0	14143.1	16626.5	27122.3	26640.6	27529.2	21225.1	22269.3	19121.8
75°	6474.7	7306.4	9574.4	12303.0	13179.7	20142.0	19070.9	21320.9	17030.4	19175.6	14376.5
77.5°	2627.0	2920.2	3766.9	8287.8	8661.8	13550.7	11674.7	15486.5	12141.5	12599.2	6968.3
80°	107.7	119.7	155.6	4278.5	5939.1	7623.6	6247.3	8278.8	8018.5	5074.4	1645.6
82.5°	12.0	12.0	26.9	1232.7	2600.0	4206.7	2944.1	4769.2	4060.1	2151.2	748.0
85°	3.0	3.0	6.0	140.6	610.4	673.2	397.9	1463.1	1887.9	879.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	26.9	29.9	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°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4
2.5°	1355.4	1340.4	1322.5	1304.5	1295.5	1271.6	1262.6	1256.6	1250.6	1253.6	1253.6
5°	1310.5	1277.6	1238.7	1199.8	1178.8	1154.9	1142.9	1137.0	1139.9	1151.9	1151.9
7.5°	1304.5	1241.7	1157.9	1107.0	1083.1	1065.1	1053.2	1047.2	1050.2	1065.1	1071.1
10°	1403.2	1292.5	1142.9	1056.2	1029.2	1011.3	999.3	990.3	984.4	996.3	999.3
12.5°	1615.7	1463.1	1214.7	1050.2	1002.3	978.4	969.4	951.5	942.5	948.5	951.5
15°	2055.5	1792.2	1358.4	1074.1	978.4	951.5	936.5	921.5	906.6	903.6	906.6
17.5°	2630.0	2253.0	1576.8	1131.0	960.4	927.5	906.6	885.6	864.7	861.7	858.7
20°	3342.0	2818.4	1882.0	1220.7	945.5	906.6	876.7	846.7	819.8	810.8	810.8
22.5°	3991.3	3500.6	2273.9	1331.4	924.5	876.7	840.7	804.8	774.9	760.0	757.0
25°	4784.2	4224.7	2743.6	1460.1	894.6	837.8	798.9	763.0	733.0	715.1	709.1
27.5°	5583.0	4987.6	3276.2	1627.6	858.7	798.9	763.0	730.0	697.1	676.2	670.2
30°	6358.0	5810.4	3874.6	1837.1	831.8	760.0	730.0	697.1	667.2	634.3	625.3
32.5°	7189.7	6651.2	4544.8	2070.5	810.8	733.0	700.1	670.2	631.3	601.4	586.4
35°	7991.6	7518.9	5283.8	2297.8	789.9	709.1	673.2	643.3	601.4	568.5	547.5
37.5°	8799.4	8401.5	6055.8	2435.5	760.0	676.2	643.3	619.3	571.5	532.6	508.6
40°	9655.1	9314.0	6890.5	2378.6	733.0	640.3	622.3	595.4	541.5	496.7	466.7
42.5°	10594.6	10184.7	7740.3	2160.2	709.1	610.4	592.4	565.5	514.6	460.8	421.9
45°	11776.5	11139.2	8437.4	1831.1	721.1	580.4	544.5	538.6	490.7	421.9	374.0
47.5°	13808.0	12605.2	8978.9	1618.7	801.9	547.5	505.6	520.6	469.7	383.0	329.1
50°	16916.7	15034.7	9484.6	1603.7	924.5	532.6	469.7	508.6	448.8	344.1	290.2
52.5°	19878.7	17503.1	9807.7	1735.4	1032.2	571.5	433.8	493.7	433.8	317.2	263.3
55°	22712.2	18927.3	9230.3	1831.1	1134.0	688.2	406.9	469.7	415.9	302.2	254.3
57.5°	25767.0	19561.6	7267.5	2025.6	1205.8	786.9	412.9	433.8	391.9	293.2	251.3
60°	26679.5	18750.8	4386.2	2279.9	1166.9	816.8	457.8	386.0	359.0	275.3	242.4
62.5°	25261.3	16826.9	2588.1	2076.4	1134.0	771.9	523.6	356.0	326.1	251.3	224.4
65°	23140.0	14214.9	1687.5	1753.3	1202.8	688.2	556.5	341.1	296.2	227.4	197.5
67.5°	20716.5	11450.3	1181.8	1035.2	1110.0	619.3	469.7	338.1	266.3	191.5	161.6
70°	17449.3	8575.0	831.8	685.2	924.5	550.5	365.0	329.1	233.4	155.6	125.7
72.5°	13481.9	5367.6	619.3	442.8	658.2	448.8	290.2	278.3	188.5	128.7	95.7
75°	9942.4	3060.8	436.8	320.1	433.8	341.1	215.4	197.5	161.6	122.7	86.8
77.5°	5191.1	1531.9	272.3	245.3	248.3	212.4	155.6	143.6	149.6	122.7	80.8
80°	996.3	305.2	164.6	179.5	134.6	134.6	113.7	119.7	131.6	98.7	68.8
82.5°	415.9	65.8	89.8	101.7	83.8	92.8	92.8	95.7	92.8	71.8	50.9
85°	0.0	0.0	38.9	41.9	56.8	56.8	47.9	47.9	47.9	41.9	29.9
87.5°	0.0	0.0	0.0	0.0	3.0	9.0	18.0	20.9	23.9	18.0	12.0
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°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4
2.5°	1250.6	1244.7	1253.6	1259.6	1265.6	1265.6	1259.6	1253.6	1244.7	1253.6	1244.7
5°	1154.9	1163.9	1178.8	1184.8	1190.8	1178.8	1172.9	1154.9	1139.9	1142.9	1137.0
7.5°	1080.1	1089.1	1107.0	1119.0	1119.0	1113.0	1095.1	1077.1	1053.2	1053.2	1050.2
10°	1011.3	1023.3	1044.2	1059.2	1065.1	1059.2	1041.2	1017.3	996.3	996.3	987.4
12.5°	954.4	969.4	993.3	1014.3	1020.3	1014.3	996.3	972.4	948.5	948.5	942.5
15°	906.6	924.5	951.5	975.4	984.4	975.4	954.4	924.5	900.6	903.6	894.6
17.5°	861.7	876.7	912.6	939.5	948.5	939.5	912.6	873.7	849.7	855.7	849.7
20°	810.8	828.8	864.7	894.6	903.6	894.6	864.7	822.8	798.9	798.9	801.9
22.5°	757.0	774.9	810.8	831.8	843.7	834.8	804.8	765.9	742.0	742.0	745.0
25°	709.1	718.1	745.0	765.9	768.9	760.0	736.0	706.1	688.2	697.1	700.1
27.5°	664.2	664.2	676.2	688.2	685.2	676.2	667.2	643.3	640.3	649.3	658.2
30°	616.3	601.4	595.4	586.4	583.4	580.4	589.4	589.4	595.4	607.4	616.3
32.5°	574.5	544.5	517.6	490.7	475.7	487.7	511.6	532.6	553.5	571.5	580.4
35°	526.6	478.7	433.8	397.9	374.0	391.9	430.8	469.7	505.6	529.6	544.5
37.5°	478.7	409.9	356.0	311.2	293.2	308.2	350.1	403.9	457.8	487.7	508.6
40°	427.9	341.1	278.3	242.4	224.4	239.4	281.2	335.1	406.9	445.8	472.7
42.5°	377.0	281.2	224.4	188.5	179.5	188.5	221.4	275.3	353.1	400.9	436.8
45°	326.1	233.4	179.5	152.6	143.6	152.6	179.5	224.4	302.2	356.0	397.9
47.5°	281.2	197.5	149.6	125.7	119.7	128.7	149.6	188.5	254.3	308.2	356.0
50°	245.3	173.5	128.7	107.7	101.7	110.7	128.7	158.6	215.4	263.3	314.2
52.5°	221.4	161.6	113.7	92.8	89.8	95.7	110.7	134.6	182.5	224.4	272.3
55°	215.4	161.6	104.7	83.8	80.8	86.8	98.7	116.7	158.6	194.5	236.4
57.5°	221.4	173.5	98.7	71.8	68.8	74.8	86.8	101.7	137.6	167.6	206.4
60°	221.4	176.5	86.8	56.8	53.9	59.8	71.8	89.8	122.7	146.6	179.5
62.5°	200.5	161.6	71.8	44.9	38.9	44.9	59.8	74.8	107.7	131.6	158.6
65°	173.5	137.6	59.8	32.9	26.9	32.9	47.9	62.8	92.8	113.7	143.6
67.5°	140.6	104.7	44.9	23.9	18.0	23.9	35.9	50.9	77.8	98.7	128.7
70°	104.7	74.8	35.9	20.9	18.0	20.9	32.9	47.9	68.8	89.8	119.7
72.5°	77.8	50.9	29.9	20.9	15.0	20.9	29.9	44.9	65.8	86.8	113.7
75°	65.8	41.9	26.9	18.0	15.0	18.0	26.9	41.9	59.8	80.8	107.7
77.5°	62.8	38.9	23.9	15.0	12.0	15.0	23.9	35.9	53.9	74.8	104.7
80°	53.9	32.9	20.9	12.0	9.0	12.0	20.9	29.9	41.9	56.8	80.8
82.5°	41.9	26.9	15.0	6.0	3.0	6.0	15.0	18.0	26.9	32.9	47.9
85°	26.9	15.0	6.0	0.0	0.0	0.0	6.0	12.0	12.0	15.0	23.9
87.5°	12.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.0	9.0
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°	359°	360°
0°	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4	1346.4
2.5°	1262.6	1265.6	1271.6	1280.6	1301.5	1319.5	1337.4	1361.4	1373.3	1373.3
5°	1142.9	1145.9	1148.9	1160.9	1190.8	1214.7	1253.6	1301.5	1325.4	1331.4
7.5°	1050.2	1056.2	1062.2	1071.1	1101.1	1134.0	1184.8	1274.6	1319.5	1328.4
10°	996.3	1005.3	1017.3	1035.2	1062.2	1098.1	1184.8	1346.4	1421.2	1436.2
12.5°	954.4	969.4	981.4	1002.3	1035.2	1092.1	1265.6	1549.8	1681.5	1717.4
15°	912.6	930.5	948.5	969.4	1005.3	1113.0	1421.2	1914.9	2133.3	2160.2
17.5°	870.7	891.6	915.5	939.5	984.4	1163.9	1666.5	2420.5	2725.7	2785.5
20°	822.8	849.7	882.6	912.6	963.4	1244.7	2007.6	3021.9	3404.9	3533.5
22.5°	771.9	804.8	843.7	882.6	939.5	1343.4	2420.5	3668.2	4203.7	4287.5
25°	730.0	763.0	798.9	837.8	900.6	1463.1	2920.2	4470.0	4957.7	5038.5
27.5°	691.1	724.1	757.0	792.9	861.7	1618.7	3521.6	5322.7	5831.4	5915.2
30°	649.3	688.2	721.1	757.0	825.8	1810.2	4215.7	6268.2	6749.9	6827.7
32.5°	613.4	652.3	685.2	721.1	798.9	2019.6	4945.8	7106.0	7497.9	7497.9
35°	583.4	625.3	649.3	697.1	777.9	2154.2	5636.9	7904.8	8201.0	8189.1
37.5°	550.5	601.4	619.3	652.3	751.0	2169.2	6286.2	8748.6	8967.0	8889.2
40°	517.6	571.5	598.4	616.3	721.1	2046.5	6998.3	9523.5	9709.0	9607.3
42.5°	487.7	529.6	568.5	589.4	703.1	1831.1	7569.7	10352.3	10573.7	10483.9
45°	457.8	493.7	517.6	556.5	715.1	1681.5	8060.4	11318.7	11707.6	11641.8
47.5°	427.9	457.8	472.7	532.6	795.9	1612.7	8359.6	12814.7	13547.7	13493.9
50°	394.9	430.8	430.8	526.6	915.5	1636.6	8619.9	14980.9	16114.8	16096.9
52.5°	362.0	400.9	394.9	571.5	1008.3	1747.3	8916.1	16892.7	18864.5	19029.0
55°	329.1	365.0	371.0	661.2	1062.2	1843.1	7770.2	17697.6	21213.2	21790.6
57.5°	293.2	314.2	386.0	730.0	1044.2	2121.3	5322.7	17844.2	22712.2	23950.8
60°	254.3	272.3	436.8	715.1	987.4	1959.7	3351.0	16527.7	22499.7	24070.5
62.5°	221.4	251.3	460.8	631.3	1005.3	1699.4	2136.3	14086.3	20474.1	22266.3
65°	194.5	242.4	418.9	571.5	1017.3	1151.9	1442.1	11459.3	18496.4	20201.9
67.5°	173.5	269.3	344.1	508.6	873.7	810.8	990.3	8904.1	15552.3	17081.2
70°	158.6	275.3	281.2	436.8	676.2	520.6	652.3	5992.9	10720.3	12467.6
72.5°	143.6	203.5	212.4	350.1	436.8	317.2	421.9	3428.8	7815.1	9005.9
75°	137.6	137.6	146.6	227.4	242.4	230.4	272.3	2046.5	5604.0	6474.7
77.5°	128.7	104.7	92.8	146.6	131.6	164.6	161.6	909.6	2429.5	2627.0
80°	101.7	74.8	62.8	92.8	89.8	110.7	95.7	74.8	110.7	107.7
82.5°	62.8	47.9	44.9	56.8	50.9	56.8	44.9	12.0	12.0	12.0
85°	29.9	26.9	23.9	23.9	26.9	23.9	18.0	6.0	3.0	3.0
87.5°	15.0	15.0	12.0	9.0	12.0	12.0	9.0	3.0	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)