

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: P631277

Luminaire Tested: GWS-SA1F-735-U-SLL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-37)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-SLL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7787.9 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

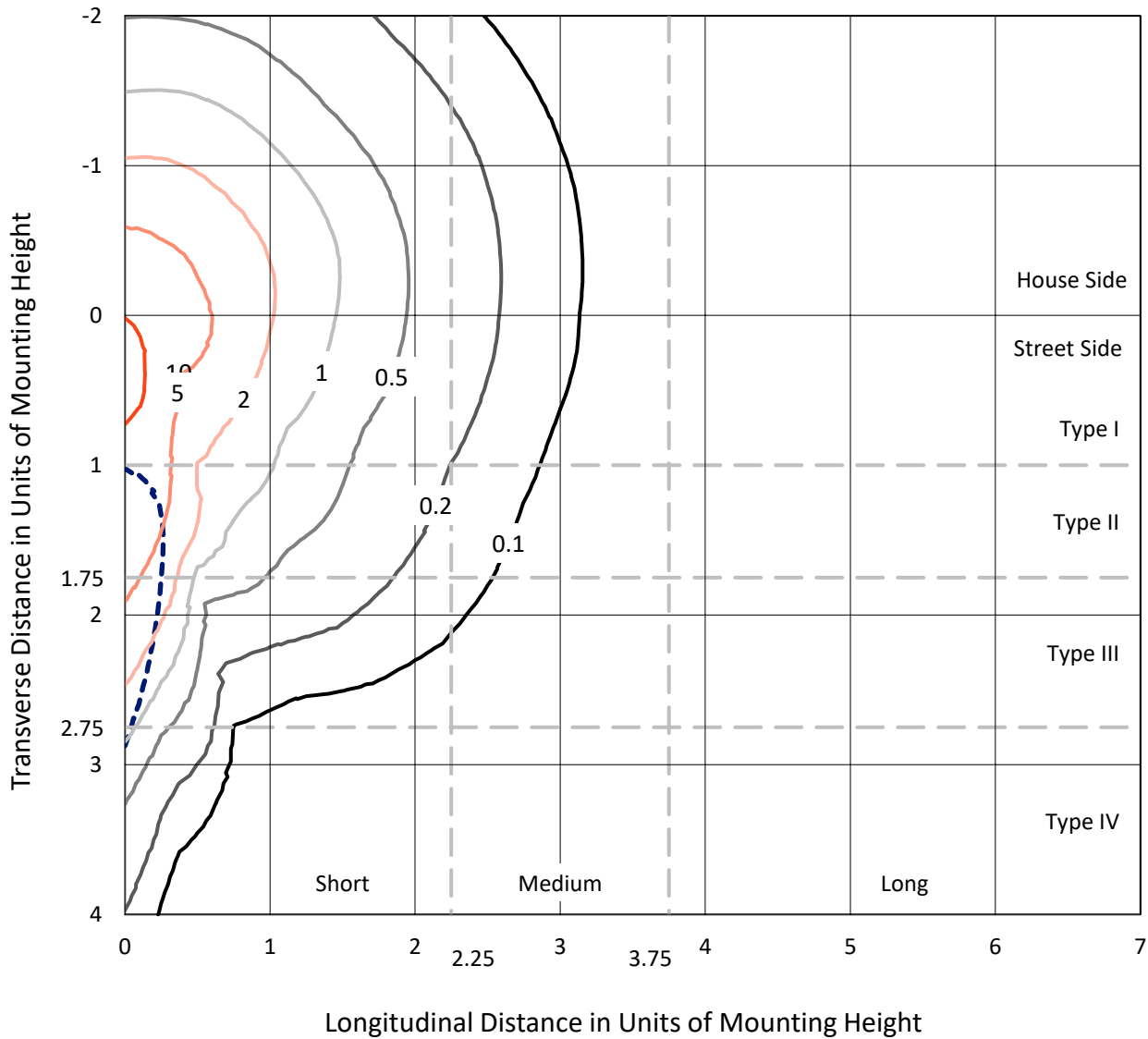
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

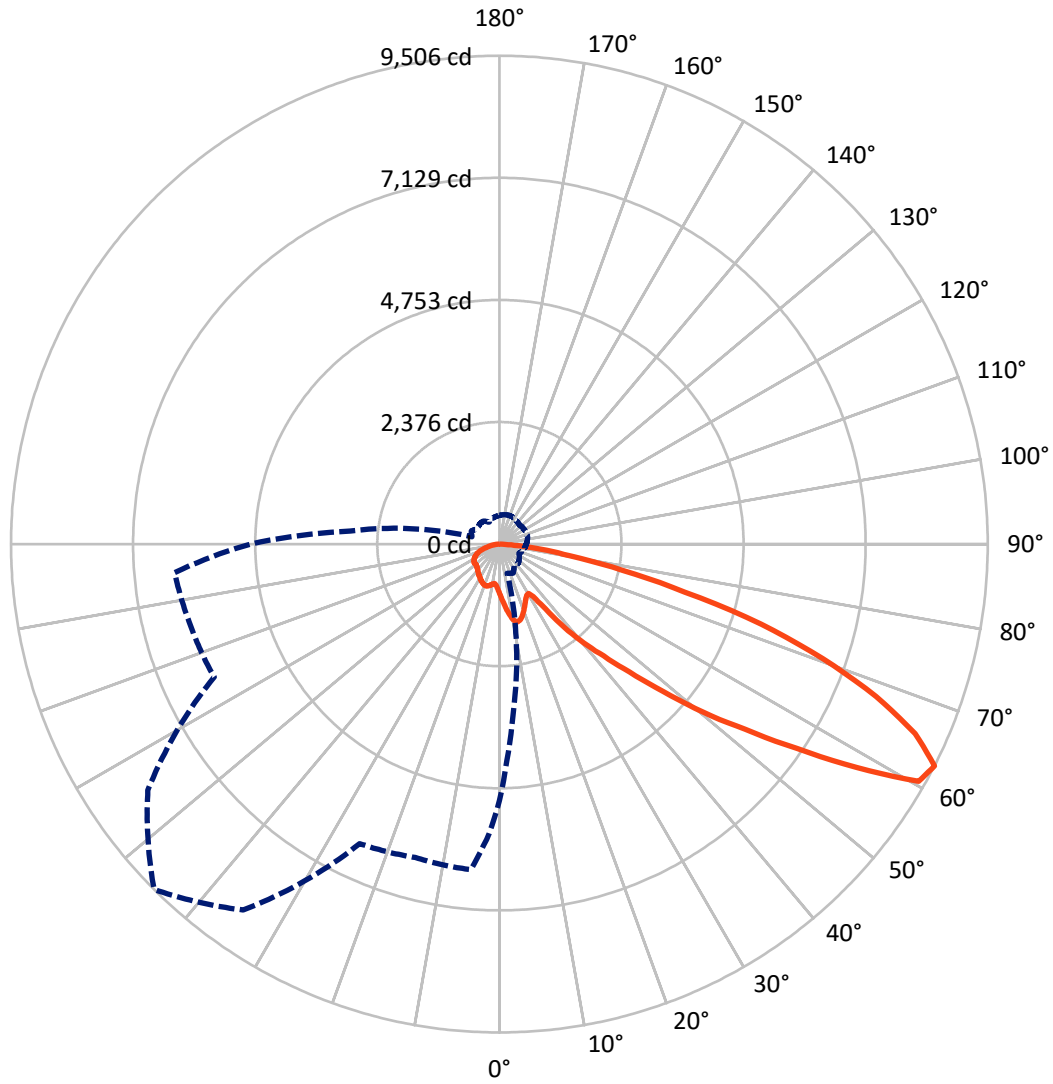
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 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	1862.1	0.0	1862.1
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	5925.8	0.0	5925.8
	% Fixture	76.1	0.0	76.1
Total	Lumens	7787.9	0.0	7787.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.2
10°-20°	310.9	4.0
20°-30°	489.4	6.3
30°-40°	670.8	8.6
40°-50°	1046.7	13.4
50°-60°	1804.7	23.2
60°-70°	2091.4	26.9
70°-80°	1103.9	14.2
80°-90°	174.4	2.2
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°	7787.9	100.0
0°-180°	7787.9	100.0

Coefficient of Utilization



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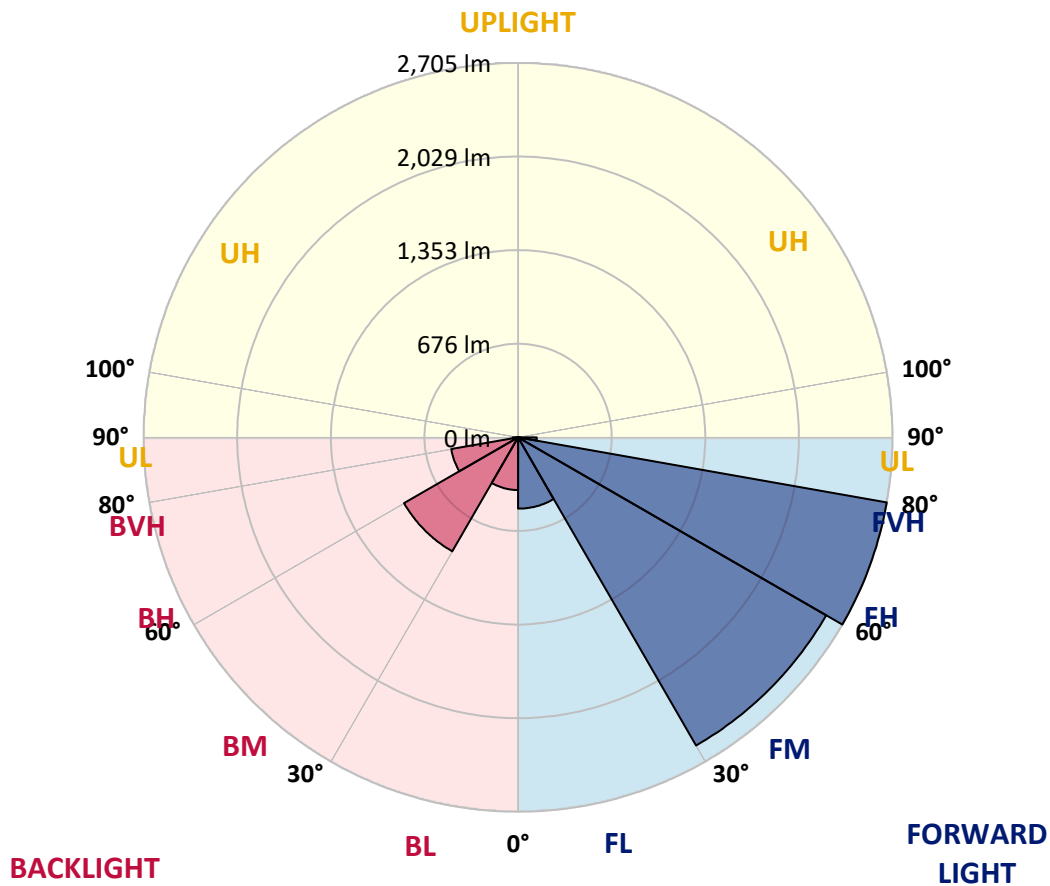
CATALOG NUMBER: GWS-SA1F-735-U-SLL-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.1	6.6			
FM (30°-60°)	2571.1	33.0			
FH (60°-80°)	2705.1	34.7			G2/5000
FVH (80°-90°)	134.6	1.7			G2/225
BL (0°-30°)	380.9	4.9	B1/500		
BM (30°-60°)	951.1	12.2	B1/1000		
BH (60°-80°)	490.3	6.3	B1/500		G1/500
BVH (80°-90°)	39.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0
2.5°	1055.0	1050.8	1044.9	1024.6	1012.1	997.8	982.9	965.6	946.0	932.3	918.6
5°	1144.3	1137.8	1123.5	1075.2	1041.9	1005.5	975.2	940.6	906.7	883.4	860.2
7.5°	1230.1	1221.8	1199.7	1125.9	1071.7	1019.2	973.4	923.3	872.7	838.1	810.7
10°	1315.9	1298.6	1270.6	1174.1	1102.6	1041.9	989.5	928.1	860.8	813.7	784.5
12.5°	1381.4	1365.3	1335.0	1218.2	1133.6	1057.4	998.4	941.8	884.6	834.6	804.8
15°	1442.8	1421.9	1387.4	1259.3	1159.2	1056.8	980.5	931.1	922.7	910.2	871.5
17.5°	1486.9	1467.8	1432.1	1292.7	1173.5	1038.3	931.1	901.9	939.4	977.5	940.6
20°	1525.6	1503.5	1467.2	1315.9	1176.5	997.2	870.9	871.5	930.5	982.9	974.0
22.5°	1558.3	1533.9	1501.8	1342.1	1175.3	940.0	818.5	854.2	913.2	954.3	955.5
25°	1598.9	1578.6	1551.8	1380.8	1175.3	881.6	780.4	833.4	884.0	918.6	917.4
27.5°	1648.3	1634.6	1612.6	1439.8	1186.0	832.8	758.9	806.6	846.5	876.3	875.7
30°	1703.7	1691.2	1674.5	1502.4	1204.5	796.4	747.0	773.2	802.4	826.2	826.2
32.5°	1760.3	1755.5	1737.7	1552.4	1190.2	785.1	736.9	739.9	755.3	775.0	773.2
35°	1838.9	1834.2	1811.5	1591.1	1128.3	769.0	720.8	705.9	707.7	720.2	724.4
37.5°	1953.9	1946.7	1913.4	1636.4	1034.7	728.5	694.6	670.2	664.8	670.2	677.9
40°	2092.7	2082.0	2036.7	1697.7	926.9	673.7	653.5	633.2	624.3	626.1	635.0
42.5°	2266.6	2244.0	2179.1	1762.7	820.3	625.5	607.6	595.1	585.0	583.8	601.1
45°	2549.0	2487.0	2384.0	1820.5	730.3	599.9	566.5	557.6	549.2	554.0	574.3
47.5°	3042.2	2927.9	2727.1	1869.9	675.5	600.5	533.7	524.2	523.6	533.2	555.8
50°	3720.1	3555.1	3245.4	1903.3	646.9	607.6	514.1	498.6	509.9	519.4	540.9
52.5°	4369.5	4117.5	3748.7	1902.7	634.4	608.8	519.4	474.8	509.9	512.3	532.6
55°	4924.1	4467.7	3884.6	1707.3	616.5	604.0	540.3	456.3	503.4	512.3	528.4
57.5°	5364.9	4690.5	3874.4	1379.0	670.8	577.8	552.8	452.1	484.3	513.5	532.0
60°	5316.0	4588.7	3624.8	846.5	665.4	531.4	551.0	459.9	452.1	497.4	527.8
62.5°	4991.4	4223.5	3195.3	587.4	624.9	504.6	521.8	473.6	422.4	474.2	507.5
65°	4536.8	3752.3	2662.8	450.3	517.7	505.7	472.4	464.0	396.1	437.2	473.0
67.5°	3935.8	3167.9	2102.2	356.8	361.0	437.8	428.9	412.2	371.7	404.5	436.6
70°	2958.8	2311.9	1446.4	287.1	273.4	365.8	385.4	370.5	347.9	357.4	391.4
72.5°	2084.9	1509.5	792.3	227.6	210.9	281.2	334.8	332.4	307.4	314.5	347.9
75°	1549.4	1068.1	495.0	179.9	171.6	201.3	280.6	287.7	266.9	275.2	300.8
77.5°	1031.2	691.6	275.2	133.4	133.4	147.1	209.1	242.4	227.0	233.5	251.4
80°	568.9	352.1	137.6	87.6	90.0	101.3	152.5	174.5	175.1	191.2	196.0
82.5°	179.9	112.0	61.4	51.2	48.3	57.8	98.3	125.1	116.8	148.9	137.0
85°	41.1	26.2	11.3	11.3	12.5	19.1	37.5	66.7	85.2	102.5	74.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	26.2	38.7	34.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0
2.5°	910.2	898.3	894.7	884.6	883.4	873.9	870.3	870.3	874.5	874.5	878.7
5°	850.7	835.8	827.4	815.5	812.5	805.4	800.6	801.2	806.6	810.2	817.3
7.5°	798.2	788.1	782.2	776.8	775.6	774.4	769.0	768.5	770.2	775.6	781.0
10°	776.2	769.0	770.8	775.0	781.6	785.1	780.4	778.0	776.2	779.8	784.5
12.5°	797.6	790.5	794.1	801.2	810.2	813.7	811.9	811.3	813.1	826.8	837.0
15°	844.7	831.0	826.2	829.2	836.4	839.9	838.1	840.5	851.9	887.6	913.2
17.5°	903.1	869.7	850.7	845.3	848.3	851.3	851.3	857.2	876.9	929.3	961.5
20°	934.7	891.2	859.0	845.9	847.1	850.1	850.1	858.4	880.4	936.4	957.3
22.5°	926.3	886.4	847.1	832.8	833.4	835.8	835.8	842.9	862.6	912.0	921.5
25°	893.5	858.4	819.7	807.2	808.4	812.5	811.3	815.5	830.4	870.9	876.3
27.5°	854.2	823.3	785.1	775.6	781.0	789.3	782.2	782.7	796.4	830.4	831.0
30°	811.9	786.3	752.4	745.2	755.3	759.5	753.0	753.0	766.7	789.9	789.3
32.5°	766.1	750.0	725.6	717.8	729.1	735.7	727.3	728.5	739.3	754.8	748.8
35°	723.2	714.8	703.5	698.2	705.3	711.3	705.9	708.3	718.4	722.6	714.2
37.5°	682.1	680.9	682.1	682.1	683.9	685.6	682.1	688.0	697.0	691.6	682.1
40°	646.3	651.1	662.4	659.4	657.7	659.4	657.1	667.2	676.1	666.6	655.3
42.5°	616.5	625.5	642.8	642.8	639.2	640.4	639.2	651.7	658.2	645.1	632.6
45°	590.9	604.0	626.1	629.1	623.1	623.1	625.5	641.0	643.4	625.5	612.4
47.5°	573.1	589.1	614.2	619.5	610.6	610.0	616.5	633.2	633.2	612.4	597.5
50°	560.6	578.4	608.2	615.4	606.4	604.0	614.8	630.8	627.3	602.3	587.4
52.5°	552.2	570.7	607.6	617.7	611.8	609.4	620.1	631.4	622.5	595.7	580.2
55°	546.9	567.1	609.4	617.7	611.2	607.0	617.7	627.9	623.1	592.1	577.2
57.5°	549.8	570.1	607.0	611.2	603.4	596.3	608.8	623.1	621.3	593.3	578.4
60°	545.1	563.5	593.9	595.1	582.0	570.7	589.1	610.6	610.6	589.1	576.0
62.5°	523.0	541.5	568.3	569.5	554.6	542.1	563.5	589.1	588.6	571.3	557.6
65°	486.7	504.0	534.3	537.3	522.4	509.3	531.4	555.2	557.0	541.5	529.6
67.5°	446.8	462.3	484.9	496.8	484.3	470.6	490.9	513.5	512.9	494.4	481.9
70°	399.1	413.4	434.3	444.4	436.6	423.5	442.0	453.9	448.6	439.6	431.3
72.5°	352.1	365.8	385.4	385.4	377.1	364.6	369.9	391.4	397.9	391.4	386.0
75°	302.6	314.5	328.2	331.2	312.7	290.1	315.1	333.6	341.3	338.4	331.8
77.5°	252.0	260.9	281.2	275.8	241.3	229.3	249.6	277.0	282.4	280.6	271.6
80°	194.2	199.6	221.0	210.3	183.5	175.7	184.7	206.1	207.3	201.3	190.0
82.5°	130.5	137.6	151.9	131.1	130.5	123.3	116.2	118.5	129.3	128.1	120.3
85°	66.7	70.3	84.0	78.6	67.3	58.4	55.4	59.0	53.0	48.3	41.7
87.5°	28.0	30.4	41.7	23.2	7.1	0.0	0.0	3.6	5.4	7.7	8.3
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°	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0
2.5°	888.2	894.7	910.8	931.1	950.7	971.0	993.0	1006.7	1023.4	1044.9	1045.5
5°	826.2	841.1	864.4	895.3	927.5	964.4	1007.3	1043.1	1086.0	1119.9	1133.6
7.5°	788.1	809.6	838.7	878.1	920.4	966.2	1022.2	1082.4	1152.7	1198.0	1224.8
10°	791.7	824.4	853.6	887.0	925.1	974.6	1046.6	1126.5	1212.8	1272.4	1305.8
12.5°	855.4	890.0	884.6	882.8	908.4	968.6	1066.3	1171.1	1276.6	1336.2	1376.1
15°	935.8	948.9	898.3	860.2	875.7	947.2	1077.0	1211.1	1329.6	1402.3	1441.6
17.5°	976.9	950.7	889.4	832.2	828.0	914.4	1082.4	1251.6	1389.2	1461.8	1503.5
20°	957.9	919.8	867.9	813.7	783.9	869.7	1079.4	1283.7	1443.4	1524.4	1558.3
22.5°	916.8	883.4	842.9	791.1	748.2	820.9	1071.7	1315.9	1491.6	1573.2	1603.0
25°	872.1	847.1	813.7	768.5	727.9	778.0	1066.3	1358.8	1547.0	1625.1	1644.1
27.5°	827.4	809.0	781.6	746.4	723.2	748.2	1068.1	1414.8	1618.5	1692.4	1684.6
30°	783.3	767.3	748.2	732.7	722.6	741.0	1063.3	1474.4	1697.1	1765.7	1719.8
32.5°	741.6	726.8	714.8	717.2	723.2	744.0	1038.9	1528.6	1769.2	1827.6	1757.9
35°	705.9	690.4	690.4	698.8	720.8	733.9	975.8	1570.9	1849.1	1907.4	1812.1
37.5°	672.5	658.8	667.8	681.5	702.3	706.5	894.7	1612.0	1965.2	2020.0	1896.1
40°	643.4	629.7	645.7	663.0	673.7	671.9	812.5	1669.1	2102.2	2158.8	2007.5
42.5°	620.1	607.6	621.9	644.0	645.7	647.5	752.4	1724.0	2261.3	2333.4	2199.3
45°	601.1	592.1	599.3	621.3	621.3	648.7	714.8	1769.8	2500.7	2628.2	2551.4
47.5°	586.2	580.8	584.4	591.5	603.4	670.2	691.0	1805.0	2936.8	3187.0	3109.6
50°	577.8	572.5	577.2	562.3	598.1	680.9	683.3	1831.8	3511.6	3903.6	3807.7
52.5°	570.7	568.9	571.9	537.3	610.0	673.7	677.3	1796.0	3897.1	4608.9	4703.6
55°	568.3	569.5	555.2	518.9	624.3	649.9	659.4	1540.5	4001.9	5217.1	5805.1
57.5°	569.5	565.9	529.6	520.6	624.9	602.3	685.1	1099.1	3849.4	5481.6	6882.7
60°	565.3	547.4	498.6	536.7	597.5	546.3	666.6	716.6	3447.3	5278.5	6945.3
62.5°	546.9	520.6	471.8	545.7	548.6	512.9	605.2	552.2	2911.2	4843.6	6342.4
65°	520.0	484.9	449.2	527.2	499.2	497.4	455.1	442.6	2341.1	4326.0	5770.5
67.5°	476.0	440.8	432.5	484.9	449.2	440.8	365.8	367.0	1868.1	3774.4	5195.7
70°	425.9	390.8	397.3	438.4	399.7	366.4	296.1	305.6	1417.2	3144.7	4420.7
72.5°	393.2	346.1	346.7	386.0	351.5	296.7	243.6	252.0	899.5	2370.3	3514.6
75°	331.8	305.0	291.9	312.7	298.4	231.1	204.9	203.1	533.2	1698.9	2631.8
77.5°	277.0	256.2	249.6	257.9	222.8	171.0	165.0	162.0	302.0	1088.3	1724.5
80°	200.8	195.4	194.8	199.0	171.6	125.7	125.7	126.3	162.6	590.9	972.2
82.5°	127.5	139.4	123.3	137.0	116.8	89.4	83.4	94.7	93.5	252.0	409.8
85°	53.0	72.7	67.9	72.1	55.4	48.8	52.4	56.6	54.2	97.1	159.6
87.5°	10.1	11.9	13.1	12.5	12.5	15.5	17.3	20.8	20.8	28.0	48.3
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°	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0	971.0
2.5°	1068.1	1085.4	1081.8	1089.5	1079.4	1083.0	1062.7	1057.4	1053.8	1055.0
5°	1177.7	1212.8	1219.4	1232.5	1223.6	1223.6	1187.8	1161.0	1151.5	1144.3
7.5°	1289.1	1339.7	1373.1	1376.7	1371.9	1362.4	1310.5	1262.3	1245.0	1230.1
10°	1388.0	1448.7	1486.3	1504.1	1495.2	1480.3	1416.0	1349.9	1329.0	1315.9
12.5°	1463.6	1517.2	1542.3	1554.2	1553.0	1547.6	1495.2	1423.7	1401.7	1381.4
15°	1512.5	1539.3	1529.8	1529.2	1537.5	1558.9	1542.9	1486.9	1461.3	1442.8
17.5°	1544.1	1518.4	1476.1	1456.5	1474.4	1525.0	1561.9	1530.4	1507.1	1486.9
20°	1555.4	1464.2	1402.9	1366.5	1387.4	1460.7	1551.8	1561.9	1542.3	1525.6
22.5°	1542.3	1398.1	1314.7	1271.8	1292.1	1379.6	1522.0	1587.5	1574.4	1558.3
25°	1510.1	1329.0	1228.9	1190.2	1212.2	1301.6	1469.0	1611.4	1612.0	1598.9
27.5°	1470.2	1265.3	1168.8	1132.4	1153.9	1237.3	1417.2	1632.2	1653.1	1648.3
30°	1429.7	1227.1	1140.2	1114.6	1130.6	1204.5	1364.2	1653.7	1695.4	1703.7
32.5°	1411.2	1245.6	1207.5	1218.8	1198.0	1223.6	1345.1	1684.0	1746.6	1760.3
35°	1435.6	1409.4	1505.9	1550.6	1476.7	1379.6	1369.5	1729.9	1818.7	1838.9
37.5°	1554.2	1760.3	1904.5	2061.7	1933.6	1719.8	1490.4	1807.9	1921.7	1953.9
40°	1812.1	2066.5	2326.8	2529.9	2336.3	2048.6	1720.4	1924.1	2063.5	2092.7
42.5°	2055.2	2353.6	2712.2	2974.9	2723.5	2317.3	1968.2	2119.5	2250.6	2266.6
45°	2293.4	2635.4	3178.7	3543.8	3202.5	2572.8	2221.4	2449.5	2548.4	2549.0
47.5°	2572.8	2952.9	3763.6	4283.7	3838.1	2855.8	2459.0	2971.9	3109.6	3042.2
50°	2907.0	3268.6	4365.9	5144.5	4613.1	3203.7	2761.1	3608.7	3796.4	3720.1
52.5°	3354.4	3616.5	5029.5	5983.8	5457.8	3599.8	3198.9	4449.9	4511.8	4369.5
55°	3984.0	4118.7	5881.3	7020.3	6400.8	4087.7	3839.3	5505.5	5332.1	4924.1
57.5°	5417.9	4913.3	6975.0	8202.8	7467.7	4974.1	5242.7	6669.4	6052.9	5364.9
60°	6617.6	5878.4	7987.1	9376.3	8382.1	5951.0	6560.4	6872.0	6026.1	5316.0
62.5°	6213.1	6124.4	8352.3	9505.6	8694.2	6431.8	6315.6	6361.5	5632.9	4991.4
65°	5451.2	5649.6	8026.5	8892.6	8348.1	6001.1	5712.8	5889.7	5183.2	4536.8
67.5°	5001.5	5147.4	7446.8	7911.5	7719.1	5535.2	5243.9	5115.9	4485.0	3935.8
70°	4541.6	4662.5	6633.1	6680.2	6738.0	4760.8	4287.8	3906.6	3343.1	2958.8
72.5°	3924.5	3931.0	5604.3	5331.5	5441.1	3725.5	3451.5	2920.7	2433.4	2084.9
75°	3292.4	3112.5	4436.2	3726.7	3946.5	2898.1	2865.9	2201.1	1835.3	1549.4
77.5°	2510.3	2300.0	3240.6	2450.7	2771.8	1930.1	2154.6	1492.8	1291.5	1031.2
80°	1685.2	1554.2	1790.7	1383.2	1813.3	1330.2	1405.3	845.9	733.3	568.9
82.5°	888.8	758.9	1106.8	820.3	1093.7	730.9	527.2	261.5	222.8	179.9
85°	344.3	398.5	542.7	291.9	424.1	260.9	152.5	64.9	54.2	41.1
87.5°	66.7	103.1	56.6	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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