

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: P632601

Luminaire Tested: GWS-SA2D-722-U-SLR-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-41)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-722-U-SLR-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
SPILL LIGHT ELIMINATOR RIGHT OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8143.4 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

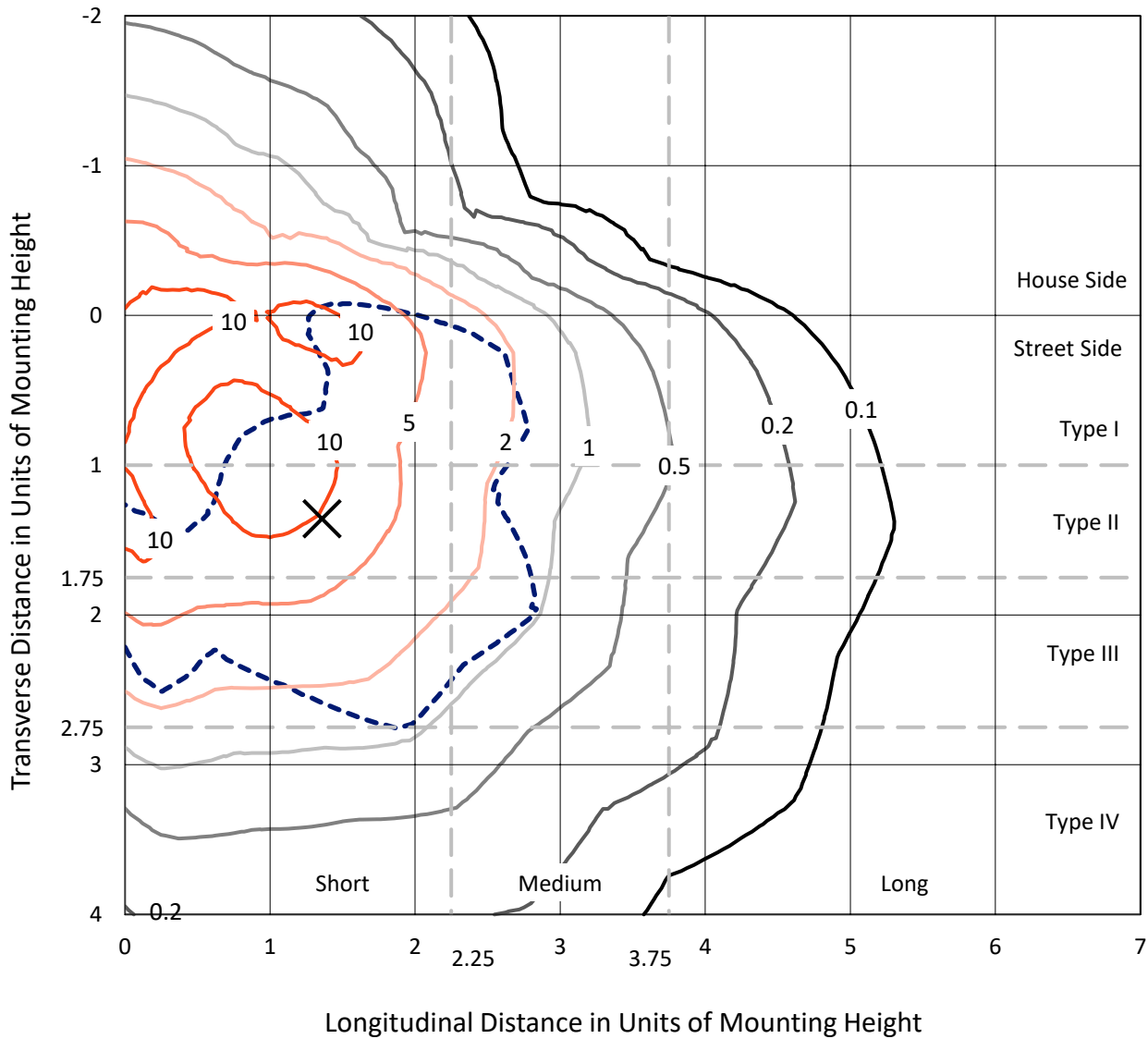
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

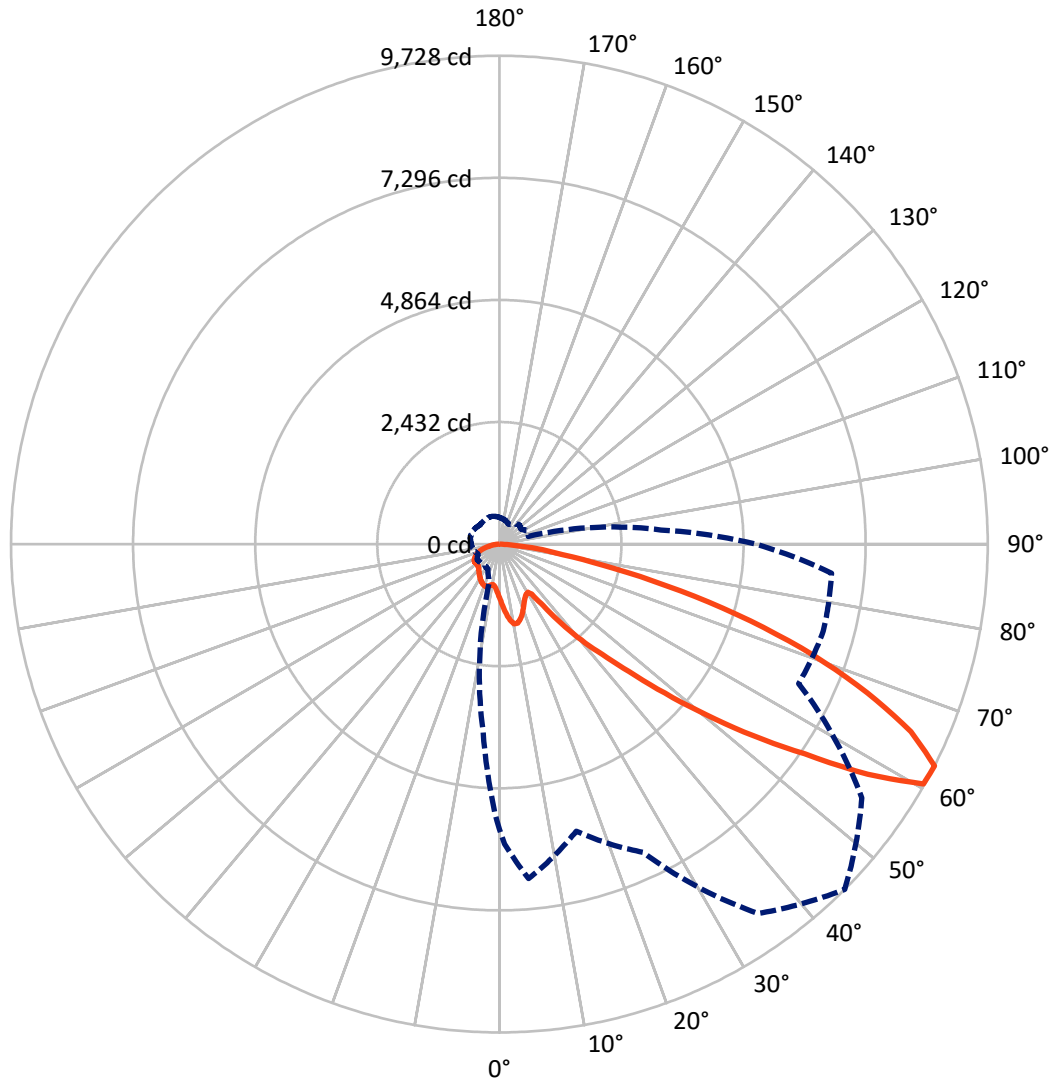
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - 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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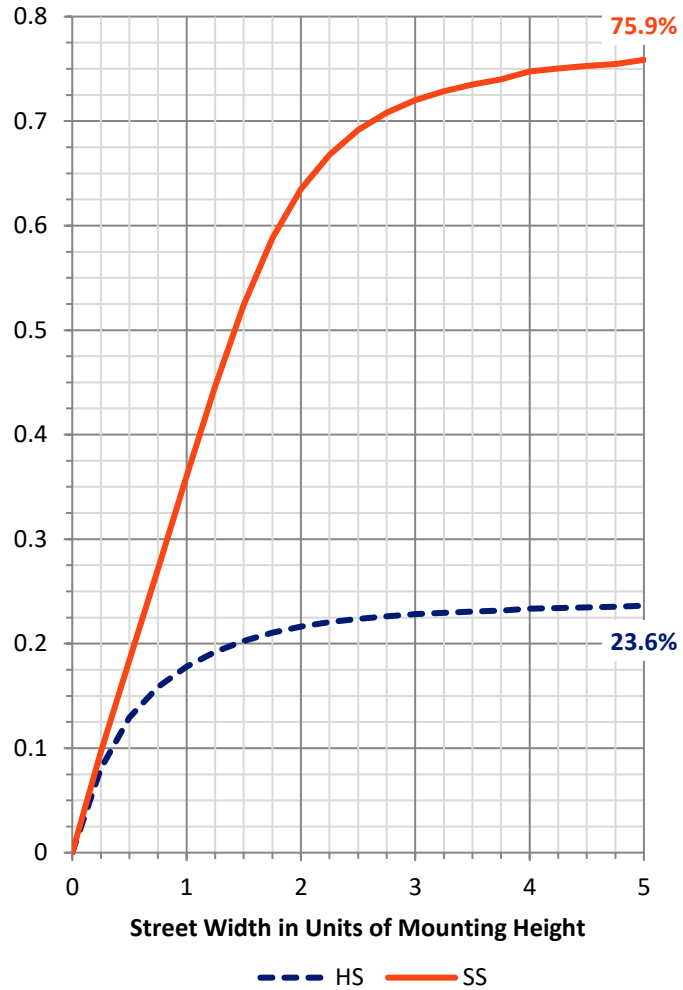
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.2	0.0	1943.2
	% Fixture	23.9	0.0	23.9
Street Side	Lumens	6200.2	0.0	6200.2
	% Fixture	76.1	0.0	76.1
Total	Lumens	8143.4	0.0	8143.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	1.3
10°-20°	330.9	4.1
20°-30°	514.0	6.3
30°-40°	697.8	8.6
40°-50°	1106.0	13.6
50°-60°	1950.9	24.0
60°-70°	2170.7	26.7
70°-80°	1100.9	13.5
80°-90°	166.7	2.0
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°	8143.4	100.0
0°-180°	8143.4	100.0

Coefficient of Utilization



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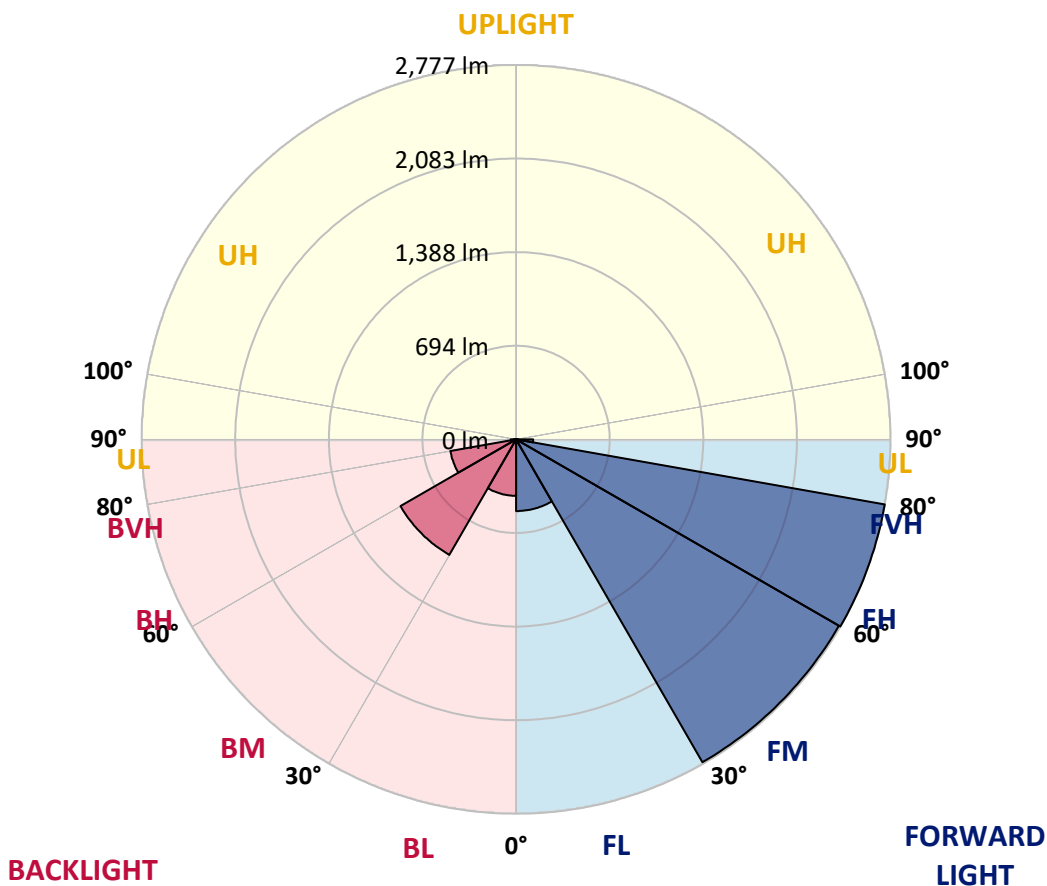
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	531.7	6.5			
FM (30°-60°)	2765.0	34.0			
FH (60°-80°)	2777.0	34.1			G2/5000
FVH (80°-90°)	126.5	1.6			G2/225
BL (0°-30°)	418.7	5.1	B1/500		
BM (30°-60°)	989.7	12.2	B1/1000		
BH (60°-80°)	494.6	6.1	B1/500		G1/500
BVH (80°-90°)	40.2	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°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1161.6	1160.9	1172.7	1190.5	1207.2	1214.6	1226.9	1225.7	1215.8	1202.9	1198.6
5°	1252.8	1255.3	1275.6	1315.1	1358.9	1377.4	1385.4	1382.3	1364.4	1341.6	1301.5
7.5°	1335.4	1339.7	1371.2	1430.4	1484.6	1509.3	1529.0	1525.3	1499.4	1456.9	1397.7
10°	1395.8	1400.8	1438.4	1508.1	1568.5	1590.1	1615.3	1616.6	1593.8	1536.4	1476.0
12.5°	1456.3	1461.2	1496.3	1559.8	1599.3	1599.9	1614.7	1622.7	1624.0	1597.5	1537.0
15°	1519.2	1523.5	1555.5	1591.3	1589.4	1554.9	1554.9	1570.3	1604.2	1623.4	1581.4
17.5°	1572.8	1578.3	1603.0	1591.3	1536.4	1474.1	1466.7	1486.5	1545.7	1619.0	1614.7
20°	1617.2	1621.5	1635.1	1557.4	1457.5	1376.1	1361.9	1384.7	1464.9	1592.5	1640.0
22.5°	1659.7	1662.2	1654.8	1513.0	1372.4	1279.3	1262.1	1286.1	1372.4	1545.7	1661.6
25°	1710.3	1707.8	1672.7	1466.7	1294.7	1202.9	1185.0	1212.1	1302.1	1483.4	1685.0
27.5°	1768.9	1759.6	1688.1	1416.8	1234.9	1146.1	1133.8	1162.8	1246.6	1426.1	1703.5
30°	1818.8	1800.9	1690.6	1372.4	1204.1	1122.1	1114.7	1141.8	1219.5	1387.2	1726.9
32.5°	1874.3	1849.6	1704.7	1360.7	1221.4	1180.1	1189.9	1191.8	1226.9	1376.1	1762.1
35°	1953.8	1921.8	1743.6	1394.6	1398.9	1468.6	1504.4	1456.3	1338.5	1400.8	1828.7
37.5°	2074.0	2033.4	1822.5	1541.4	1765.8	1921.8	2008.1	1898.3	1677.6	1493.9	1929.2
40°	2220.2	2168.4	1923.6	1812.6	2108.6	2358.3	2511.8	2350.9	2026.6	1726.3	2070.3
42.5°	2424.2	2370.0	2119.7	2079.0	2426.1	2797.9	2998.2	2758.4	2334.2	2026.6	2296.6
45°	2780.0	2727.6	2479.1	2345.9	2797.9	3339.2	3620.3	3286.8	2646.8	2328.1	2719.6
47.5°	3437.2	3375.6	3013.0	2641.9	3222.0	4042.0	4435.4	3949.6	2971.7	2673.3	3429.8
50°	4226.4	4167.2	3683.2	2992.1	3690.6	4793.6	5340.5	4728.2	3346.0	3093.2	4278.8
52.5°	5175.9	5164.8	4639.5	3434.7	4178.3	5595.1	6344.8	5590.8	3756.0	3658.6	5240.6
55°	6031.6	6140.1	5854.1	4109.9	4808.4	6601.9	7377.5	6531.6	4312.1	4593.2	6367.0
57.5°	6492.8	6784.4	7224.0	5487.2	5724.6	7805.4	8651.9	7680.2	5267.7	6149.4	7411.4
60°	6188.2	6518.7	7315.3	6524.2	6633.4	8769.7	9703.7	8645.7	6206.1	7229.6	7352.2
62.5°	5681.4	5978.0	6686.4	5918.8	6773.9	8981.8	9728.4	8814.1	6579.1	6681.4	6641.4
65°	5080.3	5379.3	6129.6	5166.6	6326.9	8478.0	9010.7	8319.0	5908.9	6036.5	6051.3
67.5°	4281.9	4558.1	5322.0	4593.8	5767.1	7738.8	7909.0	7613.7	5441.6	5645.0	5432.3
70°	3199.2	3448.3	4122.8	3733.2	4861.4	6775.8	6638.3	6682.1	4916.9	5119.1	4537.7
72.5°	2186.3	2373.7	2952.0	2933.5	3722.7	5424.3	5232.6	5647.5	4106.8	4375.0	3459.4
75°	1529.0	1675.1	2133.8	2317.6	2813.9	4020.5	3726.4	4227.0	3207.2	3590.1	2524.1
77.5°	938.4	1035.2	1347.8	1717.1	1810.2	2751.6	2314.5	3180.7	2252.2	2618.4	1683.8
80°	469.2	516.0	654.8	1079.6	1200.4	1621.5	1278.1	1846.5	1524.1	1621.5	931.6
82.5°	141.8	156.6	191.7	410.0	622.1	933.4	755.3	1072.8	832.3	760.2	366.8
85°	37.6	42.5	53.0	121.5	218.3	334.8	255.2	519.7	398.9	280.5	138.1
87.5°	3.1	3.1	2.5	2.5	1.2	0.0	0.0	37.0	74.6	42.5	24.0
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°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1177.0	1174.5	1149.2	1130.7	1109.2	1088.2	1066.6	1047.5	1025.9	1004.3	998.2
5°	1271.9	1254.7	1201.0	1156.0	1111.6	1072.8	1038.9	1003.7	975.4	947.6	937.1
7.5°	1355.8	1325.6	1247.9	1179.4	1117.8	1069.7	1019.8	968.6	928.5	889.1	879.2
10°	1431.6	1391.5	1293.5	1207.2	1138.8	1083.9	1025.3	956.9	898.9	850.8	837.9
12.5°	1487.7	1443.9	1333.0	1233.7	1156.0	1094.4	1036.4	976.0	914.9	852.7	838.5
15°	1532.1	1486.5	1365.6	1254.0	1156.6	1077.1	1021.0	1000.0	980.9	919.9	894.0
17.5°	1567.9	1519.8	1394.0	1266.4	1140.0	1024.7	976.0	1006.8	1055.5	1017.3	968.6
20°	1600.5	1551.8	1415.6	1275.0	1103.0	952.6	925.4	990.8	1064.1	1062.9	1019.1
22.5°	1636.3	1588.8	1447.0	1279.9	1051.2	879.2	895.2	967.4	1027.2	1045.0	1017.9
25°	1681.9	1640.0	1490.8	1291.0	992.6	828.6	873.0	937.1	987.1	991.4	975.4
27.5°	1734.9	1703.5	1556.1	1316.9	935.9	802.7	847.1	894.6	940.2	942.1	923.0
30°	1792.9	1771.9	1616.6	1338.5	893.4	794.7	813.8	852.1	881.0	886.0	869.3
32.5°	1866.9	1848.4	1670.2	1324.3	868.1	792.9	783.0	802.7	826.8	826.8	813.8
35°	1968.6	1942.7	1726.9	1270.1	837.3	785.5	750.3	755.9	766.4	768.2	760.8
37.5°	2112.9	2070.3	1784.3	1162.8	786.7	759.0	712.7	705.9	709.6	714.6	712.7
40°	2291.7	2222.0	1868.1	1033.9	726.3	707.8	673.9	660.9	657.8	667.7	671.4
42.5°	2516.7	2410.1	1958.1	913.7	671.4	649.2	628.3	617.2	612.2	628.9	638.7
45°	2876.2	2700.4	2044.4	794.7	640.6	599.3	585.1	577.1	579.5	599.3	611.6
47.5°	3497.0	3143.7	2126.4	719.5	638.1	563.5	546.3	548.1	554.9	575.8	590.6
50°	4282.5	3737.5	2181.3	688.1	645.5	541.9	519.1	529.0	539.5	559.8	577.1
52.5°	5082.1	4290.5	2116.0	670.8	644.9	542.6	493.8	523.4	528.4	548.7	567.2
55°	5632.1	4352.2	1828.0	644.3	635.0	567.2	474.1	521.0	524.1	542.6	559.2
57.5°	5841.7	4141.3	1394.0	651.7	605.4	586.3	465.5	503.7	525.9	541.9	559.2
60°	5588.3	3743.6	847.1	670.8	558.0	585.1	471.0	472.3	510.5	537.6	554.9
62.5°	5110.5	3233.1	595.0	616.5	523.4	552.4	484.0	435.3	483.4	516.0	531.5
65°	4563.0	2632.6	453.8	530.8	506.8	501.9	488.3	402.6	446.4	478.4	492.0
67.5°	3992.7	2046.3	368.7	395.8	458.1	453.8	446.4	373.6	402.6	425.4	440.8
70°	3274.4	1431.6	311.4	297.2	392.7	406.9	390.3	337.2	346.5	369.9	382.3
72.5°	2395.3	892.1	255.9	245.4	315.7	355.7	347.1	297.2	301.5	323.7	333.5
75°	1722.6	510.5	205.3	202.2	241.1	304.6	287.3	255.9	260.8	277.4	284.2
77.5°	1095.0	284.2	158.5	162.8	172.6	227.5	245.4	218.9	218.9	228.7	234.3
80°	586.3	162.8	115.9	117.8	120.8	173.9	193.6	169.5	169.5	162.8	169.5
82.5°	239.2	93.7	79.5	74.0	80.8	119.0	135.6	107.9	112.8	101.7	104.2
85°	78.9	46.9	39.5	38.8	38.2	52.4	65.4	53.6	64.1	40.7	42.5
87.5°	10.5	8.6	4.9	3.7	4.3	1.8	3.7	4.3	4.3	3.1	3.1
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°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	993.9	988.9	971.1	975.4	972.3	967.4	972.3	963.0	970.4	972.9	988.3
5°	929.1	917.4	900.1	891.5	889.7	884.7	885.4	881.0	882.3	892.8	910.0
7.5°	871.2	860.1	846.5	840.3	834.8	829.2	828.6	828.0	832.9	842.2	858.8
10°	829.2	823.1	817.5	820.0	817.5	815.1	810.8	810.8	818.8	835.4	855.8
12.5°	829.2	828.0	829.2	836.6	836.0	836.6	831.1	834.2	856.4	884.7	913.7
15°	873.6	863.8	863.8	867.5	866.2	866.2	866.2	879.2	929.7	973.5	1004.3
17.5°	927.9	898.9	886.6	884.7	884.1	884.1	886.6	914.3	993.2	1039.5	1057.4
20°	965.5	910.6	890.3	882.3	882.9	884.1	891.5	929.7	1016.7	1040.1	1035.8
22.5°	972.3	901.4	876.7	865.0	866.9	868.1	879.2	919.9	984.6	988.3	979.7
25°	940.8	875.5	849.0	839.7	842.2	841.6	851.4	881.0	927.3	926.0	921.1
27.5°	894.0	834.2	814.4	808.3	812.6	807.7	810.8	833.6	869.3	868.1	866.2
30°	845.9	794.1	776.2	773.1	778.7	771.3	771.9	791.0	815.7	814.4	813.8
32.5°	797.8	754.0	738.0	738.0	743.5	735.5	736.8	753.4	770.1	765.1	765.1
35°	752.2	721.4	708.4	705.9	710.3	704.7	707.2	722.6	728.8	722.0	717.7
37.5°	712.1	698.5	685.6	677.0	677.6	678.2	685.6	697.3	693.6	683.7	678.2
40°	675.1	675.1	662.8	646.8	644.9	649.2	661.5	674.5	664.0	652.9	646.1
42.5°	648.6	654.1	642.4	626.4	622.7	630.1	643.7	652.9	640.6	628.3	619.0
45°	623.9	637.5	629.5	611.6	606.7	615.3	632.6	636.3	619.6	607.9	601.1
47.5°	606.7	625.2	619.6	602.4	595.0	607.3	625.2	624.6	603.6	591.3	585.7
50°	594.3	617.8	617.2	602.4	594.3	609.8	625.8	617.8	595.0	582.0	576.5
52.5°	584.5	617.2	621.5	612.8	607.3	620.9	630.7	615.3	588.8	575.2	570.9
55°	580.2	619.6	622.7	614.7	609.8	622.1	630.7	620.2	588.8	576.5	572.8
57.5°	581.4	616.5	617.2	606.1	597.4	612.8	626.4	623.3	595.6	581.4	577.1
60°	574.0	599.9	601.1	583.9	574.0	592.5	616.5	614.7	592.5	577.7	569.7
62.5°	549.3	572.1	572.8	556.7	542.6	569.1	595.6	595.0	574.6	559.8	550.6
65°	508.0	532.1	538.2	522.8	511.7	540.1	567.8	566.6	546.3	532.7	523.4
67.5°	456.9	482.8	494.5	484.0	479.7	505.6	531.5	530.8	514.2	501.2	493.2
70°	394.6	416.2	435.9	435.9	432.8	462.4	490.1	487.7	472.3	462.4	456.2
72.5°	342.8	359.4	365.6	371.8	381.0	411.8	435.3	437.1	426.0	421.1	426.0
75°	291.6	302.1	307.7	302.7	318.8	350.8	381.6	384.7	373.0	365.0	366.8
77.5°	239.8	251.5	257.1	246.0	244.8	285.5	323.1	329.8	320.0	307.7	311.4
80°	173.2	188.7	197.9	190.5	188.0	205.9	257.7	265.1	255.9	246.0	251.5
82.5°	106.0	114.7	117.1	124.5	140.0	147.4	165.8	190.5	183.7	175.1	190.5
85°	41.9	49.9	55.5	62.9	73.4	86.9	102.3	122.1	111.0	107.3	126.4
87.5°	2.5	0.6	0.0	1.2	10.5	20.3	43.8	60.4	50.6	54.3	65.4
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°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1000.6	1016.7	1038.3	1056.1	1078.9	1100.5	1122.7	1144.9	1156.6	1161.6
5°	929.7	959.3	993.9	1032.1	1076.5	1123.3	1170.8	1219.5	1250.3	1252.8
7.5°	887.2	929.7	977.2	1025.3	1080.2	1144.9	1220.1	1295.4	1326.8	1335.4
10°	900.8	948.2	985.8	1030.9	1091.3	1172.0	1260.8	1349.0	1385.4	1395.8
12.5°	955.0	964.3	976.0	1017.3	1091.3	1195.5	1302.8	1407.6	1446.4	1456.3
15°	1000.0	955.6	934.7	978.4	1076.5	1215.8	1347.1	1463.1	1509.9	1519.2
17.5°	1003.7	927.3	881.7	921.1	1050.6	1230.0	1389.7	1524.7	1564.2	1572.8
20°	966.1	897.1	837.9	861.9	1015.4	1236.2	1420.5	1569.7	1608.6	1617.2
22.5°	923.6	872.4	808.3	807.1	972.9	1242.9	1457.5	1612.3	1654.2	1659.7
25°	883.5	838.5	784.2	767.0	923.6	1255.9	1507.4	1676.4	1708.4	1710.3
27.5°	836.6	802.1	765.1	748.5	880.4	1280.6	1581.4	1752.8	1771.9	1768.9
30°	794.1	768.2	751.6	746.6	853.3	1299.1	1651.7	1828.0	1829.3	1818.8
32.5°	749.1	739.2	739.2	755.3	831.1	1294.7	1709.1	1901.4	1889.7	1874.3
35°	709.0	710.9	723.8	761.4	794.1	1251.6	1763.9	1993.3	1976.0	1953.8
37.5°	670.8	685.0	703.5	739.8	745.4	1187.5	1828.0	2123.4	2101.8	2074.0
40°	638.1	659.7	681.3	699.2	693.6	1096.2	1917.4	2276.3	2252.2	2220.2
42.5°	612.2	633.2	657.2	659.1	660.9	1001.3	2012.4	2463.7	2459.4	2424.2
45°	595.6	609.1	632.0	628.9	659.1	896.4	2099.9	2749.8	2806.5	2780.0
47.5°	584.5	595.0	597.4	610.4	675.1	802.7	2212.8	3309.6	3467.4	3437.2
50°	578.3	588.8	561.1	611.6	677.6	742.3	2368.7	4012.4	4266.5	4226.4
52.5°	577.7	575.2	533.3	624.6	664.0	705.3	2450.1	4525.4	5088.9	5175.9
55°	578.9	548.1	519.1	628.3	636.9	691.8	2177.6	4772.0	5847.9	6031.6
57.5°	567.8	518.5	527.1	613.5	585.7	728.1	1609.8	4683.9	6151.2	6492.8
60°	546.9	490.1	541.9	573.4	533.3	665.9	1108.5	4290.5	5836.8	6188.2
62.5°	516.7	470.4	540.1	521.6	514.2	545.0	762.0	3739.9	5338.0	5681.4
65°	482.8	454.4	511.1	471.7	476.0	419.2	538.9	3118.5	4742.4	5080.3
67.5°	446.4	444.5	468.6	419.9	402.0	332.3	392.7	2499.5	3977.3	4281.9
70°	405.1	418.6	426.0	373.0	326.1	260.8	291.6	1747.9	2934.1	3199.2
72.5°	363.8	365.0	375.5	324.3	244.2	209.0	218.9	1058.6	1993.3	2186.3
75°	321.8	310.1	320.0	263.9	181.9	171.4	168.9	654.1	1376.7	1529.0
77.5°	276.8	263.9	250.9	198.5	146.1	132.6	129.5	366.8	844.7	938.4
80°	225.0	207.8	187.4	145.5	106.7	94.9	94.3	178.8	421.1	469.2
82.5°	175.1	142.4	136.9	90.6	66.0	58.0	61.7	68.4	127.0	141.8
85°	122.7	103.6	72.8	36.4	29.6	24.0	23.4	20.3	33.9	37.6
87.5°	68.4	45.0	23.4	4.3	4.9	5.5	4.3	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)