

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: P637053

Luminaire Tested: GWS-SA4C-722-U-SLR-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-42)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-722-U-SLR-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7628.2 lumens
Efficiency: N/A
Efficacy: 59.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

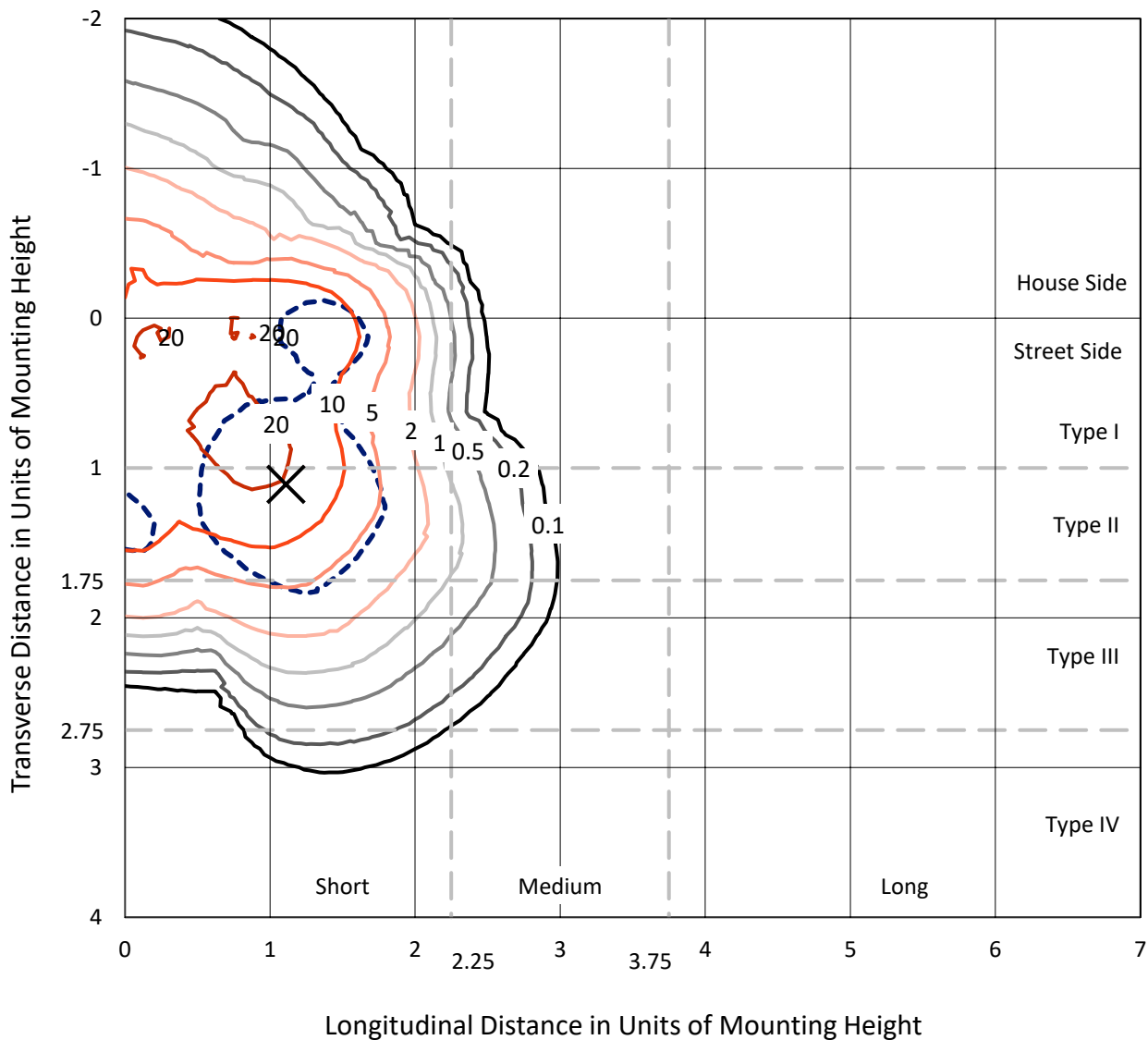
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

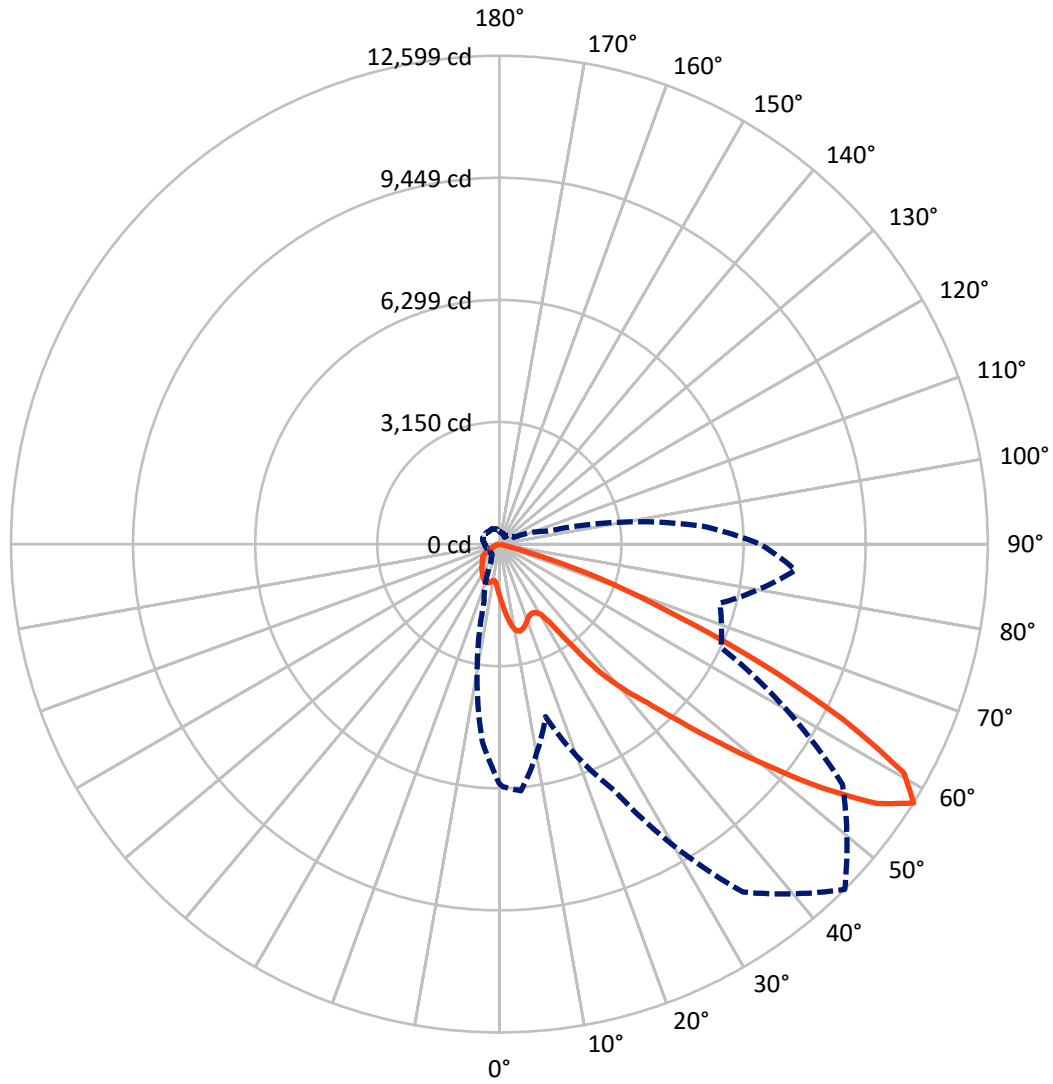
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1708.2	0.0	1708.2
	% Fixture	22.4	0.0	22.4
Street Side	Lumens	5920.1	0.0	5920.1
	% Fixture	77.6	0.0	77.6
Total	Lumens	7628.2	0.0	7628.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	1.7
10°-20°	426.7	5.6
20°-30°	693.1	9.1
30°-40°	1071.0	14.0
40°-50°	1717.3	22.5
50°-60°	2347.1	30.8
60°-70°	1136.8	14.9
70°-80°	104.1	1.4
80°-90°	0.3	0.0
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°	7628.2	100.0
0°-180°	7628.2	100.0

Coefficient of Utilization



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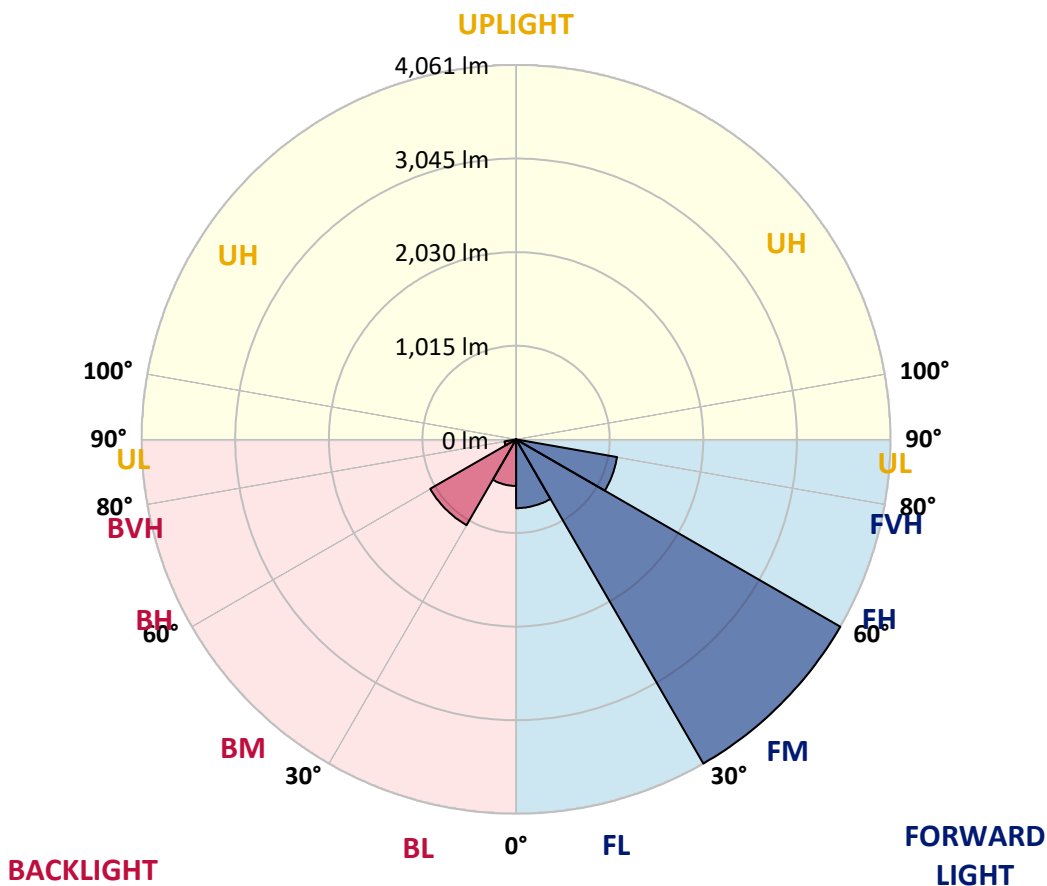
CATALOG NUMBER: GWS-SA4C-722-U-SLR-W-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.3	9.8			
FM (30°-60°)	4060.7	53.2			
FH (60°-80°)	1112.8	14.6			G1/1800
FVH (80°-90°)	0.3	0.0			G0/10
BL (0°-30°)	505.4	6.6	B2/1000		
BM (30°-60°)	1074.7	14.1	B2/2500		
BH (60°-80°)	128.0	1.7	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1452.5	1461.7	1477.1	1509.9	1537.5	1556.0	1564.2	1562.1	1550.9	1542.7	1526.3
5°	1608.3	1608.3	1638.0	1712.8	1770.2	1806.1	1824.6	1813.3	1790.7	1754.8	1699.5
7.5°	1744.6	1749.7	1800.0	1906.6	1993.7	2044.9	2074.7	2068.5	2028.5	1959.9	1849.2
10°	1851.2	1857.4	1924.0	2054.2	2156.7	2208.9	2253.0	2257.1	2213.0	2121.8	1994.7
12.5°	1954.7	1960.9	2030.6	2155.6	2245.8	2267.4	2306.3	2321.7	2310.4	2245.8	2113.6
15°	2066.5	2080.8	2140.3	2233.5	2271.5	2245.8	2271.5	2299.1	2337.1	2330.9	2212.0
17.5°	2176.1	2186.4	2246.9	2279.7	2237.6	2171.0	2183.3	2216.1	2302.2	2386.3	2309.4
20°	2277.6	2292.0	2342.2	2299.1	2172.0	2068.5	2069.5	2112.6	2243.8	2420.1	2408.8
22.5°	2384.2	2405.7	2441.6	2320.7	2111.6	1987.5	1992.7	2031.6	2197.7	2451.9	2521.6
25°	2523.6	2544.1	2567.7	2374.0	2092.1	1947.6	1967.0	2002.9	2197.7	2506.2	2661.0
27.5°	2712.2	2726.6	2727.6	2473.4	2125.9	1953.7	1994.7	2035.7	2263.3	2614.8	2847.5
30°	2949.0	2971.6	2941.8	2628.2	2231.5	2035.7	2096.2	2147.4	2404.7	2798.3	3122.2
32.5°	3237.0	3268.8	3228.8	2857.8	2451.9	2318.6	2428.3	2458.0	2630.2	3063.8	3433.8
35°	3575.3	3602.0	3558.9	3175.5	2966.4	2991.0	3189.9	3152.0	3083.3	3390.8	3797.7
37.5°	3946.4	3971.0	3887.9	3657.3	3727.0	3833.6	4151.4	4021.2	3799.8	3812.1	4192.4
40°	4286.7	4313.3	4183.1	4181.1	4324.6	4519.4	4902.7	4723.3	4422.0	4363.5	4562.4
42.5°	4639.3	4657.7	4539.9	4459.9	4785.9	5186.6	5592.6	5350.7	4834.0	4770.5	5025.7
45°	5142.6	5181.5	4971.4	4597.3	5201.0	5954.4	6520.2	6047.7	5114.9	5063.6	5735.0
47.5°	5882.6	5911.3	5482.9	4683.4	5587.4	6910.7	7679.5	6951.7	5361.9	5245.1	6704.7
50°	6494.6	6514.1	5953.4	4777.7	5998.5	7941.9	9000.8	8023.9	5639.7	5545.4	7609.8
52.5°	6945.6	7019.4	6571.5	4971.4	6538.7	9154.5	10463.5	9293.9	6073.3	6125.6	8360.1
55°	7038.9	7139.3	6993.8	5090.3	7014.3	10389.7	11814.5	10430.7	6505.9	6565.3	8612.3
57.5°	6186.1	6266.0	6387.0	4610.6	7003.0	10955.5	12598.6	10807.9	6309.1	5887.8	7668.2
60°	4634.2	4689.5	4908.9	3524.0	6440.3	10455.3	11987.7	10166.2	5516.7	4492.7	5842.7
62.5°	2748.1	2772.7	3050.5	2282.7	5345.5	9003.9	9941.8	8772.2	4359.4	3021.8	3578.4
65°	1054.8	1044.5	1256.7	1126.5	3931.0	7172.1	7394.6	6687.3	2991.0	1384.8	1364.3
67.5°	163.0	155.8	210.1	333.1	2835.2	4970.4	4879.1	4819.7	1873.8	322.9	281.9
70°	36.9	36.9	45.1	98.4	1732.3	2920.3	3125.3	2979.8	1199.3	68.7	36.9
72.5°	17.4	17.4	21.5	42.0	627.3	1203.4	1402.2	1380.7	389.5	22.6	13.3
75°	6.2	7.2	7.2	9.2	37.9	62.5	143.5	102.5	24.6	0.0	0.0
77.5°	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1490.4	1483.2	1456.6	1420.7	1385.8	1355.1	1323.3	1285.4	1257.7	1225.9	1215.7
5°	1656.4	1611.3	1538.6	1462.7	1393.0	1333.6	1276.2	1214.7	1169.6	1124.5	1109.1
7.5°	1796.9	1730.2	1612.4	1498.6	1403.3	1319.2	1236.2	1152.1	1086.5	1033.2	1016.8
10°	1923.0	1846.1	1688.2	1547.8	1427.9	1330.5	1230.0	1124.5	1039.4	975.8	960.5
12.5°	2031.6	1942.4	1752.8	1584.7	1438.1	1326.4	1229.0	1145.0	1068.1	995.3	975.8
15°	2122.8	2024.4	1807.1	1609.3	1422.7	1275.1	1190.1	1176.7	1170.6	1090.6	1052.7
17.5°	2212.0	2101.3	1851.2	1620.6	1379.7	1184.9	1123.4	1183.9	1248.5	1196.2	1148.0
20°	2305.3	2179.2	1896.3	1622.6	1307.9	1083.5	1073.2	1168.5	1250.5	1234.1	1189.0
22.5°	2415.0	2276.6	1952.7	1621.6	1217.7	997.4	1036.3	1138.8	1205.4	1204.4	1168.5
25°	2573.8	2399.6	2028.5	1627.7	1119.3	930.7	995.3	1088.6	1142.9	1140.9	1111.1
27.5°	2744.0	2546.2	2126.9	1643.1	1035.3	891.8	947.1	1019.9	1067.1	1065.0	1039.4
30°	2982.8	2715.3	2221.2	1644.1	974.8	871.3	893.8	944.1	989.2	984.0	964.6
32.5°	3272.9	2906.0	2300.2	1585.7	936.9	851.8	838.5	864.1	899.0	891.8	886.7
35°	3623.5	3132.5	2367.8	1457.6	878.4	812.8	777.0	782.1	806.7	810.8	808.7
37.5°	4023.2	3402.1	2451.9	1288.5	799.5	756.5	708.3	704.2	718.5	731.9	742.1
40°	4417.9	3705.5	2565.6	1117.3	727.8	684.7	638.6	628.3	634.5	658.1	679.6
42.5°	4861.7	4057.1	2688.7	970.7	678.6	605.8	561.7	542.2	559.7	597.6	623.2
45°	5501.3	4550.1	2808.6	853.8	658.1	536.1	476.6	474.6	494.1	543.3	572.0
47.5°	6399.3	5187.7	2887.5	762.6	657.0	481.8	411.0	423.3	445.9	494.1	526.9
50°	7274.6	5986.2	2800.4	692.9	635.5	445.9	361.8	386.4	409.0	451.0	484.8
52.5°	7802.5	6415.7	2461.1	627.3	568.9	429.5	313.7	356.7	360.8	398.7	434.6
55°	7747.2	6137.9	1885.0	525.8	470.5	405.9	263.4	321.9	323.9	352.6	383.4
57.5°	6724.2	5269.7	1294.6	426.4	353.6	335.2	217.3	271.6	291.1	308.5	331.1
60°	5011.4	3844.9	577.1	346.5	224.5	226.5	185.5	205.0	234.7	255.2	274.7
62.5°	2953.1	2212.0	234.7	208.1	124.0	142.5	149.7	149.7	168.1	183.5	195.8
65°	1116.3	773.9	95.3	104.6	64.6	66.6	88.2	108.7	123.0	136.3	152.7
67.5°	195.8	135.3	49.2	39.0	37.9	33.8	45.1	70.7	78.9	89.2	96.4
70°	32.8	27.7	20.5	19.5	17.4	18.5	29.7	50.2	55.4	58.4	61.5
72.5°	9.2	8.2	6.2	5.1	4.1	5.1	18.5	39.0	41.0	43.1	46.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	7.2	27.7	29.7	30.8	33.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	8.2	10.3	8.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1209.5	1189.0	1177.8	1171.6	1171.6	1163.4	1154.2	1151.1	1164.4	1164.4	1187.0
5°	1089.6	1073.2	1054.8	1043.5	1026.1	1029.1	1018.9	1017.9	1031.2	1037.3	1060.9
7.5°	1006.6	986.1	974.8	967.6	958.4	954.3	945.1	942.0	949.2	959.4	982.0
10°	951.2	948.2	947.1	952.3	952.3	947.1	938.9	933.8	935.9	955.3	981.0
12.5°	965.6	971.7	973.8	982.0	986.1	982.0	975.8	977.9	991.2	1027.1	1065.0
15°	1028.1	1023.0	1020.9	1025.0	1028.1	1024.0	1022.0	1037.3	1083.5	1134.7	1177.8
17.5°	1094.7	1061.9	1047.6	1047.6	1049.6	1047.6	1049.6	1079.4	1154.2	1205.4	1237.2
20°	1128.6	1068.1	1045.5	1040.4	1044.5	1045.5	1052.7	1086.5	1168.5	1204.4	1211.6
22.5°	1118.3	1042.5	1016.8	1012.7	1016.8	1020.9	1028.1	1056.8	1133.7	1152.1	1149.1
25°	1067.1	992.2	971.7	971.7	981.0	979.9	983.0	1003.5	1067.1	1078.3	1073.2
27.5°	1002.5	931.8	914.3	924.6	932.8	930.7	931.8	949.2	996.3	999.4	994.3
30°	936.9	875.4	859.0	871.3	882.6	880.5	881.5	899.0	928.7	925.6	918.4
32.5°	870.2	825.1	812.8	820.0	837.4	835.4	839.5	857.9	869.2	855.9	847.7
35°	808.7	785.2	775.9	780.0	793.4	796.4	803.6	815.9	815.9	799.5	785.2
37.5°	751.3	748.3	742.1	737.0	749.3	758.5	768.8	783.1	762.6	739.0	725.7
40°	698.0	711.4	703.2	689.8	697.0	710.3	730.8	742.1	717.5	693.9	671.4
42.5°	648.8	671.4	668.3	651.9	658.1	670.4	693.9	703.2	674.5	647.8	626.3
45°	601.7	633.5	635.5	615.0	621.2	633.5	661.1	664.2	627.3	598.6	583.2
47.5°	560.7	595.5	596.6	581.2	583.2	600.7	626.3	627.3	585.3	558.6	539.2
50°	521.7	561.7	564.8	551.5	553.5	574.0	595.5	591.4	546.3	518.7	501.2
52.5°	474.6	528.9	536.1	529.9	538.1	554.5	567.9	553.5	501.2	473.6	458.2
55°	423.3	494.1	509.4	505.3	514.6	527.9	531.0	521.7	456.1	428.5	414.1
57.5°	363.9	406.9	433.6	425.4	432.6	445.9	455.1	447.9	398.7	377.2	364.9
60°	301.4	330.1	336.2	322.9	316.7	340.3	361.8	352.6	310.6	297.3	282.9
62.5°	220.4	253.2	257.3	239.9	232.7	258.3	276.8	267.5	221.4	207.1	195.8
65°	176.3	207.1	215.3	198.9	194.8	214.2	225.5	203.0	170.2	154.8	142.5
67.5°	115.8	140.4	162.0	160.9	152.7	158.9	150.7	132.2	108.7	100.5	92.3
70°	71.8	86.1	99.4	104.6	103.5	101.5	90.2	76.9	69.7	66.6	62.5
72.5°	55.4	69.7	80.0	83.0	84.1	81.0	71.8	59.5	52.3	48.2	45.1
75°	41.0	52.3	60.5	64.6	66.6	64.6	55.4	47.2	40.0	36.9	33.8
77.5°	14.4	17.4	21.5	23.6	22.6	21.5	19.5	19.5	15.4	14.4	12.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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	0.0



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7	1340.7
2.5°	1212.6	1231.1	1264.9	1295.6	1328.4	1362.3	1399.2	1437.1	1454.5	1452.5
5°	1096.8	1136.8	1192.1	1252.6	1320.2	1393.0	1474.0	1557.0	1592.9	1608.3
7.5°	1024.0	1080.4	1153.2	1230.0	1319.2	1422.7	1544.7	1674.9	1727.2	1744.6
10°	1033.2	1098.8	1159.3	1234.1	1329.5	1463.7	1615.4	1770.2	1831.7	1851.2
12.5°	1108.1	1122.4	1138.8	1200.3	1320.2	1494.5	1680.0	1864.5	1935.3	1954.7
15°	1175.7	1109.1	1078.3	1134.7	1287.4	1516.0	1745.6	1966.0	2043.9	2066.5
17.5°	1178.8	1078.3	1009.7	1053.7	1234.1	1525.2	1810.2	2069.5	2154.6	2176.1
20°	1140.9	1044.5	956.4	957.4	1161.4	1523.2	1863.5	2162.8	2258.1	2277.6
22.5°	1085.5	1004.5	913.3	881.5	1083.5	1519.1	1921.9	2262.2	2365.8	2384.2
25°	1024.0	953.3	872.3	824.1	1005.6	1523.2	2003.9	2392.4	2506.2	2523.6
27.5°	957.4	896.9	840.5	801.6	940.0	1538.6	2102.3	2558.5	2693.8	2712.2
30°	887.7	842.6	820.0	796.4	899.0	1542.7	2208.9	2752.2	2923.4	2949.0
32.5°	819.0	794.4	795.4	799.5	860.0	1514.0	2306.3	2967.5	3196.0	3237.0
35°	755.4	748.3	768.8	789.3	803.6	1440.2	2391.4	3221.7	3533.3	3575.3
37.5°	701.1	707.3	732.9	753.4	742.1	1335.6	2504.1	3539.4	3910.5	3946.4
40°	648.8	664.2	693.9	703.2	695.0	1213.6	2639.4	3845.9	4237.5	4286.7
42.5°	600.7	611.9	654.0	656.0	681.6	1089.6	2769.6	4176.0	4613.7	4639.3
45°	561.7	559.7	602.7	616.0	699.1	952.3	2896.7	4615.7	5105.7	5142.6
47.5°	523.8	521.7	532.0	592.5	706.2	825.1	3022.8	5259.4	5819.1	5882.6
50°	487.9	491.0	459.2	581.2	667.3	727.8	3080.2	5855.0	6467.9	6494.6
52.5°	456.1	444.9	389.5	544.3	584.3	635.5	2917.2	6125.6	6869.7	6945.6
55°	411.0	348.5	320.8	441.8	461.3	554.5	2389.3	5968.7	6904.6	7038.9
57.5°	351.6	273.7	272.7	326.0	326.0	514.6	1530.4	5099.5	5950.3	6186.1
60°	270.6	212.2	225.5	226.5	209.1	375.2	859.0	3694.2	4399.4	4634.2
62.5°	192.7	162.0	170.2	135.3	119.9	187.6	412.1	2126.9	2715.3	2748.1
65°	129.2	109.7	89.2	74.8	73.8	80.0	170.2	768.8	934.8	1054.8
67.5°	85.1	66.6	47.2	47.2	53.3	53.3	64.6	127.1	178.4	163.0
70°	55.4	46.1	29.7	28.7	34.9	34.9	32.8	34.9	36.9	36.9
72.5°	41.0	34.9	17.4	15.4	19.5	20.5	18.5	17.4	17.4	17.4
75°	30.8	24.6	10.3	7.2	9.2	12.3	10.3	7.2	7.2	6.2
77.5°	12.3	9.2	4.1	3.1	5.1	7.2	6.2	3.1	2.1	2.1
80°	1.0	2.1	2.1	2.1	3.1	4.1	5.1	2.1	1.0	1.0
82.5°	0.0	1.0	1.0	1.0	2.1	3.1	4.1	2.1	1.0	1.0
85°	0.0	0.0	0.0	0.0	2.1	3.1	2.1	1.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	1.0	3.1	2.1	1.0	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)