

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: P632320

Luminaire Tested: GWS-SA2C-740-U-SLL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-39)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-SLL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT ELIMINATOR LEFT OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7204.1 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

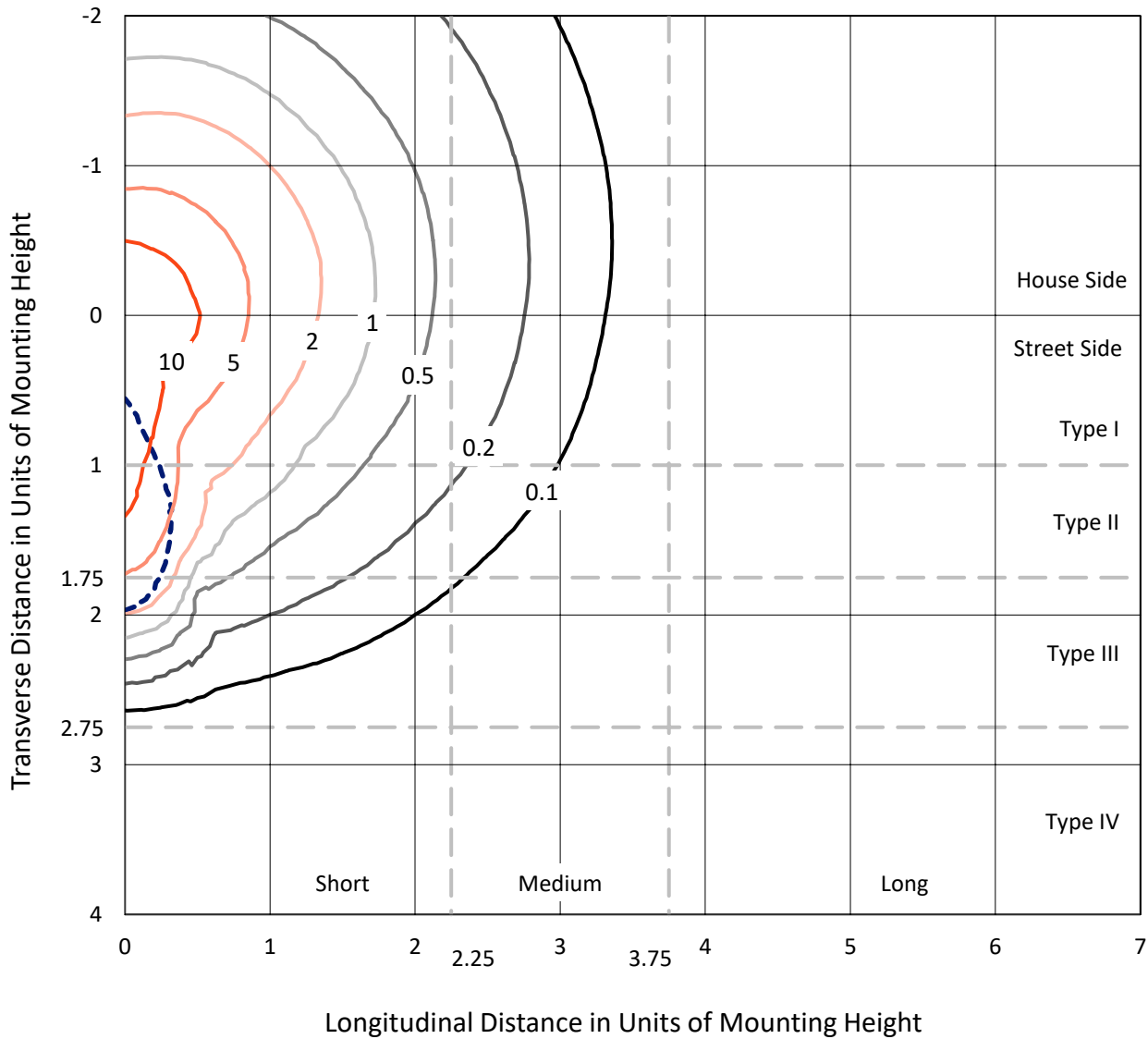
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

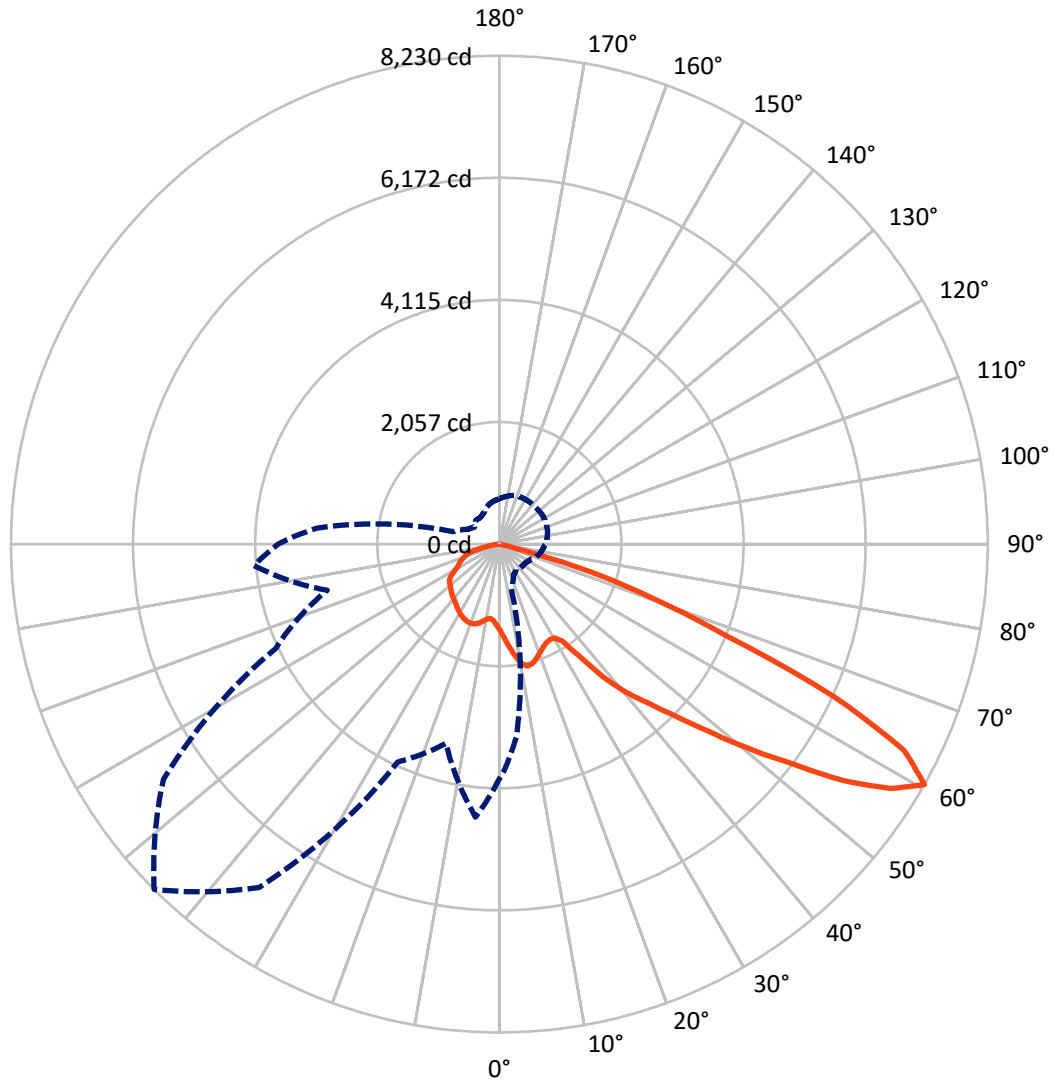
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2464.5	0.0	2464.5
	% Fixture	34.2	0.0	34.2
Street Side	Lumens	4739.6	0.0	4739.6
	% Fixture	65.8	0.0	65.8
Total	Lumens	7204.1	0.0	7204.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	2.0
10°-20°	455.3	6.3
20°-30°	741.5	10.3
30°-40°	1041.7	14.5
40°-50°	1425.5	19.8
50°-60°	1828.8	25.4
60°-70°	1231.4	17.1
70°-80°	307.9	4.3
80°-90°	30.0	0.4
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°	7204.1	100.0
0°-180°	7204.1	100.0

Coefficient of Utilization



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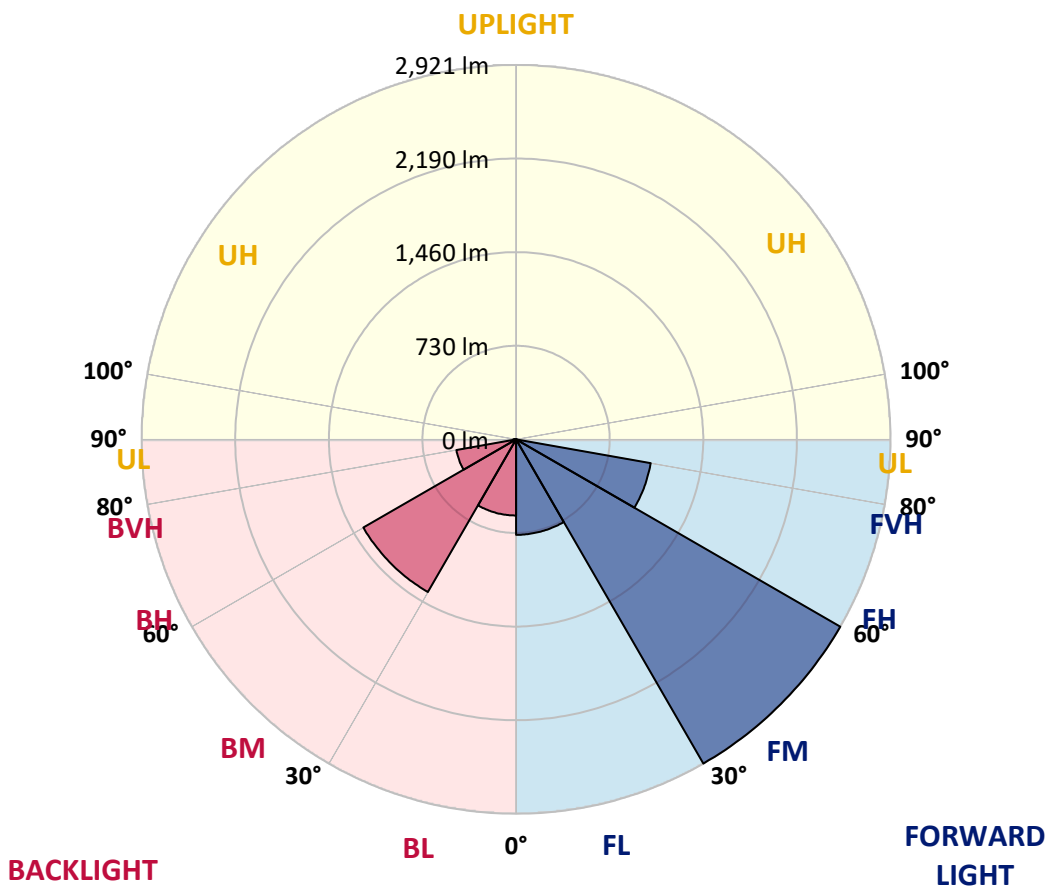
CATALOG NUMBER: GWS-SA2C-740-U-SLL-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.7	10.3			
FM (30°-60°)	2920.6	40.5			
FH (60°-80°)	1066.5	14.8			G1/1800
FVH (80°-90°)	7.8	0.1			G0/10
BL (0°-30°)	594.1	8.2	B2/1000		
BM (30°-60°)	1375.4	19.1	B2/2500		
BH (60°-80°)	472.8	6.6	B1/500		G1/500
BVH (80°-90°)	22.2	0.3			G1/100
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°	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0
2.5°	1537.3	1533.9	1530.6	1504.7	1498.1	1479.5	1466.3	1449.7	1425.8	1412.5	1401.2
5°	1633.5	1628.1	1610.2	1557.2	1522.7	1484.8	1453.7	1419.2	1382.7	1358.8	1340.2
7.5°	1724.3	1723.0	1692.5	1604.9	1549.2	1494.8	1452.3	1401.9	1349.5	1313.7	1289.8
10°	1808.6	1798.7	1762.2	1648.0	1575.1	1512.7	1466.9	1411.2	1350.2	1301.7	1269.9
12.5°	1882.9	1870.3	1819.9	1687.9	1597.6	1520.7	1470.9	1425.1	1384.7	1344.2	1307.7
15°	1944.0	1928.7	1877.6	1725.0	1617.5	1516.0	1446.4	1410.5	1424.5	1442.4	1401.9
17.5°	2001.0	1985.1	1922.7	1752.2	1623.5	1487.5	1386.0	1370.7	1441.0	1522.7	1504.1
20°	2048.8	2030.9	1958.6	1765.5	1612.9	1433.1	1307.7	1334.2	1427.1	1524.6	1554.5
22.5°	2100.5	2085.9	1999.0	1784.7	1599.6	1358.1	1242.0	1307.0	1403.2	1488.8	1533.9
25°	2183.5	2165.6	2062.1	1818.6	1593.0	1287.8	1194.9	1280.5	1370.1	1447.7	1482.8
27.5°	2303.6	2270.4	2148.3	1877.6	1600.3	1221.4	1165.0	1248.0	1331.6	1397.9	1426.5
30°	2434.3	2394.4	2243.8	1938.6	1610.9	1181.0	1149.1	1210.8	1272.5	1338.9	1370.1
32.5°	2588.8	2553.7	2346.0	1984.4	1588.3	1162.4	1137.2	1170.4	1219.5	1272.5	1298.4
35°	2773.3	2710.3	2457.5	2021.6	1515.4	1135.2	1126.6	1125.9	1151.8	1203.5	1232.7
37.5°	2971.7	2904.0	2594.8	2061.4	1401.9	1092.1	1101.4	1073.5	1097.4	1138.5	1171.7
40°	3134.2	3063.2	2733.5	2115.8	1259.9	1024.4	1045.6	1015.8	1030.4	1072.8	1110.0
42.5°	3293.4	3217.8	2862.9	2177.5	1122.6	958.0	968.7	957.4	962.0	1006.5	1058.2
45°	3502.4	3417.5	3022.1	2221.3	999.2	905.6	895.7	876.4	901.0	958.7	1013.8
47.5°	3851.4	3749.9	3282.8	2249.8	909.6	875.8	830.0	818.7	849.2	913.6	970.7
50°	4259.5	4171.9	3699.5	2248.5	842.6	850.6	766.3	756.4	806.8	871.8	932.2
52.5°	4593.8	4504.9	4055.8	2182.1	787.5	796.8	729.1	701.3	770.3	830.7	891.0
55°	4863.9	4763.7	4219.6	1904.8	717.9	711.2	688.7	637.6	724.5	789.5	845.9
57.5°	4718.6	4599.1	4021.3	1448.3	646.2	604.4	619.0	581.2	662.1	743.7	798.1
60°	3956.2	3848.8	3266.9	770.9	568.6	504.9	535.4	541.4	593.8	688.7	744.4
62.5°	2717.6	2639.3	2214.0	467.7	448.5	405.4	453.1	496.3	535.4	615.7	664.1
65°	1329.6	1306.4	1107.3	299.9	313.8	327.8	375.5	427.9	485.7	556.0	607.1
67.5°	366.2	368.9	335.7	234.2	247.5	286.0	323.8	365.6	423.3	488.3	540.1
70°	161.2	163.9	169.2	180.5	205.7	240.8	280.0	323.1	376.2	430.6	480.3
72.5°	112.1	114.8	122.7	137.3	159.9	193.1	230.2	271.4	326.4	372.2	413.3
75°	69.0	71.0	78.3	90.9	106.2	131.4	167.9	205.7	254.1	295.9	332.4
77.5°	36.5	35.2	39.8	48.4	61.7	75.0	99.5	123.4	157.9	191.7	222.3
80°	19.9	19.2	21.9	26.5	30.5	41.1	57.7	73.6	93.5	112.8	129.4
82.5°	8.6	8.0	8.6	11.3	13.9	19.9	29.2	40.5	51.8	65.0	75.6
85°	0.0	0.0	0.0	0.7	3.3	5.3	10.0	14.6	21.2	29.2	35.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.0
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°	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0
2.5°	1394.6	1378.0	1376.7	1363.4	1364.7	1365.4	1352.1	1346.8	1351.5	1356.8	1354.1
5°	1333.6	1316.3	1309.0	1296.4	1295.1	1289.1	1283.8	1277.2	1281.8	1286.5	1289.1
7.5°	1280.5	1269.2	1264.6	1261.2	1262.6	1259.9	1249.3	1243.3	1242.7	1244.7	1247.3
10°	1263.2	1254.0	1259.9	1269.2	1275.8	1280.5	1269.2	1259.3	1250.0	1246.0	1246.0
12.5°	1300.4	1288.5	1300.4	1310.3	1323.6	1326.9	1314.3	1303.7	1300.4	1304.4	1312.3
15°	1382.7	1354.8	1354.1	1360.1	1370.7	1376.0	1364.1	1358.8	1358.8	1384.0	1403.9
17.5°	1464.9	1419.2	1399.9	1396.6	1403.2	1405.2	1395.3	1390.6	1402.6	1451.7	1488.8
20°	1522.7	1466.9	1425.1	1417.2	1419.2	1419.8	1411.9	1408.5	1425.8	1485.5	1516.7
22.5°	1516.7	1475.5	1424.5	1414.5	1417.8	1416.5	1409.2	1407.9	1421.8	1473.6	1488.2
25°	1475.5	1443.7	1400.6	1393.9	1399.2	1398.6	1391.3	1388.0	1393.9	1428.4	1429.8
27.5°	1428.4	1400.6	1363.4	1361.4	1370.1	1374.7	1362.1	1352.1	1350.2	1373.4	1368.1
30°	1372.0	1351.5	1321.6	1323.0	1338.9	1341.5	1326.3	1311.7	1307.7	1320.3	1313.0
32.5°	1305.0	1298.4	1282.5	1285.8	1301.1	1306.4	1290.4	1275.2	1270.5	1274.5	1259.3
35°	1248.0	1245.3	1246.7	1252.6	1265.9	1269.9	1256.6	1244.7	1238.0	1224.1	1204.2
37.5°	1188.9	1196.2	1215.5	1226.7	1234.0	1232.7	1225.4	1216.8	1206.2	1180.3	1155.8
40°	1133.9	1152.4	1186.9	1199.5	1202.2	1202.9	1197.6	1190.3	1177.0	1142.5	1114.6
42.5°	1091.4	1112.0	1157.7	1177.0	1178.3	1179.6	1174.3	1168.4	1149.8	1104.0	1076.8
45°	1046.9	1074.2	1127.9	1151.1	1149.8	1149.1	1144.5	1141.8	1119.9	1066.9	1037.0
47.5°	1009.1	1041.0	1098.7	1118.6	1117.9	1117.3	1114.0	1114.0	1092.1	1034.3	1000.5
50°	972.0	1008.5	1068.8	1085.4	1086.8	1085.4	1084.1	1086.1	1060.2	998.5	965.3
52.5°	931.5	972.6	1035.7	1050.9	1058.9	1062.2	1062.2	1057.6	1027.0	962.7	926.2
55°	887.1	926.2	999.2	1019.7	1026.4	1032.4	1032.4	1023.1	994.5	929.5	890.4
57.5°	832.0	866.5	924.2	944.8	960.7	964.7	964.7	949.4	926.2	863.8	832.0
60°	772.3	802.1	841.3	863.2	875.1	867.1	873.1	869.1	850.6	792.8	766.3
62.5°	692.7	723.2	766.3	788.9	794.2	786.2	794.2	793.5	768.3	716.5	684.7
65°	635.6	665.5	707.9	737.1	745.7	743.7	749.1	741.1	709.9	660.8	630.3
67.5°	567.9	599.8	648.9	681.4	699.3	701.3	708.6	692.0	660.1	606.4	567.9
70°	503.6	530.8	568.6	599.1	624.3	636.9	638.3	614.4	574.6	530.1	502.2
72.5°	435.9	463.8	509.5	542.7	574.6	589.2	589.2	560.0	516.8	467.7	437.9
75°	353.6	379.5	421.3	457.1	493.6	512.2	511.5	486.3	438.6	392.1	360.9
77.5°	239.5	258.8	285.3	312.5	317.8	332.4	339.7	307.8	281.3	256.1	228.2
80°	139.3	151.3	165.9	181.1	184.4	189.1	177.1	165.2	151.3	134.7	122.1
82.5°	81.6	89.6	96.9	108.8	110.8	112.1	101.5	96.2	84.9	75.0	67.0
85°	39.8	42.5	49.1	55.1	52.4	51.1	46.4	41.1	36.5	32.5	28.5
87.5°	8.0	8.0	11.9	11.3	9.3	8.0	4.6	6.0	1.3	1.3	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°	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0
2.5°	1362.8	1374.0	1388.0	1406.5	1427.8	1450.3	1472.2	1488.8	1505.4	1530.0	1526.0
5°	1293.1	1312.3	1334.2	1362.8	1397.3	1436.4	1480.2	1524.0	1571.1	1610.9	1628.1
7.5°	1252.6	1273.9	1299.7	1336.9	1381.3	1429.1	1490.8	1561.8	1638.1	1690.5	1723.0
10°	1252.6	1279.8	1313.7	1349.5	1388.6	1437.7	1514.0	1602.9	1701.1	1770.1	1807.9
12.5°	1324.9	1352.1	1359.4	1358.1	1380.0	1434.4	1532.6	1646.1	1763.5	1836.5	1882.9
15°	1437.7	1447.0	1392.0	1341.5	1344.8	1410.5	1541.2	1680.6	1817.2	1904.8	1955.2
17.5°	1513.4	1488.8	1390.6	1302.4	1283.8	1370.1	1541.2	1713.7	1874.3	1973.1	2020.3
20°	1519.3	1458.3	1356.8	1264.6	1216.8	1316.3	1530.6	1738.9	1929.4	2038.8	2089.3
22.5°	1466.9	1406.5	1321.0	1232.1	1161.7	1251.3	1513.4	1758.2	1976.5	2100.5	2162.9
25°	1407.2	1356.8	1284.5	1198.9	1123.9	1185.6	1497.4	1790.7	2042.1	2184.1	2247.2
27.5°	1348.8	1306.4	1240.7	1171.0	1102.7	1128.6	1487.5	1838.5	2120.4	2302.9	2357.3
30°	1291.8	1253.3	1193.6	1144.5	1091.4	1091.4	1478.9	1893.5	2223.9	2436.2	2490.7
32.5°	1234.0	1197.6	1149.1	1118.6	1084.8	1076.8	1455.0	1945.3	2330.8	2582.2	2637.9
35°	1180.3	1143.8	1106.7	1094.1	1081.4	1065.5	1395.9	1985.8	2434.9	2752.7	2800.5
37.5°	1129.9	1094.7	1066.9	1063.5	1064.9	1035.0	1303.0	2019.6	2565.0	2927.2	2952.4
40°	1086.1	1046.9	1025.1	1024.4	1031.0	985.9	1185.6	2068.0	2713.6	3075.2	3064.5
42.5°	1046.9	1005.8	979.3	985.2	981.3	936.8	1070.8	2112.5	2843.0	3213.8	3192.6
45°	1008.5	968.7	931.5	940.1	935.5	906.3	973.3	2145.0	2986.3	3380.4	3383.0
47.5°	971.3	932.2	895.0	884.4	883.7	897.0	898.3	2155.6	3219.8	3648.4	3588.0
50°	936.8	897.7	859.2	823.4	837.3	878.4	842.6	2147.6	3569.4	3944.3	3775.8
52.5°	901.0	863.8	821.4	757.0	793.5	834.0	792.8	2119.1	3783.1	4205.7	4104.9
55°	859.9	824.7	767.0	688.7	733.1	741.8	741.8	1843.1	3874.0	4464.5	4526.8
57.5°	804.8	758.3	666.8	603.8	643.6	610.4	687.4	1289.8	3724.0	4382.9	4625.0
60°	742.4	692.7	595.8	550.7	562.6	504.2	585.8	808.8	3086.4	3729.3	4148.7
62.5°	660.1	614.4	534.1	498.9	474.4	411.3	471.7	511.5	2115.8	2769.3	3055.3
65°	605.1	554.7	483.0	436.6	386.1	331.1	313.2	335.7	1137.8	1549.9	1742.9
67.5°	540.1	490.3	422.6	364.2	323.8	284.0	252.8	244.8	390.1	516.2	558.6
70°	478.4	430.6	374.2	319.8	279.3	240.2	209.7	187.8	180.5	179.1	176.5
72.5°	415.3	370.9	323.8	273.3	228.9	193.1	165.9	140.7	130.0	126.7	123.4
75°	340.4	305.2	258.1	203.7	167.9	134.7	113.5	96.9	87.6	84.3	80.3
77.5°	218.9	203.0	161.9	131.4	101.5	80.3	69.0	58.4	52.4	51.1	47.8
80°	116.8	108.8	89.6	75.6	60.4	49.1	43.1	37.2	33.8	32.5	31.2
82.5°	65.0	59.0	49.8	43.8	35.2	29.9	26.5	23.9	21.9	21.2	20.6
85°	29.2	25.2	19.9	18.6	16.6	15.3	14.6	13.3	12.6	11.9	11.3
87.5°	1.3	2.7	3.3	2.7	2.7	4.0	4.6	4.6	4.0	4.0	3.3
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°	359°	360°
0°	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0	1453.0
2.5°	1550.5	1570.4	1572.4	1579.0	1570.4	1568.4	1554.5	1546.5	1539.2	1537.3
5°	1671.3	1711.1	1727.0	1738.3	1727.7	1722.4	1691.8	1660.0	1642.1	1633.5
7.5°	1795.3	1855.1	1886.2	1900.2	1901.5	1877.6	1825.2	1765.5	1735.6	1724.3
10°	1906.1	1979.8	2020.9	2047.5	2038.2	2009.0	1937.3	1856.4	1818.6	1808.6
12.5°	1988.4	2058.7	2090.6	2107.8	2107.2	2091.2	2023.6	1936.0	1892.9	1882.9
15°	2041.5	2083.3	2085.3	2089.3	2100.5	2121.8	2086.6	2005.7	1957.9	1944.0
17.5°	2083.3	2066.7	2035.5	2024.9	2050.1	2109.2	2130.4	2064.7	2013.0	2001.0
20°	2109.8	2026.2	1971.2	1950.6	1979.8	2076.0	2156.9	2117.8	2064.0	2048.8
22.5°	2130.4	1988.4	1899.5	1885.6	1916.1	2040.2	2184.1	2180.8	2121.8	2100.5
25°	2162.9	1963.2	1849.1	1839.1	1867.7	2022.9	2220.6	2266.4	2214.0	2183.5
27.5°	2214.0	1960.5	1823.2	1819.9	1859.0	2038.2	2273.0	2391.8	2326.1	2303.6
30°	2285.0	1985.8	1829.2	1835.8	1883.6	2093.2	2354.6	2535.1	2469.4	2434.3
32.5°	2387.2	2053.4	1920.1	1948.6	1983.8	2181.5	2474.1	2690.4	2640.6	2588.8
35°	2521.8	2239.2	2188.8	2310.2	2277.0	2374.5	2618.0	2878.8	2818.4	2773.3
37.5°	2701.6	2620.0	2666.5	2833.7	2753.4	2739.5	2793.9	3050.0	3016.8	2971.7
40°	2953.8	2970.3	3055.9	3275.5	3159.4	3069.9	3009.5	3178.7	3189.9	3134.2
42.5°	3120.9	3197.2	3403.6	3653.0	3493.1	3278.8	3189.9	3343.2	3343.9	3293.4
45°	3183.3	3383.0	3814.3	4101.5	3834.2	3398.3	3289.5	3566.8	3560.2	3502.4
47.5°	3160.8	3539.6	4240.9	4680.1	4272.1	3483.2	3275.5	3885.3	3939.0	3851.4
50°	3113.6	3696.8	4739.1	5388.7	4809.5	3573.4	3254.3	4238.2	4327.1	4259.5
52.5°	3161.4	3872.0	5328.3	6121.1	5483.5	3717.4	3397.6	4691.4	4675.4	4593.8
55°	3312.7	4079.0	6044.2	7041.4	6224.0	3960.9	3765.8	5123.3	4961.4	4863.9
57.5°	3305.4	4226.9	6671.8	7769.2	6868.2	4160.6	3893.9	5169.1	4842.0	4718.6
60°	3000.2	4159.3	6910.7	8229.6	7062.6	4050.5	3472.6	4617.1	4085.6	3956.2
62.5°	2239.2	3690.9	6447.6	7653.1	6512.6	3498.5	2611.4	3314.0	2935.8	2717.6
65°	1432.4	2887.4	5420.5	6200.1	5368.1	2675.8	1555.2	1776.8	1392.0	1329.6
67.5°	609.7	2038.2	4213.7	4144.0	4016.0	1733.6	600.4	500.3	372.9	366.2
70°	201.7	1386.6	2597.5	2764.0	2398.4	1194.2	198.4	167.9	167.2	161.2
72.5°	132.0	744.4	1462.3	1628.1	1543.2	687.4	120.1	112.1	114.8	112.1
75°	79.0	161.9	246.1	319.8	246.1	115.4	72.3	71.0	72.3	69.0
77.5°	46.4	45.1	43.8	43.8	43.1	39.8	36.5	35.2	35.8	36.5
80°	29.9	28.5	27.2	26.5	23.2	21.9	20.6	19.2	19.2	19.9
82.5°	19.2	17.9	16.6	14.6	11.9	10.0	9.3	8.0	8.0	8.6
85°	10.0	8.0	6.0	4.6	2.7	1.3	0.0	0.0	0.0	0.0
87.5°	2.0	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

(END OF REPORT)