

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: P630822

Luminaire Tested: GWS-SA1E-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-740-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6679.9 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

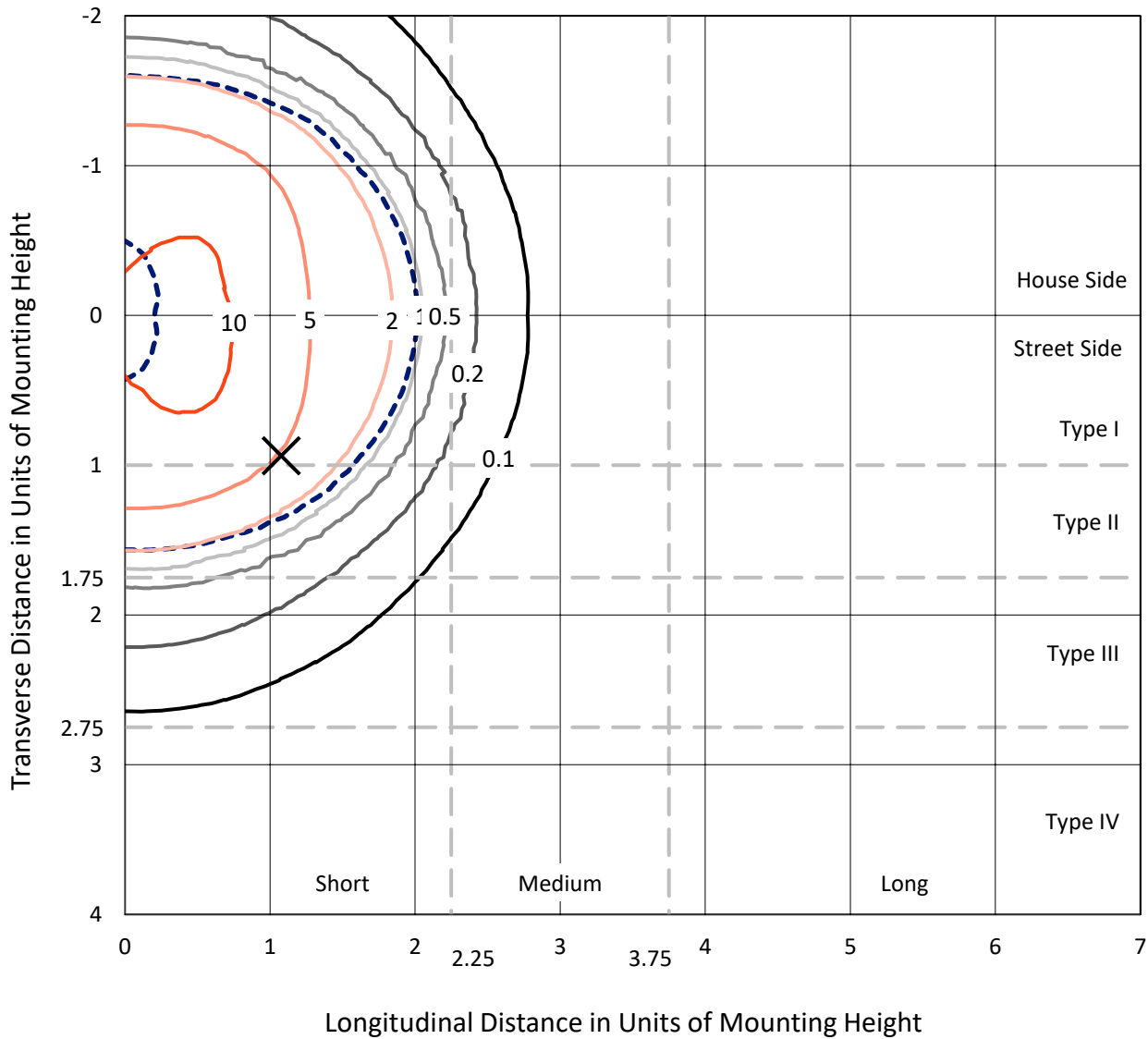
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P630822
 CATALOG NUMBER: GWS-SA1E-740-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

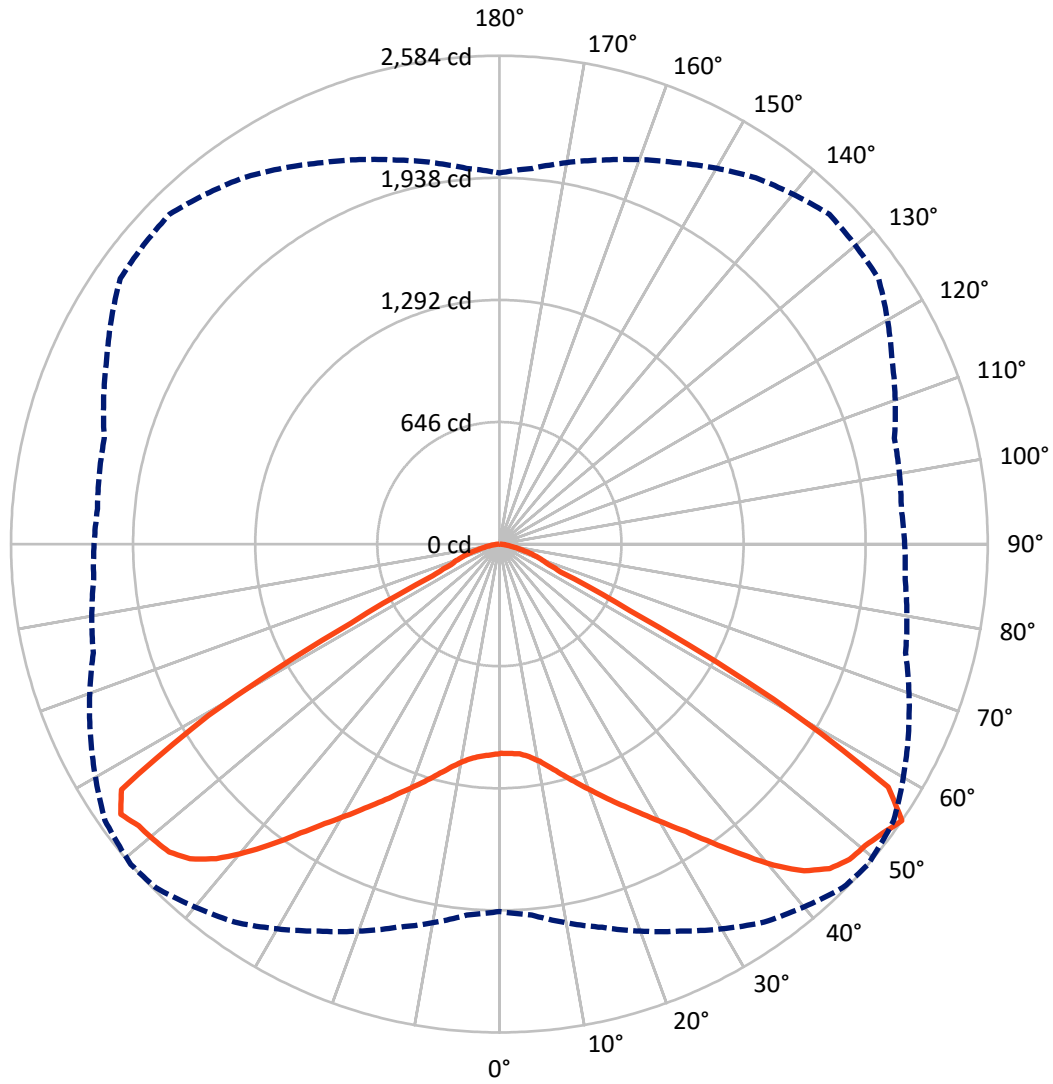
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 fc
 Type V - Short - N/A

REPORT NUMBER: P630822
CATALOG NUMBER: GWS-SA1E-740-U-RW-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P630822

CATALOG NUMBER: GWS-SA1E-740-U-RW-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.2	0.0	3307.2
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	3372.7	0.0	3372.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	6679.9	0.0	6679.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.9	1.6
10°-20°	356.1	5.3
20°-30°	678.2	10.2
30°-40°	1149.7	17.2
40°-50°	1730.1	25.9
50°-60°	1893.8	28.4
60°-70°	598.8	9.0
70°-80°	143.7	2.2
80°-90°	21.6	0.3
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°	6679.9	100.0
0°-180°	6679.9	100.0

Coefficient of Utilization



REPORT NUMBER: P630822

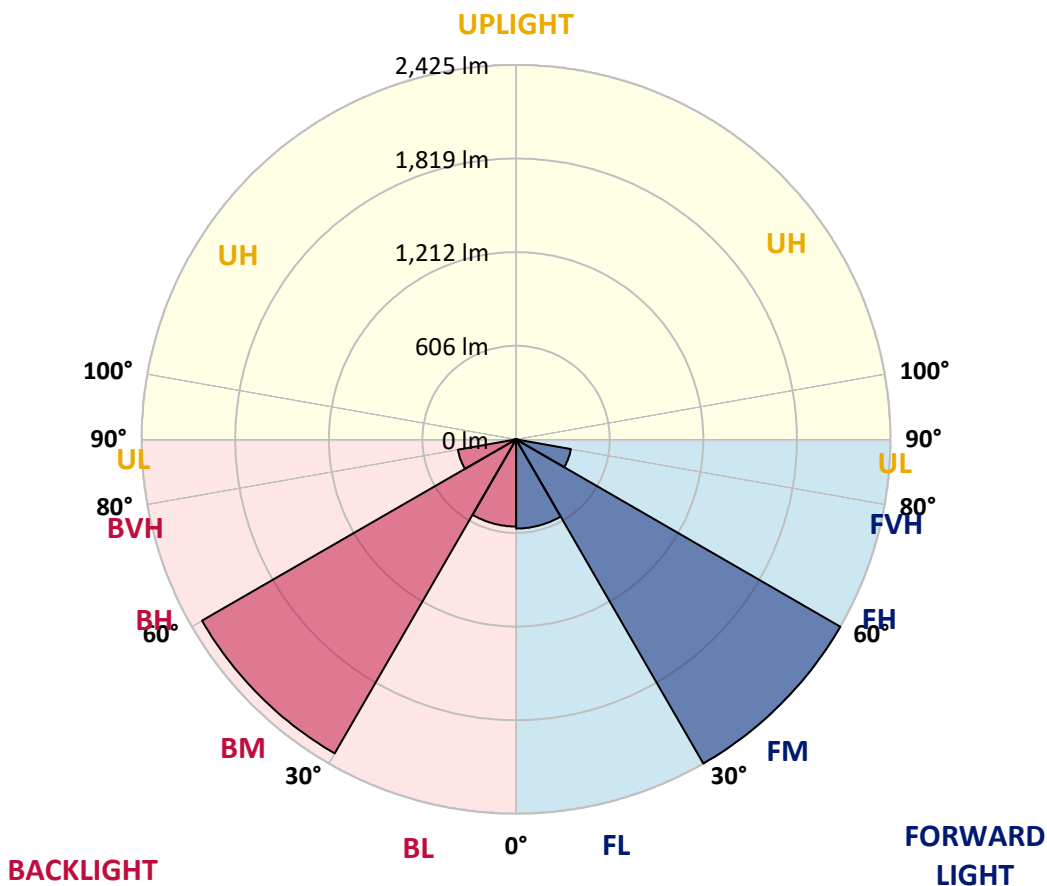
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.5	8.6			
FM (30°-60°)	2425.0	36.3			
FH (60°-80°)	360.2	5.4			G0/660
FVH (80°-90°)	10.0	0.1			G0/10
BL (0°-30°)	564.6	8.5	B2/1000		
BM (30°-60°)	2348.6	35.2	B2/2500		
BH (60°-80°)	382.3	5.7	B1/500		G0/660
BVH (80°-90°)	11.6	0.2			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 V Short





REPORT NUMBER: P630822

CATALOG NUMBER: GWS-SA1E-740-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6
2.5°	1090.3	1091.4	1093.5	1097.3	1101.1	1106.6	1108.7	1111.5	1110.9	1114.2	1114.2
5°	1084.8	1086.5	1089.7	1095.2	1101.7	1112.0	1114.7	1121.2	1127.8	1135.9	1138.6
7.5°	1091.4	1093.5	1097.3	1106.0	1115.8	1129.4	1134.8	1145.7	1158.2	1172.8	1178.8
10°	1103.8	1106.6	1113.1	1127.2	1143.0	1163.6	1168.5	1182.1	1202.2	1222.3	1234.2
12.5°	1118.0	1122.3	1134.3	1156.5	1179.9	1207.1	1214.7	1231.5	1253.2	1279.3	1295.6
15°	1134.3	1138.1	1156.5	1188.1	1224.4	1260.3	1269.0	1285.3	1309.7	1335.3	1358.1
17.5°	1168.5	1175.0	1196.7	1233.1	1275.5	1317.9	1327.7	1346.1	1365.7	1385.8	1407.5
20°	1215.2	1220.6	1248.3	1293.4	1343.4	1382.0	1391.8	1408.1	1417.3	1427.6	1446.1
22.5°	1261.9	1269.5	1301.0	1354.3	1412.9	1454.8	1462.4	1477.6	1471.1	1467.8	1479.8
25°	1320.1	1330.4	1361.3	1419.5	1479.2	1530.8	1536.8	1549.8	1539.0	1522.1	1521.6
27.5°	1392.3	1401.5	1433.6	1493.3	1552.6	1606.3	1617.7	1635.1	1611.2	1590.6	1575.9
30°	1478.1	1484.1	1519.4	1583.0	1643.8	1694.9	1709.6	1726.9	1709.0	1674.8	1660.1
32.5°	1578.1	1586.2	1627.0	1693.8	1748.1	1799.2	1813.9	1835.6	1816.0	1777.5	1759.0
35°	1698.1	1706.3	1749.2	1822.0	1877.4	1930.1	1940.4	1958.4	1933.9	1889.4	1874.7
37.5°	1828.5	1838.8	1893.2	1962.2	2020.3	2081.7	2082.2	2087.6	2052.9	1997.5	1981.2
40°	1975.2	1988.8	2043.1	2114.8	2184.9	2234.9	2234.3	2219.1	2160.4	2074.6	2049.6
42.5°	2120.2	2131.1	2186.0	2259.8	2329.9	2377.2	2363.1	2326.1	2241.4	2124.6	2091.4
45°	2225.1	2233.2	2290.8	2373.9	2445.1	2474.4	2448.9	2404.3	2289.7	2156.1	2107.2
47.5°	2274.5	2285.4	2343.5	2426.1	2506.5	2523.3	2492.9	2451.1	2318.0	2185.4	2119.7
50°	2247.9	2262.0	2327.8	2404.3	2495.1	2529.8	2508.1	2466.3	2347.9	2214.2	2142.0
52.5°	2178.9	2192.5	2275.6	2368.5	2471.2	2540.2	2539.6	2505.4	2382.1	2222.4	2143.1
55°	1943.1	1969.8	2099.1	2259.3	2441.8	2570.6	2583.6	2547.2	2387.5	2224.5	2154.5
57.5°	1264.6	1311.4	1434.1	1642.7	2008.9	2338.1	2426.1	2434.8	2348.4	2215.3	2156.6
60°	528.0	565.5	662.7	801.3	1103.8	1495.5	1666.1	1837.2	2043.6	2118.6	2136.5
62.5°	328.1	331.4	341.2	372.7	473.7	664.9	774.7	934.9	1241.8	1503.1	1623.7
65°	296.1	297.7	299.9	297.7	302.6	325.9	355.3	411.2	536.2	666.0	820.3
67.5°	260.8	262.9	264.6	262.9	264.6	265.6	268.9	273.8	296.6	315.1	329.2
70°	210.8	214.0	216.8	215.7	222.2	222.2	225.4	229.2	240.7	254.2	264.0
72.5°	160.8	158.1	161.3	162.4	168.4	171.7	176.6	180.9	193.9	202.1	214.6
75°	104.3	101.6	106.5	109.2	117.3	121.7	126.0	130.4	139.6	145.0	157.0
77.5°	56.5	56.0	60.8	64.6	73.3	78.8	82.0	85.3	92.9	94.5	102.1
80°	32.6	32.6	35.9	38.6	44.0	50.0	53.2	56.0	61.4	63.0	66.3
82.5°	17.9	17.9	19.6	21.2	25.5	28.8	31.5	33.7	38.6	40.2	41.8
85°	8.7	8.1	9.2	10.3	12.0	13.6	15.2	16.3	20.1	21.2	23.4
87.5°	1.1	1.1	1.1	1.6	2.2	3.3	3.8	3.8	6.0	7.1	8.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P630822

CATALOG NUMBER: GWS-SA1E-740-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6	1106.6
2.5°	1117.4	1110.4	1114.7	1116.3	1116.3	1114.7	1107.7	1105.5	1102.2	1097.3	1097.3
5°	1142.4	1137.0	1138.1	1135.4	1128.8	1120.7	1107.7	1101.1	1095.7	1089.7	1089.2
7.5°	1185.3	1178.3	1177.2	1166.9	1149.5	1132.1	1112.5	1100.6	1092.4	1084.8	1084.3
10°	1241.3	1234.8	1226.6	1206.0	1180.4	1154.9	1128.3	1112.0	1100.0	1089.2	1088.6
12.5°	1303.8	1296.2	1280.9	1250.5	1218.5	1193.5	1163.1	1138.1	1120.1	1105.5	1102.8
15°	1371.7	1360.8	1334.7	1298.9	1267.4	1240.7	1208.2	1172.3	1145.1	1121.8	1119.1
17.5°	1423.8	1409.7	1381.4	1347.8	1321.7	1295.1	1252.7	1207.6	1168.5	1139.2	1134.8
20°	1459.7	1448.3	1416.2	1391.2	1376.0	1352.7	1303.2	1252.2	1208.2	1171.2	1169.0
22.5°	1492.8	1479.2	1447.7	1433.0	1433.0	1417.3	1370.0	1309.7	1258.1	1215.2	1209.8
25°	1530.3	1515.6	1491.7	1490.1	1497.7	1490.6	1433.6	1368.9	1308.6	1260.3	1251.6
27.5°	1582.4	1566.1	1552.0	1561.8	1572.7	1565.1	1501.5	1426.5	1363.0	1314.1	1306.5
30°	1665.6	1645.5	1632.4	1644.4	1665.6	1643.3	1574.3	1495.0	1430.9	1377.1	1373.3
32.5°	1762.2	1739.4	1725.9	1744.9	1763.9	1729.1	1660.7	1584.6	1517.3	1460.8	1454.2
35°	1878.5	1849.7	1829.6	1855.1	1874.7	1840.5	1772.6	1700.3	1625.4	1566.7	1558.0
37.5°	1981.7	1946.9	1933.4	1969.2	1995.3	1973.0	1899.1	1831.2	1749.2	1685.1	1681.3
40°	2056.7	2022.5	2012.7	2071.9	2117.5	2112.1	2045.8	1968.1	1891.0	1817.1	1810.1
42.5°	2089.3	2065.4	2067.5	2147.4	2218.0	2252.8	2193.6	2110.5	2036.0	1959.4	1954.6
45°	2096.3	2081.7	2099.1	2199.0	2291.9	2363.1	2312.5	2243.0	2158.8	2084.9	2082.8
47.5°	2103.9	2095.8	2122.4	2228.3	2338.6	2421.2	2392.9	2321.2	2235.9	2163.7	2158.3
50°	2121.9	2118.6	2148.5	2249.0	2360.9	2436.9	2404.9	2333.7	2246.3	2175.1	2162.1
52.5°	2127.3	2121.9	2164.8	2281.0	2397.8	2436.4	2367.4	2274.5	2186.5	2107.2	2093.6
55°	2144.1	2134.4	2163.7	2293.0	2448.9	2467.9	2365.2	2226.2	2103.4	1995.3	1963.2
57.5°	2148.5	2137.6	2156.6	2273.4	2393.5	2376.6	2079.0	1796.5	1565.1	1445.0	1458.6
60°	2125.1	2128.4	2095.8	2082.8	1919.8	1694.9	1272.8	1017.5	799.1	706.7	726.8
62.5°	1617.7	1631.3	1520.0	1321.7	1016.4	805.6	532.9	413.9	350.4	334.1	336.8
65°	816.5	834.9	719.2	594.8	442.2	357.4	309.1	299.3	296.1	292.3	292.3
67.5°	323.2	328.7	324.3	303.7	282.5	274.9	272.7	271.6	267.8	265.6	266.2
70°	259.7	264.0	257.5	244.5	235.8	235.2	234.1	232.0	229.2	229.2	230.9
72.5°	211.9	216.2	207.0	198.8	192.3	187.4	184.7	183.1	179.3	179.3	180.9
75°	155.9	158.6	151.0	149.9	142.9	138.0	133.6	131.5	126.6	124.4	126.0
77.5°	103.8	103.2	99.4	99.4	96.7	90.7	85.8	80.9	74.4	70.1	71.2
80°	67.4	67.4	65.7	65.7	63.0	58.1	52.2	47.3	43.5	40.2	40.2
82.5°	42.9	42.4	41.8	41.3	40.2	35.3	31.0	27.7	25.0	22.8	23.4
85°	23.9	23.9	22.8	22.8	20.6	17.9	15.8	13.6	12.0	11.4	11.4
87.5°	8.1	8.1	7.6	7.6	6.5	4.9	3.8	3.3	2.7	2.2	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)