

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: P631812

Luminaire Tested: GWS-SA2B-740-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631812
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-SA2B-740-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 6083.7 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

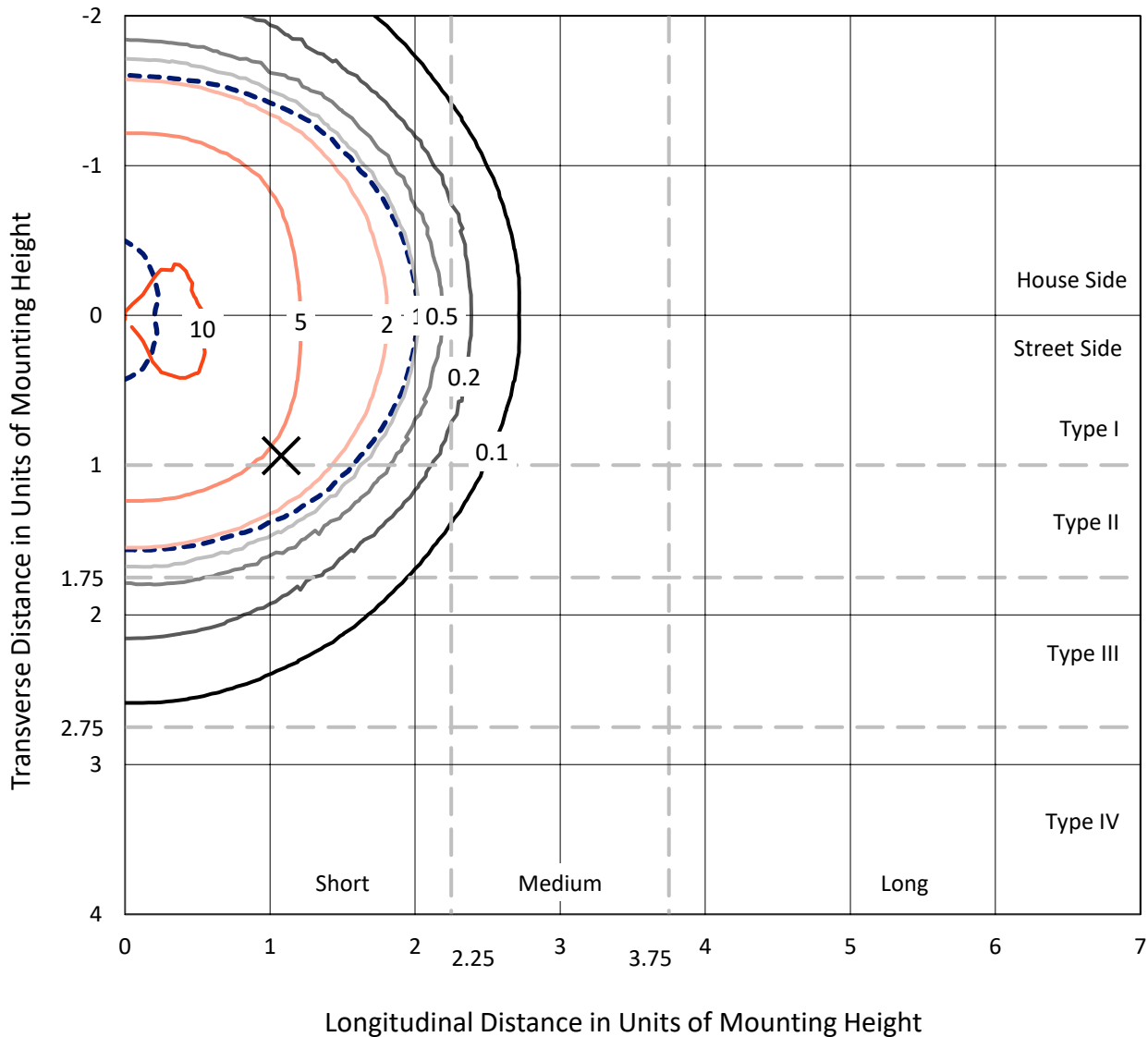
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631812
 CATALOG NUMBER: GWS-SA2B-740-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

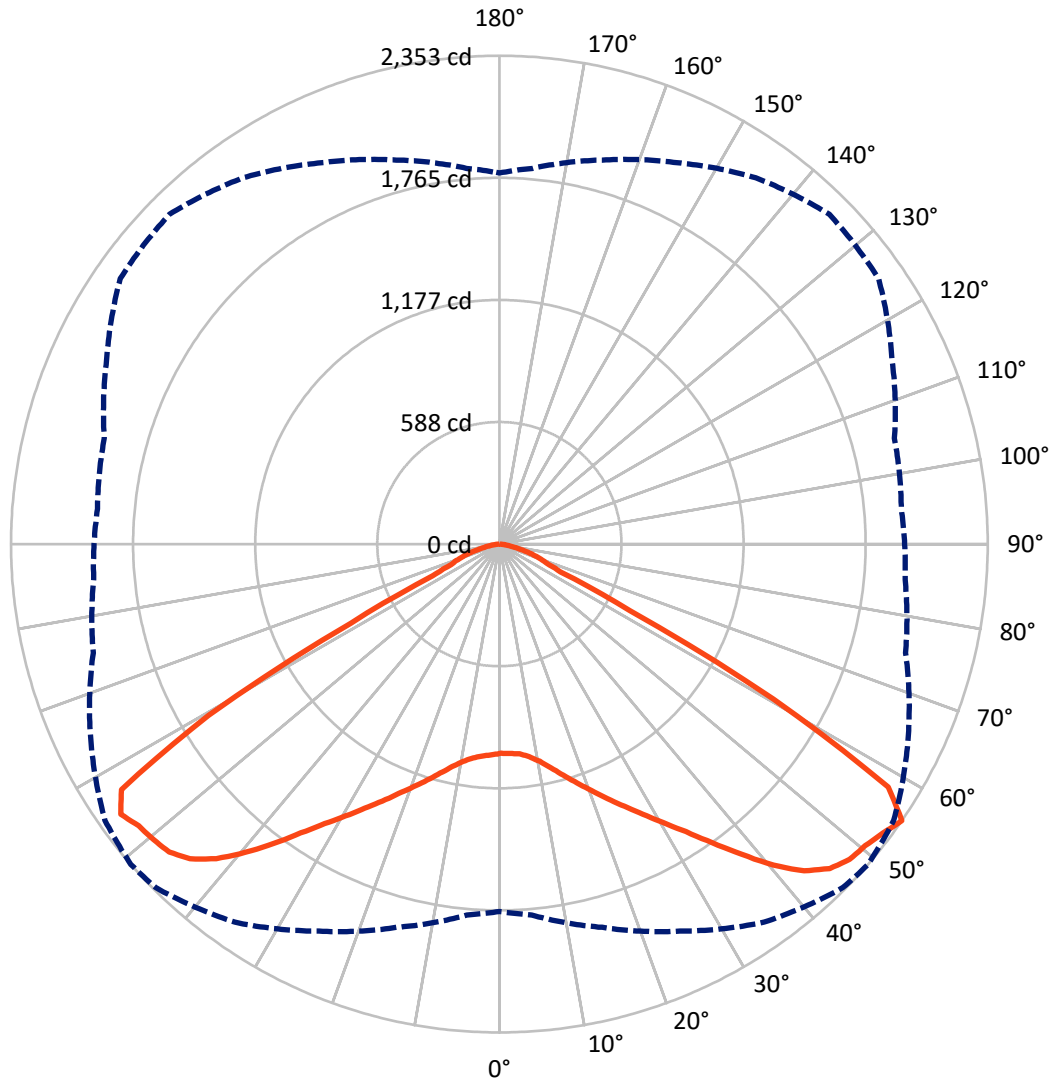
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type V - Short - N/A

REPORT NUMBER: P631812
CATALOG NUMBER: GWS-SA2B-740-U-RW-W-GRSWH

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA2B-740-U-RW-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3012.0	0.0	3012.0
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	3071.7	0.0	3071.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	6083.7	0.0	6083.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	1.6
10°-20°	324.3	5.3
20°-30°	617.6	10.2
30°-40°	1047.0	17.2
40°-50°	1575.7	25.9
50°-60°	1724.8	28.4
60°-70°	545.4	9.0
70°-80°	130.9	2.2
80°-90°	19.6	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°	6083.7	100.0
0°-180°	6083.7	100.0

Coefficient of Utilization



REPORT NUMBER: P631812

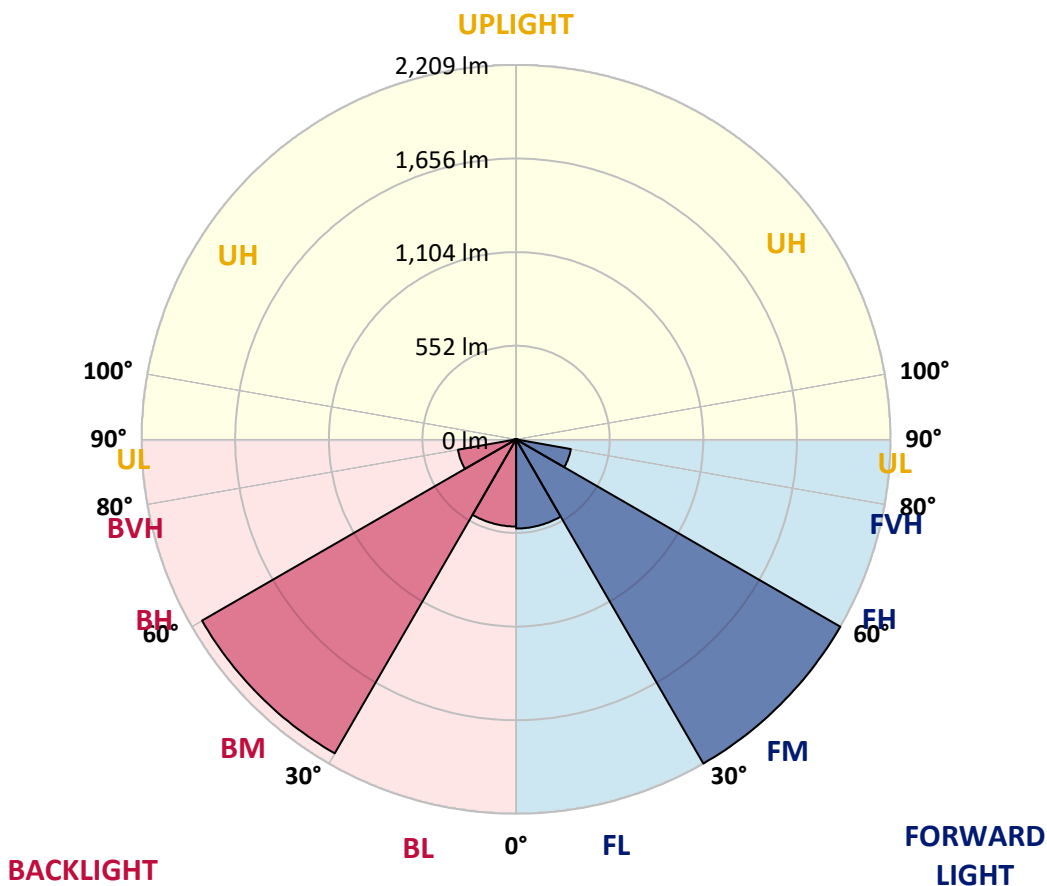
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	526.0	8.6			
FM (30°-60°)	2208.6	36.3			
FH (60°-80°)	328.1	5.4			G0/660
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	514.2	8.5	B2/1000		
BM (30°-60°)	2139.0	35.2	B2/2500		
BH (60°-80°)	348.2	5.7	B1/500		G0/660
BVH (80°-90°)	10.6	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: P631812

CATALOG NUMBER: GWS-SA2B-740-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8
2.5°	993.0	993.9	995.9	999.4	1002.9	1007.8	1009.8	1012.3	1011.8	1014.7	1014.7
5°	988.0	989.5	992.5	997.4	1003.3	1012.7	1015.2	1021.2	1027.1	1034.5	1037.0
7.5°	993.9	995.9	999.4	1007.3	1016.2	1028.6	1033.5	1043.4	1054.8	1068.2	1073.6
10°	1005.3	1007.8	1013.7	1026.6	1040.9	1059.8	1064.2	1076.6	1094.9	1113.2	1124.1
12.5°	1018.2	1022.1	1033.0	1053.3	1074.6	1099.3	1106.3	1121.6	1141.4	1165.1	1180.0
15°	1033.0	1036.5	1053.3	1082.0	1115.2	1147.8	1155.7	1170.6	1192.8	1216.1	1236.9
17.5°	1064.2	1070.1	1089.9	1123.1	1161.7	1200.3	1209.2	1226.0	1243.8	1262.1	1281.9
20°	1106.8	1111.7	1136.9	1178.0	1223.5	1258.6	1267.5	1282.4	1290.8	1300.2	1317.0
22.5°	1149.3	1156.2	1184.9	1233.4	1286.8	1324.9	1331.9	1345.7	1339.8	1336.8	1347.7
25°	1202.2	1211.6	1239.8	1292.8	1347.2	1394.2	1399.6	1411.5	1401.6	1386.3	1385.8
27.5°	1268.0	1276.4	1305.6	1360.1	1414.0	1463.0	1473.4	1489.2	1467.4	1448.6	1435.3
30°	1346.2	1351.7	1383.8	1441.7	1497.1	1543.6	1557.0	1572.8	1556.5	1525.3	1512.0
32.5°	1437.2	1444.7	1481.8	1542.6	1592.1	1638.6	1652.0	1671.8	1653.9	1618.8	1602.0
35°	1546.6	1554.0	1593.1	1659.4	1709.8	1757.8	1767.2	1783.6	1761.3	1720.7	1707.4
37.5°	1665.3	1674.7	1724.2	1787.0	1840.0	1895.9	1896.4	1901.3	1869.7	1819.2	1804.3
40°	1798.9	1811.3	1860.7	1926.1	1989.9	2035.4	2034.9	2021.0	1967.6	1889.4	1866.7
42.5°	1931.0	1940.9	1990.9	2058.2	2122.0	2165.0	2152.2	2118.5	2041.3	1935.0	1904.8
45°	2026.5	2033.9	2086.4	2162.0	2226.9	2253.6	2230.3	2189.8	2085.4	1963.7	1919.1
47.5°	2071.5	2081.4	2134.3	2209.5	2282.8	2298.1	2270.4	2232.3	2111.1	1990.4	1930.5
50°	2047.3	2060.1	2120.0	2189.8	2272.4	2304.0	2284.3	2246.2	2138.3	2016.6	1950.8
52.5°	1984.4	1996.8	2072.5	2157.1	2250.6	2313.4	2312.9	2281.8	2169.5	2024.0	1951.8
55°	1769.7	1794.0	1911.7	2057.7	2223.9	2341.1	2353.0	2319.9	2174.4	2026.0	1962.2
57.5°	1151.8	1194.3	1306.1	1496.1	1829.6	2129.4	2209.5	2217.5	2138.8	2017.6	1964.1
60°	480.9	515.0	603.6	729.8	1005.3	1362.0	1517.4	1673.2	1861.2	1929.5	1945.8
62.5°	298.8	301.8	310.7	339.4	431.4	605.6	705.5	851.5	1131.0	1369.0	1478.8
65°	269.6	271.1	273.1	271.1	275.6	296.8	323.6	374.5	488.3	606.6	747.1
67.5°	237.5	239.5	240.9	239.5	240.9	241.9	244.9	249.4	270.1	287.0	299.8
70°	192.0	194.9	197.4	196.4	202.4	202.4	205.3	208.8	219.2	231.5	240.4
72.5°	146.4	144.0	146.9	147.9	153.4	156.3	160.8	164.8	176.6	184.0	195.4
75°	95.0	92.5	97.0	99.4	106.9	110.8	114.8	118.7	127.2	132.1	143.0
77.5°	51.5	51.0	55.4	58.9	66.8	71.7	74.7	77.7	84.6	86.1	93.0
80°	29.7	29.7	32.7	35.1	40.1	45.5	48.5	51.0	55.9	57.4	60.4
82.5°	16.3	16.3	17.8	19.3	23.3	26.2	28.7	30.7	35.1	36.6	38.1
85°	7.9	7.4	8.4	9.4	10.9	12.4	13.9	14.8	18.3	19.3	21.3
87.5°	1.0	1.0	1.0	1.5	2.0	3.0	3.5	3.5	5.4	6.4	7.4
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: P631812

CATALOG NUMBER: GWS-SA2B-740-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8	1007.8
2.5°	1017.7	1011.3	1015.2	1016.7	1016.7	1015.2	1008.8	1006.8	1003.8	999.4	999.4
5°	1040.5	1035.5	1036.5	1034.0	1028.1	1020.7	1008.8	1002.9	997.9	992.5	992.0
7.5°	1079.5	1073.1	1072.1	1062.7	1046.9	1031.1	1013.2	1002.4	994.9	988.0	987.5
10°	1130.5	1124.6	1117.1	1098.3	1075.1	1051.8	1027.6	1012.7	1001.9	992.0	991.5
12.5°	1187.4	1180.5	1166.6	1138.9	1109.7	1087.0	1059.3	1036.5	1020.2	1006.8	1004.3
15°	1249.2	1239.3	1215.6	1182.9	1154.2	1130.0	1100.3	1067.7	1042.9	1021.7	1019.2
17.5°	1296.7	1283.9	1258.1	1227.5	1203.7	1179.5	1140.9	1099.8	1064.2	1037.5	1033.5
20°	1329.4	1319.0	1289.8	1267.0	1253.2	1231.9	1186.9	1140.4	1100.3	1066.7	1064.7
22.5°	1359.6	1347.2	1318.5	1305.1	1305.1	1290.8	1247.8	1192.8	1145.8	1106.8	1101.8
25°	1393.7	1380.3	1358.6	1357.1	1364.0	1357.6	1305.6	1246.8	1191.8	1147.8	1139.9
27.5°	1441.2	1426.4	1413.5	1422.4	1432.3	1425.4	1367.5	1299.2	1241.3	1196.8	1189.9
30°	1516.9	1498.6	1486.7	1497.6	1516.9	1496.6	1433.8	1361.5	1303.2	1254.2	1250.7
32.5°	1605.0	1584.2	1571.8	1589.1	1606.4	1574.8	1512.4	1443.2	1381.8	1330.4	1324.4
35°	1710.8	1684.6	1666.3	1689.6	1707.4	1676.2	1614.4	1548.6	1480.3	1426.9	1418.9
37.5°	1804.8	1773.2	1760.8	1793.5	1817.2	1796.9	1729.6	1667.8	1593.1	1534.7	1531.2
40°	1873.1	1841.9	1833.0	1887.0	1928.5	1923.6	1863.2	1792.5	1722.2	1654.9	1648.5
42.5°	1902.8	1881.0	1883.0	1955.7	2020.1	2051.7	1997.8	1922.1	1854.3	1784.6	1780.1
45°	1909.2	1895.9	1911.7	2002.7	2087.3	2152.2	2106.1	2042.8	1966.1	1898.8	1896.9
47.5°	1916.2	1908.7	1933.0	2029.5	2129.9	2205.1	2179.4	2114.1	2036.4	1970.6	1965.6
50°	1932.5	1929.5	1956.7	2048.3	2150.2	2219.4	2190.2	2125.4	2045.8	1981.0	1969.1
52.5°	1937.4	1932.5	1971.6	2077.4	2183.8	2218.9	2156.1	2071.5	1991.4	1919.1	1906.8
55°	1952.8	1943.9	1970.6	2088.3	2230.3	2247.6	2154.1	2027.5	1915.7	1817.2	1788.0
57.5°	1956.7	1946.8	1964.1	2070.5	2179.9	2164.5	1893.4	1636.1	1425.4	1316.0	1328.4
60°	1935.5	1938.4	1908.7	1896.9	1748.4	1543.6	1159.2	926.7	727.8	643.7	662.0
62.5°	1473.4	1485.7	1384.3	1203.7	925.7	733.7	485.3	377.0	319.1	304.3	306.7
65°	743.6	760.4	655.0	541.7	402.7	325.5	281.5	272.6	269.6	266.2	266.2
67.5°	294.4	299.3	295.4	276.6	257.3	250.3	248.4	247.4	243.9	241.9	242.4
70°	236.5	240.4	234.5	222.6	214.7	214.2	213.2	211.3	208.8	208.8	210.3
72.5°	193.0	196.9	188.5	181.1	175.1	170.7	168.2	166.7	163.3	163.3	164.8
75°	142.0	144.5	137.5	136.6	130.1	125.7	121.7	119.7	115.3	113.3	114.8
77.5°	94.5	94.0	90.5	90.5	88.1	82.6	78.2	73.7	67.8	63.8	64.8
80°	61.3	61.3	59.9	59.9	57.4	52.9	47.5	43.0	39.6	36.6	36.6
82.5°	39.1	38.6	38.1	37.6	36.6	32.2	28.2	25.2	22.8	20.8	21.3
85°	21.8	21.8	20.8	20.8	18.8	16.3	14.3	12.4	10.9	10.4	10.4
87.5°	7.4	7.4	6.9	6.9	5.9	4.5	3.5	3.0	2.5	2.0	2.5
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)