

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: P639043

Luminaire Tested: GWS-SA5B-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-722-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11510.7 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

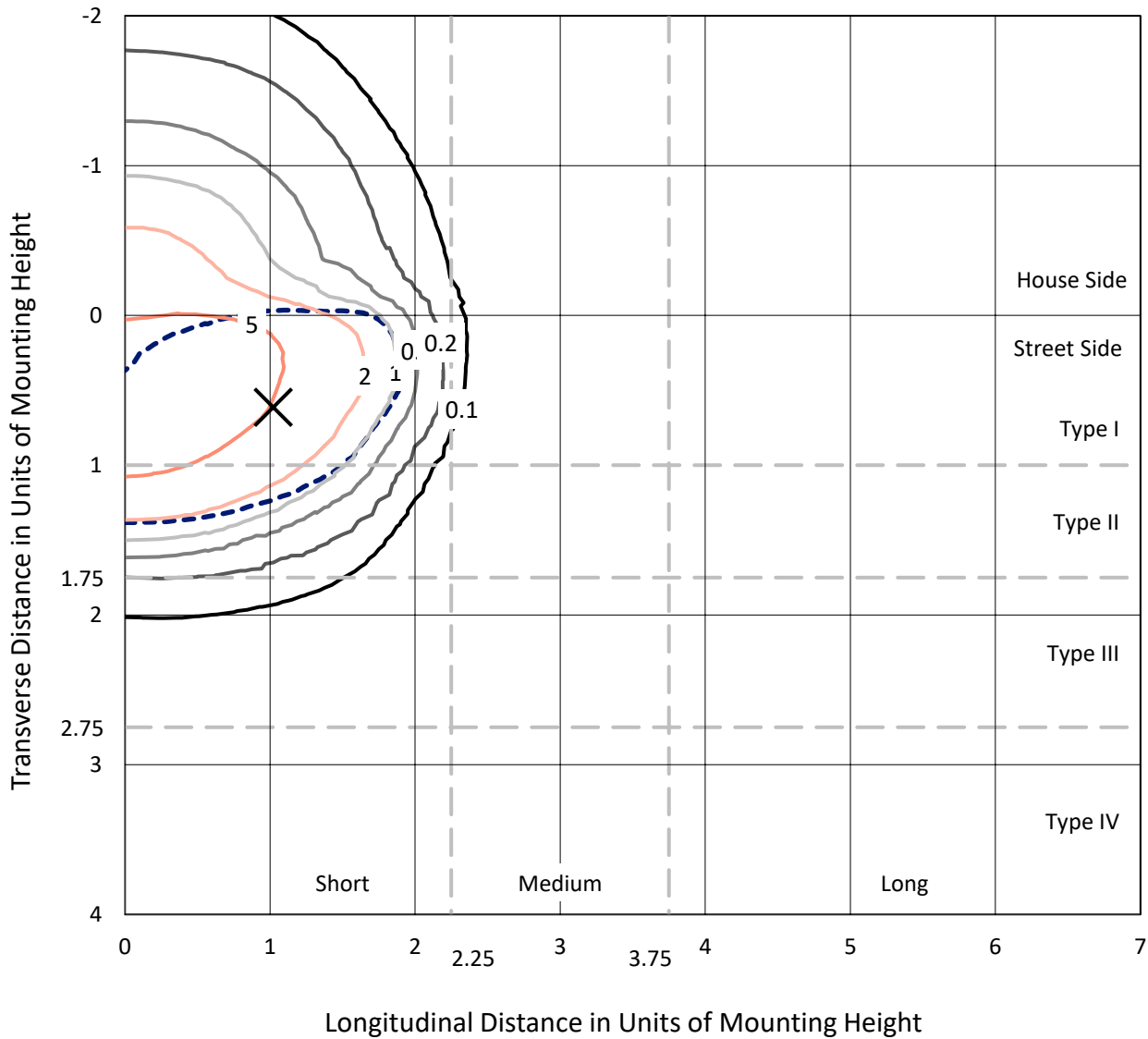
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639043
 CATALOG NUMBER: GWS-SA5B-722-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

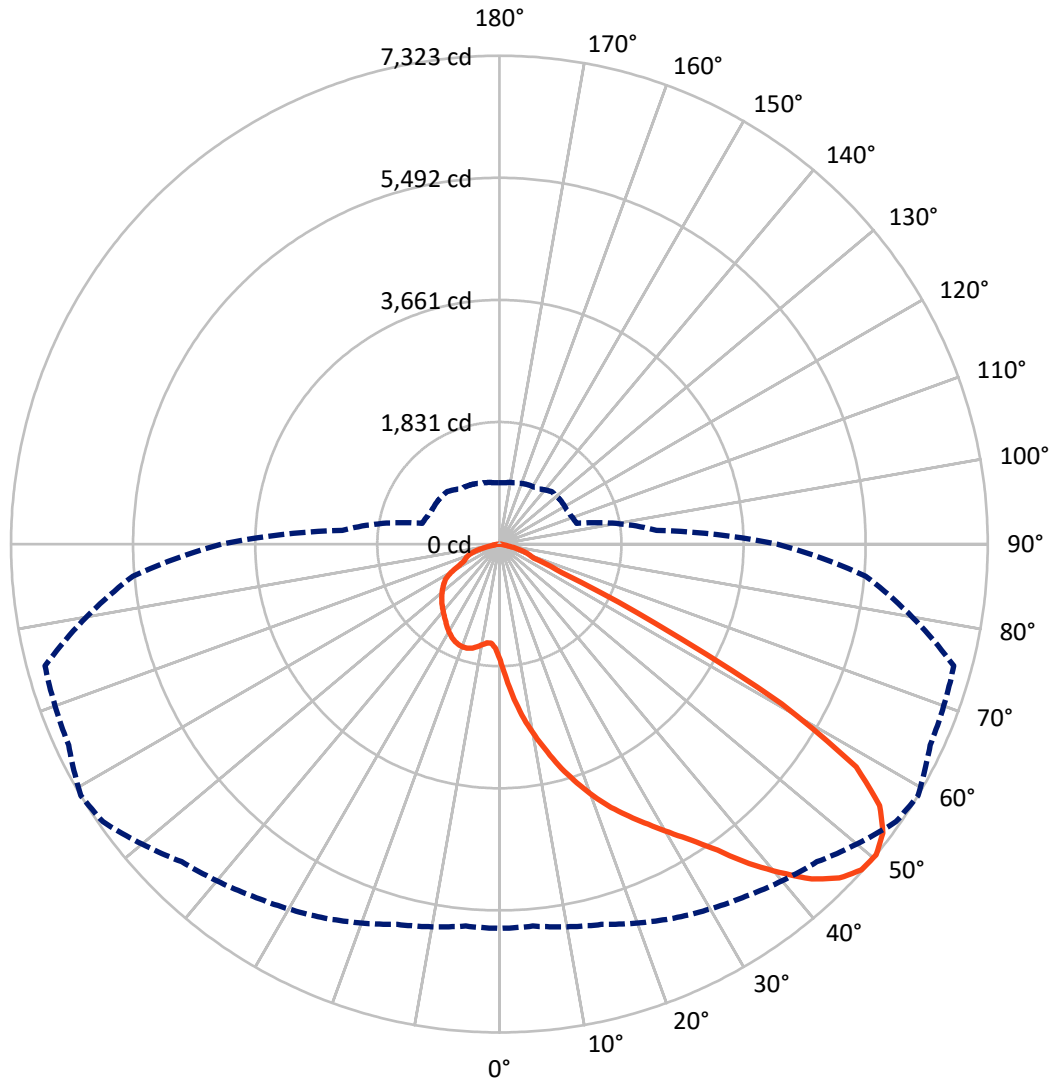
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P639043
CATALOG NUMBER: GWS-SA5B-722-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P639043

CATALOG NUMBER: GWS-SA5B-722-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2647.7	0.0	2647.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	8863.0	0.0	8863.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	11510.7	0.0	11510.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	1.7
10°-20°	710.2	6.2
20°-30°	1344.9	11.7
30°-40°	2230.2	19.4
40°-50°	3046.6	26.5
50°-60°	2765.5	24.0
60°-70°	920.9	8.0
70°-80°	268.6	2.3
80°-90°	28.2	0.2
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°	11510.7	100.0
0°-180°	11510.7	100.0

Coefficient of Utilization



REPORT NUMBER: P639043

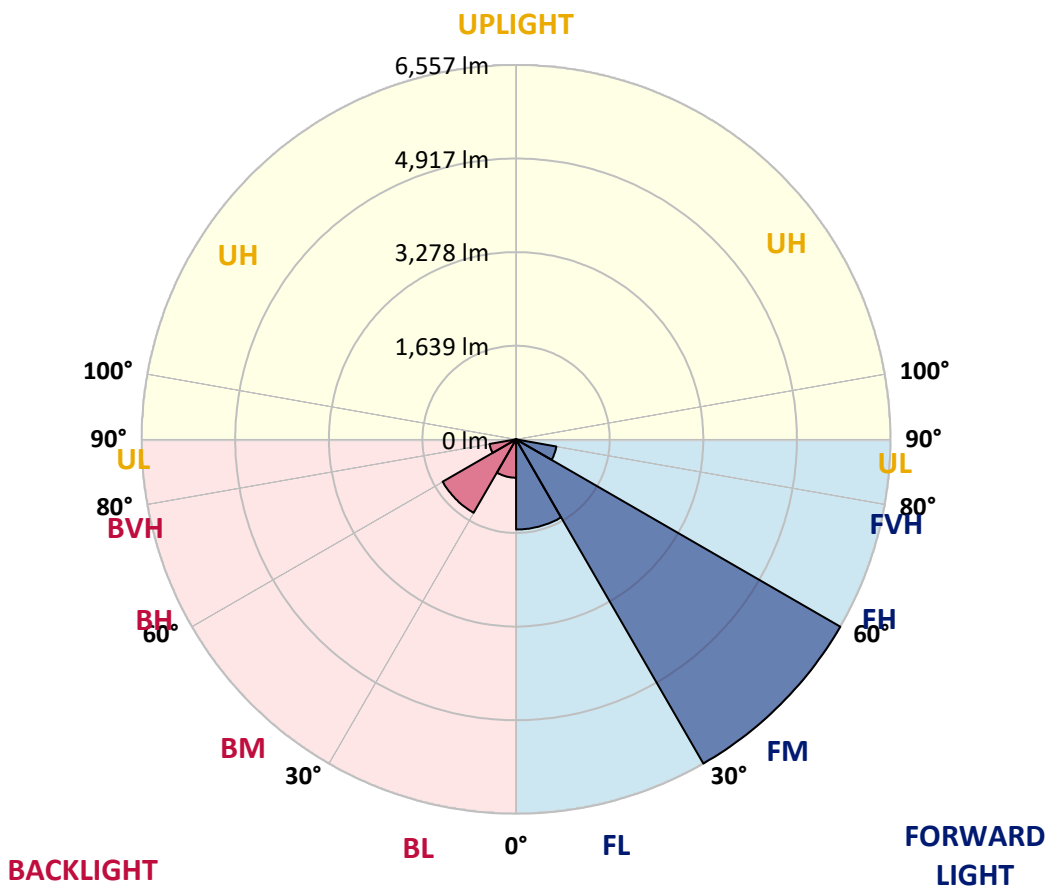
CATALOG NUMBER: GWS-SA5B-722-U-T2R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1578.4	13.7			
FM (30°-60°)	6556.6	57.0			
FH (60°-80°)	717.0	6.2			G1/1800
FVH (80°-90°)	11.0	0.1			G1/100
BL (0°-30°)	672.3	5.8	B2/1000		
BM (30°-60°)	1485.6	12.9	B2/2500		
BH (60°-80°)	472.6	4.1	B1/500		G1/500
BVH (80°-90°)	17.2	0.1			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 II Short





REPORT NUMBER: P639043

CATALOG NUMBER: GWS-SA5B-722-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0
2.5°	2259.6	2276.5	2250.3	2252.1	2186.5	2156.5	2072.1	2022.4	1989.6	1897.7	1814.3
5°	2715.3	2695.6	2675.0	2662.8	2605.6	2525.0	2420.0	2336.5	2259.6	2079.6	1906.2
7.5°	2994.7	2984.4	2970.3	2962.8	2906.6	2822.2	2717.2	2645.9	2534.4	2290.6	2017.7
10°	3231.9	3219.7	3211.3	3216.9	3171.0	3116.6	3002.2	2920.7	2795.0	2513.7	2152.7
12.5°	3415.7	3422.3	3425.1	3455.1	3435.4	3402.6	3284.4	3198.2	3058.5	2749.1	2311.2
15°	3561.0	3559.2	3592.0	3649.2	3681.1	3660.4	3565.7	3493.5	3322.9	2980.7	2481.9
17.5°	3594.8	3596.7	3648.2	3748.6	3852.6	3903.3	3849.8	3763.6	3594.8	3209.4	2659.1
20°	3622.0	3625.7	3679.2	3793.6	3945.5	4087.0	4095.5	4033.6	3888.3	3457.0	2839.1
22.5°	3793.6	3802.0	3816.1	3888.3	4025.2	4204.2	4302.7	4289.6	4167.7	3716.7	3033.2
25°	4244.6	4219.2	4150.8	4130.2	4182.7	4328.0	4495.8	4521.1	4461.1	4002.7	3242.3
27.5°	4801.5	4774.3	4673.0	4566.2	4452.7	4503.3	4682.4	4758.4	4759.3	4317.7	3452.3
30°	5306.9	5285.3	5202.8	5050.0	4854.0	4780.9	4913.1	5015.3	5076.2	4681.5	3691.4
32.5°	5739.1	5719.4	5607.8	5483.1	5291.9	5144.7	5192.5	5290.9	5433.4	5152.2	3988.6
35°	6102.9	6083.2	5976.3	5850.7	5673.5	5585.3	5568.5	5636.0	5820.7	5643.5	4329.9
37.5°	6398.2	6378.6	6267.0	6148.8	6013.8	6019.4	6044.8	6077.6	6183.5	6169.5	4694.6
40°	6589.5	6568.9	6489.2	6404.8	6319.5	6387.0	6512.6	6473.3	6529.5	6594.2	5030.3
42.5°	6674.8	6648.6	6602.6	6583.9	6557.6	6662.6	6904.6	6865.2	6797.7	6877.4	5279.7
45°	6589.5	6567.0	6566.1	6623.3	6684.2	6819.2	7175.5	7143.6	6973.0	7014.3	5428.8
47.5°	6327.9	6308.2	6361.7	6511.7	6661.7	6858.6	7296.5	7302.1	7097.7	7071.4	5525.3
50°	5762.5	5749.4	5904.1	6188.2	6447.0	6735.8	7258.0	7322.7	7127.7	7053.6	5513.1
52.5°	4613.0	4674.0	5010.6	5485.0	5987.6	6520.1	7115.5	7199.9	6983.3	6936.4	5447.5
55°	3157.9	3186.0	3522.6	4215.5	5012.5	6053.2	6788.3	6918.6	6812.7	6916.7	5516.0
57.5°	1635.2	1657.7	1923.0	2538.1	3399.8	4783.7	5879.7	6307.3	6468.6	7016.1	5728.8
60°	671.3	690.1	799.8	1097.0	1714.9	2785.6	4231.4	4865.3	5244.0	6407.6	5087.5
62.5°	487.6	496.9	549.4	654.5	898.2	1365.2	2394.7	2628.1	2894.4	4015.8	3230.1
65°	410.7	421.0	463.2	526.9	655.4	837.3	1022.9	1028.6	1133.6	1636.1	1197.3
67.5°	344.1	353.5	391.0	445.4	529.7	594.4	549.4	550.4	548.5	593.5	573.8
70°	268.2	275.7	313.2	371.3	415.4	381.6	429.4	475.4	455.7	473.5	500.7
72.5°	196.0	204.4	237.2	281.3	270.0	271.9	347.9	394.7	383.5	403.2	428.5
75°	141.6	147.2	164.1	140.6	148.1	179.1	244.7	270.0	281.3	298.2	320.7
77.5°	45.9	45.9	51.6	64.7	80.6	99.4	124.7	135.0	151.9	170.6	186.6
80°	23.4	24.4	29.1	35.6	45.0	57.2	73.1	77.8	86.3	96.6	103.1
82.5°	11.3	12.2	14.1	17.8	23.4	30.0	40.3	45.0	50.6	57.2	61.9
85°	2.8	2.8	3.8	5.6	7.5	11.3	15.0	17.8	22.5	27.2	30.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.9	2.8	3.8	4.7	5.6	7.5
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: P639043
 CATALOG NUMBER: GWS-SA5B-722-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0	1744.0
2.5°	1776.8	1724.3	1656.8	1599.6	1547.1	1506.7	1472.0	1455.2	1439.2	1428.0	1431.7
5°	1825.5	1735.5	1609.9	1522.7	1469.2	1442.0	1423.3	1413.9	1412.0	1404.5	1401.7
7.5°	1896.8	1768.3	1600.5	1512.4	1476.7	1462.7	1452.4	1446.7	1449.5	1442.0	1439.2
10°	1984.9	1822.7	1623.9	1546.1	1515.2	1504.9	1493.6	1486.1	1482.4	1471.1	1469.2
12.5°	2094.6	1890.2	1666.1	1589.2	1558.3	1540.5	1525.5	1512.4	1503.9	1489.9	1486.1
15°	2212.8	1965.2	1715.8	1631.4	1594.9	1568.6	1544.2	1524.6	1509.6	1490.8	1488.0
17.5°	2341.2	2044.0	1757.1	1660.5	1613.6	1578.9	1543.3	1514.2	1493.6	1469.2	1466.4
20°	2475.3	2123.7	1788.0	1674.6	1614.6	1567.7	1519.9	1481.4	1455.2	1430.8	1428.9
22.5°	2614.1	2196.8	1806.8	1670.8	1599.6	1541.4	1484.2	1441.1	1410.2	1381.1	1379.2
25°	2753.8	2267.1	1811.5	1655.8	1569.6	1502.0	1444.9	1394.2	1359.5	1326.7	1323.0
27.5°	2895.3	2326.2	1800.2	1625.8	1529.2	1456.1	1398.9	1349.2	1313.6	1280.8	1275.1
30°	3046.3	2376.8	1775.8	1586.4	1482.4	1407.4	1351.1	1313.6	1279.8	1247.0	1241.4
32.5°	3207.6	2420.9	1741.1	1538.6	1428.0	1358.6	1317.3	1283.6	1249.8	1220.8	1215.1
35°	3399.8	2450.0	1689.6	1476.7	1377.3	1323.0	1294.8	1255.5	1214.2	1182.3	1179.5
37.5°	3598.5	2472.5	1627.7	1417.7	1333.3	1302.3	1278.9	1225.5	1173.9	1135.4	1130.8
40°	3790.8	2491.2	1550.8	1362.3	1293.0	1287.3	1255.5	1188.9	1099.8	1056.7	1052.9
42.5°	3969.8	2496.9	1470.2	1303.3	1256.4	1253.6	1218.0	1114.8	1046.4	1019.2	1015.4
45°	4092.7	2492.2	1386.7	1248.0	1219.8	1204.8	1167.3	1061.4	1019.2	994.8	990.1
47.5°	4183.6	2467.8	1293.0	1189.8	1178.6	1157.9	1077.3	1027.6	988.2	963.9	959.2
50°	4167.7	2366.5	1198.3	1133.6	1128.9	1111.1	1011.7	985.4	950.7	924.5	920.7
52.5°	4085.2	2174.3	1101.7	1071.7	1081.1	1046.4	964.8	934.8	904.8	874.8	868.2
55°	4105.8	2035.5	1028.6	1011.7	1028.6	949.8	912.3	880.4	852.3	823.2	817.6
57.5°	4195.8	1898.7	950.7	947.0	964.8	875.7	844.8	804.5	764.2	740.7	740.7
60°	3523.5	1383.9	813.8	823.2	863.5	815.7	788.5	747.3	703.2	682.6	682.6
62.5°	2083.4	868.2	675.1	664.8	690.1	720.1	735.1	701.3	648.8	621.6	622.6
65°	917.9	631.9	595.4	586.9	579.4	600.1	641.3	644.1	588.8	556.9	557.9
67.5°	565.4	571.9	556.9	550.4	543.8	540.1	536.3	538.2	523.2	494.1	493.2
70°	510.1	527.9	517.6	511.9	503.5	496.9	474.4	437.9	412.5	405.0	413.5
72.5°	438.8	463.2	457.6	454.7	444.4	428.5	398.5	362.9	332.9	314.1	317.8
75°	331.0	350.7	353.5	354.4	343.2	328.2	297.2	267.2	241.0	221.3	226.0
77.5°	190.3	201.6	204.4	207.2	198.8	193.1	172.5	151.0	136.9	116.3	121.9
80°	105.9	110.6	110.6	111.6	106.9	100.3	86.3	74.1	67.5	58.1	59.1
82.5°	63.8	65.6	66.6	67.5	64.7	58.1	47.8	39.4	35.6	30.9	30.0
85°	30.9	32.8	32.8	33.8	29.1	25.3	19.7	15.0	13.1	9.4	10.3
87.5°	7.5	8.4	8.4	7.5	6.6	4.7	2.8	0.9	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

(END OF REPORT)