

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: P638055

Luminaire Tested: GWS-SA4E-722-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-722-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22985.3 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
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

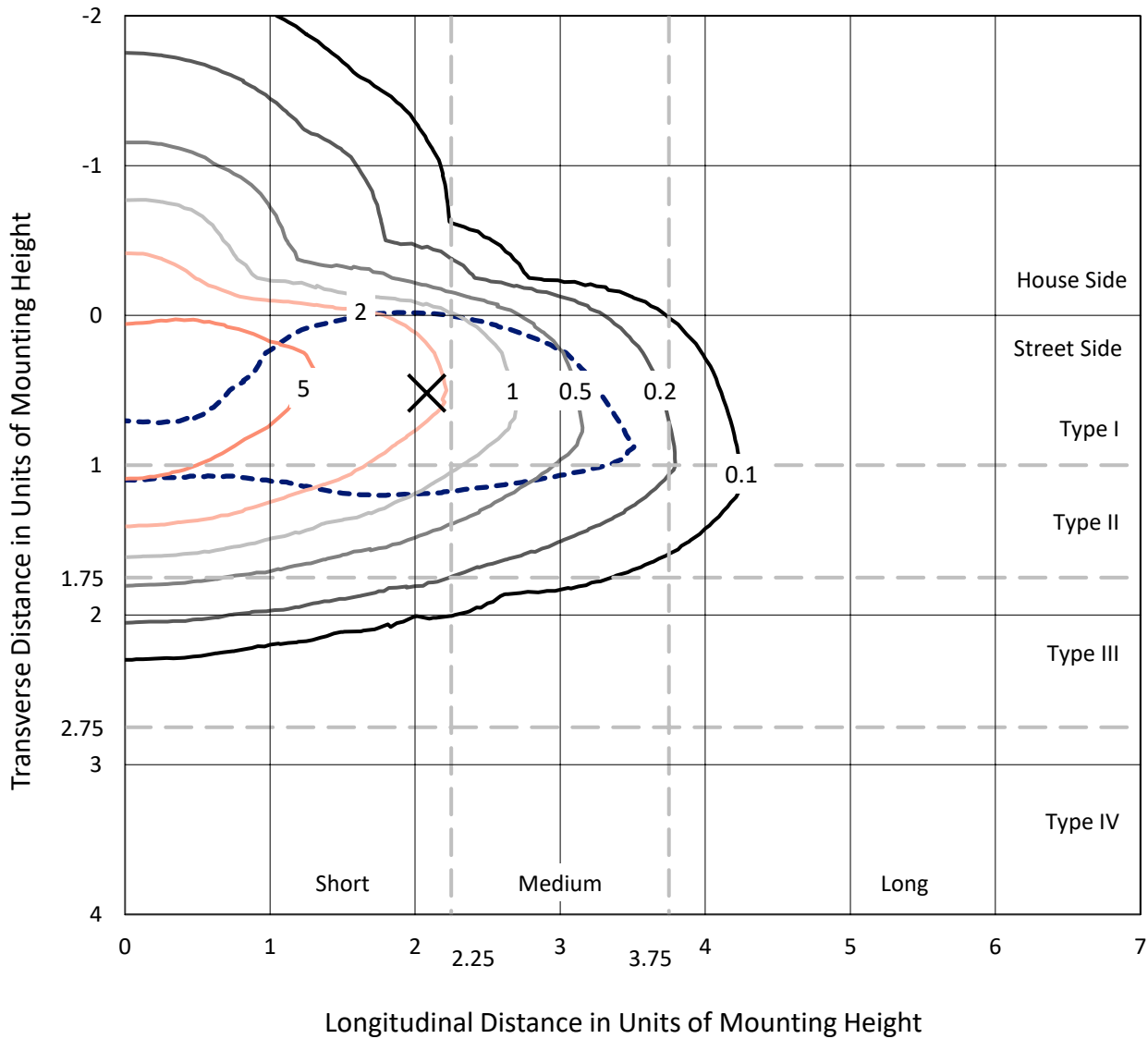


REPORT NUMBER: P638055

CATALOG NUMBER: GWS-SA4E-722-U-T2R-W

### Iso-Footcandle Lines of Horizontal Illumination

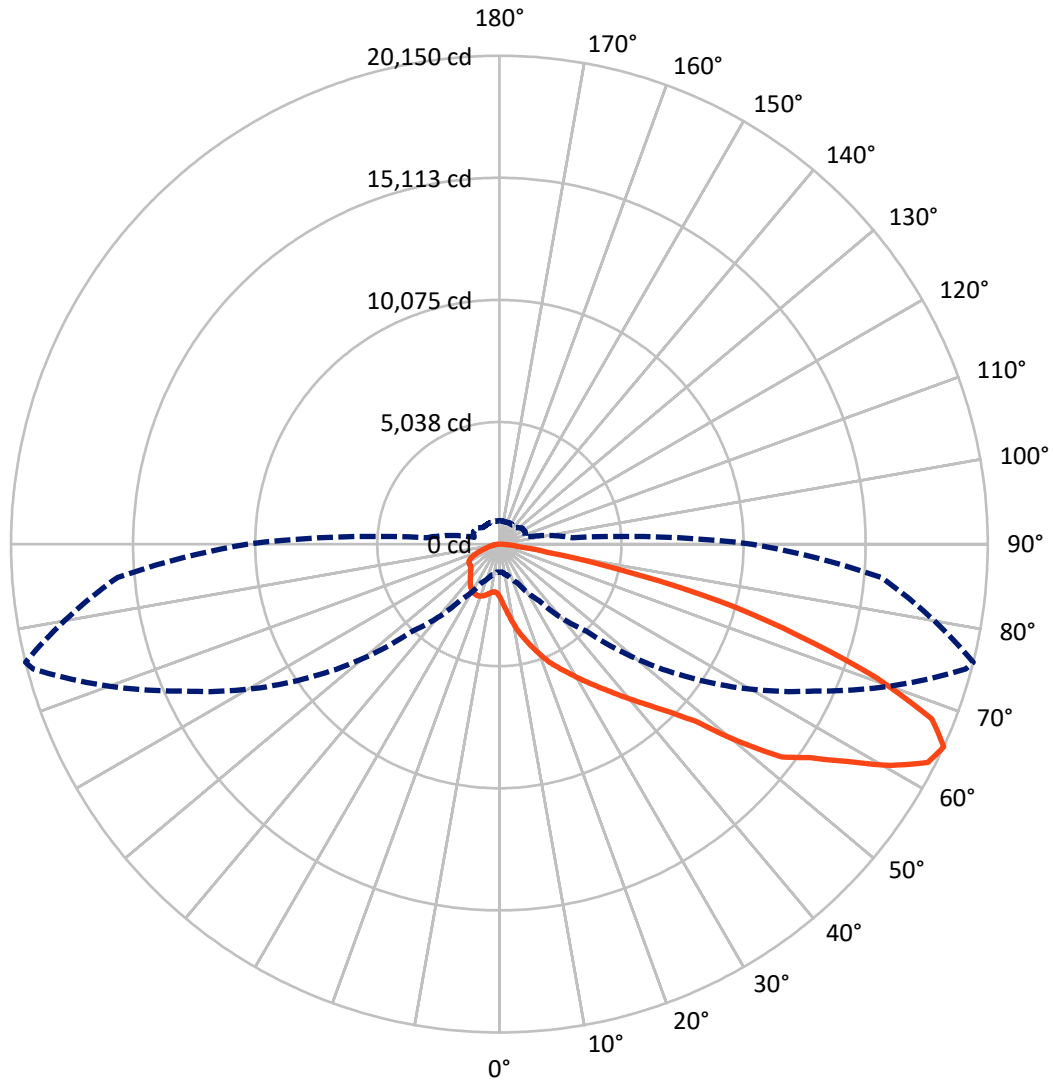
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

REPORT NUMBER: P638055  
CATALOG NUMBER: GWS-SA4E-722-U-T2R-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P638055

CATALOG NUMBER: GWS-SA4E-722-U-T2R-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3842.0	0.0	3842.0
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	19143.3	0.0	19143.3
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	22985.3	0.0	22985.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.6	1.1
10°-20°	985.0	4.3
20°-30°	1919.5	8.4
30°-40°	3210.3	14.0
40°-50°	4596.6	20.0
50°-60°	5441.7	23.7
60°-70°	4524.8	19.7
70°-80°	1851.7	8.1
80°-90°	197.1	0.9
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°	22985.3	100.0
0°-180°	22985.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638055

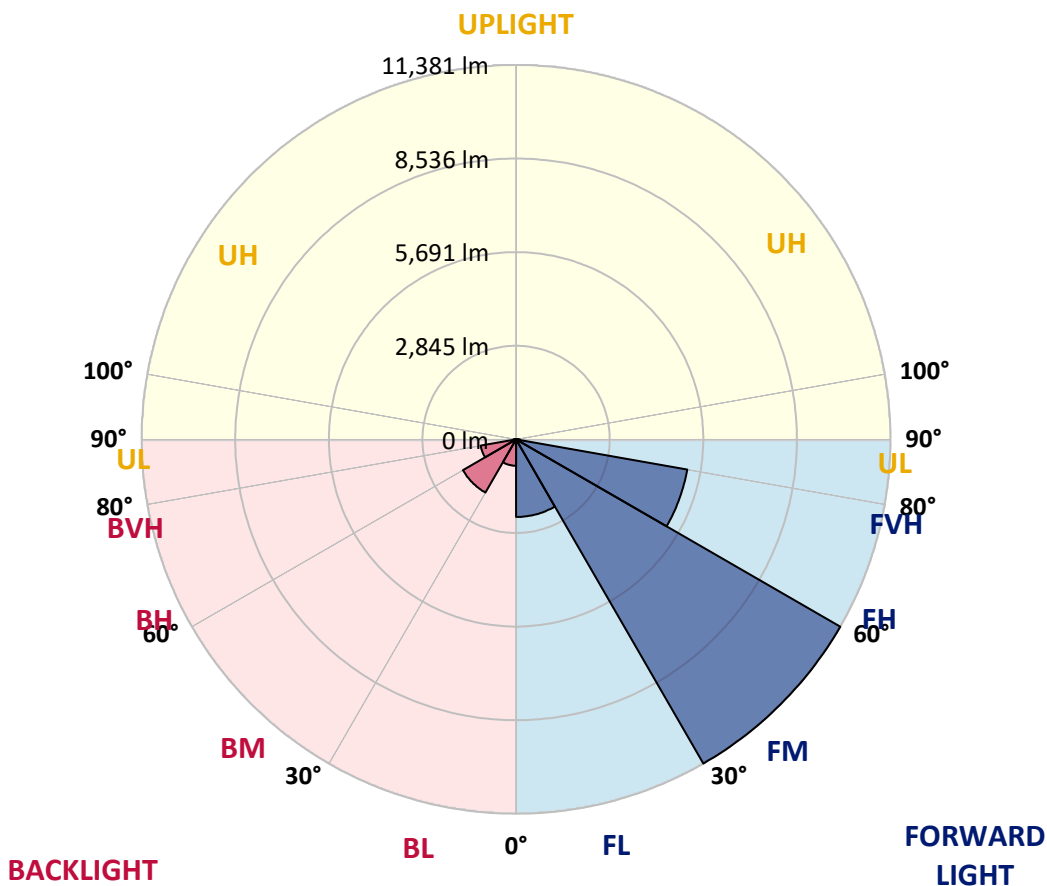
CATALOG NUMBER: GWS-SA4E-722-U-T2R-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2359.4	10.3			
FM (30°-60°)	11381.5	49.5			
FH (60°-80°)	5284.9	23.0			G3/7500
FVH (80°-90°)	117.6	0.5			G2/225
BL (0°-30°)	803.7	3.5	B2/1000		
BM (30°-60°)	1867.1	8.1	B2/2500		
BH (60°-80°)	1091.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	79.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P638055

CATALOG NUMBER: GWS-SA4E-722-U-T2R-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6
2.5°	3050.8	3062.1	3025.0	3012.0	2924.8	2806.8	2708.3	2559.6	2422.2	2401.2	2278.4
5°	3874.9	3826.5	3784.4	3757.0	3635.8	3501.7	3293.2	3013.7	2721.2	2685.6	2420.6
7.5°	4364.6	4356.5	4304.8	4288.6	4194.9	4060.8	3845.9	3498.4	3073.4	3015.3	2612.9
10°	4757.2	4752.4	4726.5	4741.1	4655.4	4524.5	4316.1	3957.3	3459.7	3401.5	2827.8
12.5°	5099.8	5107.9	5103.0	5156.4	5112.7	5010.9	4794.4	4400.1	3845.9	3782.8	3089.6
15°	5350.3	5356.7	5381.0	5497.3	5521.5	5500.5	5280.8	4834.8	4227.2	4136.7	3359.5
17.5°	5421.4	5434.3	5492.5	5679.9	5810.8	5898.1	5734.8	5277.5	4602.1	4503.5	3634.2
20°	5516.7	5531.2	5589.4	5784.9	5977.2	6176.0	6146.9	5726.8	4980.2	4899.4	3912.1
22.5°	5957.8	5946.5	5920.7	6014.4	6151.7	6399.0	6471.7	6158.2	5371.3	5293.7	4219.1
25°	6807.8	6786.8	6622.0	6536.3	6491.1	6641.4	6770.6	6550.9	5752.6	5636.3	4505.1
27.5°	7745.0	7733.7	7523.6	7320.0	7042.1	6977.5	7053.4	6893.4	6122.7	6004.7	4754.0
30°	8632.2	8598.2	8378.5	8123.2	7751.5	7473.6	7362.1	7229.6	6528.3	6405.4	5044.9
32.5°	9425.6	9381.9	9123.4	8840.6	8451.2	8123.2	7790.3	7586.7	6987.2	6845.0	5342.2
35°	10076.8	10033.1	9768.1	9467.6	9039.4	8797.0	8341.3	7974.5	7454.2	7310.4	5692.8
37.5°	10580.9	10540.5	10264.2	9968.5	9595.2	9402.9	9007.0	8410.8	7992.3	7842.0	6064.5
40°	10863.7	10834.6	10613.3	10379.0	10065.5	9899.0	9721.3	8961.8	8595.0	8444.7	6502.4
42.5°	10949.4	10930.0	10774.8	10653.7	10442.0	10315.9	10417.7	9609.8	9238.1	9107.2	6995.2
45°	10734.5	10734.5	10689.2	10750.6	10760.3	10758.7	11115.8	10341.8	10028.3	9884.5	7690.1
47.5°	10185.0	10220.6	10286.8	10589.0	10907.4	11174.0	11931.8	11317.8	11044.7	10926.7	8674.2
50°	9180.0	9276.9	9503.1	10092.9	10770.0	11448.7	12704.2	12760.8	13021.0	12812.5	10122.0
52.5°	7707.9	7693.3	8270.2	9110.5	10143.0	11460.0	13129.2	14034.1	14733.8	14590.0	11198.2
55°	6125.9	6101.7	6639.8	7798.4	9181.6	11026.9	13384.5	14617.5	15684.0	15554.7	12166.1
57.5°	4691.0	4660.3	5138.6	6184.1	7824.2	10107.5	13336.1	15312.3	16991.2	16925.0	13481.5
60°	3228.6	3191.4	3639.0	4553.6	6218.0	8701.6	12799.6	15669.4	18521.5	18544.1	14888.9
62.5°	1939.1	1918.1	2242.9	2952.3	4472.8	6959.7	11544.0	15452.9	19739.9	19841.7	15793.8
65°	1169.9	1155.4	1346.0	1761.3	2837.5	5078.8	9608.2	14346.0	19916.0	20150.3	15814.9
67.5°	851.6	853.2	908.1	1073.0	1654.7	3280.3	7210.2	12361.7	18998.2	19240.6	14817.8
70°	740.1	743.3	772.4	809.6	1000.2	1877.7	4687.7	9758.4	16285.1	16472.5	12427.9
72.5°	657.7	657.7	677.1	696.5	782.1	1144.1	2511.1	6820.7	12852.9	12903.0	9485.4
75°	578.5	573.6	583.3	593.0	678.7	799.9	1221.6	4752.4	9493.4	9377.1	6130.7
77.5°	460.5	455.7	457.3	467.0	544.6	572.0	618.9	2968.4	5350.3	5049.7	2708.3
80°	328.0	324.8	342.6	366.8	402.4	350.7	387.8	1436.5	2121.7	1974.6	1050.3
82.5°	195.5	202.0	229.5	248.8	277.9	219.8	250.5	479.9	751.4	732.0	426.6
85°	27.5	29.1	82.4	95.3	119.6	85.6	132.5	216.5	300.6	321.6	150.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.3	38.8	85.6	87.3	37.2
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: P638055  
 CATALOG NUMBER: GWS-SA4E-722-U-T2R-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6
2.5°	2215.4	2139.5	2031.2	1940.7	1864.8	1803.3	1751.6	1712.9	1701.5	1685.4	1685.4
5°	2296.2	2158.8	1964.9	1827.6	1748.4	1701.5	1669.2	1653.1	1645.0	1635.3	1630.4
7.5°	2407.7	2215.4	1953.6	1814.7	1753.3	1724.2	1703.2	1693.5	1687.0	1677.3	1677.3
10°	2561.2	2299.4	1989.2	1859.9	1811.4	1782.3	1758.1	1741.9	1727.4	1712.9	1709.6
12.5°	2727.6	2409.3	2053.8	1921.3	1869.6	1834.1	1800.1	1775.9	1758.1	1740.3	1735.5
15°	2911.9	2522.4	2123.3	1981.1	1916.5	1868.0	1827.6	1790.4	1766.2	1740.3	1737.1
17.5°	3092.8	2637.2	2181.5	2021.5	1939.1	1879.3	1821.1	1772.6	1741.9	1712.9	1704.8
20°	3309.4	2751.9	2221.9	2032.8	1934.2	1855.1	1785.6	1724.2	1690.2	1656.3	1651.5
22.5°	3508.1	2858.5	2241.3	2016.6	1897.1	1803.3	1722.6	1656.3	1619.1	1585.2	1578.7
25°	3700.4	2952.3	2233.2	1977.9	1840.5	1732.2	1648.2	1582.0	1546.4	1510.9	1501.2
27.5°	3886.2	3015.3	2200.9	1918.1	1769.4	1653.1	1572.3	1512.5	1481.8	1451.1	1438.2
30°	4068.8	3073.4	2150.8	1840.5	1678.9	1570.7	1504.4	1462.4	1431.7	1399.4	1389.7
32.5°	4253.1	3115.5	2074.8	1750.0	1586.8	1497.9	1457.5	1426.8	1394.5	1362.2	1352.5
35°	4438.9	3133.2	1982.7	1646.6	1509.3	1451.1	1436.5	1401.0	1357.4	1318.6	1305.7
37.5°	4660.3	3149.4	1868.0	1544.8	1441.4	1428.5	1425.2	1371.9	1320.2	1266.9	1252.3
40°	4926.9	3170.4	1750.0	1452.7	1386.4	1420.4	1407.5	1334.7	1231.3	1179.6	1163.5
42.5°	5253.3	3209.2	1627.2	1368.7	1346.0	1389.7	1375.1	1244.2	1174.8	1145.7	1137.6
45°	5733.2	3351.4	1504.4	1302.4	1315.3	1346.0	1323.4	1190.9	1163.5	1144.1	1134.4
47.5°	6588.0	3569.5	1397.8	1252.3	1291.1	1307.3	1220.0	1176.4	1155.4	1129.5	1118.2
50°	7476.8	3664.9	1312.1	1221.6	1263.6	1271.7	1163.5	1157.0	1142.4	1115.0	1103.7
52.5°	8077.9	3651.9	1260.4	1210.3	1241.0	1210.3	1137.6	1136.0	1126.3	1094.0	1081.0
55°	8756.6	3674.6	1237.8	1213.5	1231.3	1106.9	1105.3	1110.1	1105.3	1069.7	1063.3
57.5°	9672.8	3744.1	1226.5	1224.9	1224.9	1056.8	1074.6	1081.0	1071.3	1055.2	1050.3
60°	10553.5	3748.9	1205.5	1237.8	1220.0	1026.1	1039.0	1045.5	1034.2	1030.9	1029.3
62.5°	10884.7	3516.2	1158.6	1228.1	1200.6	992.2	1001.9	1005.1	993.8	1001.9	1000.2
65°	10391.9	3021.7	1081.0	1181.2	1140.8	961.5	955.0	963.1	943.7	964.7	966.3
67.5°	9226.8	2401.2	963.1	1092.4	1056.8	927.5	914.6	914.6	882.3	914.6	913.0
70°	7439.6	1696.7	790.2	950.2	964.7	887.1	880.7	843.5	791.8	840.3	835.4
72.5°	5639.5	1218.4	622.1	751.4	830.6	830.6	832.2	769.2	709.4	732.0	712.6
75°	3572.8	858.0	497.7	575.3	651.2	728.8	765.9	649.6	596.3	586.6	576.9
77.5°	1609.4	564.0	387.8	441.1	462.1	575.3	699.7	559.1	486.4	465.4	458.9
80°	673.8	350.7	276.3	311.9	284.4	483.2	617.3	434.7	357.1	328.0	307.0
82.5°	295.7	208.5	176.1	168.1	177.7	358.7	460.5	289.2	223.0	302.2	305.4
85°	124.4	109.9	90.5	82.4	72.7	137.4	216.5	113.1	139.0	79.2	64.6
87.5°	29.1	32.3	24.2	16.2	9.7	1.6	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

(END OF REPORT)