

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: P641338

Luminaire Tested: GWS-SA5F-760-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641338  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40441.8 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
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

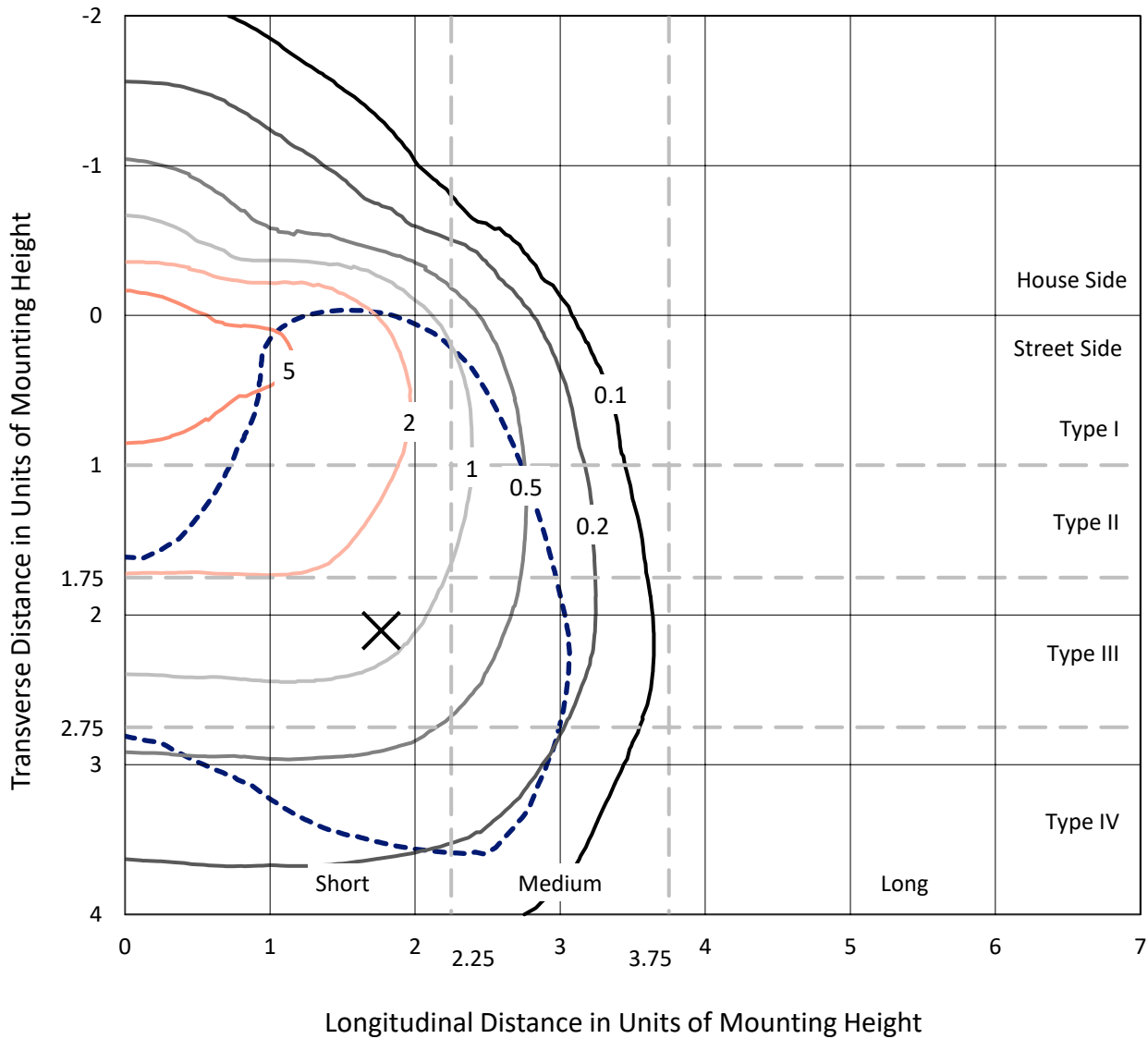


REPORT NUMBER: P641338

CATALOG NUMBER: GWS-SA5F-760-U-SL4-W

### Iso-Footcandle Lines of Horizontal Illumination

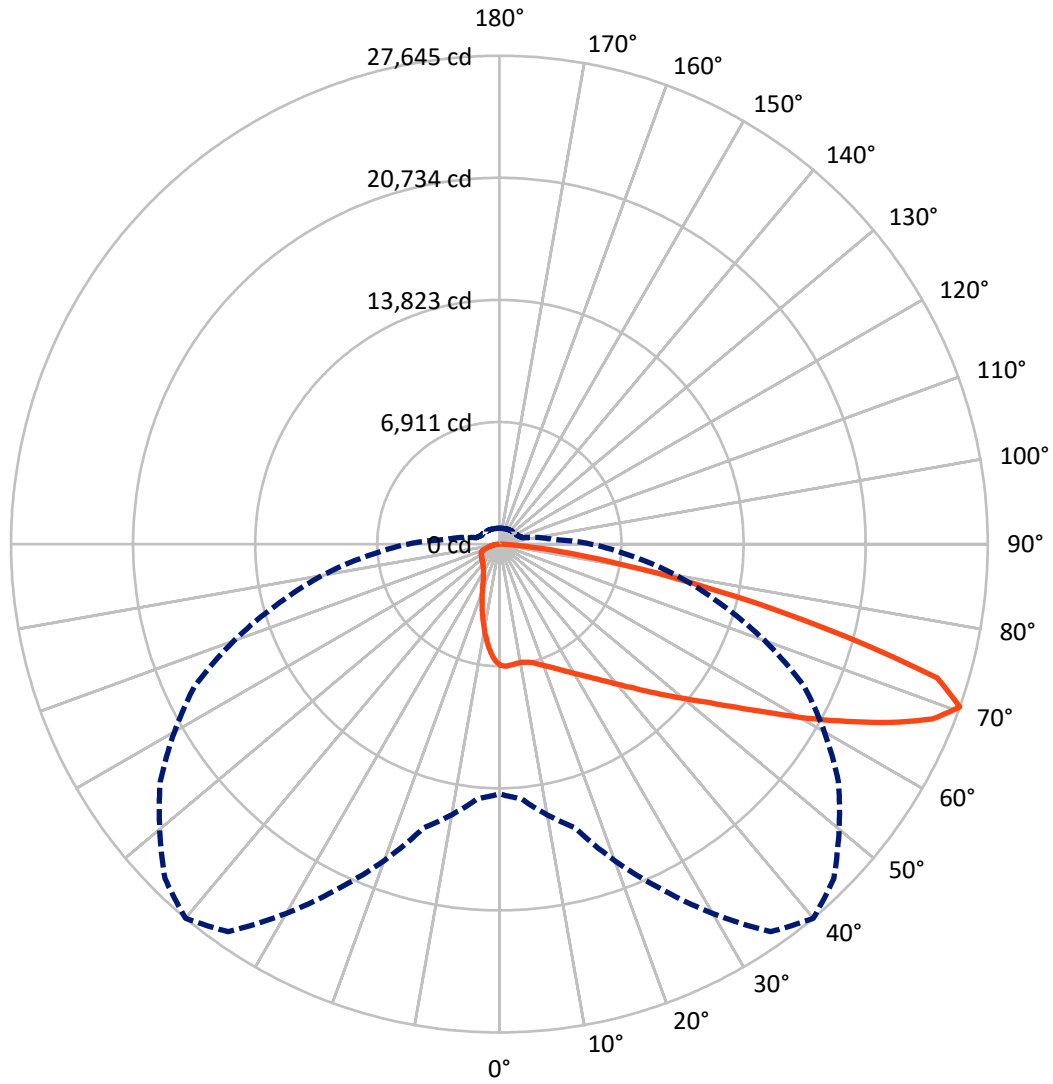
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P641338  
CATALOG NUMBER: GWS-SA5F-760-U-SL4-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P641338

CATALOG NUMBER: GWS-SA5F-760-U-SL4-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6229.1	0.0	6229.1
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	34212.7	0.0	34212.7
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	40441.8	0.0	40441.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	606.7	1.5
10°-20°	1581.4	3.9
20°-30°	2483.0	6.1
30°-40°	3733.3	9.2
40°-50°	5762.5	14.2
50°-60°	8557.8	21.2
60°-70°	10786.9	26.7
70°-80°	6238.0	15.4
80°-90°	692.3	1.7
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°	40441.8	100.0
0°-180°	40441.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P641338

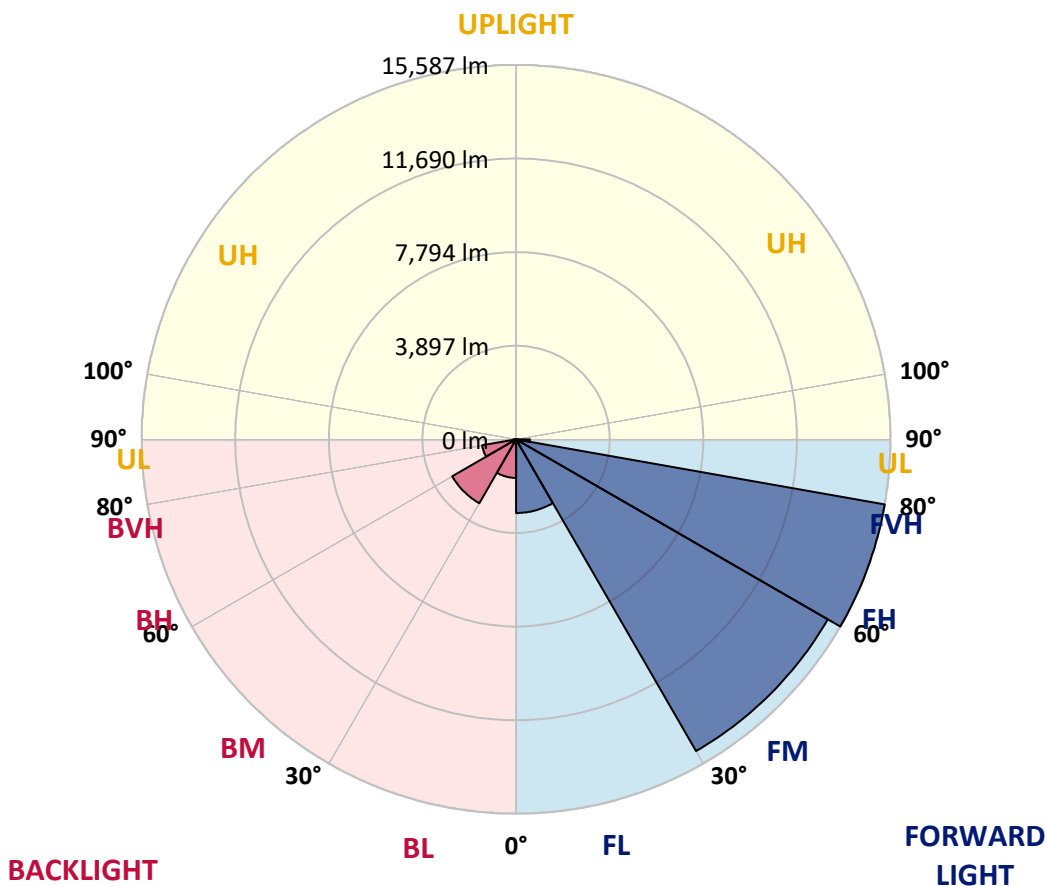
CATALOG NUMBER: GWS-SA5F-760-U-SL4-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3065.8	7.6			
FM (30°-60°)	14983.2	37.0			
FH (60°-80°)	15587.2	38.5			G5
FVH (80°-90°)	576.6	1.4			G4/750
BL (0°-30°)	1605.3	4.0	B3/2500		
BM (30°-60°)	3070.4	7.6	B3/5000		
BH (60°-80°)	1437.7	3.6	B3/2500		G3/2500
BVH (80°-90°)	115.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





REPORT NUMBER: P641338

CATALOG NUMBER: GWS-SA5F-760-U-SL4-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5
2.5°	6909.7	6921.8	6930.9	6942.9	6936.9	6918.8	6933.9	6933.9	6900.7	6864.5	6831.3
5°	6918.8	6933.9	6930.9	6927.9	6903.7	6873.5	6873.5	6855.4	6798.1	6740.7	6686.4
7.5°	6900.7	6897.7	6894.6	6885.6	6858.4	6825.2	6819.2	6783.0	6707.5	6629.0	6550.5
10°	6819.2	6816.2	6825.2	6846.4	6840.3	6810.1	6810.1	6776.9	6689.4	6592.8	6490.1
12.5°	6752.8	6752.8	6789.0	6846.4	6867.5	6855.4	6858.4	6834.3	6734.7	6620.0	6499.2
15°	6761.8	6764.8	6843.3	6936.9	6976.2	6967.1	6970.1	6942.9	6831.3	6716.5	6553.5
17.5°	6822.2	6837.3	6973.1	7102.9	7154.3	7142.2	7121.0	7075.8	6949.0	6819.2	6620.0
20°	6949.0	6973.1	7148.2	7311.2	7371.6	7344.4	7308.2	7217.6	7078.8	6936.9	6692.4
22.5°	7199.5	7214.6	7407.8	7567.8	7616.1	7582.9	7510.5	7380.7	7220.7	7072.8	6779.9
25°	7552.7	7570.8	7755.0	7902.9	7890.8	7851.6	7752.0	7592.0	7401.8	7244.8	6906.7
27.5°	7972.3	8002.5	8183.6	8301.4	8222.9	8165.5	8053.8	7860.6	7646.3	7504.4	7099.9
30°	8431.2	8443.2	8597.2	8714.9	8594.2	8515.7	8379.8	8171.5	7978.4	7872.7	7389.7
32.5°	8874.9	8887.0	9019.8	9086.2	8959.4	8902.1	8784.3	8564.0	8428.1	8370.8	7821.4
35°	9342.8	9339.8	9448.4	9505.8	9376.0	9351.8	9231.1	9062.1	9037.9	9113.4	8452.3
37.5°	9810.7	9783.5	9840.9	9916.3	9843.9	9868.0	9789.6	9732.2	9825.8	10022.0	9291.5
40°	10185.0	10185.0	10245.4	10339.0	10363.1	10468.8	10423.5	10498.9	10800.8	11268.7	10329.9
42.5°	10517.1	10520.1	10646.9	10791.8	10966.8	11129.8	11166.1	11362.3	11987.2	12720.7	11634.0
45°	10864.2	10867.2	11039.3	11250.6	11621.9	11932.8	12005.3	12446.0	13339.5	14233.0	13049.7
47.5°	11265.7	11232.5	11471.0	11824.1	12352.4	12799.2	12986.3	13611.2	14740.2	15839.0	14384.0
50°	11718.5	11649.1	11914.7	12524.5	13176.5	13789.3	14103.2	14818.7	16243.5	17321.1	15639.7
52.5°	12228.6	12189.4	12467.1	13209.7	14205.9	14912.2	15337.9	16276.7	17704.5	18797.3	16635.9
55°	12862.6	12769.0	13170.5	14115.3	15413.3	16312.9	16817.0	17719.6	19301.4	20137.6	17396.6
57.5°	13556.9	13454.2	13991.5	15247.3	16983.1	17970.2	18601.1	19343.7	20804.7	21163.9	17843.4
60°	14305.5	14272.3	14909.2	16575.5	18854.6	20001.7	20457.5	21130.7	22111.8	21758.6	17731.7
62.5°	14990.7	14978.7	15905.4	18015.4	20837.9	22099.7	22461.9	22640.0	23053.6	21719.4	16844.2
65°	15712.2	15814.8	17067.6	19684.8	23111.0	24348.6	24499.6	24046.8	23370.6	20690.0	15027.0
67.5°	15802.8	16002.0	17798.1	21248.4	25266.3	26434.5	26313.8	24581.1	22434.8	17825.3	11778.9
70°	14133.4	14480.6	16632.9	21486.9	26784.7	27645.0	26772.6	23430.9	19038.8	12913.9	7407.8
72.5°	11809.0	12107.9	14009.7	18323.3	24825.6	25921.3	24741.0	19832.7	13454.2	7407.8	3773.3
75°	9191.9	9539.0	11292.9	14565.1	18586.0	19023.7	18432.0	13831.6	7395.7	3054.9	1714.6
77.5°	5608.7	5859.2	7223.7	9868.0	13004.4	12349.4	10465.7	7755.0	3245.1	1464.1	1059.6
80°	2481.3	2635.3	3559.0	5300.8	7513.5	7102.9	5599.6	3311.5	1775.0	929.8	739.6
82.5°	1331.2	1430.9	1753.8	2098.0	3299.4	3450.3	2798.3	1907.8	953.9	531.3	422.6
85°	585.6	643.0	796.9	760.7	1083.7	1065.6	1074.6	1310.1	455.8	244.5	274.7
87.5°	0.0	0.0	0.0	0.0	3.0	3.0	33.2	175.1	45.3	72.4	63.4
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: P641338  
 CATALOG NUMBER: GWS-SA5F-760-U-SL4-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5	6867.5
2.5°	6795.0	6740.7	6725.6	6707.5	6674.3	6616.9	6574.7	6526.4	6505.2	6481.1	6484.1
5°	6626.0	6559.6	6496.2	6414.7	6312.0	6197.3	6118.9	6028.3	5980.0	5934.7	5946.8
7.5°	6481.1	6378.5	6248.7	6076.6	5892.4	5687.2	5521.2	5391.4	5303.8	5243.4	5273.6
10°	6390.5	6269.8	6043.4	5762.6	5451.7	5137.8	4899.3	4675.9	4537.1	4428.4	4422.4
12.5°	6372.4	6215.4	5886.4	5478.9	5029.1	4609.5	4259.3	3957.5	3773.3	3637.5	3688.8
15°	6390.5	6191.3	5750.6	5216.3	4648.8	4081.2	3646.6	3299.4	3079.0	2955.3	2946.2
17.5°	6411.7	6167.1	5596.6	4932.5	4250.3	3601.3	3097.2	2728.9	2502.5	2378.7	2381.7
20°	6429.8	6130.9	5415.5	4621.6	3845.8	3154.5	2632.3	2282.1	2079.9	1989.3	2004.4
22.5°	6460.0	6094.7	5222.3	4289.5	3432.2	2722.8	2264.0	1980.2	1859.5	1799.1	1802.1
25°	6517.3	6073.6	5023.1	3927.3	3024.7	2378.7	2010.4	1820.3	1744.8	1708.6	1705.6
27.5°	6635.0	6091.7	4814.8	3577.1	2656.4	2116.1	1847.4	1723.7	1672.3	1648.2	1645.2
30°	6831.3	6164.1	4633.7	3220.9	2339.5	1910.8	1735.7	1660.3	1630.1	1609.0	1605.9
32.5°	7130.1	6300.0	4437.4	2888.9	2082.9	1759.9	1648.2	1609.0	1587.8	1575.7	1575.7
35°	7582.9	6547.5	4244.3	2599.1	1883.7	1642.2	1578.8	1563.7	1545.6	1539.5	1545.6
37.5°	8234.9	6942.9	4069.2	2345.5	1741.8	1551.6	1503.3	1509.3	1494.2	1503.3	1512.4
40°	9062.1	7471.2	3921.3	2137.2	1636.1	1485.2	1436.9	1458.0	1449.0	1458.0	1473.1
42.5°	10109.5	8126.3	3809.6	1974.2	1560.7	1430.9	1385.6	1406.7	1400.7	1412.7	1427.8
45°	11277.8	8989.6	3758.2	1859.5	1506.3	1391.6	1343.3	1358.4	1352.4	1361.4	1376.5
47.5°	12397.7	9774.5	3803.5	1793.1	1461.0	1358.4	1307.1	1313.1	1310.1	1307.1	1316.1
50°	13363.7	10399.3	3933.3	1772.0	1430.9	1325.2	1276.9	1279.9	1270.9	1252.7	1258.8
52.5°	14151.5	10900.4	4011.8	1772.0	1415.8	1289.0	1243.7	1246.7	1228.6	1204.5	1207.5
55°	14670.8	11102.7	3948.4	1768.9	1409.7	1258.8	1210.5	1213.5	1195.4	1165.2	1168.2
57.5°	14818.7	10906.5	3682.8	1735.7	1403.7	1234.6	1177.3	1183.3	1171.2	1138.0	1138.0
60°	14405.1	10188.0	3196.8	1660.3	1388.6	1219.5	1153.1	1162.2	1156.2	1122.9	1122.9
62.5°	13321.4	8911.1	2617.2	1545.6	1346.3	1201.4	1132.0	1150.1	1165.2	1147.1	1144.1
65°	11292.9	7139.2	2128.2	1418.8	1292.0	1171.2	1101.8	1147.1	1180.3	1204.5	1204.5
67.5°	8473.4	5110.6	1735.7	1286.0	1210.5	1110.9	1062.6	1104.8	1129.0	1144.1	1153.1
70°	5164.9	3006.6	1367.5	1132.0	1092.8	1020.3	984.1	941.8	908.6	902.6	905.6
72.5°	2526.6	1720.6	1110.9	963.0	932.8	866.4	784.9	766.7	751.6	742.6	739.6
75°	1391.6	1198.4	917.7	799.9	745.6	664.1	646.0	615.8	609.8	597.7	600.7
77.5°	984.1	944.8	757.7	649.0	567.5	525.2	534.3	513.2	513.2	504.1	501.1
80°	739.6	742.6	582.6	473.9	419.6	404.5	413.6	413.6	407.5	404.5	401.5
82.5°	467.9	528.3	392.4	304.9	298.8	301.9	298.8	295.8	301.9	292.8	289.8
85°	323.0	380.4	238.5	181.1	181.1	178.1	184.1	181.1	187.2	178.1	178.1
87.5°	72.4	169.0	87.5	54.3	57.4	54.3	57.4	60.4	66.4	69.4	69.4
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)