

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: P641332

Luminaire Tested: GWS-SA5F-760-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41380.7 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

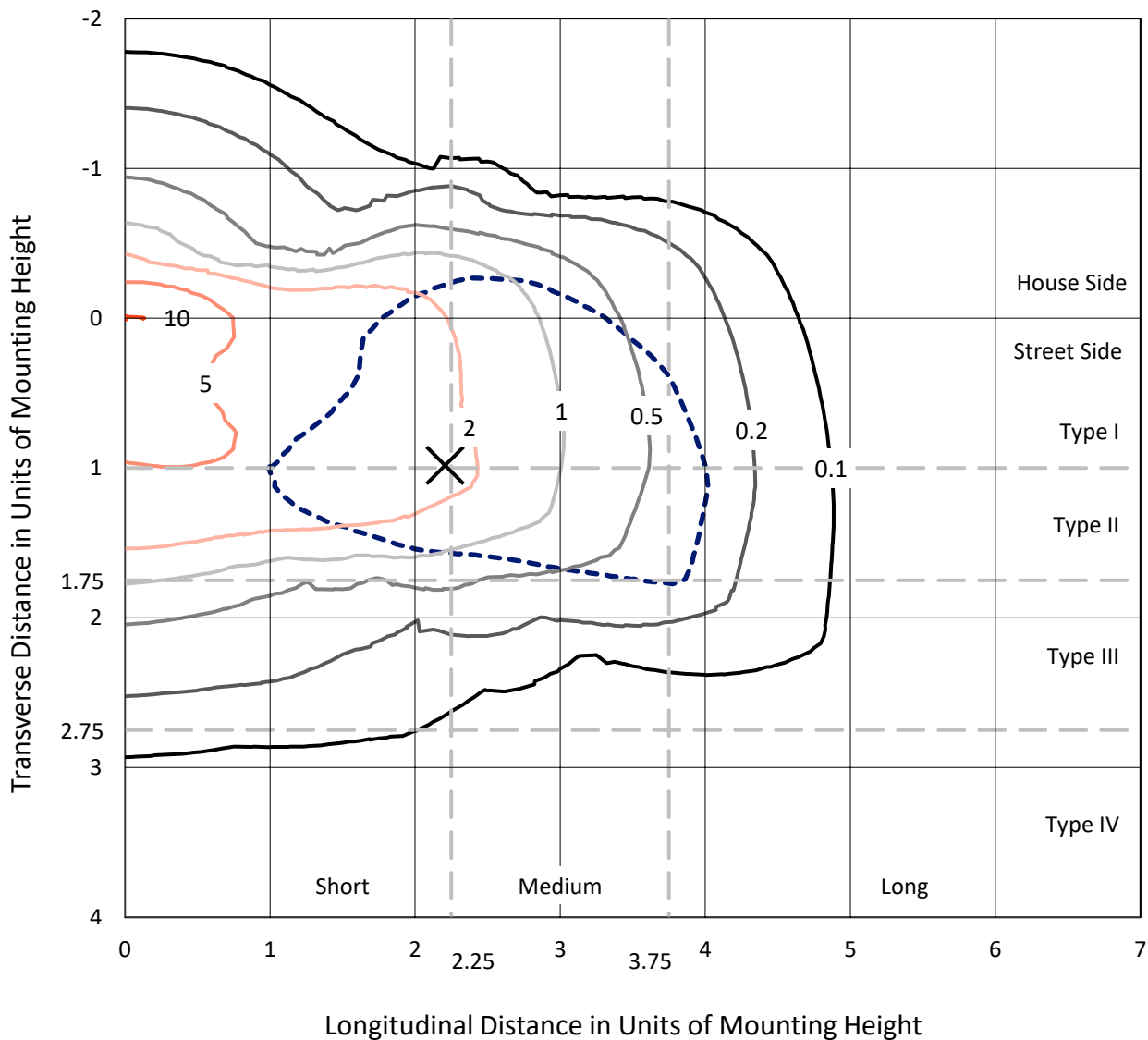
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641332
 CATALOG NUMBER: GWS-SA5F-760-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination

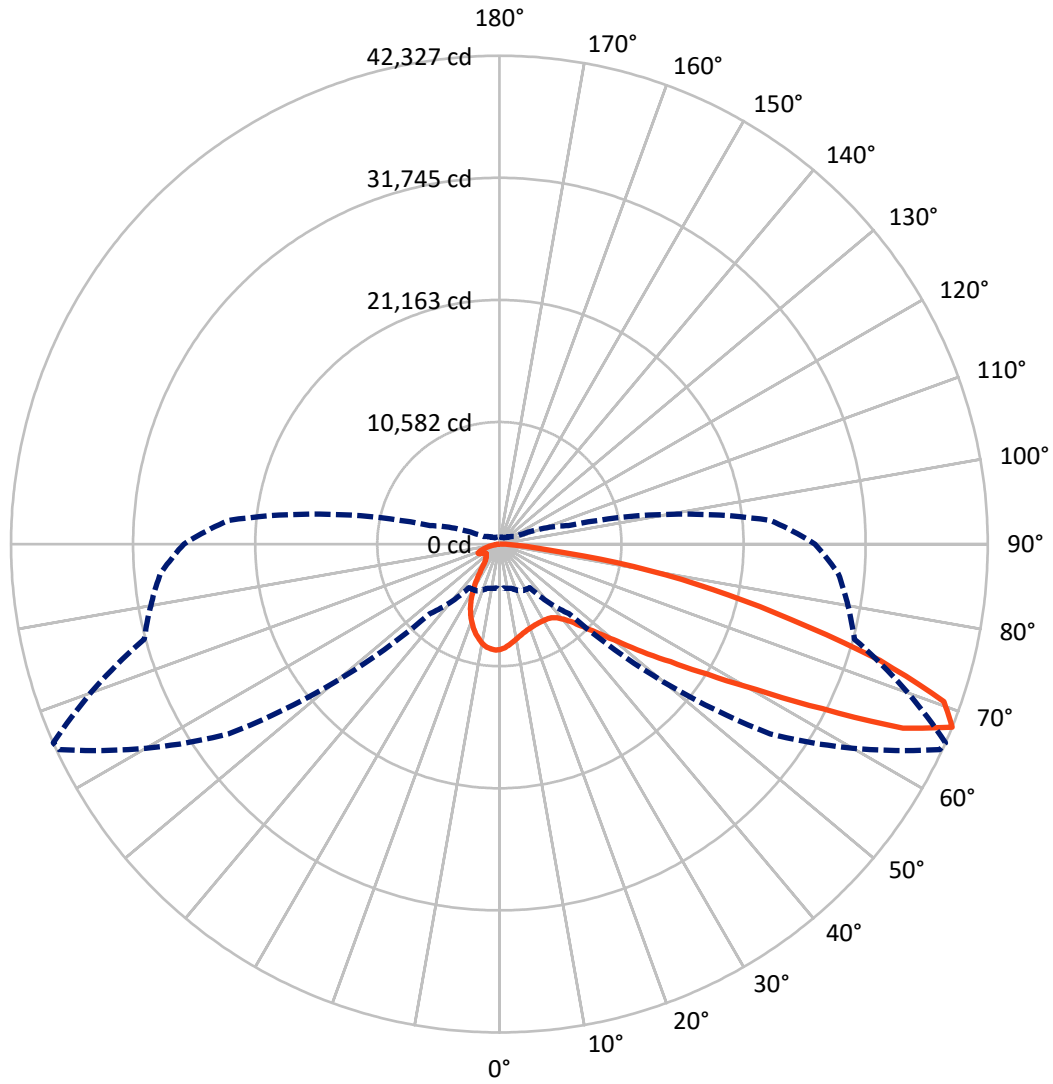
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

REPORT NUMBER: P641332
CATALOG NUMBER: GWS-SA5F-760-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8397.1	0.0	8397.1
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	32983.6	0.0	32983.6
	% Fixture	79.7	0.0	79.7
Total	Lumens	41380.7	0.0	41380.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.5	1.9
10°-20°	1972.2	4.8
20°-30°	2710.9	6.6
30°-40°	3706.2	9.0
40°-50°	5615.9	13.6
50°-60°	8730.1	21.1
60°-70°	10628.7	25.7
70°-80°	6474.5	15.6
80°-90°	739.6	1.8
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°	41380.7	100.0
0°-180°	41380.7	100.0

Coefficient of Utilization



REPORT NUMBER: P641332

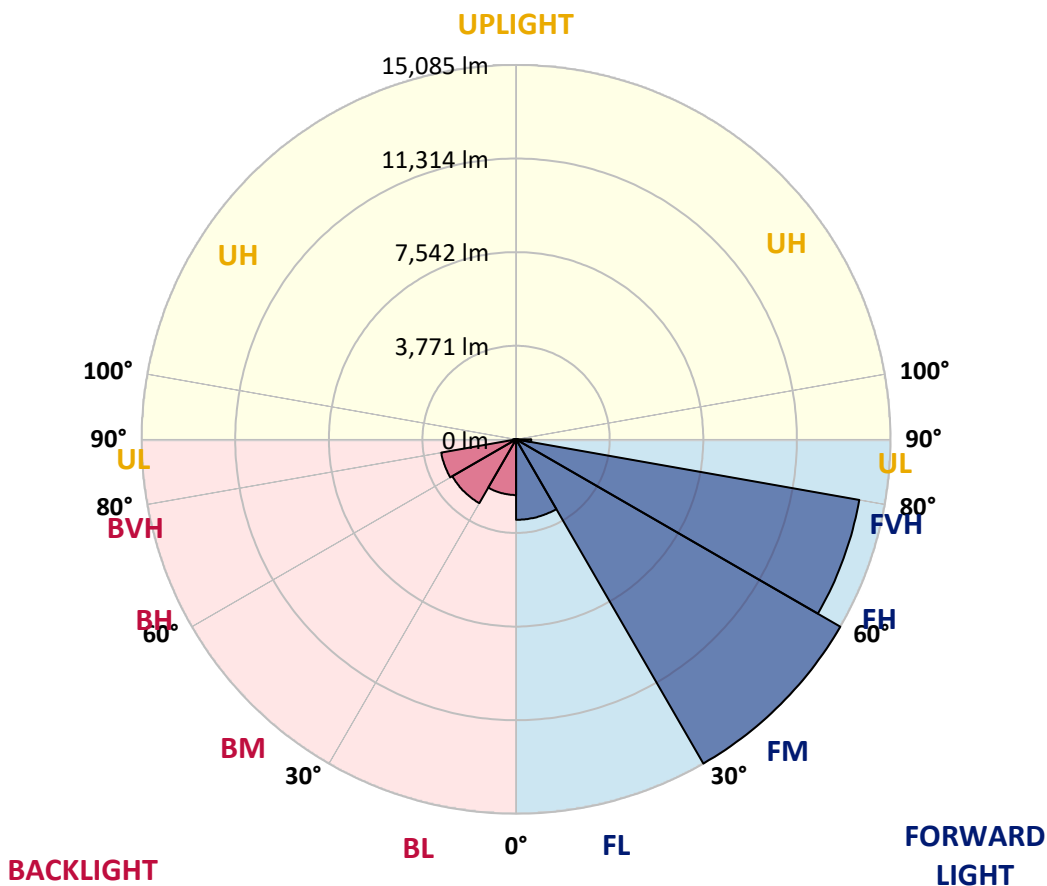
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3242.4	7.8			
FM (30°-60°)	15084.8	36.5			
FH (60°-80°)	14041.5	33.9			G5
FVH (80°-90°)	614.9	1.5			G4/750
BL (0°-30°)	2243.3	5.4	B3/2500		
BM (30°-60°)	2967.4	7.2	B3/5000		
BH (60°-80°)	3061.7	7.4	B4/5000		G4/5000
BVH (80°-90°)	124.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





REPORT NUMBER: P641332

CATALOG NUMBER: GWS-SA5F-760-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0
2.5°	8564.3	8594.5	8576.4	8691.1	8697.2	8842.1	8923.6	8993.0	8999.1	9089.6	9150.0
5°	7978.7	7996.8	7996.8	8105.5	8177.9	8371.1	8558.3	8757.6	8772.6	8990.0	9156.0
7.5°	7504.7	7522.9	7510.8	7655.7	7749.3	7963.6	8202.1	8507.0	8537.2	8887.4	9177.2
10°	7133.4	7127.4	7157.6	7290.4	7411.2	7667.8	7933.4	8280.6	8325.9	8769.6	9201.3
12.5°	6879.9	6885.9	6904.0	7042.9	7172.7	7426.3	7701.0	8078.3	8126.6	8633.8	9189.2
15°	6759.1	6747.0	6762.1	6888.9	7012.7	7236.1	7519.8	7909.3	7957.6	8513.0	9192.3
17.5°	6731.9	6722.9	6719.9	6810.4	6904.0	7112.3	7384.0	7779.5	7830.8	8434.5	9210.4
20°	6816.5	6804.4	6771.2	6810.4	6849.7	7024.8	7287.4	7685.9	7743.2	8383.2	9246.6
22.5°	7048.9	7027.8	6976.5	6928.2	6876.8	6982.5	7227.0	7616.4	7673.8	8350.0	9282.8
25°	7402.1	7384.0	7329.7	7221.0	7033.8	7015.7	7214.9	7586.3	7643.6	8325.9	9297.9
27.5°	7888.1	7861.0	7806.6	7649.7	7344.8	7139.5	7260.2	7583.2	7637.6	8298.7	9282.8
30°	8464.7	8446.6	8416.4	8226.2	7818.7	7402.1	7362.9	7607.4	7649.7	8283.6	9252.6
32.5°	9050.4	9032.3	9056.4	8965.9	8464.7	7836.8	7586.3	7673.8	7704.0	8280.6	9225.5
35°	9566.6	9587.7	9762.8	9777.9	9285.8	8425.5	7939.5	7827.8	7833.8	8341.0	9237.5
37.5°	10107.0	10188.5	10417.9	10614.1	10203.6	9204.3	8464.7	8117.6	8111.5	8494.9	9313.0
40°	10822.4	10858.6	11151.5	11519.8	11263.2	10273.0	9210.4	8591.5	8549.3	8808.9	9515.3
42.5°	11519.8	11607.3	12075.2	12497.9	12413.3	11477.5	10149.2	9300.9	9225.5	9364.3	9931.9
45°	12407.3	12491.8	13017.1	13560.5	13714.4	12839.0	11350.7	10309.2	10233.7	10200.5	10695.6
47.5°	13294.8	13382.4	13853.3	14638.2	15178.6	14541.6	12914.4	11640.5	11516.7	11386.9	11848.8
50°	13892.5	13995.2	14445.0	15386.8	16654.7	16666.8	14768.0	13385.4	13228.4	13023.1	13472.9
52.5°	13871.4	13937.8	14366.5	15453.3	17717.4	19109.0	17249.5	15607.2	15480.4	15033.6	15426.1
55°	12781.6	12881.2	13312.9	14671.4	17832.1	21424.5	20896.2	18227.5	18001.1	17201.1	17632.8
57.5°	10593.0	10677.5	11112.2	12787.7	16814.7	22610.8	25527.0	21566.3	21255.4	19561.9	20060.0
60°	7996.8	7894.2	8099.5	9566.6	14381.6	22641.0	29614.5	26094.5	25575.3	22085.6	22502.2
62.5°	6001.4	5898.7	5944.0	6357.6	9750.7	20811.6	31945.0	32289.1	31431.8	24935.3	24853.8
65°	4742.5	4685.2	4815.0	5098.8	5684.4	15848.7	31963.1	38987.9	38447.5	28237.9	27265.8
67.5°	3864.1	3827.8	3960.7	4485.9	4609.7	8516.0	28660.5	42115.3	42326.7	31854.4	29502.8
70°	3112.4	3058.0	3266.3	3957.7	4286.7	5153.1	20530.9	40521.4	40862.5	34009.9	28871.8
72.5°	2149.4	2152.4	2258.1	3206.0	4138.8	4449.7	11613.3	33741.2	34480.8	32056.7	25382.1
75°	1449.0	1461.1	1491.3	2116.2	3812.8	4316.9	6188.5	25545.1	26067.4	26496.1	20980.7
77.5°	875.5	881.5	950.9	1280.0	2629.4	4030.1	4193.1	18517.3	18927.9	17466.8	13005.0
80°	507.2	528.3	591.7	857.3	1775.1	3027.9	3245.2	11353.7	11818.6	7764.4	4132.7
82.5°	223.4	238.5	323.0	498.1	1035.5	2575.0	2532.8	4485.9	4419.5	2164.5	1433.9
85°	39.2	48.3	69.4	157.0	380.4	1358.5	1965.2	1980.3	1862.6	821.1	594.7
87.5°	0.0	0.0	0.0	0.0	0.0	9.1	295.8	531.3	528.3	232.4	205.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0	9144.0
2.5°	9189.2	9107.7	9180.2	9189.2	9174.1	9162.1	9071.5	8993.0	8984.0	8899.4	8899.4
5°	9222.4	9147.0	9183.2	9113.8	9005.1	8893.4	8700.2	8567.4	8507.0	8398.3	8398.3
7.5°	9267.7	9189.2	9147.0	8974.9	8721.3	8476.8	8165.9	7906.2	7800.6	7646.6	7640.6
10°	9310.0	9210.4	9065.5	8730.4	8325.9	7936.4	7483.6	7115.3	6864.8	6680.6	6680.6
12.5°	9307.0	9177.2	8890.4	8395.3	7836.8	7272.3	6668.5	6113.1	5781.0	5494.2	5476.1
15°	9300.9	9122.8	8667.0	8005.9	7266.3	6484.4	5663.3	4938.8	4446.7	4166.0	4141.8
17.5°	9294.9	9053.4	8416.4	7562.1	6571.9	5506.3	4422.5	3637.7	3227.1	3055.0	3061.1
20°	9294.9	8974.9	8147.8	7051.9	5772.0	4335.0	3245.2	2674.7	2572.0	2581.1	2590.1
22.5°	9267.7	8878.3	7848.9	6496.5	4881.4	3187.9	2393.9	2200.7	2255.0	2339.6	2351.6
25°	9204.3	8718.3	7501.7	5880.6	3821.8	2321.5	1953.2	1916.9	2016.6	2122.2	2152.4
27.5°	9104.7	8534.2	7112.3	5159.1	2813.5	1865.6	1717.7	1714.7	1793.2	1871.7	1898.8
30°	8999.1	8328.9	6701.7	4356.1	2037.7	1624.1	1566.8	1566.8	1606.0	1654.3	1648.3
32.5°	8875.3	8120.6	6261.0	3519.9	1660.3	1488.3	1470.2	1461.1	1467.1	1485.3	1485.3
35°	8769.6	7936.4	5808.2	2635.4	1488.3	1412.8	1394.7	1373.6	1364.5	1352.4	1358.5
37.5°	8730.4	7791.5	5340.3	1986.4	1403.7	1358.5	1328.3	1298.1	1277.0	1270.9	1267.9
40°	8793.8	7731.2	4872.4	1636.2	1343.4	1301.1	1267.9	1228.7	1210.5	1210.5	1210.5
42.5°	9041.3	7776.4	4395.4	1479.2	1301.1	1252.8	1204.5	1168.3	1162.2	1168.3	1171.3
45°	9494.1	7951.5	3900.3	1400.7	1264.9	1204.5	1147.1	1120.0	1120.0	1126.0	1126.0
47.5°	10303.2	8410.4	3411.2	1352.4	1228.7	1165.3	1104.9	1077.7	1074.7	1080.7	1080.7
50°	11703.9	9237.5	2970.5	1319.2	1201.5	1135.1	1074.7	1038.5	1029.4	1026.4	1026.4
52.5°	13469.9	10671.5	2689.8	1295.1	1168.3	1101.9	1041.5	993.2	975.1	966.0	966.0
55°	15604.2	12582.4	2689.8	1277.0	1126.0	1062.6	993.2	944.9	917.7	905.6	905.6
57.5°	18022.3	14807.2	3154.7	1261.9	1092.8	1017.3	941.9	893.6	863.4	845.3	845.3
60°	20482.6	17158.9	4304.8	1240.7	1062.6	960.0	884.5	839.2	800.0	778.9	775.8
62.5°	23033.5	19749.0	5820.3	1252.8	1041.5	905.6	824.1	772.8	739.6	718.5	715.5
65°	25370.0	22215.4	7145.5	1346.4	1044.5	857.3	754.7	709.4	682.2	655.1	652.1
67.5°	27353.4	23576.9	6215.7	1536.6	1107.9	800.0	685.3	640.0	615.8	597.7	594.7
70°	25964.7	21499.9	3526.0	1654.3	1195.4	739.6	606.8	576.6	552.4	540.4	537.3
72.5°	22203.3	18203.4	2357.7	1461.1	1089.8	661.1	534.3	510.2	492.1	477.0	474.0
75°	17986.0	14435.9	1802.2	1198.5	848.3	537.3	458.9	440.7	422.6	407.5	404.5
77.5°	10641.3	8341.0	1328.3	947.9	597.7	419.6	380.4	365.3	347.2	335.1	332.1
80°	3396.2	2898.1	842.2	652.1	395.5	323.0	292.8	280.7	262.6	247.5	244.5
82.5°	1295.1	1120.0	446.8	332.1	262.6	220.4	196.2	184.1	172.1	157.0	154.0
85°	573.6	537.3	247.5	178.1	141.9	108.7	96.6	90.6	75.5	63.4	60.4
87.5°	202.3	202.3	105.7	51.3	30.2	15.1	9.1	3.0	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)