

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: P641277

Luminaire Tested: GWS-SA5F-750-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641277
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-750-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41955.7 lumens
Efficiency: N/A
Efficacy: 135.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

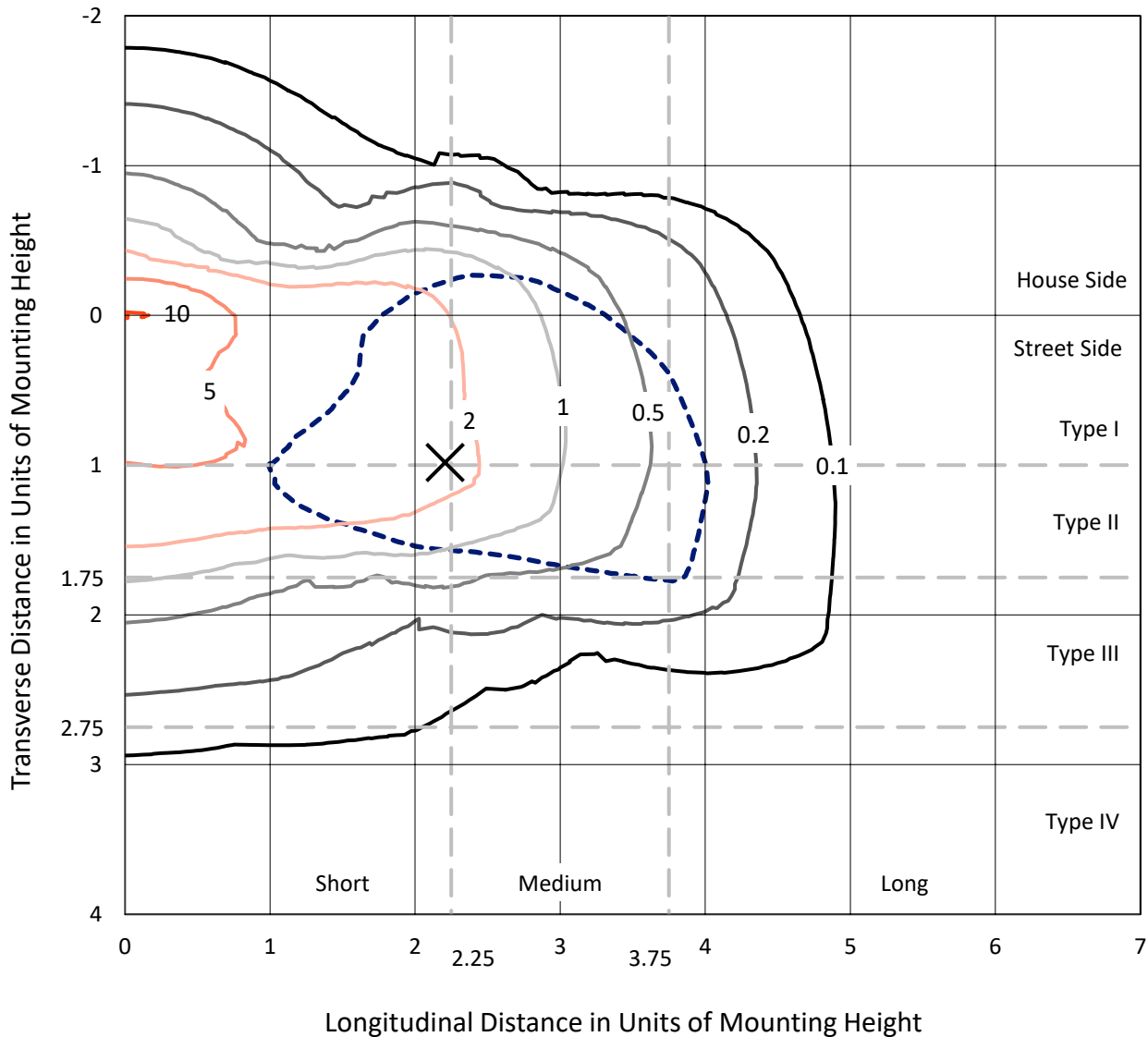
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

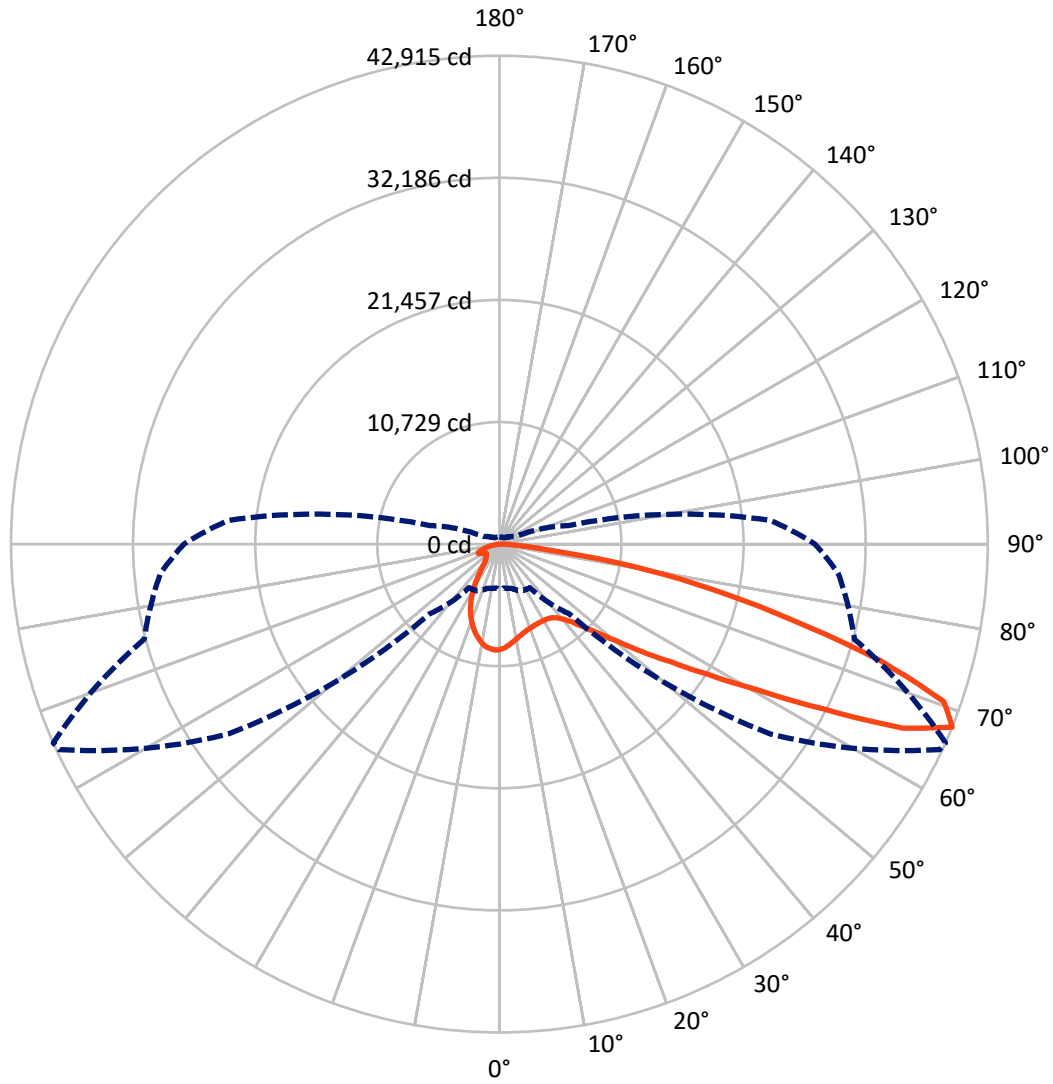
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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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	8513.8	0.0	8513.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	33441.9	0.0	33441.9
	% Fixture	79.7	0.0	79.7
Total	Lumens	41955.7	0.0	41955.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.6	1.9
10°-20°	1999.6	4.8
20°-30°	2748.6	6.6
30°-40°	3757.7	9.0
40°-50°	5694.0	13.6
50°-60°	8851.4	21.1
60°-70°	10776.4	25.7
70°-80°	6564.5	15.6
80°-90°	749.8	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°	41955.7	100.0
0°-180°	41955.7	100.0

Coefficient of Utilization



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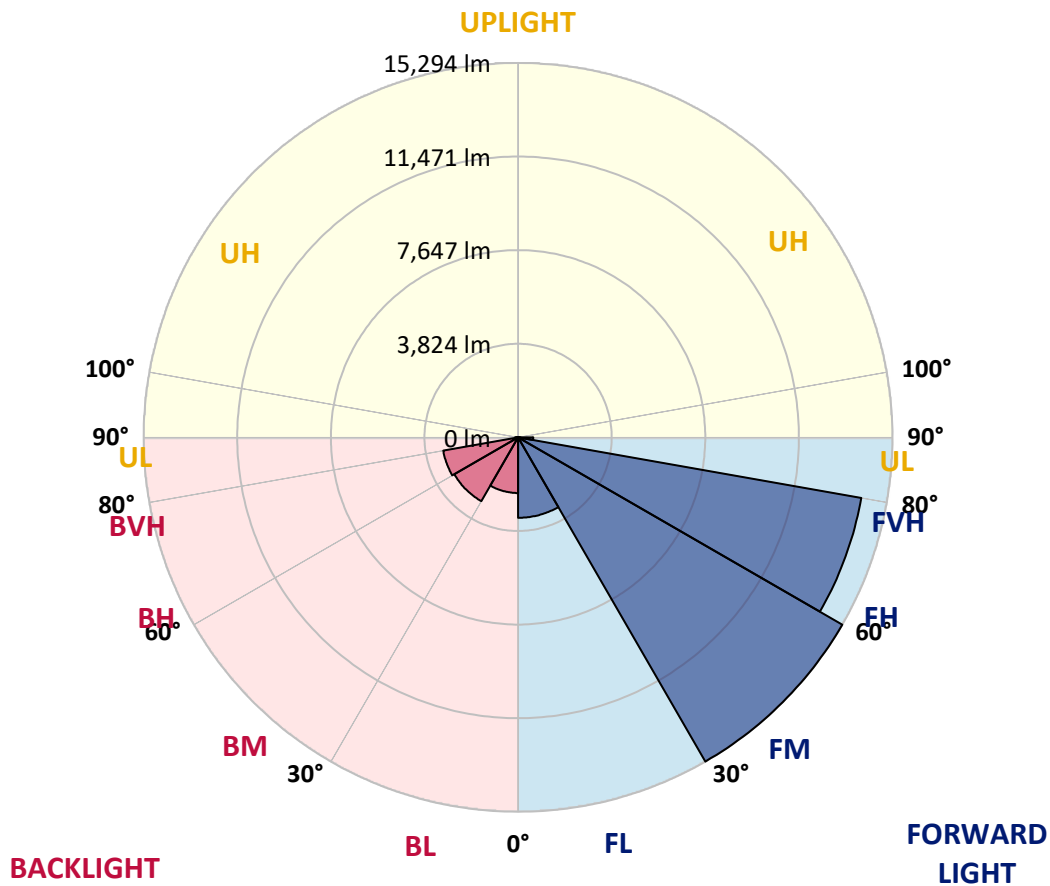
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3287.4	7.8			
FM (30°-60°)	15294.5	36.5			
FH (60°-80°)	14236.6	33.9			G5
FVH (80°-90°)	623.4	1.5			G4/750
BL (0°-30°)	2274.4	5.4	B3/2500		
BM (30°-60°)	3008.7	7.2	B3/5000		
BH (60°-80°)	3104.3	7.4	B4/5000		G4/5000
BVH (80°-90°)	126.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0
2.5°	8683.4	8714.0	8695.6	8811.9	8818.0	8964.9	9047.6	9118.0	9124.1	9215.9	9277.1
5°	8089.6	8107.9	8107.9	8218.1	8291.6	8487.5	8677.2	8879.2	8894.5	9114.9	9283.3
7.5°	7609.0	7627.4	7615.2	7762.1	7857.0	8074.3	8316.1	8625.2	8655.8	9010.9	9304.7
10°	7232.6	7226.4	7257.0	7391.7	7514.1	7774.3	8043.7	8395.6	8441.6	8891.5	9329.2
12.5°	6975.5	6981.6	6999.9	7140.7	7272.3	7529.5	7808.0	8190.6	8239.5	8753.8	9316.9
15°	6853.0	6840.8	6856.1	6984.6	7110.1	7336.6	7624.3	8019.2	8068.1	8631.3	9320.0
17.5°	6825.5	6816.3	6813.2	6905.1	6999.9	7211.1	7486.6	7887.6	7939.6	8551.7	9338.4
20°	6911.2	6898.9	6865.3	6905.1	6944.8	7122.4	7388.7	7792.7	7850.8	8499.7	9375.1
22.5°	7146.9	7125.4	7073.4	7024.4	6972.4	7079.5	7327.4	7722.3	7780.4	8466.0	9411.8
25°	7505.0	7486.6	7431.5	7321.3	7131.6	7113.2	7315.2	7691.7	7749.8	8441.6	9427.1
27.5°	7997.7	7970.2	7915.1	7755.9	7446.8	7238.7	7361.1	7688.6	7743.7	8414.0	9411.8
30°	8582.3	8564.0	8533.4	8340.5	7927.3	7505.0	7465.2	7713.1	7755.9	8398.7	9381.2
32.5°	9176.1	9157.8	9182.3	9090.4	8582.3	7945.7	7691.7	7780.4	7811.0	8395.6	9353.7
35°	9699.5	9720.9	9898.5	9913.8	9414.9	8542.6	8049.8	7936.5	7942.7	8456.9	9365.9
37.5°	10247.4	10330.0	10562.7	10761.6	10345.3	9332.2	8582.3	8230.4	8224.2	8613.0	9442.4
40°	10972.8	11009.5	11306.4	11679.8	11419.7	10415.7	9338.4	8710.9	8668.1	8931.3	9647.5
42.5°	11679.8	11768.6	12243.0	12671.5	12585.8	11637.0	10290.2	9430.2	9353.7	9494.5	10069.9
45°	12579.7	12665.4	13198.0	13748.9	13905.0	13017.4	11508.4	10452.5	10376.0	10342.3	10844.2
47.5°	13479.6	13568.3	14045.8	14841.6	15389.5	14743.6	13093.9	11802.3	11676.8	11545.2	12013.5
50°	14085.6	14189.6	14645.7	15600.7	16886.2	16898.4	14973.2	13571.4	13412.2	13204.1	13660.1
52.5°	14064.2	14131.5	14566.1	15668.0	17963.6	19374.6	17489.1	15824.1	15695.5	15242.5	15640.4
55°	12959.2	13060.2	13497.9	14875.3	18079.9	21722.2	21186.5	18480.8	18251.3	17440.2	17877.9
57.5°	10740.2	10825.9	11266.6	12965.3	17048.4	22925.0	25881.7	21866.0	21550.8	19833.7	20338.7
60°	8107.9	8003.9	8212.0	9699.5	14581.4	22955.6	30026.0	26457.1	25930.7	22392.5	22814.8
62.5°	6084.8	5980.7	6026.6	6445.9	9886.2	21100.8	32388.9	32737.8	31868.6	25281.8	25199.2
65°	4808.4	4750.3	4881.9	5169.6	5763.4	16068.9	32407.2	39529.6	38981.7	28630.3	27644.7
67.5°	3917.8	3881.0	4015.7	4548.3	4673.8	8634.4	29058.8	42700.6	42914.8	32297.1	29912.7
70°	3155.6	3100.5	3311.7	4012.6	4346.3	5224.7	20816.2	41084.5	41430.3	34482.4	29273.0
72.5°	2179.3	2182.3	2289.4	3250.5	4196.3	4511.5	11774.7	34210.0	34959.9	32502.1	25734.8
75°	1469.2	1481.4	1512.0	2145.6	3865.7	4376.9	6274.5	25900.1	26429.6	26864.2	21272.2
77.5°	887.6	893.7	964.1	1297.8	2665.9	4086.1	4251.4	18774.7	19190.9	17709.5	13185.7
80°	514.2	535.6	599.9	869.3	1799.7	3069.9	3290.3	11511.5	11982.8	7872.3	4190.2
82.5°	226.5	241.8	327.5	505.0	1049.8	2610.8	2568.0	4548.3	4480.9	2194.6	1453.9
85°	39.8	49.0	70.4	159.2	385.7	1377.3	1992.5	2007.9	1888.5	832.5	603.0
87.5°	0.0	0.0	0.0	0.0	0.0	9.2	300.0	538.7	535.6	235.7	208.1
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°	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0	9271.0
2.5°	9316.9	9234.3	9307.7	9316.9	9301.6	9289.4	9197.6	9118.0	9108.8	9023.1	9023.1
5°	9350.6	9274.1	9310.8	9240.4	9130.2	9017.0	8821.1	8686.4	8625.2	8515.0	8515.0
7.5°	9396.5	9316.9	9274.1	9099.6	8842.5	8594.6	8279.3	8016.1	7909.0	7752.9	7746.8
10°	9439.4	9338.4	9191.4	8851.7	8441.6	8046.7	7587.6	7214.2	6960.2	6773.4	6773.4
12.5°	9436.3	9304.7	9013.9	8512.0	7945.7	7373.4	6761.2	6198.0	5861.3	5570.6	5552.2
15°	9430.2	9249.6	8787.4	8117.1	7367.2	6574.5	5742.0	5007.4	4508.5	4223.8	4199.4
17.5°	9424.1	9179.2	8533.4	7667.2	6663.3	5582.8	4484.0	3688.2	3271.9	3097.5	3103.6
20°	9424.1	9099.6	8261.0	7149.9	5852.2	4395.2	3290.3	2711.8	2607.8	2616.9	2626.1
22.5°	9396.5	9001.7	7958.0	6586.7	4949.2	3232.2	2427.2	2231.3	2286.4	2372.1	2384.3
25°	9332.2	8839.5	7606.0	5962.3	3874.9	2353.7	1980.3	1943.6	2044.6	2151.7	2182.3
27.5°	9231.2	8652.7	7211.1	5230.8	2852.6	1891.5	1741.6	1738.5	1818.1	1897.7	1925.2
30°	9124.1	8444.6	6794.9	4416.7	2066.0	1646.7	1588.5	1588.5	1628.3	1677.3	1671.2
32.5°	8998.6	8233.4	6348.0	3568.8	1683.4	1509.0	1490.6	1481.4	1487.5	1505.9	1505.9
35°	8891.5	8046.7	5888.9	2672.0	1509.0	1432.4	1414.1	1392.6	1383.5	1371.2	1377.3
37.5°	8851.7	7899.8	5414.5	2014.0	1423.2	1377.3	1346.7	1316.1	1294.7	1288.6	1285.5
40°	8916.0	7838.6	4940.1	1658.9	1362.0	1319.2	1285.5	1245.7	1227.4	1227.4	1227.4
42.5°	9167.0	7884.5	4456.5	1499.8	1319.2	1270.2	1221.2	1184.5	1178.4	1184.5	1187.6
45°	9626.1	8062.0	3954.5	1420.2	1282.5	1221.2	1163.1	1135.5	1135.5	1141.7	1141.7
47.5°	10446.3	8527.3	3458.7	1371.2	1245.7	1181.5	1120.2	1092.7	1089.6	1095.7	1095.7
50°	11866.5	9365.9	3011.8	1337.5	1218.2	1150.8	1089.6	1052.9	1043.7	1040.7	1040.7
52.5°	13657.1	10819.8	2727.1	1313.1	1184.5	1117.2	1056.0	1007.0	988.6	979.4	979.4
55°	15821.0	12757.2	2727.1	1294.7	1141.7	1077.4	1007.0	958.0	930.5	918.2	918.2
57.5°	18272.7	15013.0	3198.5	1279.4	1108.0	1031.5	955.0	906.0	875.4	857.0	857.0
60°	20767.2	17397.3	4364.6	1258.0	1077.4	973.3	896.8	850.9	811.1	789.7	786.6
62.5°	23353.5	20023.4	5901.1	1270.2	1056.0	918.2	835.6	783.6	749.9	728.5	725.4
65°	25722.6	22524.1	7244.8	1365.1	1059.0	869.3	765.2	719.3	691.7	664.2	661.1
67.5°	27733.5	23904.5	6302.1	1557.9	1123.3	811.1	694.8	648.9	624.4	606.0	603.0
70°	26325.5	21798.7	3575.0	1677.3	1212.1	749.9	615.2	584.6	560.1	547.9	544.8
72.5°	22511.8	18456.3	2390.4	1481.4	1104.9	670.3	541.8	517.3	498.9	483.6	480.5
75°	18236.0	14636.5	1827.3	1215.1	860.1	544.8	465.2	446.9	428.5	413.2	410.1
77.5°	10789.2	8456.9	1346.7	961.1	606.0	425.4	385.7	370.4	352.0	339.7	336.7
80°	3443.3	2938.3	853.9	661.1	401.0	327.5	296.9	284.6	266.3	251.0	247.9
82.5°	1313.1	1135.5	453.0	336.7	266.3	223.4	198.9	186.7	174.5	159.2	156.1
85°	581.5	544.8	251.0	180.6	143.9	110.2	97.9	91.8	76.5	64.3	61.2
87.5°	205.1	205.1	107.1	52.0	30.6	15.3	9.2	3.1	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)