

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: P641347

Luminaire Tested: GWS-SA5F-760-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42032.7 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

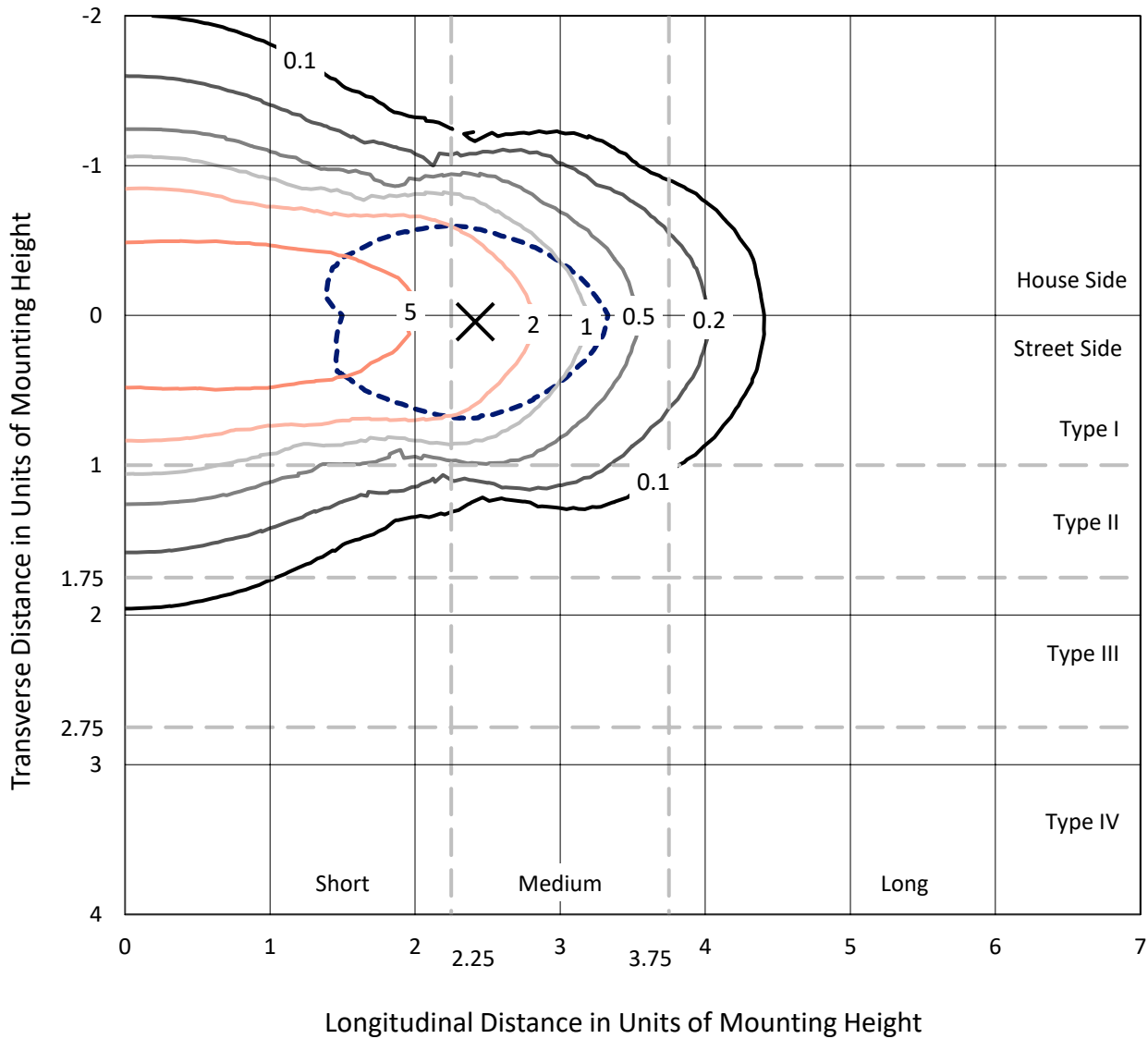
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

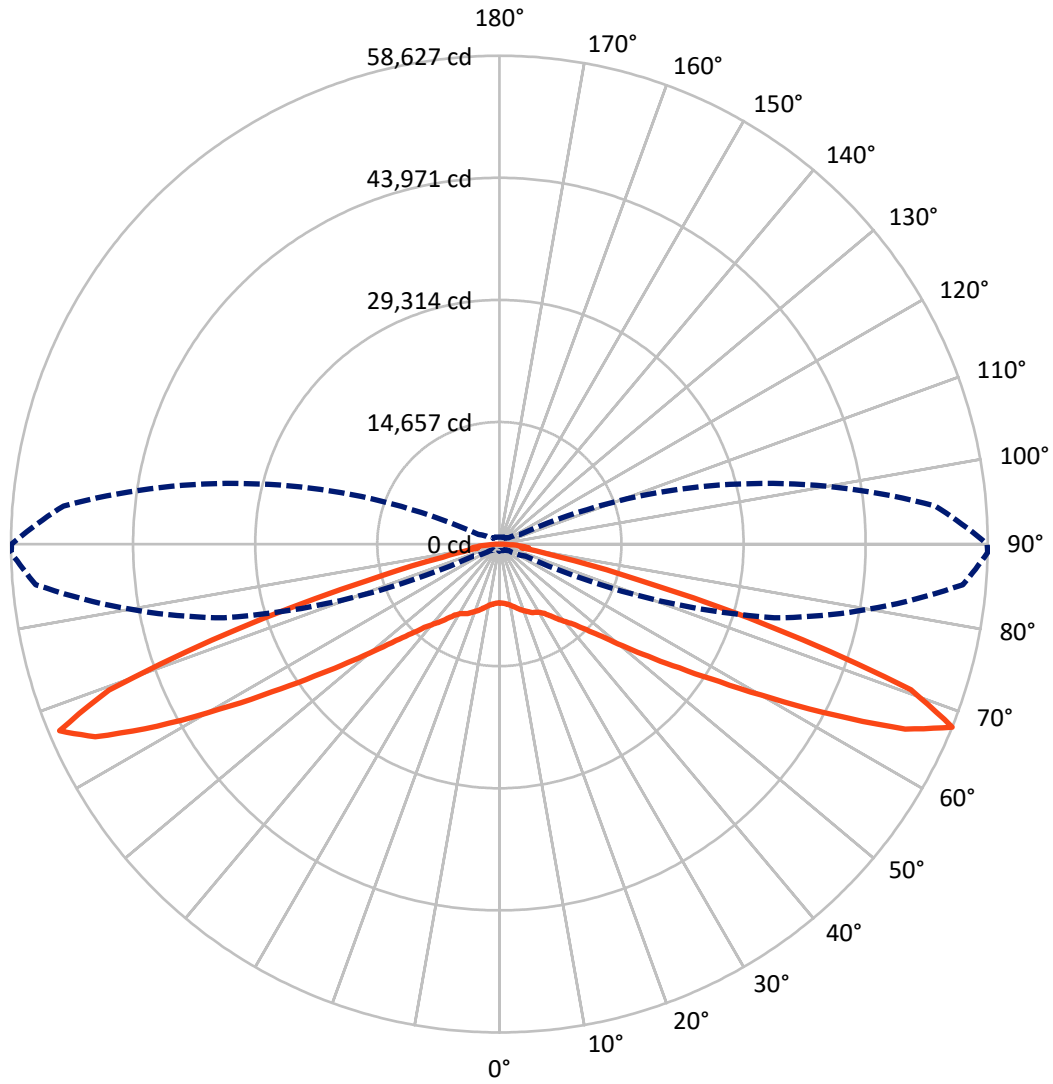
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20832.1	0.0	20832.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21200.5	0.0	21200.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	42032.7	0.0	42032.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.6	1.7
10°-20°	2304.2	5.5
20°-30°	3895.2	9.3
30°-40°	5345.7	12.7
40°-50°	6816.9	16.2
50°-60°	8552.9	20.3
60°-70°	10315.5	24.5
70°-80°	3731.8	8.9
80°-90°	362.9	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°	42032.7	100.0
0°-180°	42032.7	100.0

Coefficient of Utilization



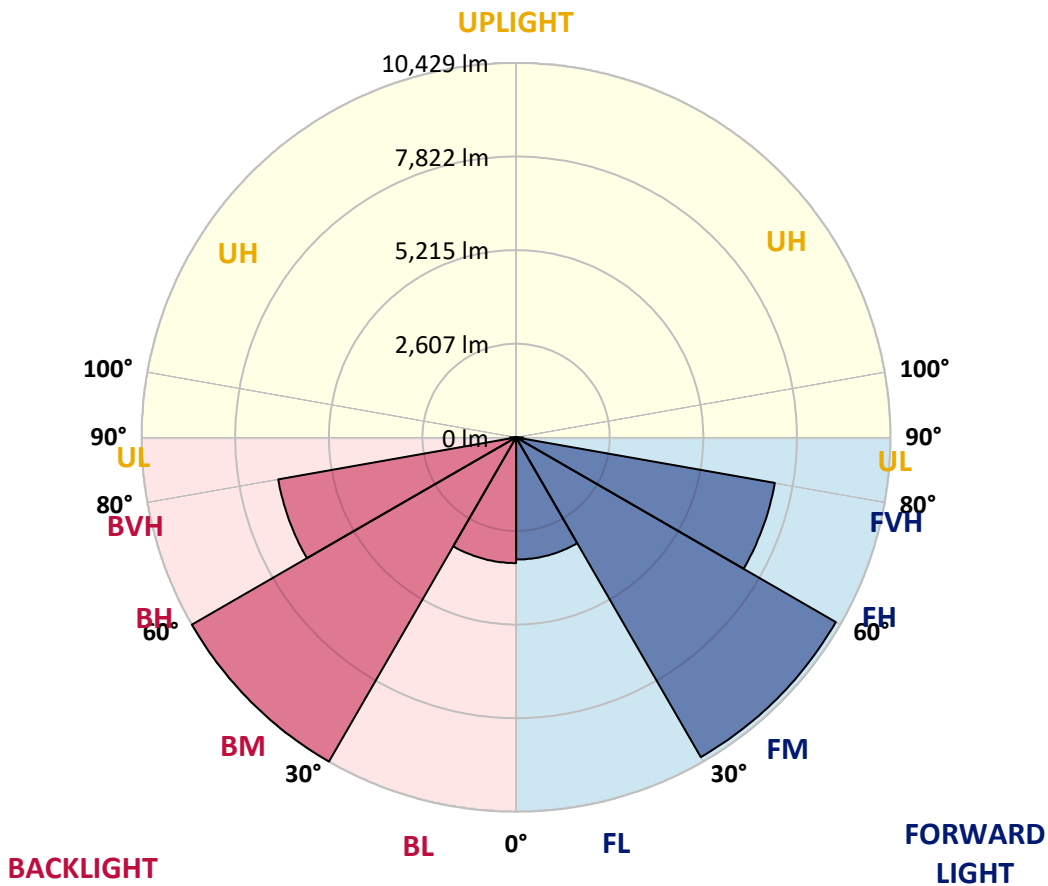
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3404.3	8.1			
FM (30°-60°)	10286.2	24.5			
FH (60°-80°)	7318.5	17.4			G3/7500
FVH (80°-90°)	191.5	0.5			G2/225
BL (0°-30°)	3502.8	8.3	B4/5000		
BM (30°-60°)	10429.2	24.8	B5		
BH (60°-80°)	6728.8	16.0	B5		G5
BVH (80°-90°)	171.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9
2.5°	7076.0	7069.9	7054.9	7100.1	7091.1	7094.1	7112.2	7100.1	7079.0	7042.8	7094.1
5°	7275.2	7272.2	7239.0	7266.2	7236.0	7214.8	7211.8	7181.6	7157.5	7118.2	7172.6
7.5°	7468.4	7465.4	7438.2	7486.5	7462.4	7438.2	7411.1	7350.7	7293.3	7236.0	7296.4
10°	7616.3	7613.3	7607.3	7676.7	7682.8	7691.8	7679.7	7577.1	7477.5	7408.0	7468.4
12.5°	7700.9	7709.9	7725.0	7851.8	7915.2	7975.6	7990.7	7906.1	7740.1	7640.5	7712.9
15°	7643.5	7661.6	7737.1	7966.5	8141.6	8277.4	8334.8	8265.4	8051.0	7885.0	7966.5
17.5°	7368.8	7383.9	7531.8	7882.0	8268.4	8582.3	8675.9	8633.7	8395.2	8192.9	8271.4
20°	6988.4	7021.6	7181.6	7670.7	8247.3	8793.7	9044.2	9029.1	8769.5	8458.6	8552.2
22.5°	6644.3	6683.5	6852.6	7393.0	8105.4	8848.0	9415.5	9454.8	9110.6	8724.2	8799.7
25°	6257.9	6294.1	6511.5	7063.9	7860.9	8805.7	9732.5	9910.6	9497.0	9029.1	9098.6
27.5°	5862.4	5889.6	6103.9	6692.6	7540.9	8727.2	9983.1	10411.7	9877.4	9240.4	9288.7
30°	5515.3	5551.5	5747.7	6321.3	7190.7	8570.3	10188.3	10946.0	10315.1	9478.9	9518.2
32.5°	5180.2	5210.4	5424.7	5956.0	6819.4	8328.8	10372.5	11573.9	10964.1	9922.7	9922.7
35°	4757.6	4811.9	5053.4	5605.8	6469.2	8008.8	10505.3	12304.5	11851.7	10577.7	10580.8
37.5°	4368.2	4398.3	4651.9	5210.4	6100.9	7646.5	10517.4	13062.2	12974.6	11410.9	11417.0
40°	3924.4	3963.6	4235.3	4787.8	5678.3	7266.2	10402.7	13768.6	14152.0	12268.3	12235.0
42.5°	3474.6	3532.0	3791.6	4331.9	5222.5	6801.3	10097.8	14441.8	15646.3	13261.4	13179.9
45°	3039.9	3076.1	3335.7	3845.9	4700.2	6245.8	9608.7	15087.8	17421.3	14770.8	14653.1
47.5°	2550.9	2565.9	2834.6	3323.7	4159.9	5627.0	8908.4	15664.4	19371.4	16769.2	16567.0
50°	2116.2	2137.3	2348.6	2768.2	3498.7	4893.4	8035.9	16002.5	21855.8	19495.2	19145.0
52.5°	1711.6	1732.8	1901.8	2236.9	2892.0	4057.2	6955.2	15924.0	24376.5	22879.2	22369.0
55°	1382.6	1397.7	1512.4	1775.0	2276.1	3227.1	5678.3	15220.6	27174.9	27298.7	26199.8
57.5°	1168.3	1174.3	1252.8	1412.8	1778.1	2487.5	4383.2	13560.3	30109.1	32937.7	31132.5
60°	1044.5	1047.5	1083.7	1183.4	1403.7	1898.8	3212.0	10915.8	33149.0	39992.6	37517.2
62.5°	966.0	966.0	996.2	1053.5	1165.2	1461.1	2360.7	7839.7	35331.6	47669.3	45209.0
65°	890.5	890.5	911.7	960.0	1020.3	1192.4	1772.0	5056.4	36403.3	54087.2	53540.8
67.5°	793.9	797.0	812.0	863.4	917.7	996.2	1343.3	3420.3	34178.4	55862.2	58627.4
70°	703.4	706.4	727.5	760.7	806.0	860.3	1050.5	2357.7	24877.6	46525.2	52420.8
72.5°	603.8	615.8	630.9	667.1	694.3	733.6	857.3	1527.5	14475.0	29928.0	34652.4
75°	495.1	510.2	528.3	564.5	582.6	597.7	706.4	1089.8	6964.3	15166.3	17270.3
77.5°	383.4	398.5	419.6	452.8	464.9	483.0	540.4	787.9	3335.7	6722.8	7248.1
80°	256.6	262.6	280.7	320.0	341.1	353.2	398.5	537.3	1449.0	2698.8	2674.6
82.5°	157.0	160.0	166.0	190.2	199.2	211.3	259.6	329.0	691.3	3067.1	3516.9
85°	57.4	54.3	51.3	66.4	78.5	90.6	120.8	166.0	301.9	2107.1	2357.7
87.5°	0.0	0.0	0.0	3.0	6.0	6.0	12.1	24.2	72.5	787.9	540.4
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°	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9	7054.9
2.5°	7079.0	7045.8	7088.1	7118.2	7184.7	7208.8	7214.8	7193.7	7193.7	7157.5	7163.5
5°	7160.5	7139.4	7208.8	7260.1	7356.7	7393.0	7417.1	7402.0	7411.1	7386.9	7393.0
7.5°	7284.3	7266.2	7386.9	7486.5	7586.2	7628.4	7649.5	7637.5	7640.5	7610.3	7619.4
10°	7456.3	7462.4	7607.3	7737.1	7869.9	7912.2	7921.2	7885.0	7854.8	7800.5	7803.5
12.5°	7691.8	7722.0	7927.3	8072.2	8208.0	8268.4	8202.0	8069.2	7945.4	7851.8	7839.7
15°	7948.4	8002.7	8298.6	8482.7	8630.6	8600.5	8404.2	8105.4	7860.9	7722.0	7694.8
17.5°	8256.3	8337.8	8709.1	8929.5	9056.3	8863.1	8452.5	8005.8	7664.6	7477.5	7441.3
20°	8546.1	8675.9	9143.8	9430.6	9445.7	9011.0	8431.4	7803.5	7374.8	7145.4	7097.1
22.5°	8811.8	8977.8	9599.7	9964.9	9768.7	9077.4	8301.6	7516.7	7024.7	6756.0	6713.7
25°	9101.6	9337.0	10131.0	10472.1	10091.7	9050.3	8029.9	7160.5	6602.0	6327.3	6297.1
27.5°	9300.8	9596.6	10665.3	10991.3	10357.4	8896.3	7679.7	6771.1	6215.6	5956.0	5913.8
30°	9530.2	9907.6	11254.0	11555.8	10520.4	8669.9	7305.4	6408.8	5856.4	5575.7	5545.5
32.5°	9946.8	10420.8	11984.5	12153.5	10571.7	8389.1	6946.2	6058.7	5482.1	5201.3	5159.1
35°	10617.0	11172.4	13010.9	12820.7	10532.5	8081.2	6605.1	5648.1	5098.7	4836.1	4793.8
37.5°	11462.2	12153.5	14155.0	13421.4	10423.8	7743.1	6200.5	5304.0	4754.6	4488.9	4464.8
40°	12250.1	13101.4	15438.0	13940.6	10203.4	7326.5	5811.1	4944.7	4383.2	4102.5	4048.2
42.5°	13237.3	14369.3	16923.2	14390.4	9841.2	6828.4	5373.4	4501.0	3918.4	3664.8	3598.4
45°	14737.6	16144.3	18649.9	14822.1	9300.8	6215.6	4824.0	3960.6	3408.2	3148.6	3097.3
47.5°	16609.2	18363.1	20521.6	15078.7	8479.7	5569.6	4202.1	3390.1	2837.6	2544.8	2520.7
50°	19238.6	21590.2	22529.0	15033.4	7562.0	4802.9	3501.8	2710.8	2249.0	2037.7	2004.5
52.5°	22441.5	25641.4	24699.5	14490.1	6586.9	3930.4	2729.0	2128.2	1784.1	1633.2	1606.0
55°	26459.5	30492.5	26984.7	13324.8	5355.3	3009.7	2143.3	1678.4	1443.0	1352.4	1340.3
57.5°	31434.4	36774.6	29185.4	11362.6	4027.0	2297.3	1651.3	1385.6	1273.9	1219.6	1216.6
60°	38000.2	43443.0	31096.3	8829.9	2882.9	1756.9	1364.5	1237.7	1150.1	1113.9	1110.9
62.5°	45806.7	49498.7	32285.7	6013.4	2167.5	1400.7	1201.5	1123.0	1071.7	1050.5	1047.5
65°	53830.6	53326.5	31718.1	3939.5	1645.2	1189.4	1077.7	1035.4	990.2	969.0	969.0
67.5°	58570.0	52517.4	27362.1	2735.0	1304.1	1044.5	972.0	932.8	857.3	839.2	839.2
70°	51877.4	42555.5	17934.5	2001.4	1056.6	914.7	845.3	790.9	760.7	742.6	739.6
72.5°	34311.3	27691.1	9536.3	1388.6	881.5	778.8	715.4	694.3	658.1	640.0	637.0
75°	17077.1	14544.4	4887.4	1002.2	733.6	624.9	597.7	588.7	558.5	534.3	528.3
77.5°	7118.2	6475.2	2279.2	727.5	558.5	504.1	480.0	480.0	446.8	419.6	407.5
80°	2683.7	2390.9	1077.7	498.1	413.6	374.3	359.2	347.2	320.0	286.8	268.7
82.5°	3589.3	2345.6	528.3	310.9	271.7	241.5	220.4	211.3	196.2	181.1	169.1
85°	2324.4	1666.4	238.5	160.0	135.8	102.6	90.6	84.5	75.5	66.4	60.4
87.5°	473.9	558.5	72.5	30.2	18.1	9.1	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)