

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: P638861

Luminaire Tested: GWS-SA4F-760-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-760-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

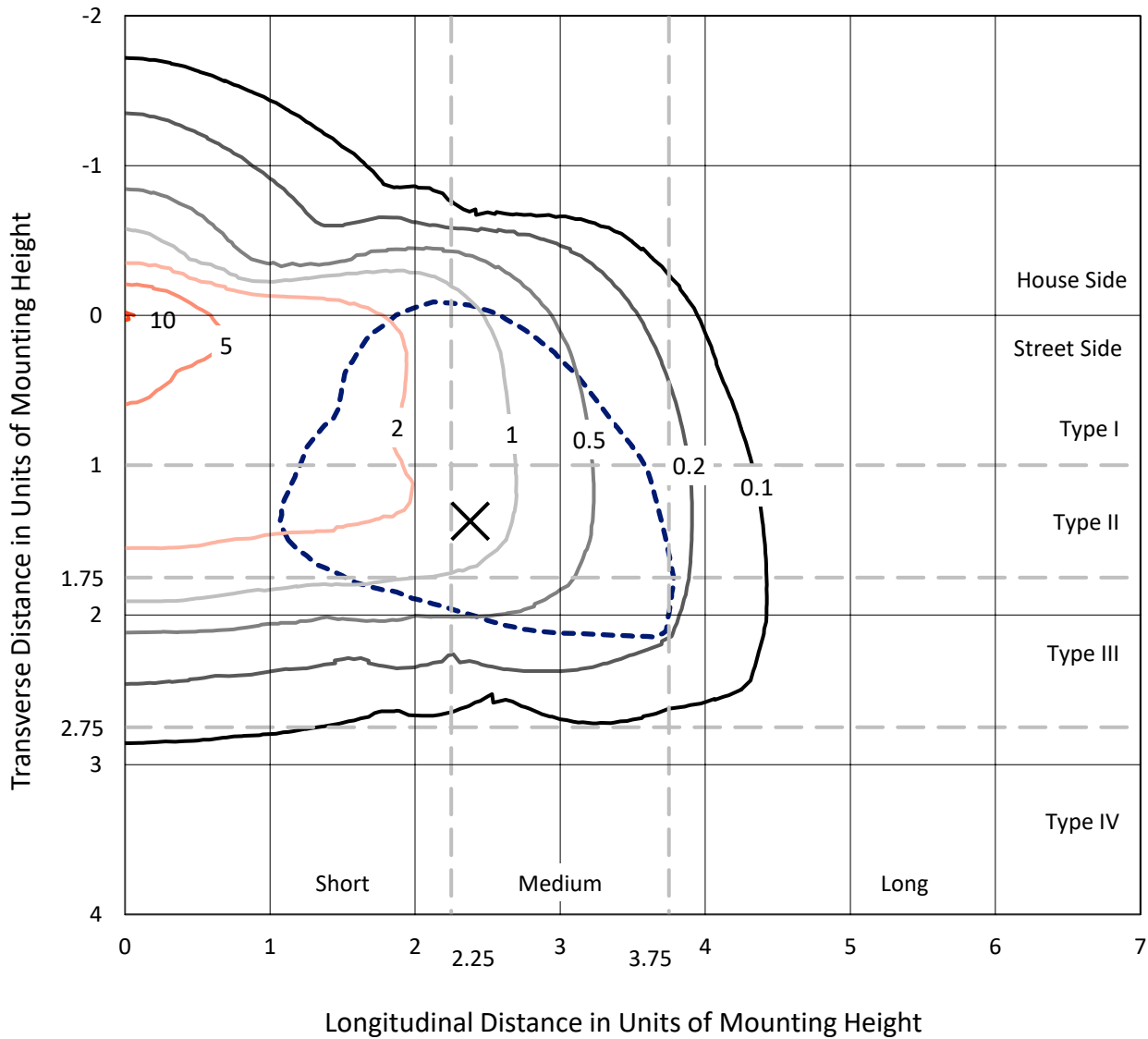
Lumens per Lamp: N/A  
Luminaire Lumens: 33634.5 lumens  
Efficiency: N/A  
Efficacy: 149.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): 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: P638861  
 CATALOG NUMBER: GWS-SA4F-760-U-SL3-W

### Iso-Footcandle Lines of Horizontal Illumination

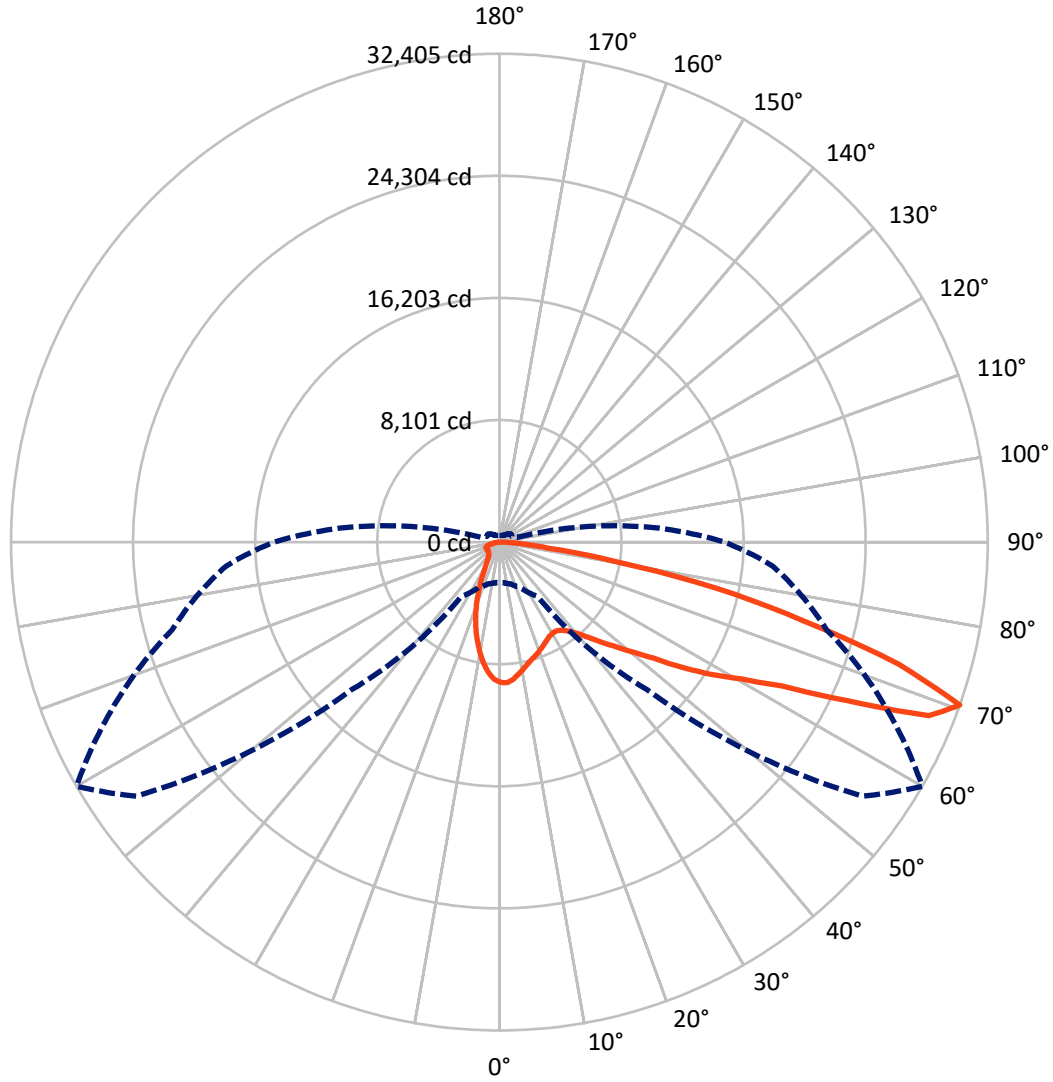
✕ Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P638861  
CATALOG NUMBER: GWS-SA4F-760-U-SL3-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P638861

CATALOG NUMBER: GWS-SA4F-760-U-SL3-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5752.3	0.0	5752.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	27882.2	0.0	27882.2
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	33634.5	0.0	33634.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	802.2	2.4
10°-20°	1797.3	5.3
20°-30°	2301.7	6.8
30°-40°	3025.0	9.0
40°-50°	4388.8	13.0
50°-60°	6847.5	20.4
60°-70°	8964.7	26.7
70°-80°	4957.2	14.7
80°-90°	550.1	1.6
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°	33634.5	100.0
0°-180°	33634.5	100.0

**Coefficient of Utilization**



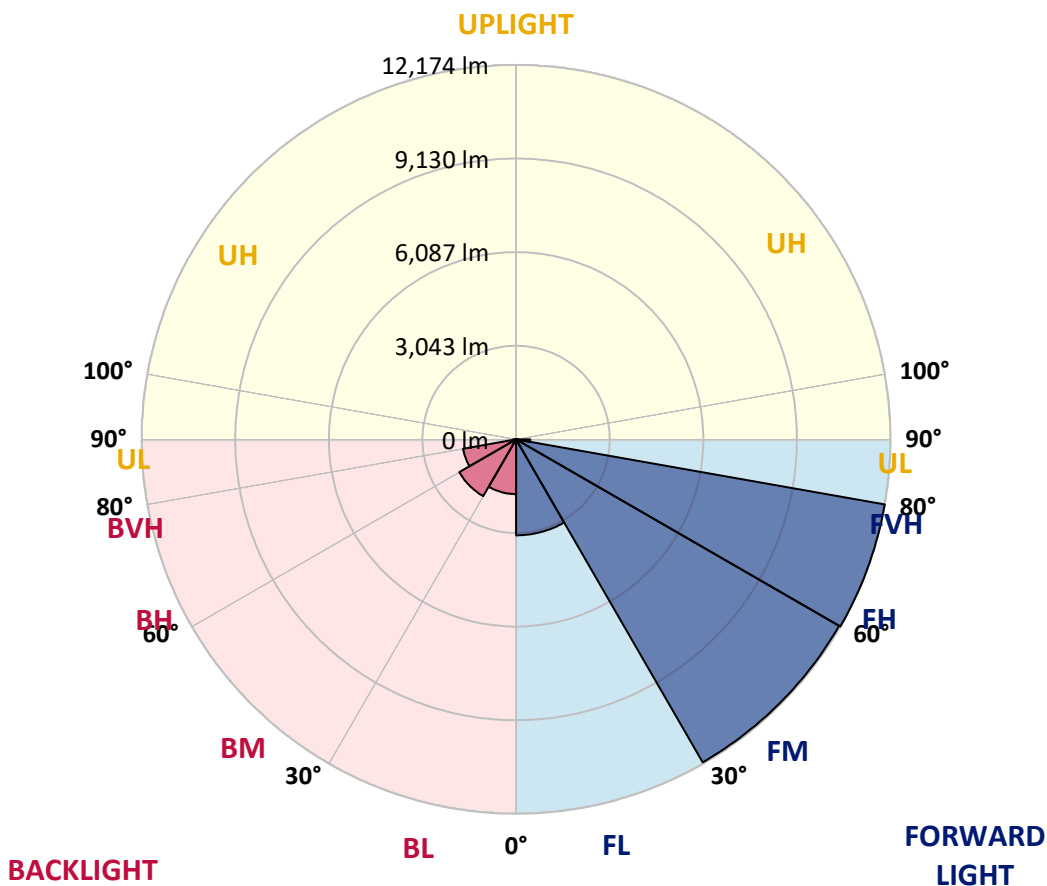
REPORT NUMBER: P638861

CATALOG NUMBER: GWS-SA4F-760-U-SL3-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3121.5	9.3			
FM (30°-60°)	12128.5	36.1			
FH (60°-80°)	12173.8	36.2			G5
FVH (80°-90°)	458.4	1.4			G3/500
BL (0°-30°)	1779.7	5.3	B3/2500		
BM (30°-60°)	2132.8	6.3	B2/2500		
BH (60°-80°)	1748.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	91.7	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-G5**  
 Type III Medium





REPORT NUMBER: P638861  
 CATALOG NUMBER: GWS-SA4F-760-U-SL3-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1
2.5°	9176.7	9186.5	9213.6	9253.0	9292.3	9312.0	9361.2	9346.5	9336.6	9316.9	9292.3
5°	8770.6	8790.3	8814.9	8891.2	8977.3	9046.2	9157.0	9169.3	9174.2	9184.1	9144.7
7.5°	8253.8	8258.8	8317.8	8418.7	8531.9	8650.0	8834.6	8886.3	8930.6	8979.8	8947.8
10°	7682.9	7695.2	7739.5	7884.7	8079.1	8253.8	8502.4	8588.5	8682.0	8790.3	8746.0
12.5°	7215.3	7217.8	7289.2	7444.2	7655.8	7892.1	8202.2	8305.5	8428.6	8598.4	8559.0
15°	6843.7	6843.7	6910.2	7043.1	7286.7	7564.8	7933.9	8066.8	8234.2	8463.0	8394.1
17.5°	6548.4	6550.9	6592.7	6733.0	6949.6	7257.2	7695.2	7874.9	8059.4	8362.1	8258.8
20°	6393.4	6381.1	6388.5	6474.6	6659.2	6956.9	7456.5	7665.7	7914.2	8293.2	8135.7
22.5°	6386.0	6363.9	6331.9	6339.3	6447.5	6693.6	7200.6	7454.0	7766.6	8236.6	8010.2
25°	6511.5	6486.9	6430.3	6366.3	6356.5	6504.1	6959.4	7247.3	7614.0	8212.0	7889.6
27.5°	6723.2	6705.9	6632.1	6536.1	6435.2	6430.3	6777.3	7077.5	7503.3	8236.6	7803.5
30°	7003.7	6974.2	6927.4	6804.4	6651.8	6494.3	6705.9	6986.5	7429.4	8315.4	7766.6
32.5°	7321.2	7303.9	7259.6	7136.6	6974.2	6723.2	6762.5	7006.2	7429.4	8453.2	7774.0
35°	7658.3	7655.8	7655.8	7574.6	7395.0	7082.5	6986.5	7173.5	7542.6	8674.7	7852.7
37.5°	7985.6	7983.1	8061.9	8091.4	7887.2	7550.0	7367.9	7508.2	7791.2	9002.0	8047.1
40°	8251.4	8261.2	8433.5	8581.1	8467.9	8155.4	7899.5	7970.8	8194.8	9467.1	8386.7
42.5°	8519.6	8546.7	8805.1	9065.9	9110.2	8839.5	8581.1	8623.0	8773.1	10082.3	8893.7
45°	8812.5	8824.8	9186.5	9550.7	9764.8	9604.9	9393.2	9449.8	9484.3	10842.7	9649.2
47.5°	9095.5	9127.5	9595.0	10094.6	10500.6	10485.9	10367.7	10350.5	10357.9	11768.0	10542.5
50°	9481.8	9528.6	10077.4	10680.3	11275.8	11549.0	11583.4	11453.0	11398.9	12796.6	11654.8
52.5°	10215.2	10215.2	10707.4	11300.4	12100.2	12777.0	13008.3	12794.2	12621.9	13884.4	12836.0
55°	11133.1	11172.5	11563.7	12043.6	13057.5	14068.9	14851.5	14615.2	14128.0	15068.1	14073.9
57.5°	11541.6	11590.8	12211.0	12956.6	14310.1	15538.1	16623.3	16539.7	15828.5	16298.5	15358.4
60°	10803.3	10906.7	11760.6	13010.7	15444.6	17907.9	18673.3	18429.6	17413.3	17590.5	16751.3
62.5°	9011.8	9125.0	10072.4	11817.2	15287.1	20469.7	21904.4	21006.2	19391.8	19222.0	18606.8
65°	5377.1	5372.1	6511.5	8824.8	13345.4	21180.9	27018.2	25342.3	22448.3	21461.5	20516.5
67.5°	3418.2	3410.8	3649.5	4675.7	8881.4	19438.6	30305.9	30741.5	26599.8	23107.8	20674.0
70°	2697.1	2694.7	2866.9	3334.5	4392.7	13832.7	29390.5	32405.1	29107.5	22480.3	18203.2
72.5°	1966.3	1971.2	2237.0	2793.1	3388.7	6944.6	23799.3	27726.9	26772.1	19844.6	14777.7
75°	1412.6	1419.9	1579.9	2138.5	3125.3	3797.2	15826.0	20848.7	20368.8	15907.2	10166.0
77.5°	898.2	908.1	1048.3	1498.7	2524.9	3066.3	9595.0	14718.6	13552.1	8962.6	3615.1
80°	548.8	580.8	698.9	1117.2	2017.9	2300.9	4796.3	7754.3	6787.1	2458.4	1215.7
82.5°	283.0	307.6	420.8	691.5	1390.4	2020.4	2714.4	3258.2	2101.6	1028.7	647.2
85°	88.6	103.4	147.7	280.5	662.0	1252.6	1796.5	1619.3	964.7	484.8	300.2
87.5°	22.1	22.1	24.6	24.6	27.1	56.6	347.0	366.7	255.9	152.6	123.0
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: P638861  
 CATALOG NUMBER: GWS-SA4F-760-U-SL3-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1	9307.1
2.5°	9243.1	9184.1	9159.4	9157.0	9095.5	9006.9	8947.8	8906.0	8881.4	8876.4	8876.4
5°	9078.2	9002.0	8901.1	8824.8	8659.9	8492.5	8352.3	8273.5	8182.5	8170.2	8167.7
7.5°	8859.2	8748.5	8556.5	8342.4	8054.5	7776.4	7540.2	7380.2	7220.3	7190.7	7180.9
10°	8623.0	8472.9	8145.6	7769.0	7338.4	6922.5	6560.7	6277.7	6090.7	5957.8	5933.2
12.5°	8389.2	8189.9	7710.0	7148.9	6558.3	5989.8	5446.0	4983.3	4648.6	4454.2	4419.8
15°	8170.2	7892.1	7235.0	6518.9	5751.1	4973.5	4203.2	3602.7	3132.7	2965.4	2926.0
17.5°	7970.8	7623.8	6774.8	5866.8	4909.5	3893.1	3017.1	2483.0	2207.4	2123.8	2104.1
20°	7771.5	7348.2	6307.3	5180.2	4016.2	2876.8	2205.0	1953.9	1850.6	1818.6	1808.8
22.5°	7557.4	7045.5	5797.9	4503.4	3113.0	2153.3	1803.8	1693.1	1661.1	1663.6	1661.1
25°	7343.3	6737.9	5263.9	3767.6	2318.2	1747.2	1575.0	1533.1	1540.5	1562.7	1567.6
27.5°	7166.1	6464.8	4739.7	2960.5	1811.2	1503.6	1422.4	1419.9	1447.0	1476.5	1481.5
30°	7038.2	6221.1	4222.9	2276.3	1491.3	1336.3	1304.3	1319.0	1351.0	1373.2	1380.6
32.5°	6947.1	6012.0	3671.7	1789.1	1306.7	1218.1	1203.4	1218.1	1237.8	1260.0	1264.9
35°	6915.1	5859.4	3130.3	1459.3	1181.2	1132.0	1122.2	1129.6	1139.4	1151.7	1156.6
37.5°	6986.5	5783.1	2564.3	1269.8	1104.9	1075.4	1060.6	1055.7	1058.2	1063.1	1065.6
40°	7198.1	5817.6	2101.6	1159.1	1055.7	1028.7	1004.0	994.2	991.7	996.7	994.2
42.5°	7562.3	5962.7	1766.9	1095.1	1016.3	977.0	949.9	940.1	940.1	952.4	952.4
45°	8096.3	6248.2	1525.8	1048.3	981.9	932.7	903.1	898.2	908.1	927.8	930.2
47.5°	8878.9	6666.6	1380.6	1013.9	949.9	893.3	863.8	861.3	881.0	913.0	915.5
50°	9806.7	7269.5	1301.8	989.3	927.8	861.3	831.8	834.2	856.4	890.8	898.2
52.5°	10923.9	8091.4	1306.7	979.4	915.5	841.6	812.1	807.2	829.3	863.8	871.2
55°	12078.1	9090.5	1402.7	981.9	898.2	831.8	792.4	775.2	794.9	819.5	821.9
57.5°	13347.9	10217.6	1641.4	977.0	876.1	821.9	775.2	735.8	748.1	762.9	770.3
60°	14780.1	11544.1	2155.7	986.8	866.2	799.8	740.7	689.1	686.6	696.4	698.9
62.5°	16694.7	13347.9	2734.1	1004.0	888.4	772.7	689.1	634.9	625.1	630.0	632.4
65°	18158.9	14209.2	2551.9	989.3	935.1	753.0	639.8	583.2	563.5	558.6	558.6
67.5°	17563.4	13069.8	1776.8	949.9	957.3	755.5	600.5	529.1	504.5	492.2	489.7
70°	14945.0	10616.3	1235.4	910.5	932.7	750.6	558.6	484.8	452.8	435.6	433.1
72.5°	11807.4	8106.2	999.1	831.8	846.5	676.7	497.1	435.6	408.5	386.4	386.4
75°	7599.2	4946.4	834.2	740.7	691.5	526.6	430.7	388.8	361.8	339.6	339.6
77.5°	2556.9	1835.8	647.2	627.5	516.8	396.2	361.8	334.7	312.5	292.8	290.4
80°	1038.5	871.2	475.0	475.0	361.8	302.7	283.0	270.7	255.9	231.3	231.3
82.5°	602.9	529.1	332.2	287.9	241.2	209.2	196.9	184.6	184.6	167.3	167.3
85°	290.4	292.8	199.3	177.2	137.8	120.6	115.7	108.3	105.8	96.0	93.5
87.5°	157.5	160.0	100.9	78.7	54.1	46.8	39.4	36.9	34.5	32.0	32.0
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)