

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: P643932

Luminaire Tested: GWS-SA6F-830-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643932  
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-SA6F-830-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

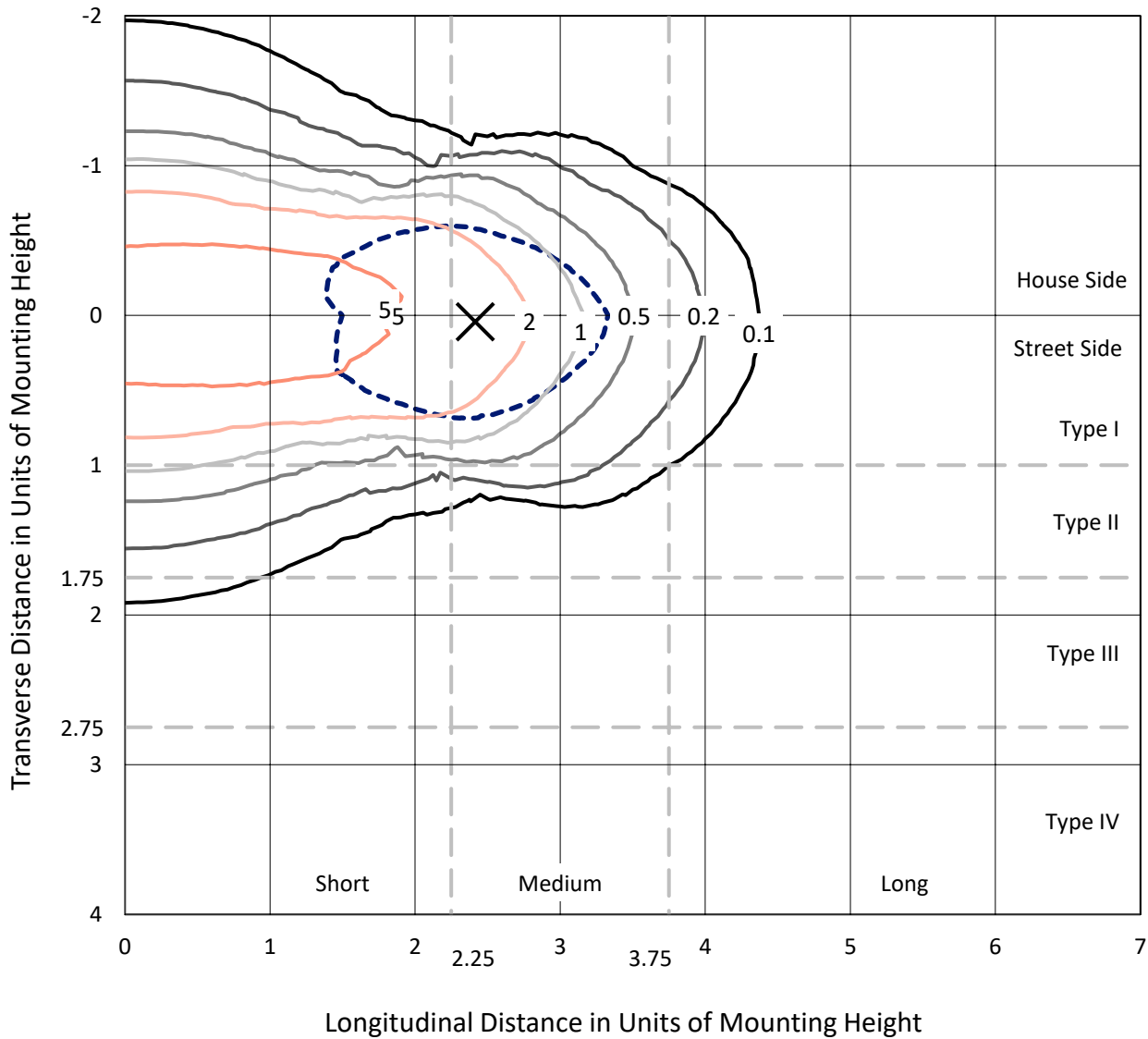
Lumens per Lamp: N/A  
Luminaire Lumens: 39464.5 lumens  
Efficiency: N/A  
Efficacy: 105.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

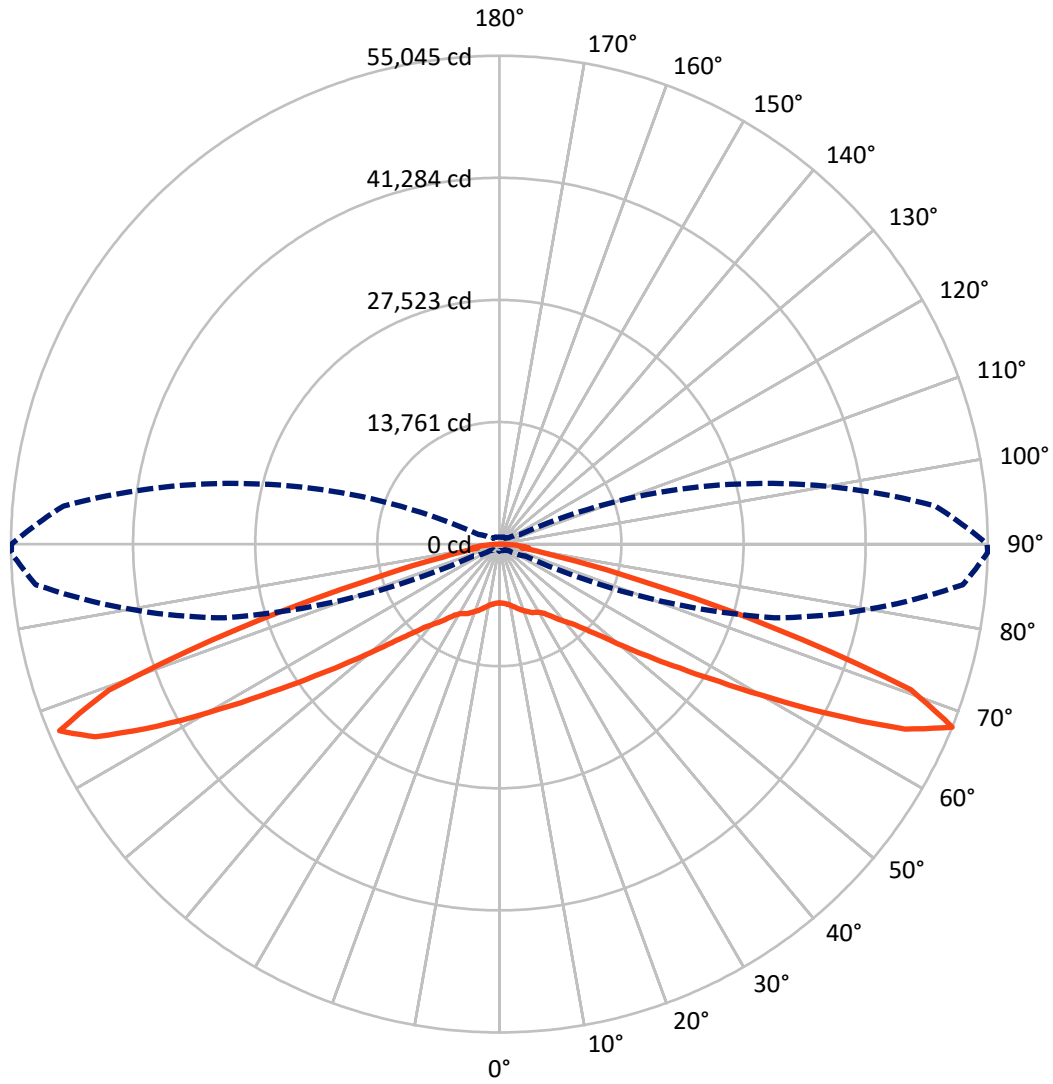
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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
<b>House Side</b>	Lumens	19559.3	0.0	19559.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	19905.2	0.0	19905.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	39464.5	0.0	39464.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.4	1.7
10°-20°	2163.4	5.5
20°-30°	3657.2	9.3
30°-40°	5019.0	12.7
40°-50°	6400.4	16.2
50°-60°	8030.3	20.3
60°-70°	9685.2	24.5
70°-80°	3503.8	8.9
80°-90°	340.7	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°	39464.5	100.0
0°-180°	39464.5	100.0

**Coefficient of Utilization**



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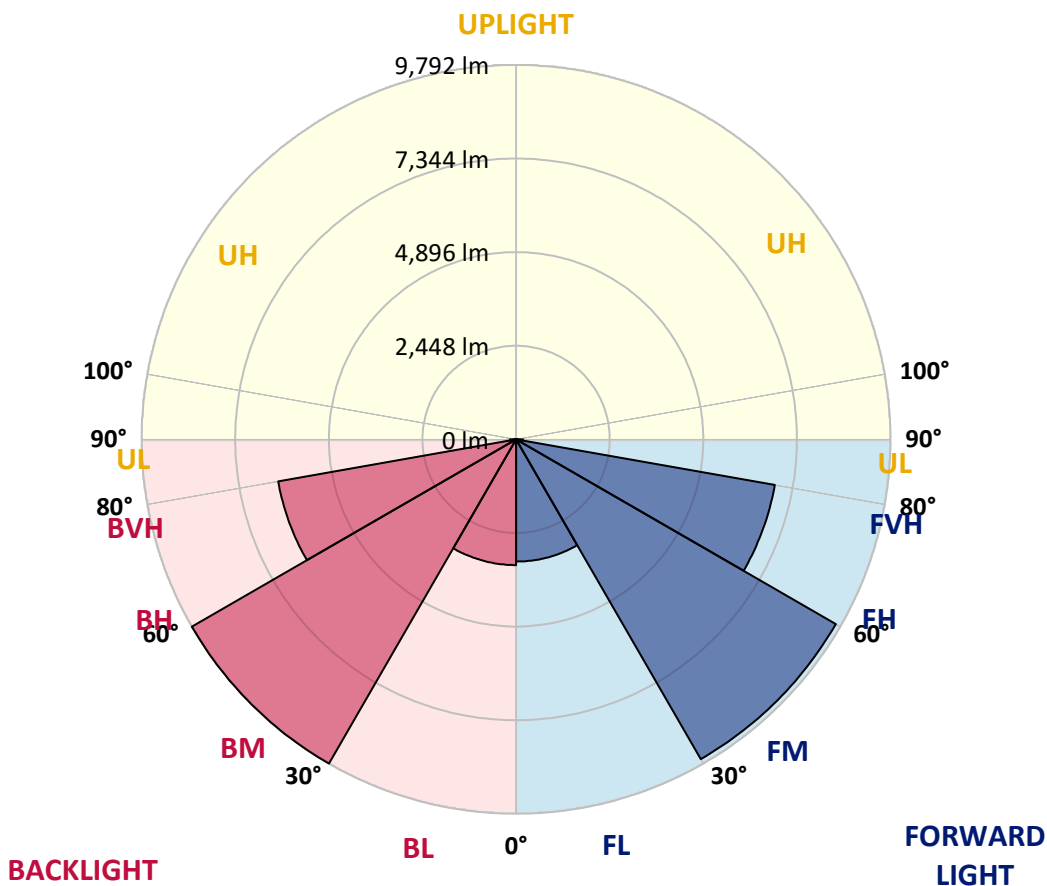
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3196.3	8.1			
FM (30°-60°)	9657.7	24.5			
FH (60°-80°)	6871.3	17.4			G3/7500
FVH (80°-90°)	179.8	0.5			G2/225
BL (0°-30°)	3288.7	8.3	B4/5000		
BM (30°-60°)	9792.0	24.8	B5		
BH (60°-80°)	6317.6	16.0	B5		G5
BVH (80°-90°)	160.9	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°	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8
2.5°	6643.6	6638.0	6623.8	6666.3	6657.8	6660.6	6677.7	6666.3	6646.5	6612.5	6660.6
5°	6830.7	6827.9	6796.7	6822.2	6793.9	6774.0	6771.2	6742.8	6720.2	6683.3	6734.3
7.5°	7012.1	7009.3	6983.8	7029.1	7006.4	6983.8	6958.2	6901.6	6847.7	6793.9	6850.5
10°	7151.0	7148.1	7142.5	7207.7	7213.3	7221.8	7210.5	7114.1	7020.6	6955.4	7012.1
12.5°	7230.3	7238.8	7253.0	7372.1	7431.6	7488.3	7502.4	7423.1	7267.2	7173.7	7241.7
15°	7176.5	7193.5	7264.4	7479.8	7644.2	7771.7	7825.5	7760.4	7559.1	7403.2	7479.8
17.5°	6918.6	6932.7	7071.6	7400.4	7763.2	8058.0	8145.8	8106.1	7882.2	7692.3	7766.0
20°	6561.4	6592.6	6742.8	7202.0	7743.4	8256.4	8491.6	8477.4	8233.7	7941.8	8029.6
22.5°	6238.3	6275.2	6433.9	6941.2	7610.1	8307.4	8840.2	8877.1	8554.0	8191.2	8262.0
25°	5875.5	5909.6	6113.6	6632.3	7380.6	8267.7	9137.8	9305.1	8916.8	8477.4	8542.6
27.5°	5504.2	5529.8	5731.0	6283.7	7080.1	8194.0	9373.1	9775.6	9273.9	8675.8	8721.2
30°	5178.3	5212.3	5396.5	5935.1	6751.3	8046.6	9565.8	10277.2	9684.9	8899.8	8936.6
32.5°	4863.7	4892.0	5093.3	5592.1	6402.7	7819.9	9738.7	10866.8	10294.2	9316.4	9316.4
35°	4466.9	4517.9	4744.6	5263.3	6073.9	7519.4	9863.4	11552.7	11127.5	9931.4	9934.3
37.5°	4101.3	4129.6	4367.7	4892.0	5728.2	7179.3	9874.8	12264.1	12181.9	10713.7	10719.4
40°	3684.6	3721.5	3976.5	4495.2	5331.3	6822.2	9767.1	12927.3	13287.3	11518.7	11487.5
42.5°	3262.3	3316.2	3559.9	4067.2	4903.4	6385.7	9480.8	13559.4	14690.3	12451.2	12374.6
45°	2854.2	2888.2	3131.9	3610.9	4413.0	5864.2	9021.6	14165.9	16356.8	13868.3	13757.8
47.5°	2395.0	2409.2	2661.4	3120.6	3905.7	5283.2	8364.1	14707.3	18187.8	15744.6	15554.7
50°	1986.9	2006.7	2205.1	2599.1	3285.0	4594.4	7545.0	15024.7	20520.5	18304.0	17975.2
52.5°	1607.1	1626.9	1785.6	2100.2	2715.3	3809.3	6530.3	14951.0	22887.1	21481.3	21002.3
55°	1298.1	1312.3	1420.0	1666.6	2137.1	3029.9	5331.3	14290.6	25514.5	25630.7	24599.0
57.5°	1096.9	1102.5	1176.2	1326.5	1669.4	2335.5	4115.4	12731.8	28269.5	30925.2	29230.3
60°	980.7	983.5	1017.5	1111.1	1318.0	1782.8	3015.7	10248.9	31123.6	37549.0	35224.9
62.5°	907.0	907.0	935.3	989.2	1094.0	1371.8	2216.4	7360.7	33172.8	44756.7	42446.7
65°	836.1	836.1	856.0	901.3	958.0	1119.6	1663.7	4747.5	34179.0	50782.5	50269.4
67.5°	745.4	748.3	762.4	810.6	861.6	935.3	1261.3	3211.3	32090.1	52449.0	55045.3
70°	660.4	663.2	683.1	714.2	756.8	807.8	986.3	2213.6	23357.6	43682.5	49217.9
72.5°	566.9	578.2	592.4	626.4	651.9	688.7	804.9	1434.2	13590.5	28099.4	32535.1
75°	464.8	479.0	496.0	530.0	547.0	561.2	663.2	1023.2	6538.8	14239.6	16215.1
77.5°	360.0	374.1	394.0	425.1	436.5	453.5	507.3	739.8	3131.9	6312.0	6805.2
80°	240.9	246.6	263.6	300.4	320.3	331.6	374.1	504.5	1360.5	2533.9	2511.2
82.5°	147.4	150.2	155.9	178.6	187.1	198.4	243.8	308.9	649.1	2879.7	3302.0
85°	53.9	51.0	48.2	62.4	73.7	85.0	113.4	155.9	283.4	1978.4	2213.6
87.5°	0.0	0.0	0.0	2.8	5.7	5.7	11.3	22.7	68.0	739.8	507.3
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°	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8	6623.8
2.5°	6646.5	6615.3	6655.0	6683.3	6745.7	6768.3	6774.0	6754.2	6754.2	6720.2	6725.8
5°	6723.0	6703.2	6768.3	6816.5	6907.2	6941.2	6963.9	6949.7	6958.2	6935.6	6941.2
7.5°	6839.2	6822.2	6935.6	7029.1	7122.6	7162.3	7182.2	7170.8	7173.7	7145.3	7153.8
10°	7000.8	7006.4	7142.5	7264.4	7389.1	7428.7	7437.2	7403.2	7374.9	7323.9	7326.7
12.5°	7221.8	7250.2	7442.9	7579.0	7706.5	7763.2	7700.8	7576.1	7459.9	7372.1	7360.7
15°	7462.8	7513.8	7791.5	7964.4	8103.3	8075.0	7890.7	7610.1	7380.6	7250.2	7224.7
17.5°	7751.9	7828.4	8177.0	8383.9	8503.0	8321.6	7936.1	7516.6	7196.3	7020.6	6986.6
20°	8024.0	8145.8	8585.1	8854.4	8868.6	8460.4	7916.2	7326.7	6924.2	6708.8	6663.5
22.5°	8273.4	8429.3	9013.1	9356.1	9171.8	8522.8	7794.4	7057.4	6595.5	6343.2	6303.5
25°	8545.5	8766.5	9512.0	9832.2	9475.1	8497.3	7539.3	6723.0	6198.7	5940.7	5912.4
27.5°	8732.5	9010.3	10013.6	10319.7	9724.5	8352.7	7210.5	6357.4	5835.9	5592.1	5552.4
30°	8947.9	9302.2	10566.3	10849.8	9877.6	8140.2	6859.0	6017.3	5498.6	5235.0	5206.6
32.5°	9339.1	9784.1	11252.2	11411.0	9925.8	7876.6	6521.8	5688.5	5147.1	4883.5	4843.8
35°	9968.3	10489.8	12215.9	12037.3	9888.9	7587.5	6201.5	5303.0	4787.2	4540.6	4500.9
37.5°	10761.9	11411.0	13290.1	12601.4	9786.9	7270.0	5821.7	4979.9	4464.0	4214.6	4192.0
40°	11501.7	12300.9	14494.7	13088.9	9580.0	6878.9	5456.1	4642.6	4115.4	3851.8	3800.8
42.5°	12428.5	13491.3	15889.2	13511.2	9239.9	6411.2	5045.1	4226.0	3678.9	3440.9	3378.5
45°	13837.1	15157.9	17510.4	13916.5	8732.5	5835.9	4529.2	3718.6	3199.9	2956.2	2908.0
47.5°	15594.4	17241.1	19267.7	14157.4	7961.6	5229.3	3945.4	3182.9	2664.3	2389.3	2366.7
50°	18063.1	20271.0	21152.5	14114.9	7100.0	4509.4	3287.8	2545.2	2111.6	1913.2	1882.0
52.5°	21070.3	24074.7	23190.4	13604.7	6184.5	3690.3	2562.2	1998.2	1675.1	1533.4	1507.9
55°	24842.8	28629.4	25336.0	12510.7	5028.1	2825.8	2012.4	1575.9	1354.8	1269.8	1258.4
57.5°	29513.7	34527.6	27402.2	10668.4	3781.0	2156.9	1550.4	1301.0	1196.1	1145.1	1142.2
60°	35678.4	40788.7	29196.3	8290.4	2706.8	1649.6	1281.1	1162.1	1079.9	1045.9	1043.0
62.5°	43007.9	46474.3	30313.0	5646.0	2035.0	1315.1	1128.1	1054.4	1006.2	986.3	983.5
65°	50541.5	50068.2	29780.2	3698.8	1544.7	1116.7	1011.9	972.2	929.7	909.8	909.8
67.5°	54991.4	49308.6	25690.2	2567.9	1224.4	980.7	912.7	875.8	804.9	787.9	787.9
70°	48707.7	39955.4	16838.7	1879.2	992.0	858.8	793.6	742.6	714.2	697.2	694.4
72.5°	32214.8	25999.2	8953.6	1303.8	827.6	731.3	671.7	651.9	617.9	600.9	598.0
75°	16033.7	13655.7	4588.8	941.0	688.7	586.7	561.2	552.7	524.3	501.7	496.0
77.5°	6683.3	6079.6	2139.9	683.1	524.3	473.3	450.7	450.7	419.5	394.0	382.6
80°	2519.7	2244.8	1011.9	467.7	388.3	351.5	337.3	325.9	300.4	269.3	252.3
82.5°	3370.0	2202.3	496.0	291.9	255.1	226.7	206.9	198.4	184.2	170.1	158.7
85°	2182.4	1564.5	223.9	150.2	127.5	96.4	85.0	79.4	70.9	62.4	56.7
87.5°	445.0	524.3	68.0	28.3	17.0	8.5	8.5	2.8	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)