

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: P641272

Luminaire Tested: GWS-SA5F-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641272  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-750-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

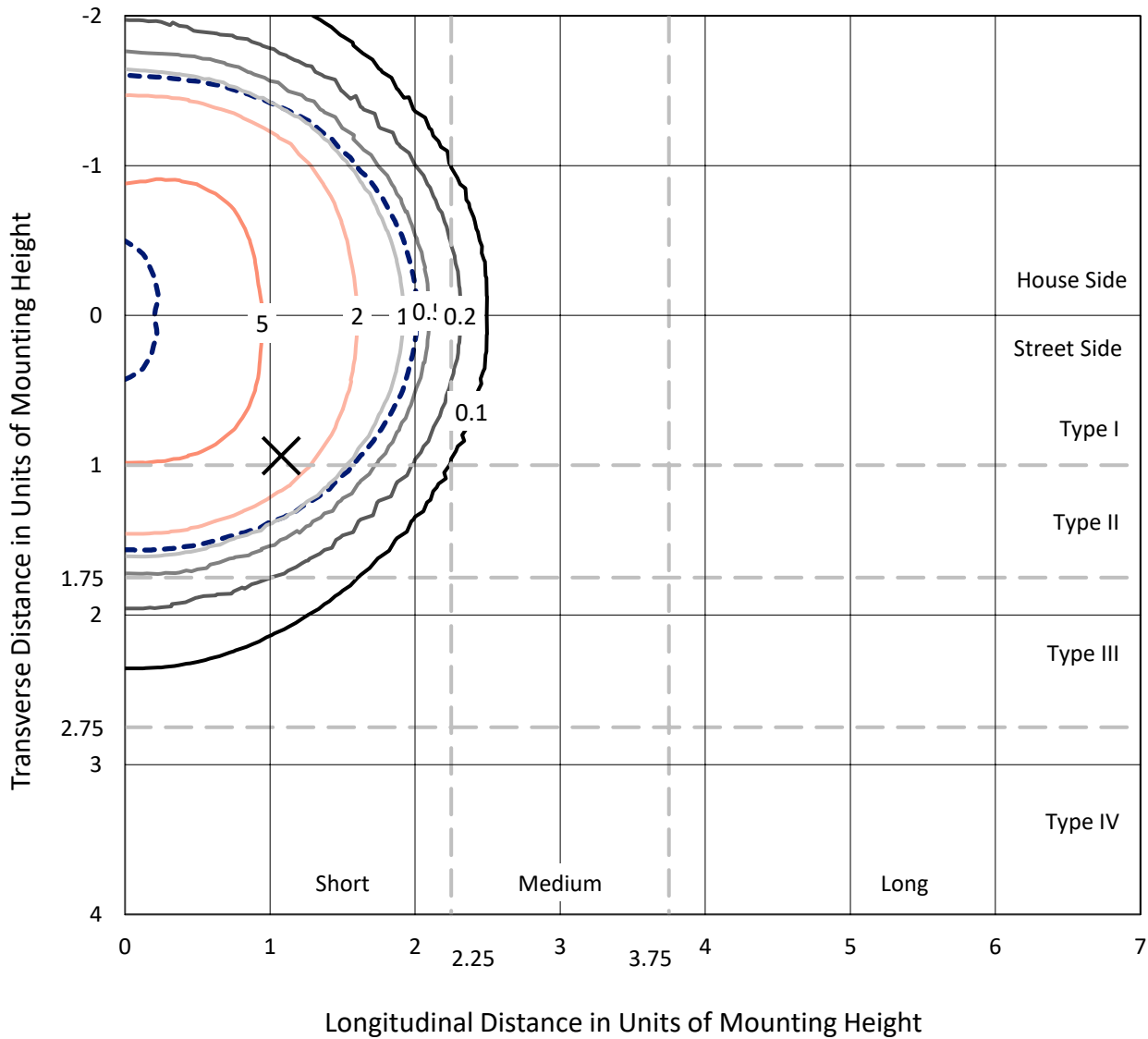
Lumens per Lamp: N/A  
Luminaire Lumens: 37637.1 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

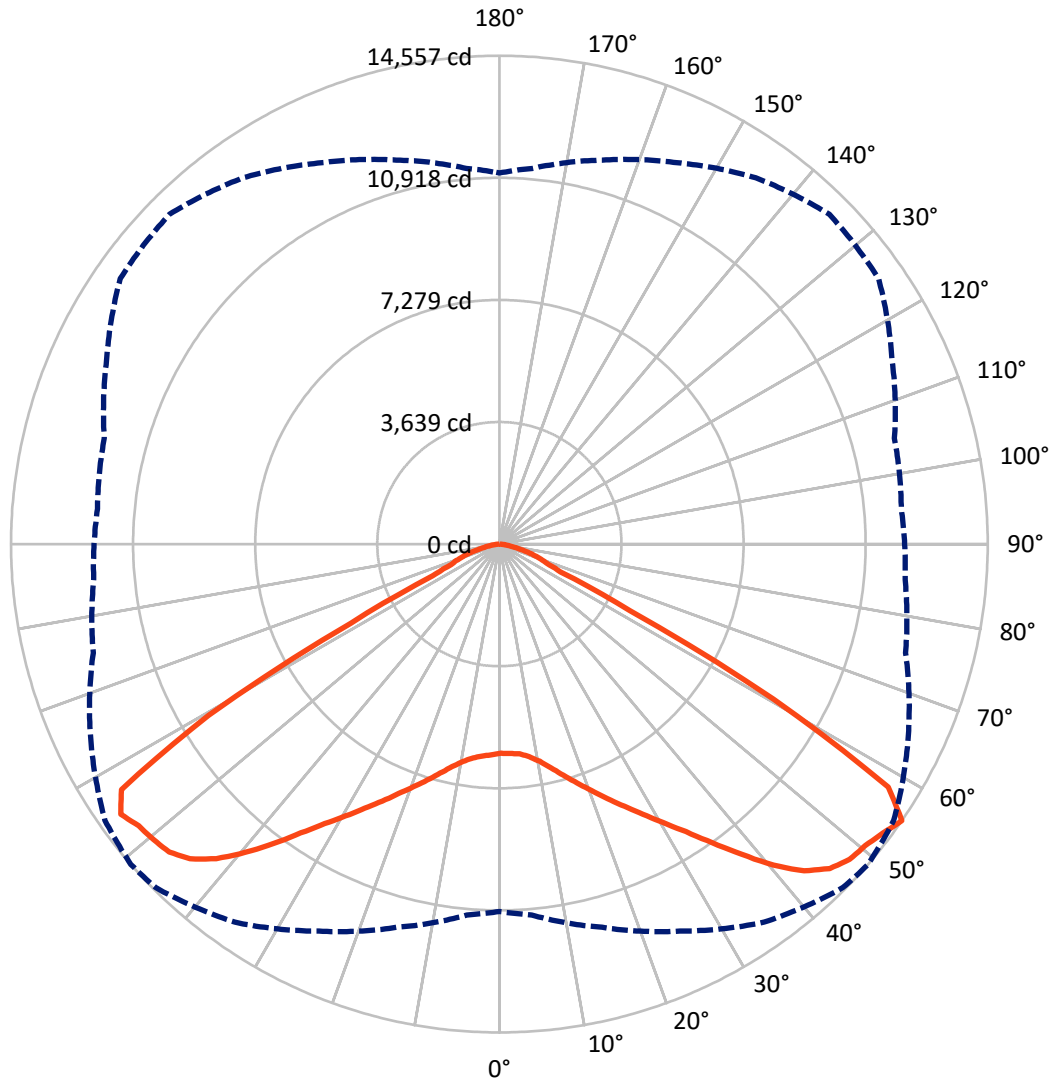
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18633.9	0.0	18633.9
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	19003.2	0.0	19003.2
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	37637.1	0.0	37637.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	608.2	1.6
10°-20°	2006.1	5.3
20°-30°	3821.1	10.2
30°-40°	6477.6	17.2
40°-50°	9748.3	25.9
50°-60°	10670.5	28.4
60°-70°	3374.0	9.0
70°-80°	809.8	2.2
80°-90°	121.5	0.3
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°	37637.1	100.0
0°-180°	37637.1	100.0

**Coefficient of Utilization**



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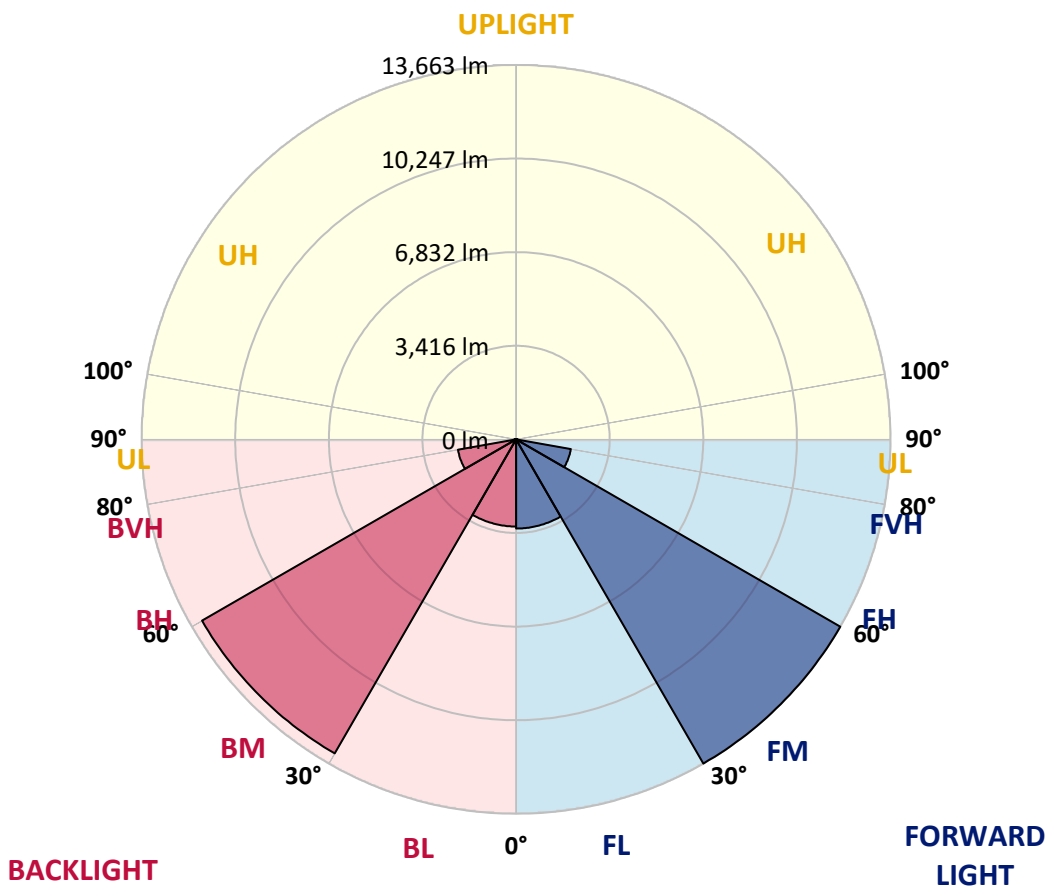
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3254.1	8.6			
FM (30°-60°)	13663.3	36.3			
FH (60°-80°)	2029.5	5.4			G2/5000
FVH (80°-90°)	56.3	0.1			G1/100
BL (0°-30°)	3181.4	8.5	B4/5000		
BM (30°-60°)	13233.0	35.2	B5		
BH (60°-80°)	2154.3	5.7	B3/2500		G2/5000
BVH (80°-90°)	65.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8
2.5°	6143.0	6149.1	6161.4	6182.8	6204.2	6234.8	6247.1	6262.4	6259.3	6277.7	6277.7
5°	6112.4	6121.6	6139.9	6170.5	6207.3	6265.4	6280.7	6317.5	6354.2	6400.1	6415.4
7.5°	6149.1	6161.4	6182.8	6231.8	6286.8	6363.4	6394.0	6455.2	6525.6	6608.2	6641.9
10°	6219.5	6234.8	6271.5	6351.1	6439.9	6556.2	6583.7	6660.3	6773.5	6886.8	6954.1
12.5°	6299.1	6323.6	6390.9	6516.4	6648.0	6801.1	6843.9	6938.8	7061.2	7208.1	7300.0
15°	6390.9	6412.3	6516.4	6693.9	6899.0	7101.0	7150.0	7241.8	7379.5	7523.4	7652.0
17.5°	6583.7	6620.5	6742.9	6948.0	7186.7	7425.5	7480.6	7584.6	7694.8	7808.1	7930.5
20°	6847.0	6877.6	7033.7	7287.7	7569.3	7786.6	7841.7	7933.5	7985.6	8043.7	8147.8
22.5°	7110.2	7153.0	7330.6	7630.5	7961.1	8196.8	8239.6	8325.3	8288.6	8270.2	8337.6
25°	7437.7	7495.9	7670.3	7997.8	8334.5	8625.3	8659.0	8732.4	8671.2	8576.3	8573.3
27.5°	7844.8	7896.8	8077.4	8414.1	8747.7	9050.7	9115.0	9213.0	9078.3	8962.0	8879.3
30°	8328.4	8362.1	8561.0	8919.1	9261.9	9549.6	9632.3	9730.2	9629.2	9436.4	9353.8
32.5°	8891.6	8937.5	9167.0	9543.5	9849.6	10137.3	10220.0	10342.4	10232.2	10014.9	9910.8
35°	9568.0	9613.9	9855.7	10265.9	10578.1	10875.0	10933.1	11034.1	10896.4	10645.4	10562.8
37.5°	10302.6	10360.7	10666.8	11055.5	11383.0	11728.9	11732.0	11762.6	11566.7	11254.5	11162.7
40°	11129.0	11205.5	11511.6	11915.6	12310.5	12592.1	12589.0	12503.3	12172.7	11689.1	11548.3
42.5°	11946.2	12007.4	12316.6	12732.9	13127.7	13394.0	13314.4	13106.3	12628.8	11970.7	11784.0
45°	12537.0	12582.9	12907.3	13375.6	13776.6	13941.9	13798.0	13547.0	12901.2	12148.2	11872.8
47.5°	12815.5	12876.7	13204.2	13669.5	14122.5	14217.3	14045.9	13810.3	13060.4	12313.5	11943.2
50°	12665.5	12745.1	13115.5	13547.0	14058.2	14254.1	14131.6	13896.0	13228.7	12475.7	12068.7
52.5°	12276.8	12353.3	12821.6	13345.0	13923.5	14312.2	14309.2	14116.3	13421.5	12521.7	12074.8
55°	10948.4	11098.4	11826.9	12729.8	13758.2	14483.6	14557.1	14352.0	13452.1	12533.9	12139.1
57.5°	7125.5	7388.7	8080.5	9255.8	11318.8	13173.6	13669.5	13718.4	13231.8	12481.9	12151.3
60°	2975.1	3186.3	3734.2	4514.7	6219.5	8426.3	9387.4	10351.6	11514.7	11937.1	12038.1
62.5°	1848.7	1867.1	1922.2	2099.7	2669.0	3746.4	4364.7	5267.6	6996.9	8469.2	9148.7
65°	1668.1	1677.3	1689.6	1677.3	1704.9	1836.5	2001.8	2317.0	3021.0	3752.5	4621.8
67.5°	1469.2	1481.4	1490.6	1481.4	1490.6	1496.7	1515.1	1542.6	1671.2	1775.3	1854.8
70°	1187.6	1205.9	1221.3	1215.1	1251.9	1251.9	1270.2	1291.7	1355.9	1432.4	1487.5
72.5°	906.0	890.7	909.1	915.2	948.8	967.2	994.8	1019.2	1092.7	1138.6	1209.0
75°	587.7	572.4	599.9	615.2	661.1	685.6	710.1	734.6	786.6	817.2	884.6
77.5°	318.3	315.3	342.8	364.2	413.2	443.8	462.2	480.5	523.4	532.6	575.4
80°	183.6	183.6	202.0	217.3	247.9	281.6	300.0	315.3	345.9	355.1	373.4
82.5°	101.0	101.0	110.2	119.4	143.9	162.2	177.5	189.8	217.3	226.5	235.7
85°	49.0	45.9	52.0	58.2	67.3	76.5	85.7	91.8	113.2	119.4	131.6
87.5°	6.1	6.1	6.1	9.2	12.2	18.4	21.4	21.4	33.7	39.8	45.9
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°	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8	6234.8
2.5°	6296.0	6256.2	6280.7	6289.9	6289.9	6280.7	6240.9	6228.7	6210.3	6182.8	6182.8
5°	6436.8	6406.2	6412.3	6397.0	6360.3	6314.4	6240.9	6204.2	6173.6	6139.9	6136.9
7.5°	6678.6	6638.8	6632.7	6574.6	6476.6	6378.7	6268.5	6201.1	6155.2	6112.4	6109.3
10°	6993.9	6957.2	6911.2	6794.9	6651.1	6507.2	6357.2	6265.4	6198.1	6136.9	6133.8
12.5°	7345.9	7303.0	7217.3	7045.9	6865.3	6724.5	6553.1	6412.3	6311.3	6228.7	6213.4
15°	7728.5	7667.3	7520.3	7318.3	7140.8	6990.8	6807.2	6605.2	6452.1	6320.5	6305.2
17.5°	8022.3	7942.7	7783.6	7593.8	7446.9	7296.9	7058.2	6804.1	6583.7	6418.5	6394.0
20°	8224.3	8160.0	7979.5	7838.7	7753.0	7621.3	7342.8	7055.1	6807.2	6599.0	6586.8
22.5°	8411.0	8334.5	8157.0	8074.3	8074.3	7985.6	7719.3	7379.5	7088.8	6847.0	6816.4
25°	8622.2	8539.6	8404.9	8395.7	8438.6	8398.8	8077.4	7713.2	7373.4	7101.0	7052.0
27.5°	8916.1	8824.2	8744.7	8799.7	8861.0	8818.1	8460.0	8037.6	7679.5	7404.0	7361.2
30°	9384.4	9271.1	9197.7	9265.0	9384.4	9258.9	8870.1	8423.3	8062.1	7759.1	7737.7
32.5°	9929.2	9800.6	9724.1	9831.2	9938.4	9742.5	9356.8	8928.3	8548.8	8230.4	8193.7
35°	10584.2	10422.0	10308.7	10452.6	10562.8	10369.9	9987.3	9580.2	9157.9	8827.3	8778.3
37.5°	11165.7	10969.8	10893.3	11095.3	11242.3	11116.8	10700.5	10317.9	9855.7	9494.5	9473.1
40°	11588.1	11395.3	11340.2	11673.8	11930.9	11900.3	11526.9	11089.2	10654.6	10238.3	10198.5
42.5°	11771.8	11637.1	11649.3	12099.3	12497.2	12693.1	12359.4	11891.1	11471.8	11040.2	11012.7
45°	11811.6	11728.9	11826.9	12390.0	12913.4	13314.4	13029.8	12638.0	12163.5	11747.3	11735.0
47.5°	11854.4	11808.5	11958.5	12555.3	13176.7	13641.9	13482.7	13078.7	12598.2	12191.1	12160.5
50°	11955.4	11937.1	12105.4	12671.6	13302.2	13730.7	13550.1	13149.1	12656.3	12255.4	12181.9
52.5°	11986.0	11955.4	12197.2	12852.2	13510.3	13727.6	13338.9	12815.5	12319.6	11872.8	11796.3
55°	12080.9	12025.8	12191.1	12919.6	13798.0	13905.1	13326.6	12543.1	11851.3	11242.3	11061.7
57.5°	12105.4	12044.2	12151.3	12809.4	13485.8	13390.9	11713.6	10122.0	8818.1	8141.7	8218.2
60°	11973.8	11992.1	11808.5	11735.0	10816.8	9549.6	7171.4	5732.8	4502.4	3982.1	4095.3
62.5°	9115.0	9191.5	8564.1	7446.9	5726.7	4539.1	3002.6	2332.3	1974.2	1882.4	1897.7
65°	4600.4	4704.4	4052.5	3351.6	2491.5	2014.0	1741.6	1686.5	1668.1	1646.7	1646.7
67.5°	1821.2	1851.8	1827.3	1711.0	1591.6	1548.8	1536.5	1530.4	1509.0	1496.7	1499.8
70°	1463.1	1487.5	1450.8	1377.4	1328.4	1325.3	1319.2	1307.0	1291.7	1291.7	1300.8
72.5°	1193.7	1218.2	1166.2	1120.2	1083.5	1056.0	1040.7	1031.5	1010.1	1010.1	1019.2
75°	878.4	893.7	850.9	844.8	805.0	777.4	753.0	740.7	713.2	700.9	710.1
77.5°	584.6	581.5	560.1	560.1	544.8	511.2	483.6	456.1	419.3	394.8	401.0
80°	379.5	379.5	370.4	370.4	355.1	327.5	293.8	266.3	244.9	226.5	226.5
82.5°	241.8	238.7	235.7	232.6	226.5	199.0	174.5	156.1	140.8	128.6	131.6
85°	134.7	134.7	128.6	128.6	116.3	101.0	88.8	76.5	67.3	64.3	64.3
87.5°	45.9	45.9	42.9	42.9	36.7	27.5	21.4	18.4	15.3	12.2	15.3
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)