

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: P638802

Luminaire Tested: GWS-SA4F-750-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638802  
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-SA4F-750-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

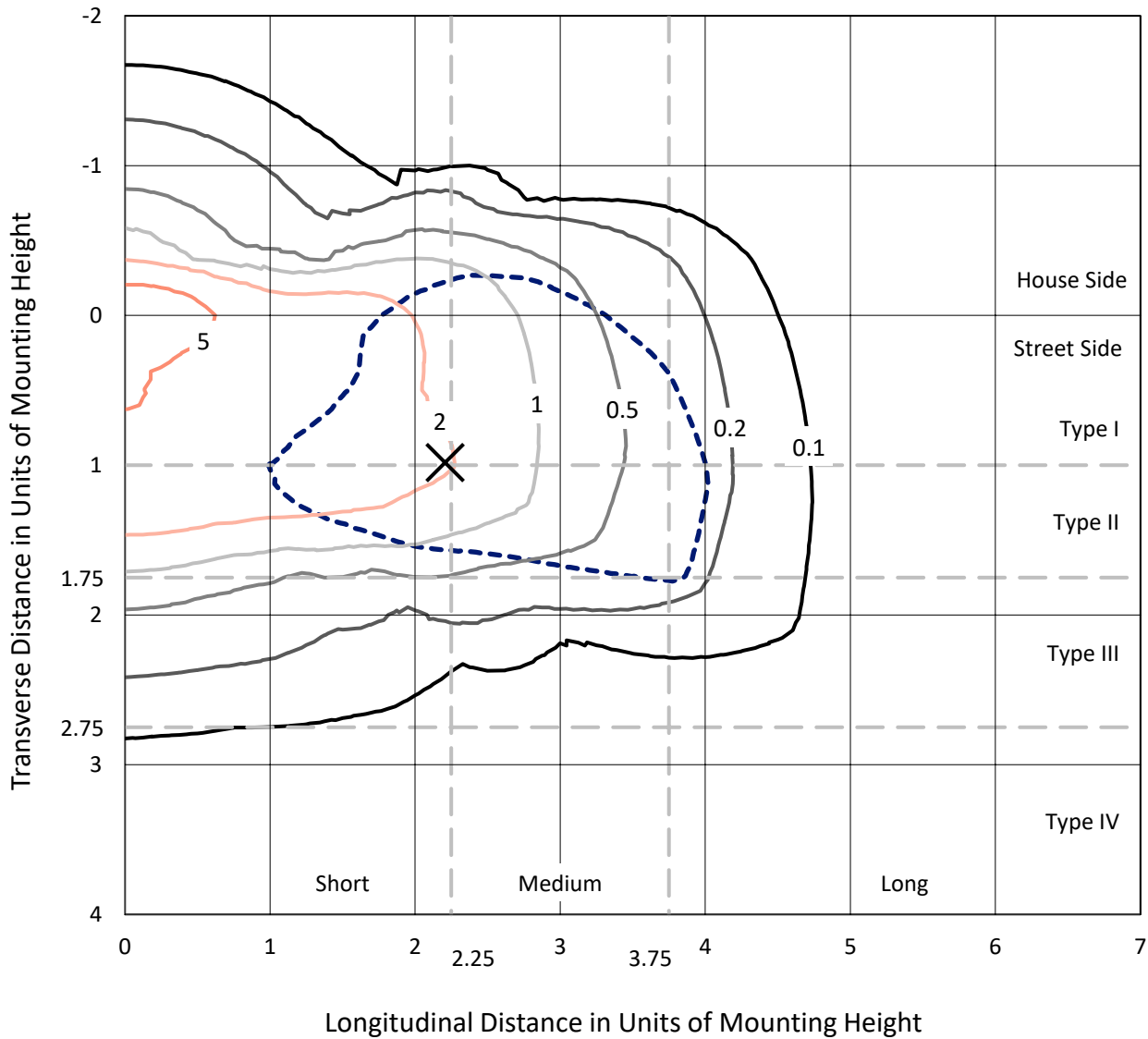
Lumens per Lamp: N/A  
Luminaire Lumens: 34201.7 lumens  
Efficiency: N/A  
Efficacy: 151.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

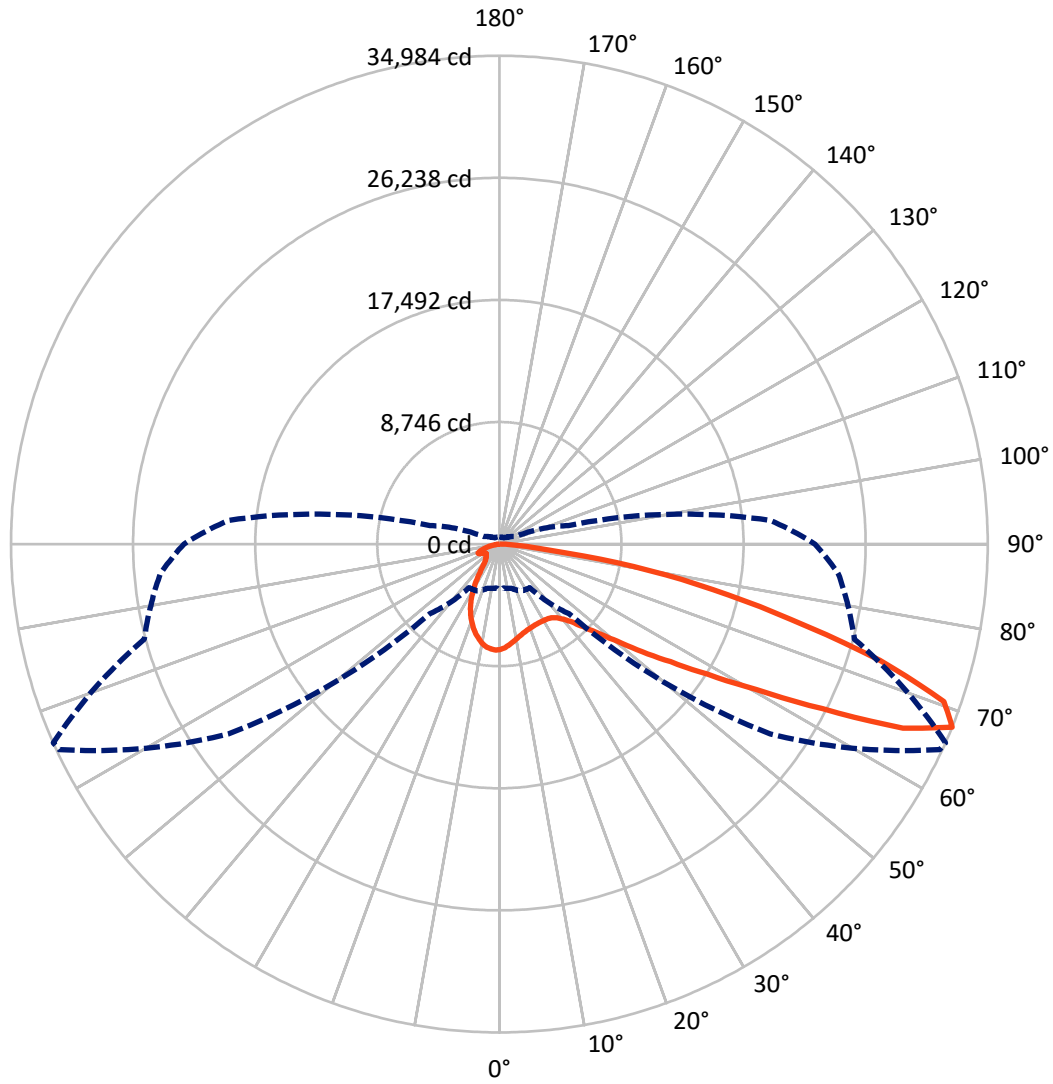
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 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
<b>House Side</b>	Lumens	6940.3	0.0	6940.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	27261.4	0.0	27261.4
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	34201.7	0.0	34201.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	663.3	1.9
10°-20°	1630.1	4.8
20°-30°	2240.6	6.6
30°-40°	3063.3	9.0
40°-50°	4641.6	13.6
50°-60°	7215.6	21.1
60°-70°	8784.8	25.7
70°-80°	5351.3	15.6
80°-90°	611.3	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°	34201.7	100.0
0°-180°	34201.7	100.0

**Coefficient of Utilization**



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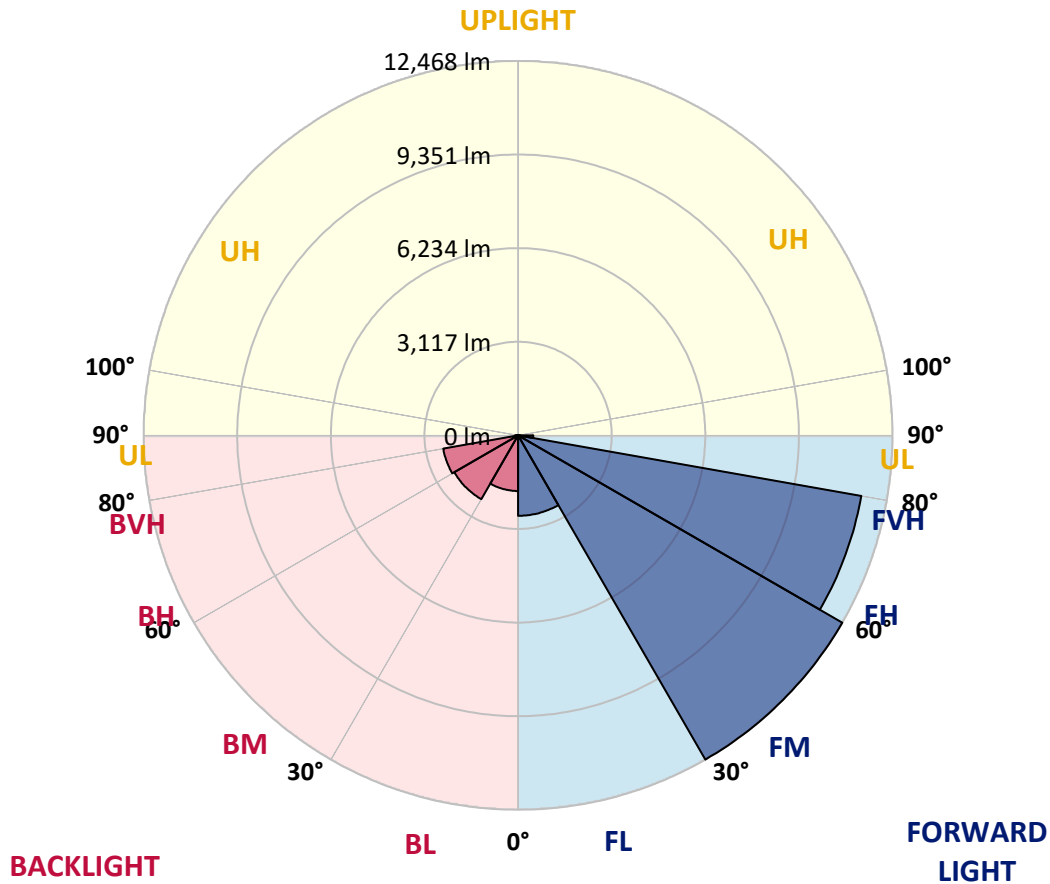
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2679.9	7.8			
FM (30°-60°)	12467.8	36.5			
FH (60°-80°)	11605.5	33.9			G4/12000
FVH (80°-90°)	508.2	1.5			G4/750
BL (0°-30°)	1854.1	5.4	B3/2500		
BM (30°-60°)	2452.6	7.2	B2/2500		
BH (60°-80°)	2530.6	7.4	B4/5000		G4/5000
BVH (80°-90°)	103.1	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-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6
2.5°	7078.5	7103.5	7088.5	7183.3	7188.3	7308.1	7375.5	7432.9	7437.8	7512.7	7562.6
5°	6594.5	6609.5	6609.5	6699.3	6759.2	6918.9	7073.6	7238.2	7250.7	7430.4	7567.6
7.5°	6202.8	6217.7	6207.8	6327.5	6404.9	6582.0	6779.1	7031.1	7056.1	7345.5	7585.1
10°	5895.9	5890.9	5915.8	6025.6	6125.4	6337.5	6557.1	6844.0	6881.4	7248.2	7605.0
12.5°	5686.3	5691.3	5706.3	5821.0	5928.3	6137.9	6365.0	6676.8	6716.8	7135.9	7595.0
15°	5586.5	5576.5	5589.0	5693.8	5796.1	5980.7	6215.3	6537.1	6577.0	7036.1	7597.5
17.5°	5564.0	5556.5	5554.1	5628.9	5706.3	5878.4	6103.0	6429.8	6472.2	6971.3	7612.5
20°	5633.9	5623.9	5596.5	5628.9	5661.3	5806.1	6023.1	6352.5	6399.9	6928.8	7642.4
22.5°	5826.0	5808.6	5766.1	5726.2	5683.8	5771.1	5973.2	6295.1	6342.5	6901.4	7672.4
25°	6117.9	6103.0	6058.1	5968.2	5813.5	5798.6	5963.2	6270.1	6317.5	6881.4	7684.9
27.5°	6519.7	6497.2	6452.3	6322.5	6070.5	5900.9	6000.7	6267.6	6312.6	6859.0	7672.4
30°	6996.2	6981.2	6956.3	6799.1	6462.3	6117.9	6085.5	6287.6	6322.5	6846.5	7647.4
32.5°	7480.3	7465.3	7485.2	7410.4	6996.2	6477.2	6270.1	6342.5	6367.5	6844.0	7625.0
35°	7906.9	7924.4	8069.1	8081.6	7674.9	6963.8	6562.1	6469.7	6474.7	6893.9	7635.0
37.5°	8353.5	8420.9	8610.5	8772.7	8433.4	7607.5	6996.2	6709.3	6704.3	7021.2	7697.3
40°	8944.9	8974.8	9216.8	9521.2	9309.2	8490.8	7612.5	7101.0	7066.1	7280.7	7864.5
42.5°	9521.2	9593.6	9980.3	10329.6	10259.8	9486.3	8388.5	7687.3	7625.0	7739.7	8208.8
45°	10254.8	10324.7	10758.8	11207.9	11335.2	10611.6	9381.5	8520.7	8458.3	8430.9	8840.1
47.5°	10988.3	11060.7	11449.9	12098.7	12545.3	12018.8	10674.0	9621.0	9518.7	9411.5	9793.2
50°	11482.4	11567.2	11939.0	12717.4	13765.4	13775.4	12205.9	11063.2	10933.5	10763.8	11135.6
52.5°	11464.9	11519.8	11874.1	12772.3	14643.6	15793.9	14256.9	12899.6	12794.8	12425.5	12749.9
55°	10564.2	10646.5	11003.3	12126.1	14738.5	17707.6	17271.0	15065.3	14878.2	14217.0	14573.8
57.5°	8755.2	8825.1	9184.4	10569.2	13897.6	18688.2	21098.4	17824.9	17567.9	16168.1	16579.8
60°	6609.5	6524.6	6694.3	7906.9	11886.6	18713.1	24476.8	21567.5	21138.3	18254.0	18598.3
62.5°	4960.2	4875.4	4912.8	5254.6	8059.1	17201.1	26403.0	26687.4	25978.8	20609.4	20542.0
65°	3919.8	3872.4	3979.7	4214.2	4698.2	13099.2	26417.9	32224.0	31777.4	23339.0	22535.6
67.5°	3193.7	3163.8	3273.5	3707.7	3810.0	7038.6	23688.3	34808.9	34983.6	26328.1	24384.4
70°	2572.4	2527.5	2699.7	3271.1	3543.0	4259.1	16969.1	33491.5	33773.4	28109.6	23863.0
72.5°	1776.5	1779.0	1866.3	2649.8	3420.8	3677.8	9598.6	27887.5	28498.8	26495.3	20978.7
75°	1197.6	1207.6	1232.6	1749.1	3151.3	3568.0	5114.9	21113.4	21545.0	21899.3	17340.8
77.5°	723.6	728.6	786.0	1057.9	2173.2	3330.9	3465.7	15304.8	15644.2	14436.5	10748.8
80°	419.2	436.6	489.0	708.6	1467.1	2502.6	2682.2	9384.0	9768.2	6417.4	3415.8
82.5°	184.6	197.1	267.0	411.7	855.8	2128.3	2093.4	3707.7	3652.8	1789.0	1185.2
85°	32.4	39.9	57.4	129.7	314.4	1122.8	1624.3	1636.8	1539.5	678.7	491.5
87.5°	0.0	0.0	0.0	0.0	0.0	7.5	244.5	439.1	436.6	192.1	169.7
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°	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6	7557.6
2.5°	7595.0	7527.7	7587.5	7595.0	7582.6	7572.6	7497.7	7432.9	7425.4	7355.5	7355.5
5°	7622.5	7560.1	7590.0	7532.7	7442.8	7350.5	7190.8	7081.0	7031.1	6941.3	6941.3
7.5°	7659.9	7595.0	7560.1	7417.9	7208.3	7006.2	6749.2	6534.6	6447.3	6320.0	6315.1
10°	7694.8	7612.5	7492.7	7215.8	6881.4	6559.6	6185.3	5880.9	5673.8	5521.6	5521.6
12.5°	7692.3	7585.1	7348.0	6938.8	6477.2	6010.7	5511.6	5052.5	4778.1	4541.1	4526.1
15°	7687.3	7540.1	7163.4	6617.0	6005.7	5359.4	4680.8	4082.0	3675.3	3443.2	3423.3
17.5°	7682.4	7482.8	6956.3	6250.2	5431.8	4551.0	3655.3	3006.6	2667.2	2525.0	2530.0
20°	7682.4	7417.9	6734.2	5828.5	4770.6	3582.9	2682.2	2210.6	2125.8	2133.3	2140.8
22.5°	7659.9	7338.0	6487.2	5369.4	4034.5	2634.8	1978.6	1818.9	1863.8	1933.7	1943.7
25°	7607.5	7205.8	6200.3	4860.4	3158.8	1918.7	1614.3	1584.4	1666.7	1754.0	1779.0
27.5°	7525.2	7053.6	5878.4	4264.1	2325.4	1542.0	1419.7	1417.2	1482.1	1547.0	1569.4
30°	7437.8	6883.9	5539.1	3600.4	1684.2	1342.4	1294.9	1294.9	1327.4	1367.3	1362.3
32.5°	7335.5	6711.8	5174.8	2909.3	1372.3	1230.1	1215.1	1207.6	1212.6	1227.6	1227.6
35°	7248.2	6559.6	4800.5	2178.2	1230.1	1167.7	1152.7	1135.3	1127.8	1117.8	1122.8
37.5°	7215.8	6439.8	4413.8	1641.8	1160.2	1122.8	1097.8	1072.9	1055.4	1050.4	1047.9
40°	7268.2	6389.9	4027.1	1352.3	1110.3	1075.4	1047.9	1015.5	1000.5	1000.5	1000.5
42.5°	7472.8	6427.3	3632.8	1222.6	1075.4	1035.5	995.5	965.6	960.6	965.6	968.1
45°	7847.0	6572.0	3223.6	1157.7	1045.4	995.5	948.1	925.7	925.7	930.7	930.7
47.5°	8515.7	6951.3	2819.4	1117.8	1015.5	963.1	913.2	890.7	888.2	893.2	893.2
50°	9673.4	7635.0	2455.2	1090.4	993.0	938.2	888.2	858.3	850.8	848.3	848.3
52.5°	11133.1	8820.1	2223.1	1070.4	965.6	910.7	860.8	820.9	805.9	798.4	798.4
55°	12897.1	10399.5	2223.1	1055.4	930.7	878.3	820.9	781.0	758.5	748.5	748.5
57.5°	14895.6	12238.4	2607.4	1042.9	903.2	840.8	778.5	738.5	713.6	698.6	698.6
60°	16929.1	14182.0	3558.0	1025.5	878.3	793.4	731.1	693.6	661.2	643.7	641.2
62.5°	19037.5	16322.8	4810.5	1035.5	860.8	748.5	681.2	638.7	611.3	593.8	591.3
65°	20968.7	18361.3	5905.9	1112.8	863.3	708.6	623.8	586.3	563.9	541.4	538.9
67.5°	22607.9	19486.6	5137.4	1270.0	915.7	661.2	566.4	529.0	509.0	494.0	491.5
70°	21460.2	17770.0	2914.3	1367.3	988.1	611.3	501.5	476.6	456.6	446.6	444.1
72.5°	18351.3	15045.3	1948.7	1207.6	900.7	546.4	441.6	421.7	406.7	394.2	391.7
75°	14865.7	11931.5	1489.6	990.5	701.1	444.1	379.3	364.3	349.3	336.8	334.3
77.5°	8795.2	6893.9	1097.8	783.5	494.0	346.8	314.4	301.9	286.9	277.0	274.5
80°	2807.0	2395.3	696.1	538.9	326.9	267.0	242.0	232.0	217.1	204.6	202.1
82.5°	1070.4	925.7	369.3	274.5	217.1	182.1	162.2	152.2	142.2	129.7	127.2
85°	474.1	444.1	204.6	147.2	117.3	89.8	79.8	74.9	62.4	52.4	49.9
87.5°	167.2	167.2	87.3	42.4	25.0	12.5	7.5	2.5	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)