

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: P641241

Luminaire Tested: GWS-SA5F-740-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-740-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

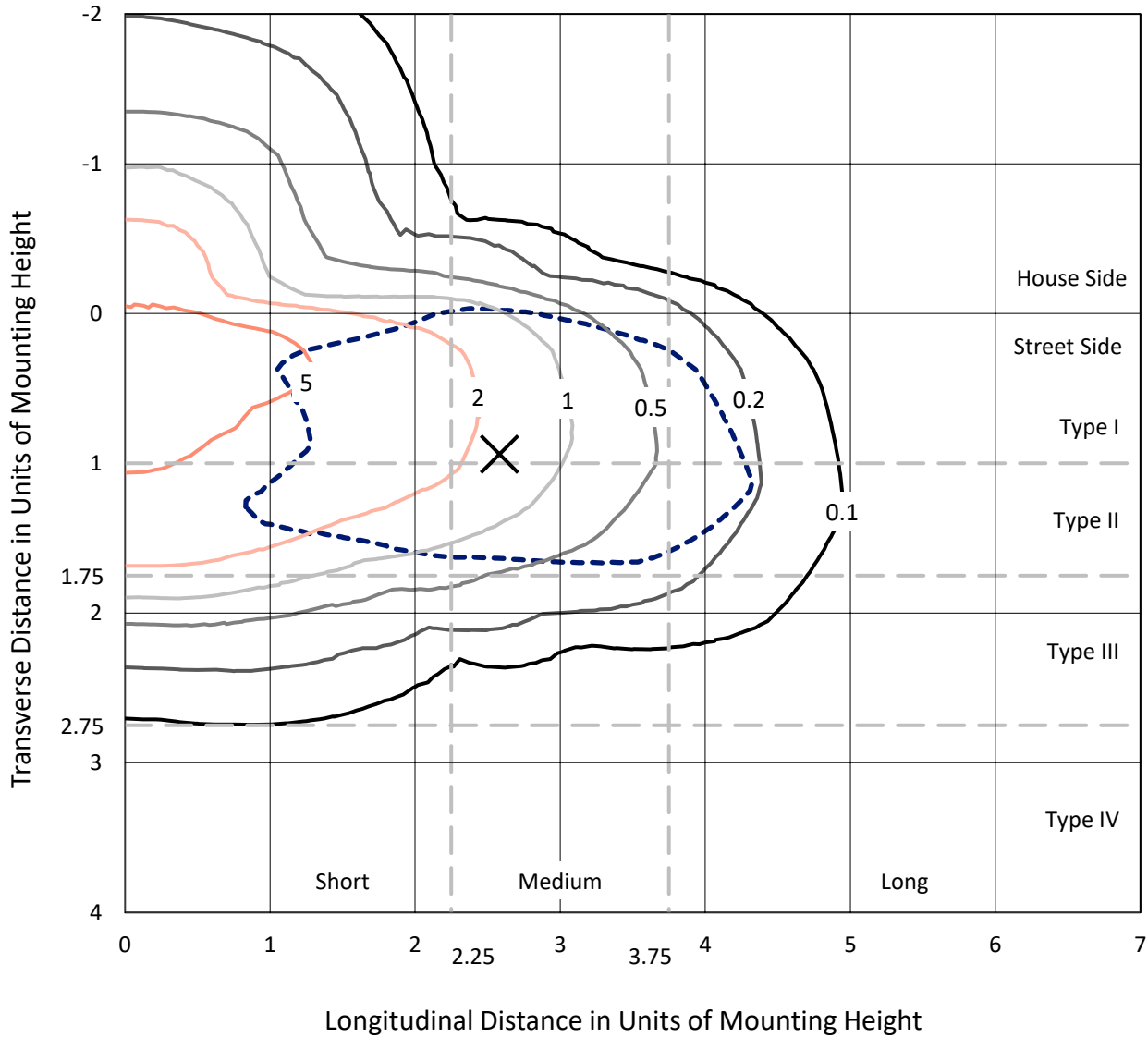
Lumens per Lamp: N/A  
Luminaire Lumens: 41410.7 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

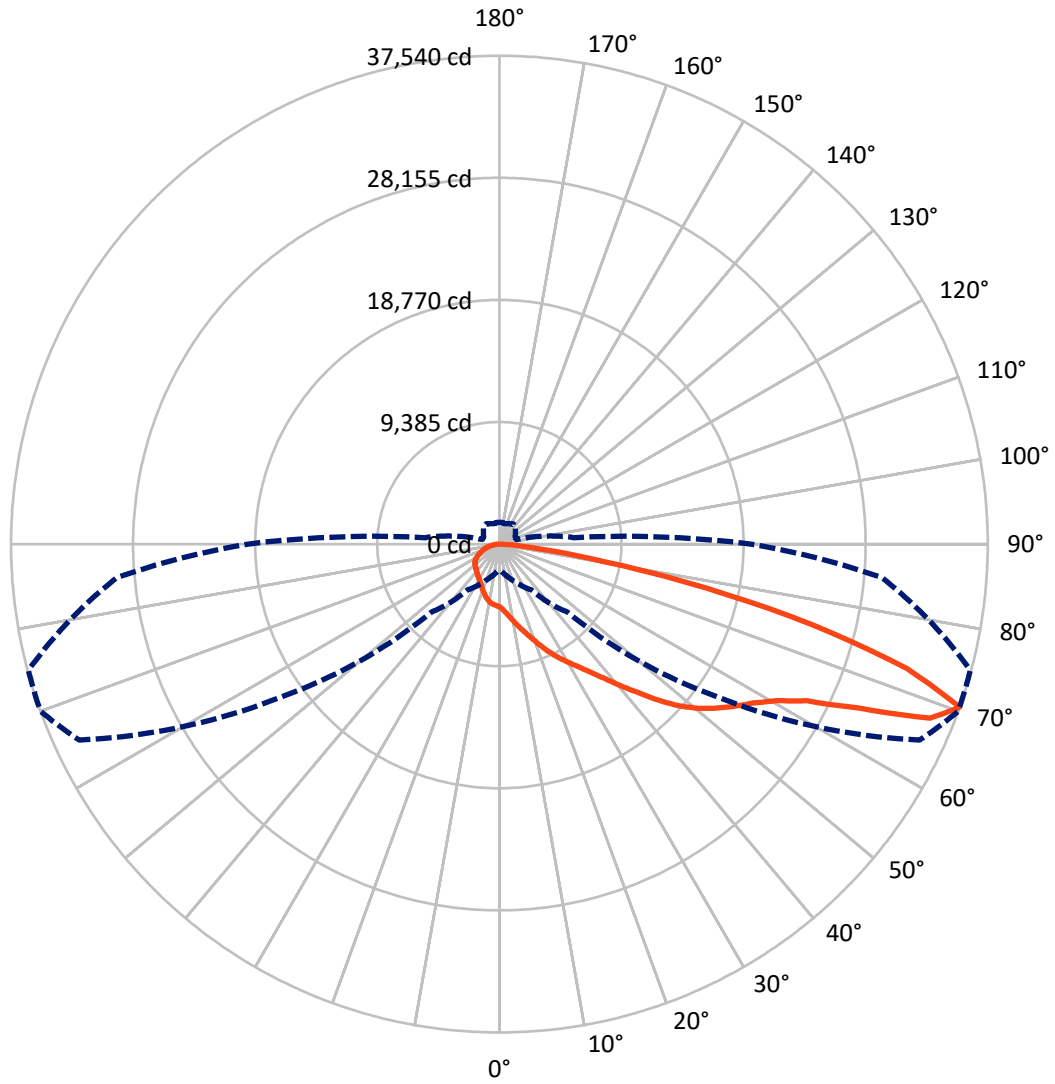
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7420.9	0.0	7420.9
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	33989.8	0.0	33989.8
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	41410.7	0.0	41410.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	490.8	1.2
10°-20°	1596.7	3.9
20°-30°	2828.7	6.8
30°-40°	4257.2	10.3
40°-50°	6440.6	15.6
50°-60°	9226.6	22.3
60°-70°	10198.9	24.6
70°-80°	5755.5	13.9
80°-90°	615.6	1.5
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°	41410.7	100.0
0°-180°	41410.7	100.0

**Coefficient of Utilization**



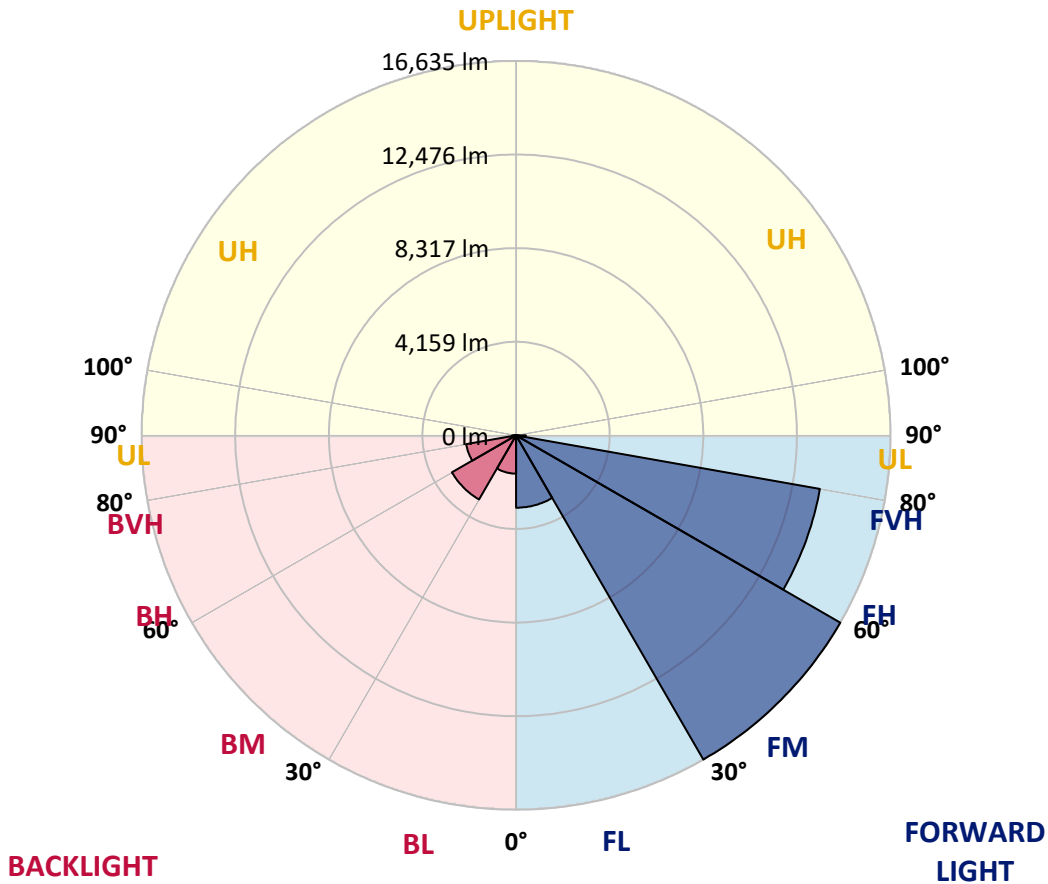
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3214.7	7.8			
FM (30°-60°)	16634.6	40.2			
FH (60°-80°)	13705.2	33.1			G5
FVH (80°-90°)	435.2	1.1			G3/500
BL (0°-30°)	1701.5	4.1	B3/2500		
BM (30°-60°)	3289.7	7.9	B3/5000		
BH (60°-80°)	2249.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	180.4	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3
2.5°	5350.0	5341.0	5347.0	5341.0	5308.1	5227.3	5161.5	5077.7	5020.8	4987.9	4910.1
5°	5978.3	5969.4	5948.4	5918.5	5858.6	5747.9	5583.4	5400.8	5290.1	5206.4	5041.8
7.5°	6430.2	6430.2	6427.2	6391.3	6349.4	6232.7	6038.2	5798.8	5637.2	5493.6	5224.3
10°	6660.5	6675.5	6696.5	6747.3	6738.3	6675.5	6493.0	6235.7	6032.2	5864.6	5463.7
12.5°	6786.2	6795.2	6831.1	6935.8	7043.5	7058.5	6950.8	6681.5	6460.1	6235.7	5730.0
15°	6947.8	6950.8	6998.7	7124.3	7282.9	7441.5	7414.6	7145.3	6917.9	6669.5	6026.2
17.5°	7073.5	7094.4	7181.2	7327.8	7525.3	7743.7	7875.4	7707.8	7426.5	7142.3	6349.4
20°	7118.3	7133.3	7247.0	7471.4	7740.7	8048.9	8342.1	8297.3	8013.0	7677.9	6714.4
22.5°	7279.9	7279.9	7363.7	7552.2	7869.4	8318.2	8794.0	8910.7	8659.3	8267.3	7106.4
25°	7636.0	7624.0	7662.9	7740.7	7980.1	8533.6	9239.8	9589.9	9308.6	8868.8	7498.4
27.5°	8123.7	8117.7	8114.7	8126.7	8207.5	8722.1	9616.8	10224.2	9942.9	9446.2	7848.4
30°	8653.3	8635.4	8674.3	8638.4	8620.4	8946.6	9937.0	10792.7	10574.3	10017.7	8138.7
32.5°	9374.4	9341.5	9332.5	9215.9	9144.0	9296.6	10194.3	11439.0	11265.5	10634.1	8464.8
35°	10325.9	10296.0	10143.4	9957.9	9745.5	9817.3	10514.4	12070.4	12082.3	11406.1	8892.7
37.5°	11286.4	11292.4	11172.7	10735.9	10517.4	10475.5	11002.2	12839.4	13096.7	12327.7	9446.2
40°	12085.3	12121.2	12121.2	11660.4	11334.3	11295.4	11687.4	13752.0	14263.6	13458.7	10146.4
42.5°	12692.7	12725.7	12830.4	12498.2	12154.2	12288.8	12519.2	14667.6	15586.2	14856.1	11032.1
45°	13360.0	13386.9	13443.8	13252.3	13051.8	13410.9	13461.7	15762.7	17100.2	16424.0	12061.4
47.5°	14245.7	14221.7	14227.7	14087.1	13931.5	14512.0	14500.0	16684.3	18563.4	18141.5	13177.5
50°	15346.8	15391.7	15349.8	15071.5	14889.0	15418.6	15487.4	17704.6	19850.0	19841.0	14302.5
52.5°	16406.0	16424.0	16645.4	16657.4	16283.3	16172.6	16352.2	18733.9	20936.1	21396.9	15382.7
55°	16459.9	16528.7	17192.9	17671.7	18276.1	17387.4	17225.9	19715.3	21986.4	22919.9	16504.8
57.5°	15313.9	15424.6	16552.6	17584.9	19266.5	19473.0	18721.9	20984.0	23036.6	24419.0	17803.3
60°	12866.3	13096.7	14628.7	16208.5	18820.7	20972.0	21782.9	22707.5	24416.0	25951.0	19380.2
62.5°	8216.5	8306.2	10454.6	13099.7	16812.9	20825.4	25116.2	25744.5	26516.5	27946.8	21809.8
65°	4114.2	4401.5	5661.2	7818.5	12124.2	18350.9	26800.8	31307.0	30361.4	31363.8	25747.5
67.5°	2791.7	2884.4	3521.8	4697.7	7109.4	13000.9	25756.5	35992.7	35714.4	35879.0	29945.5
70°	2058.6	2118.4	2621.1	3327.3	4299.7	7381.7	20505.3	35639.6	37539.6	37479.8	29505.7
72.5°	1502.1	1532.0	1912.0	2540.3	3186.6	3818.0	12522.2	28790.6	32770.1	34496.6	25804.4
75°	1092.1	1128.0	1328.5	1900.0	2477.5	2381.8	6181.8	20795.5	24990.5	28311.8	21022.9
77.5°	813.9	858.7	951.5	1190.9	1735.5	1705.5	2672.0	13503.6	16163.6	18491.5	12770.5
80°	586.5	595.4	649.3	763.0	1101.1	999.4	1271.7	7040.6	8072.8	8844.8	5005.9
82.5°	356.1	365.0	433.9	469.8	682.2	628.4	661.3	2280.0	3267.4	3467.9	1870.1
85°	104.7	110.7	197.5	215.4	284.3	269.3	266.3	927.6	1107.1	1415.3	736.1
87.5°	0.0	0.0	0.0	0.0	3.0	18.0	32.9	164.6	248.3	344.1	179.5
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°	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3	4829.3
2.5°	4880.2	4811.4	4775.5	4712.7	4667.8	4622.9	4578.0	4536.1	4518.2	4491.2	4497.2
5°	4967.0	4859.3	4751.5	4628.9	4524.1	4437.4	4359.6	4290.8	4260.8	4233.9	4245.9
7.5°	5098.6	4937.1	4730.6	4506.2	4341.6	4221.9	4141.1	4093.3	4078.3	4057.4	4057.4
10°	5266.2	5023.8	4661.8	4341.6	4144.1	4048.4	4012.5	4009.5	4024.5	4027.4	4021.5
12.5°	5451.7	5107.6	4560.1	4147.1	3979.6	3949.7	3976.6	4027.4	4078.3	4105.2	4099.3
15°	5643.2	5161.5	4386.5	3961.6	3859.9	3898.8	3985.6	4087.3	4186.0	4236.9	4233.9
17.5°	5822.7	5173.4	4162.1	3782.1	3755.2	3853.9	4003.5	4162.1	4296.7	4368.6	4371.5
20°	6023.2	5152.5	3931.7	3620.5	3650.4	3812.0	4009.5	4201.0	4359.6	4431.4	4449.3
22.5°	6205.7	5080.7	3707.3	3467.9	3560.7	3761.1	3961.6	4141.1	4281.8	4350.6	4374.5
25°	6370.3	4943.0	3461.9	3339.2	3491.8	3689.3	3841.9	3967.6	4066.3	4108.2	4141.1
27.5°	6460.1	4736.6	3276.4	3237.5	3426.0	3587.6	3671.4	3710.3	3743.2	3731.2	3755.2
30°	6478.0	4479.3	3114.8	3156.7	3327.3	3447.0	3464.9	3426.0	3369.2	3276.4	3297.4
32.5°	6460.1	4183.0	2980.2	3070.0	3216.6	3288.4	3264.4	3162.7	3025.1	2881.4	2890.4
35°	6466.1	3883.8	2869.5	2974.2	3087.9	3126.8	3067.0	2926.3	2779.7	2648.1	2642.1
37.5°	6531.9	3632.5	2776.7	2881.4	2962.2	2968.2	2902.4	2755.8	2681.0	2582.2	2570.3
40°	6714.4	3447.0	2692.9	2788.7	2839.6	2836.6	2761.8	2657.0	2707.9	2675.0	2666.0
42.5°	7013.6	3333.3	2624.1	2690.0	2725.9	2731.8	2672.0	2606.2	2716.9	2675.0	2660.0
45°	7495.4	3327.3	2576.2	2591.2	2648.1	2690.0	2648.1	2573.3	2615.1	2411.7	2372.8
47.5°	8066.9	3429.0	2540.3	2504.4	2603.2	2678.0	2612.2	2492.5	2405.7	2220.2	2193.3
50°	8755.1	3635.5	2507.4	2411.7	2537.4	2633.1	2567.3	2402.7	2271.0	2172.3	2157.3
52.5°	9571.9	3907.8	2465.5	2307.0	2438.6	2609.2	2567.3	2393.7	2220.2	2130.4	2115.5
55°	10427.7	4221.9	2417.7	2181.3	2327.9	2615.1	2588.2	2330.9	2181.3	2133.4	2121.4
57.5°	11489.9	4598.9	2330.9	2034.7	2229.2	2561.3	2504.4	2295.0	2154.4	2115.5	2103.5
60°	12869.3	5158.5	2166.3	1885.1	2115.5	2465.5	2429.6	2235.1	2082.5	2049.6	2040.7
62.5°	15053.6	6107.0	1965.8	1741.4	1980.8	2265.1	2318.9	2121.4	1992.8	1989.8	1986.8
65°	18614.2	7247.0	1729.5	1612.8	1840.2	2100.5	2172.3	2004.7	1900.0	1932.9	1929.9
67.5°	21109.7	7345.8	1535.0	1478.1	1675.6	1921.0	2025.7	1885.1	1771.4	1834.2	1831.2
70°	19335.3	5730.0	1367.4	1337.5	1499.1	1726.5	1867.1	1735.5	1621.8	1681.6	1669.6
72.5°	16307.3	4392.5	1208.8	1190.9	1319.5	1523.0	1663.6	1585.8	1466.2	1466.2	1439.2
75°	13105.7	3623.5	1041.3	1032.3	1119.1	1316.6	1475.1	1343.5	1232.8	1226.8	1208.8
77.5°	7516.3	2375.8	873.7	867.7	894.7	1101.1	1146.0	1119.1	1035.3	996.4	984.4
80°	2995.2	1235.8	688.2	649.3	676.2	807.9	903.6	858.7	786.9	739.1	712.1
82.5°	1161.0	619.4	484.7	424.9	463.8	583.5	655.3	640.3	592.4	484.7	454.8
85°	472.8	302.2	290.2	245.4	269.3	314.2	377.0	326.1	269.3	191.5	182.5
87.5°	125.7	110.7	107.7	65.8	50.9	15.0	3.0	0.0	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)