

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: P641188

Luminaire Tested: GWS-SA5F-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-735-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

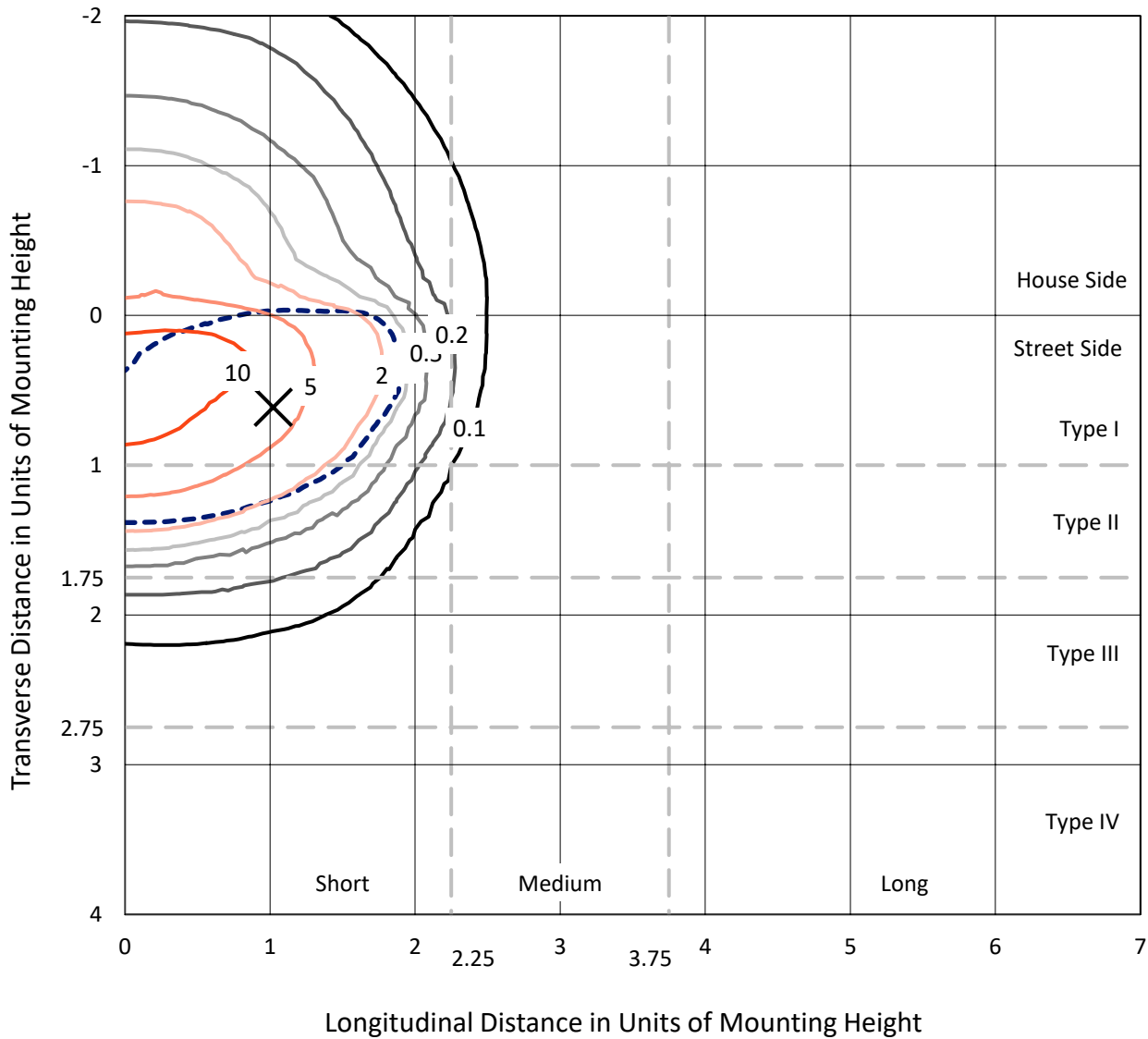
Lumens per Lamp: N/A  
Luminaire Lumens: 36230.6 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

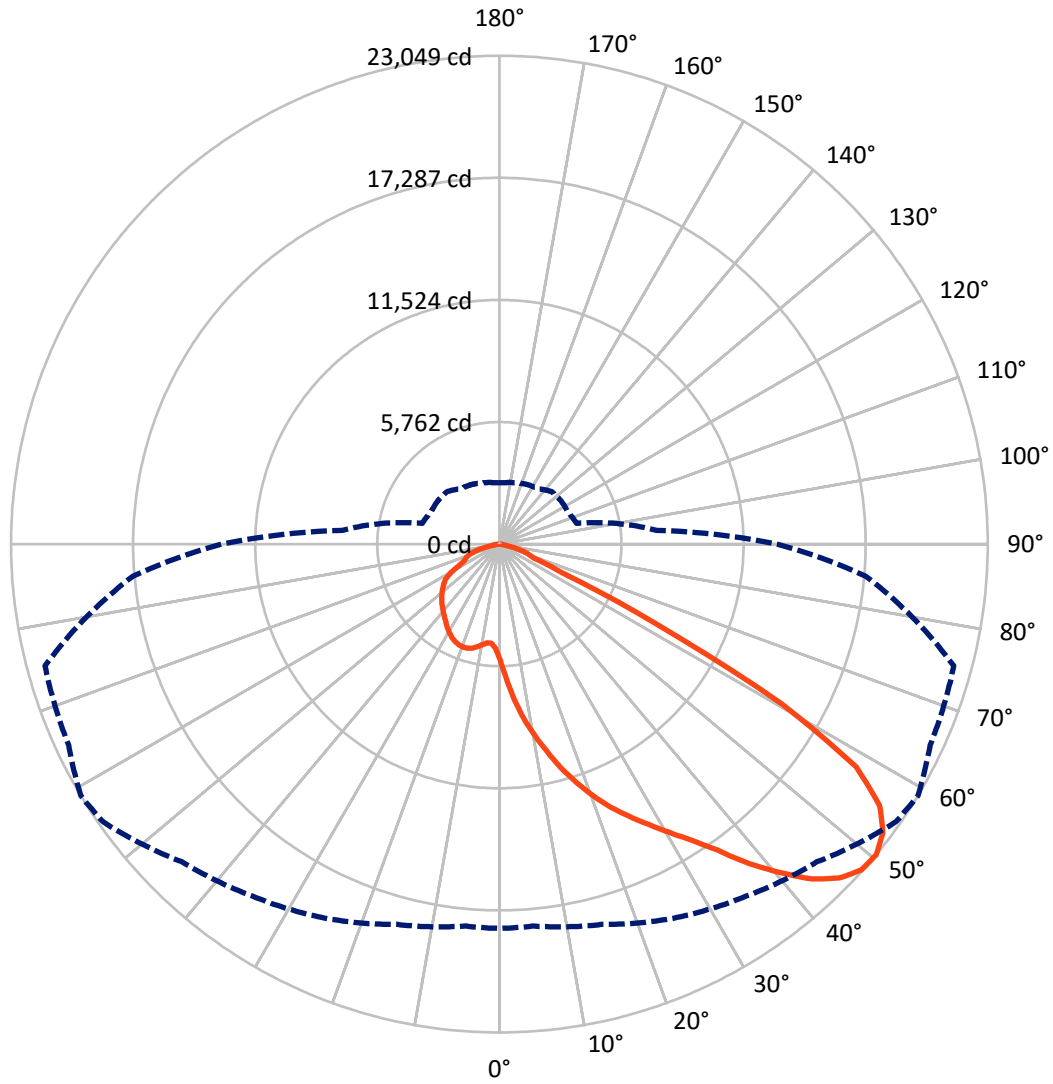
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8333.7	0.0	8333.7
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	27896.9	0.0	27896.9
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	36230.6	0.0	36230.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	615.8	1.7
10°-20°	2235.4	6.2
20°-30°	4233.0	11.7
30°-40°	7019.7	19.4
40°-50°	9589.2	26.5
50°-60°	8704.5	24.0
60°-70°	2898.7	8.0
70°-80°	845.4	2.3
80°-90°	88.8	0.2
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°	36230.6	100.0
0°-180°	36230.6	100.0

**Coefficient of Utilization**



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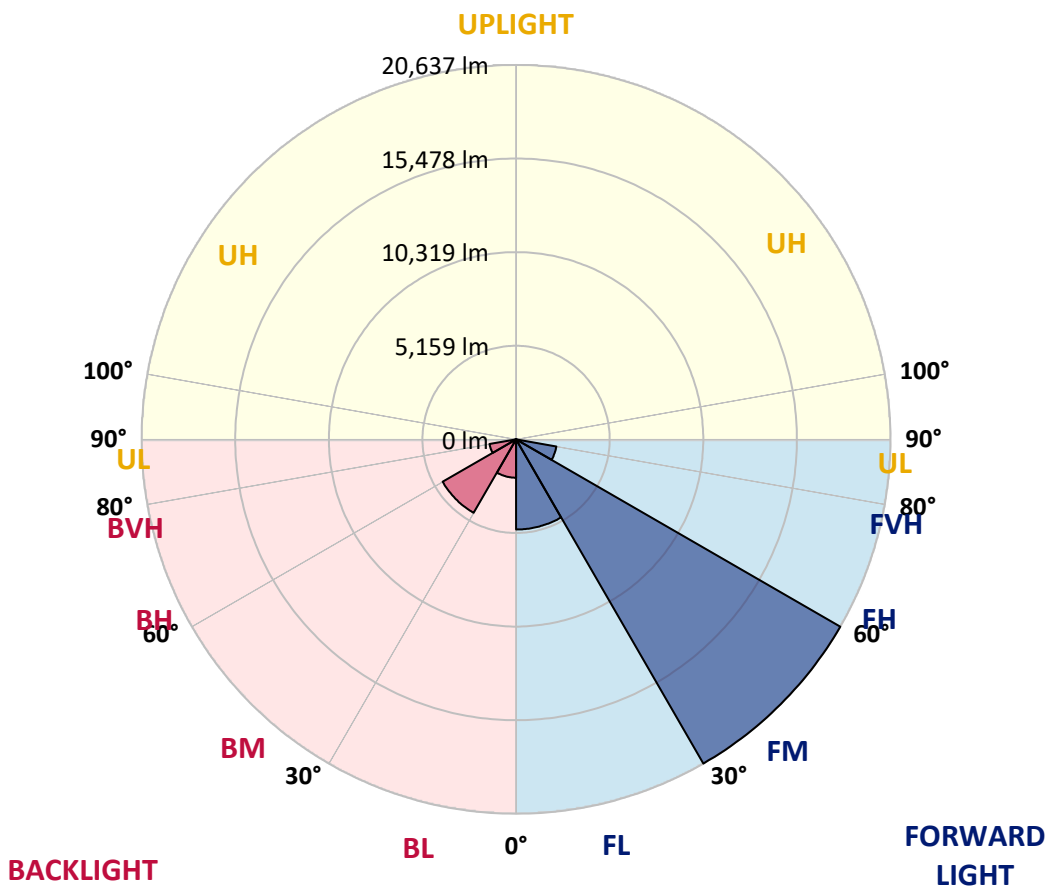
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4968.1	13.7			
FM (30°-60°)	20637.4	57.0			
FH (60°-80°)	2256.7	6.2			G2/5000
FVH (80°-90°)	34.7	0.1			G1/100
BL (0°-30°)	2116.1	5.8	B3/2500		
BM (30°-60°)	4676.0	12.9	B3/5000		
BH (60°-80°)	1487.5	4.1	B3/2500		G3/2500
BVH (80°-90°)	54.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2
2.5°	7112.3	7165.5	7082.8	7088.7	6882.1	6787.7	6522.1	6365.7	6262.4	5973.2	5710.5
5°	8546.6	8484.6	8419.7	8381.3	8201.3	7947.5	7617.0	7354.3	7112.3	6545.7	5999.7
7.5°	9426.1	9393.6	9349.3	9325.7	9148.7	8883.0	8552.5	8328.2	7977.0	7209.7	6350.9
10°	10172.7	10134.3	10107.8	10125.5	9980.9	9809.7	9449.7	9192.9	8797.5	7912.1	6775.9
12.5°	10751.1	10771.8	10780.7	10875.1	10813.1	10709.8	10338.0	10066.5	9626.7	8652.9	7274.7
15°	11208.6	11202.7	11306.0	11486.0	11586.3	11521.4	11223.3	10996.1	10459.0	9381.8	7811.8
17.5°	11314.8	11320.7	11483.0	11798.8	12126.4	12285.8	12117.5	11846.0	11314.8	10101.9	8369.5
20°	11400.4	11412.2	11580.4	11940.5	12418.6	12864.2	12890.7	12696.0	12238.5	10881.0	8936.2
22.5°	11940.5	11967.0	12011.3	12238.5	12669.4	13233.1	13543.0	13501.6	13118.0	11698.5	9547.1
25°	13360.0	13280.3	13064.9	12999.9	13165.2	13622.6	14150.9	14230.6	14041.7	12598.6	10205.2
27.5°	15113.0	15027.4	14708.7	14372.2	14015.1	14174.5	14738.2	14977.2	14980.2	13590.2	10866.2
30°	16703.7	16635.8	16376.1	15895.0	15278.3	15048.1	15464.2	15785.9	15977.7	14735.2	11618.8
32.5°	18064.2	18002.2	17651.0	17258.5	16656.5	16193.1	16343.6	16653.5	17102.1	16216.7	12554.3
35°	19209.2	19147.2	18810.8	18415.4	17857.6	17580.2	17527.0	17739.5	18320.9	17763.1	13628.5
37.5°	20138.8	20076.9	19725.7	19353.8	18928.9	18946.6	19026.2	19129.5	19463.0	19418.8	14776.6
40°	20740.9	20676.0	20425.1	20159.5	19890.9	20103.4	20498.9	20374.9	20552.0	20755.6	15833.1
42.5°	21009.4	20926.8	20782.2	20723.2	20640.5	20971.1	21732.5	21608.5	21396.0	21646.9	16618.1
45°	20740.9	20670.1	20667.1	20847.1	21039.0	21463.9	22585.4	22485.0	21947.9	22077.8	17087.3
47.5°	19917.5	19855.5	20023.7	20495.9	20968.1	21587.9	22966.1	22983.8	22340.4	22257.8	17391.3
50°	18137.9	18096.6	18583.6	19477.8	20292.3	21201.3	22845.1	23048.7	22434.9	22201.7	17352.9
52.5°	14519.8	14711.6	15771.1	17264.4	18846.2	20522.5	22396.5	22662.1	21980.4	21832.8	17146.3
55°	9939.6	10028.1	11087.6	13268.5	15777.0	19052.8	21366.5	21776.7	21443.3	21770.8	17361.8
57.5°	5146.9	5217.7	6052.9	7988.8	10701.0	15056.9	18506.8	19852.6	20360.2	22083.7	18031.7
60°	2113.0	2172.1	2517.4	3452.9	5397.7	8768.0	13318.7	15313.7	16505.9	20168.4	16013.1
62.5°	1534.6	1564.1	1729.4	2059.9	2827.2	4296.9	7537.3	8272.2	9110.3	12639.9	10166.8
65°	1292.6	1325.1	1457.9	1658.6	2062.9	2635.4	3219.7	3237.4	3568.0	5149.8	3768.7
67.5°	1083.1	1112.6	1230.6	1401.8	1667.4	1871.0	1729.4	1732.3	1726.4	1868.1	1806.1
70°	844.0	867.6	985.7	1168.7	1307.4	1201.1	1351.6	1496.2	1434.3	1490.3	1575.9
72.5°	616.8	643.4	746.6	885.4	849.9	855.8	1094.9	1242.4	1207.0	1269.0	1348.7
75°	445.6	463.3	516.5	442.7	466.3	563.7	770.3	849.9	885.4	938.5	1009.3
77.5°	144.6	144.6	162.3	203.6	253.8	312.8	392.5	425.0	478.1	537.1	587.3
80°	73.8	76.7	91.5	112.1	141.7	180.0	230.2	244.9	271.5	304.0	324.6
82.5°	35.4	38.4	44.3	56.1	73.8	94.4	126.9	141.7	159.4	180.0	194.8
85°	8.9	8.9	11.8	17.7	23.6	35.4	47.2	56.1	70.8	85.6	94.4
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	8.9	11.8	14.8	17.7	23.6
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°	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2	5489.2
2.5°	5592.5	5427.2	5214.7	5034.7	4869.4	4742.5	4633.4	4580.2	4530.1	4494.6	4506.4
5°	5745.9	5462.6	5067.2	4792.7	4624.5	4538.9	4479.9	4450.4	4444.5	4420.9	4412.0
7.5°	5970.2	5565.9	5037.7	4760.3	4648.1	4603.8	4571.4	4553.7	4562.5	4538.9	4530.1
10°	6247.6	5737.1	5111.4	4866.5	4769.1	4736.6	4701.2	4677.6	4665.8	4630.4	4624.5
12.5°	6592.9	5949.6	5244.2	5002.2	4904.9	4848.8	4801.6	4760.3	4733.7	4689.4	4677.6
15°	6964.8	6185.7	5400.7	5135.1	5020.0	4937.3	4860.6	4798.6	4751.4	4692.4	4683.5
17.5°	7369.1	6433.6	5530.5	5226.5	5079.0	4969.8	4857.6	4766.2	4701.2	4624.5	4615.6
20°	7791.1	6684.4	5627.9	5270.8	5081.9	4934.4	4783.9	4662.9	4580.2	4503.5	4497.6
22.5°	8227.9	6914.6	5686.9	5259.0	5034.7	4851.7	4671.7	4536.0	4438.6	4347.1	4341.2
25°	8667.6	7135.9	5701.7	5211.8	4940.3	4727.8	4547.8	4388.4	4279.2	4175.9	4164.1
27.5°	9113.2	7321.9	5666.3	5117.3	4813.4	4583.2	4403.2	4246.7	4134.6	4031.3	4013.6
30°	9588.4	7481.2	5589.5	4993.4	4665.8	4429.7	4252.6	4134.6	4028.4	3925.1	3907.4
32.5°	10096.0	7619.9	5480.3	4842.9	4494.6	4276.3	4146.4	4040.2	3933.9	3842.4	3824.7
35°	10701.0	7711.4	5318.0	4648.1	4335.3	4164.1	4075.6	3951.6	3821.8	3721.4	3712.6
37.5°	11326.6	7782.3	5123.2	4462.2	4196.6	4099.2	4025.4	3857.2	3694.9	3573.9	3559.1
40°	11931.6	7841.3	4881.2	4288.1	4069.7	4052.0	3951.6	3742.1	3461.7	3326.0	3314.2
42.5°	12495.3	7859.0	4627.4	4102.1	3954.6	3945.7	3833.6	3509.0	3293.5	3207.9	3196.1
45°	12881.9	7844.2	4364.8	3928.0	3839.5	3792.3	3674.2	3340.7	3207.9	3131.2	3116.4
47.5°	13168.2	7767.5	4069.7	3745.0	3709.6	3644.7	3390.9	3234.5	3110.5	3033.8	3019.1
50°	13118.0	7448.8	3771.6	3568.0	3553.2	3497.1	3184.3	3101.7	2992.5	2909.9	2898.1
52.5°	12858.3	6843.8	3467.6	3373.2	3402.7	3293.5	3036.8	2942.3	2847.9	2753.4	2732.8
55°	12923.2	6407.0	3237.4	3184.3	3237.4	2989.5	2871.5	2771.2	2682.6	2591.1	2573.4
57.5°	13206.5	5976.1	2992.5	2980.7	3036.8	2756.4	2659.0	2532.1	2405.2	2331.4	2331.4
60°	11090.5	4355.9	2561.6	2591.1	2718.0	2567.5	2481.9	2352.1	2213.4	2148.5	2148.5
62.5°	6557.5	2732.8	2124.8	2092.4	2172.1	2266.5	2313.7	2207.5	2042.2	1956.6	1959.6
65°	2889.2	1989.1	1874.0	1847.4	1823.8	1888.8	2018.6	2027.5	1853.3	1753.0	1756.0
67.5°	1779.6	1800.2	1753.0	1732.3	1711.7	1699.9	1688.1	1694.0	1646.8	1555.3	1552.3
70°	1605.4	1661.5	1629.1	1611.3	1584.8	1564.1	1493.3	1378.2	1298.5	1274.9	1301.5
72.5°	1381.2	1457.9	1440.2	1431.3	1398.9	1348.7	1254.3	1142.1	1047.7	988.6	1000.4
75°	1041.8	1103.7	1112.6	1115.5	1080.1	1032.9	935.5	841.1	758.5	696.5	711.2
77.5°	599.1	634.5	643.4	652.2	625.6	607.9	543.0	475.1	430.9	365.9	383.7
80°	333.5	348.2	348.2	351.2	336.4	315.8	271.5	233.1	212.5	183.0	185.9
82.5°	200.7	206.6	209.5	212.5	203.6	183.0	150.5	123.9	112.1	97.4	94.4
85°	97.4	103.3	103.3	106.2	91.5	79.7	62.0	47.2	41.3	29.5	32.5
87.5°	23.6	26.6	26.6	23.6	20.7	14.8	8.9	3.0	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)