

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: P641243

Luminaire Tested: GWS-SA5F-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641243  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

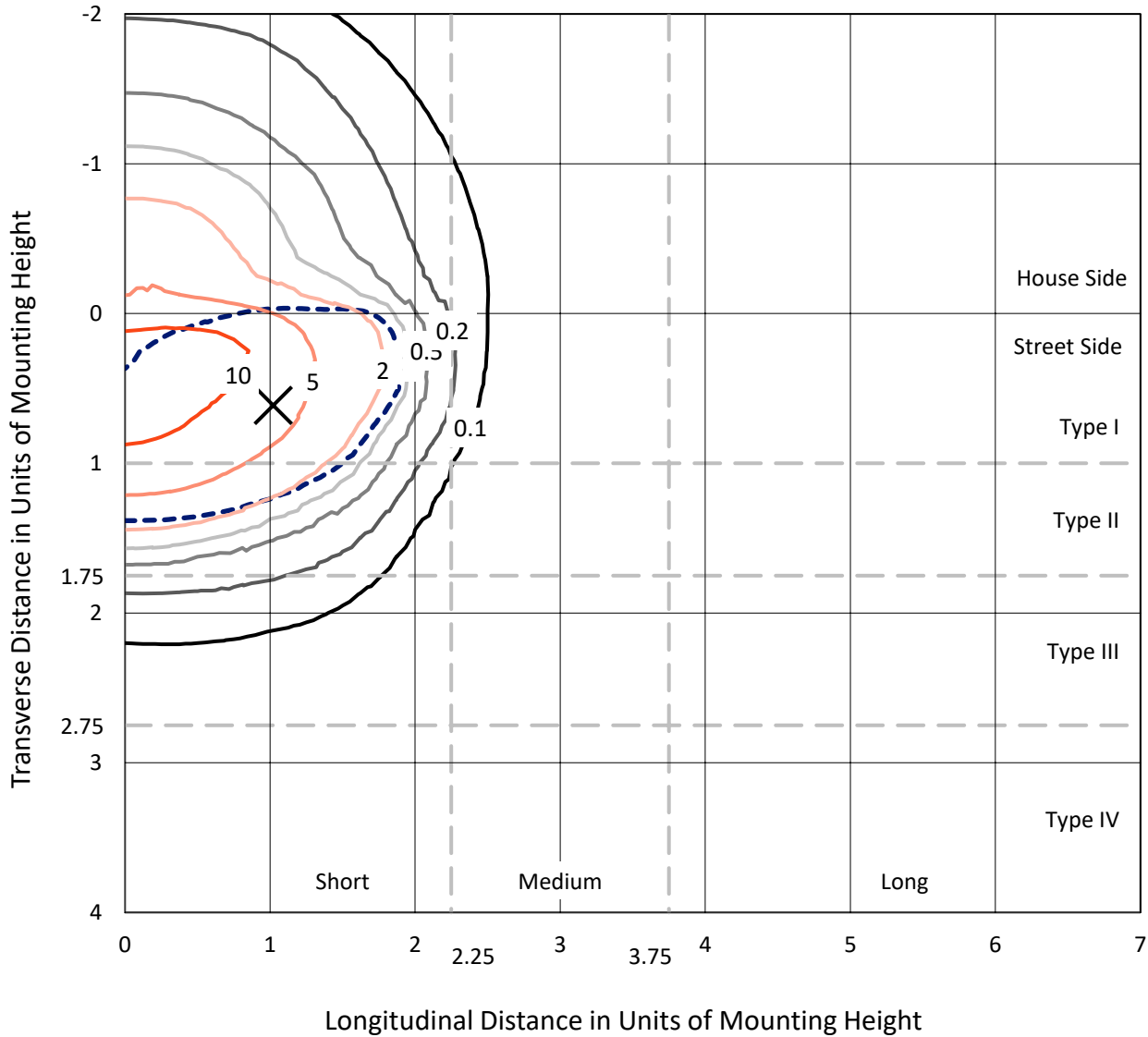
Lumens per Lamp: N/A  
Luminaire Lumens: 36734.1 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

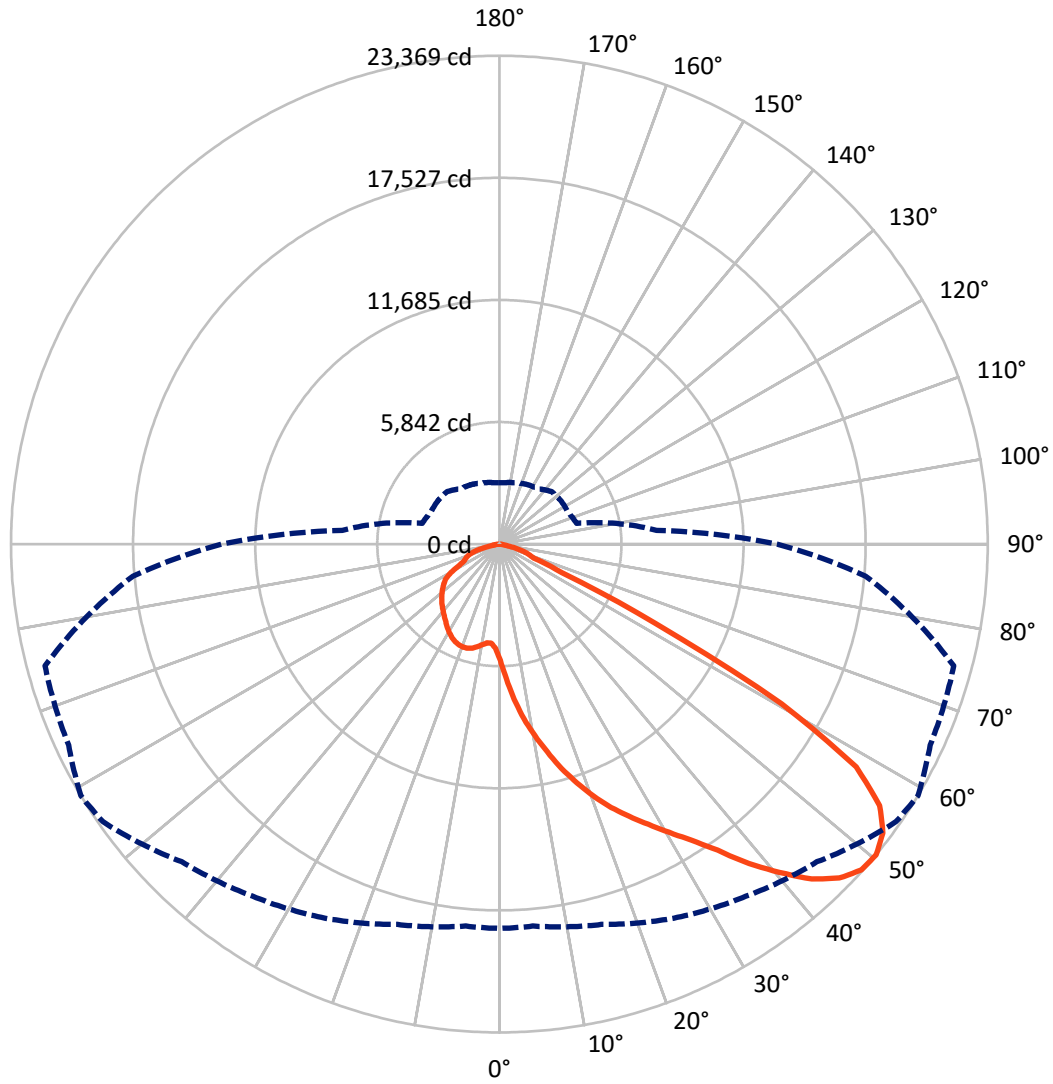
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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	8449.5	0.0	8449.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	28284.6	0.0	28284.6
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	36734.1	0.0	36734.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	624.3	1.7
10°-20°	2266.5	6.2
20°-30°	4291.8	11.7
30°-40°	7117.2	19.4
40°-50°	9722.5	26.5
50°-60°	8825.5	24.0
60°-70°	2939.0	8.0
70°-80°	857.2	2.3
80°-90°	90.0	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°	36734.1	100.0
0°-180°	36734.1	100.0

**Coefficient of Utilization**



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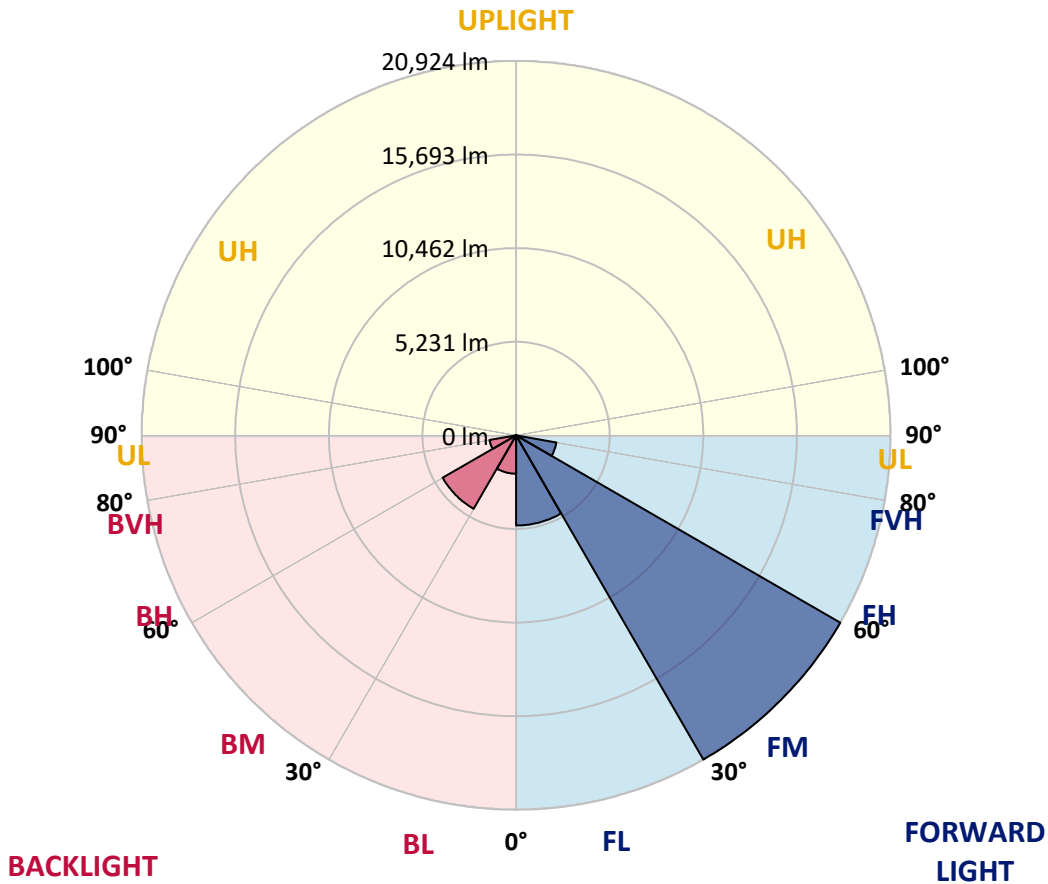
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5037.1	13.7			
FM (30°-60°)	20924.2	57.0			
FH (60°-80°)	2288.0	6.2			G2/5000
FVH (80°-90°)	35.2	0.1			G1/100
BL (0°-30°)	2145.5	5.8	B3/2500		
BM (30°-60°)	4741.0	12.9	B3/5000		
BH (60°-80°)	1508.2	4.1	B3/2500		G3/2500
BVH (80°-90°)	54.8	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°	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5
2.5°	7211.2	7265.0	7181.3	7187.2	6977.8	6882.0	6612.7	6454.2	6349.4	6056.2	5789.9
5°	8665.4	8602.6	8536.7	8497.8	8315.3	8058.0	7722.8	7456.5	7211.2	6636.7	6083.1
7.5°	9557.1	9524.1	9479.3	9455.3	9275.8	9006.5	8671.4	8444.0	8087.9	7309.9	6439.2
10°	10314.1	10275.2	10248.3	10266.2	10119.6	9946.0	9581.0	9320.7	8919.7	8022.1	6870.1
12.5°	10900.6	10921.5	10930.5	11026.2	10963.4	10858.7	10481.6	10206.4	9760.5	8773.1	7375.8
15°	11364.3	11358.4	11463.1	11645.6	11747.3	11681.5	11379.3	11148.9	10604.3	9512.2	7920.3
17.5°	11472.1	11478.0	11642.6	11962.8	12294.9	12456.5	12285.9	12010.7	11472.1	10242.3	8485.9
20°	11558.8	11570.8	11741.4	12106.4	12591.1	13043.0	13069.9	12872.4	12408.6	11032.2	9060.4
22.5°	12106.4	12133.3	12178.2	12408.6	12845.5	13417.0	13731.2	13689.3	13300.3	11861.0	9679.7
25°	13545.7	13464.9	13246.4	13180.6	13348.2	13812.0	14347.6	14428.3	14236.8	12773.7	10347.0
27.5°	15323.0	15236.2	14913.1	14572.0	14209.9	14371.5	14943.0	15185.4	15188.4	13779.0	11017.2
30°	16935.8	16867.0	16603.7	16115.9	15490.6	15257.2	15679.1	16005.2	16199.7	14940.0	11780.3
32.5°	18315.2	18252.4	17896.3	17498.3	16887.9	16418.2	16570.8	16884.9	17339.7	16442.1	12728.8
35°	19476.2	19413.3	19072.2	18671.3	18105.7	17824.5	17770.6	17986.1	18575.5	18010.0	13817.9
37.5°	20418.7	20355.9	19999.8	19622.8	19191.9	19209.9	19290.7	19395.4	19733.5	19688.6	14981.9
40°	21029.1	20963.3	20709.0	20439.7	20167.4	20382.8	20783.8	20658.1	20837.6	21044.1	16053.1
42.5°	21301.4	21217.6	21071.0	21011.2	20927.4	21262.5	22034.5	21908.8	21693.4	21947.7	16849.0
45°	21029.1	20957.3	20954.3	21136.8	21331.3	21762.2	22899.2	22797.5	22252.9	22384.6	17324.8
47.5°	20194.3	20131.5	20302.0	20780.8	21259.5	21887.9	23285.2	23303.2	22650.9	22567.1	17633.0
50°	18390.0	18348.1	18841.8	19748.5	20574.3	21495.9	23162.6	23369.0	22746.6	22510.3	17594.1
52.5°	14721.6	14916.1	15990.3	17504.3	19108.1	20807.7	22707.7	22977.0	22285.8	22136.2	17384.6
55°	10077.7	10167.5	11241.7	13452.9	15996.3	19317.6	21663.5	22079.4	21741.3	22073.4	17603.1
57.5°	5218.4	5290.2	6137.0	8099.9	10849.7	15266.2	18764.0	20128.5	20643.1	22390.6	18282.3
60°	2142.4	2202.3	2552.3	3500.9	5472.7	8889.8	13503.8	15526.5	16735.3	20448.6	16235.6
62.5°	1555.9	1585.9	1753.4	2088.5	2866.5	4356.6	7642.1	8387.1	9236.9	12815.6	10308.1
65°	1310.6	1343.5	1478.1	1681.6	2091.5	2672.0	3264.5	3282.4	3617.6	5221.4	3821.0
67.5°	1098.1	1128.1	1247.7	1421.3	1690.6	1897.0	1753.4	1756.4	1750.4	1894.1	1831.2
70°	855.8	879.7	999.4	1184.9	1325.5	1217.8	1370.4	1517.0	1454.2	1511.1	1597.8
72.5°	625.4	652.3	757.0	897.7	861.8	867.7	1110.1	1259.7	1223.8	1286.6	1367.4
75°	451.8	469.8	523.6	448.8	472.8	571.5	781.0	861.8	897.7	951.5	1023.3
77.5°	146.6	146.6	164.6	206.5	257.3	317.2	398.0	430.9	484.7	544.6	595.4
80°	74.8	77.8	92.8	113.7	143.6	182.5	233.4	248.4	275.3	308.2	329.1
82.5°	35.9	38.9	44.9	56.9	74.8	95.8	128.7	143.6	161.6	182.5	197.5
85°	9.0	9.0	12.0	18.0	23.9	35.9	47.9	56.9	71.8	86.8	95.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.0	9.0	12.0	15.0	18.0	23.9
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°	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5	5565.5
2.5°	5670.2	5502.6	5287.2	5104.7	4937.1	4808.5	4697.7	4643.9	4593.0	4557.1	4569.1
5°	5825.8	5538.5	5137.6	4859.3	4688.8	4602.0	4542.1	4512.2	4506.2	4482.3	4473.3
7.5°	6053.2	5643.3	5107.7	4826.4	4712.7	4667.8	4634.9	4617.0	4625.9	4602.0	4593.0
10°	6334.5	5816.8	5182.5	4934.1	4835.4	4802.5	4766.6	4742.6	4730.7	4694.7	4688.8
12.5°	6684.6	6032.3	5317.1	5071.8	4973.0	4916.2	4868.3	4826.4	4799.5	4754.6	4742.6
15°	7061.6	6271.6	5475.7	5206.4	5089.7	5005.9	4928.1	4865.3	4817.4	4757.6	4748.6
17.5°	7471.5	6523.0	5607.4	5299.2	5149.6	5038.9	4925.1	4832.4	4766.6	4688.8	4679.8
20°	7899.4	6777.3	5706.1	5344.1	5152.6	5002.9	4850.3	4727.7	4643.9	4566.1	4560.1
22.5°	8342.2	7010.7	5766.0	5332.1	5104.7	4919.2	4736.6	4599.0	4500.3	4407.5	4401.5
25°	8788.1	7235.1	5780.9	5284.2	5008.9	4793.5	4611.0	4449.4	4338.7	4234.0	4222.0
27.5°	9239.9	7423.6	5745.0	5188.5	4880.3	4646.9	4464.3	4305.8	4192.1	4087.3	4069.4
30°	9721.6	7585.2	5667.2	5062.8	4730.7	4491.3	4311.7	4192.1	4084.3	3979.6	3961.7
32.5°	10236.3	7725.8	5556.5	4910.2	4557.1	4335.7	4204.0	4096.3	3988.6	3895.8	3877.9
35°	10849.7	7818.6	5391.9	4712.7	4395.5	4222.0	4132.2	4006.5	3874.9	3773.2	3764.2
37.5°	11484.0	7890.4	5194.4	4524.2	4254.9	4156.2	4081.3	3910.8	3746.2	3623.5	3608.6
40°	12097.4	7950.3	4949.1	4347.7	4126.2	4108.3	4006.5	3794.1	3509.8	3372.2	3360.2
42.5°	12668.9	7968.2	4691.8	4159.1	4009.5	4000.6	3886.9	3557.7	3339.3	3252.5	3240.5
45°	13060.9	7953.2	4425.5	3982.6	3892.8	3845.0	3725.3	3387.2	3252.5	3174.7	3159.8
47.5°	13351.2	7875.4	4126.2	3797.1	3761.2	3695.4	3438.0	3279.4	3153.8	3076.0	3061.0
50°	13300.3	7552.3	3824.0	3617.6	3602.6	3545.7	3228.6	3144.8	3034.1	2950.3	2938.3
52.5°	13037.0	6938.9	3515.8	3420.1	3450.0	3339.3	3079.0	2983.2	2887.5	2791.7	2770.8
55°	13102.8	6496.0	3282.4	3228.6	3282.4	3031.1	2911.4	2809.7	2719.9	2627.1	2609.2
57.5°	13390.1	6059.2	3034.1	3022.1	3079.0	2794.7	2696.0	2567.3	2438.6	2363.8	2363.8
60°	11244.7	4416.5	2597.2	2627.1	2755.8	2603.2	2516.4	2384.8	2244.1	2178.3	2178.3
62.5°	6648.6	2770.8	2154.4	2121.5	2202.3	2298.0	2345.9	2238.2	2070.6	1983.8	1986.8
65°	2929.4	2016.7	1900.0	1873.1	1849.2	1915.0	2046.7	2055.6	1879.1	1777.4	1780.4
67.5°	1804.3	1825.2	1777.4	1756.4	1735.5	1723.5	1711.5	1717.5	1669.6	1576.9	1573.9
70°	1627.8	1684.6	1651.7	1633.7	1606.8	1585.9	1514.0	1397.4	1316.6	1292.6	1319.6
72.5°	1400.3	1478.1	1460.2	1451.2	1418.3	1367.4	1271.7	1158.0	1062.2	1002.4	1014.4
75°	1056.2	1119.1	1128.1	1131.0	1095.1	1047.3	948.5	852.8	769.0	706.2	721.1
77.5°	607.4	643.3	652.3	661.3	634.3	616.4	550.6	481.7	436.9	371.0	389.0
80°	338.1	353.1	353.1	356.1	341.1	320.2	275.3	236.4	215.4	185.5	188.5
82.5°	203.5	209.5	212.4	215.4	206.5	185.5	152.6	125.7	113.7	98.7	95.8
85°	98.7	104.7	104.7	107.7	92.8	80.8	62.8	47.9	41.9	29.9	32.9
87.5°	23.9	26.9	26.9	23.9	20.9	15.0	9.0	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)