

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: P643479

Luminaire Tested: GWS-SA6F-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-722-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30701.2 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

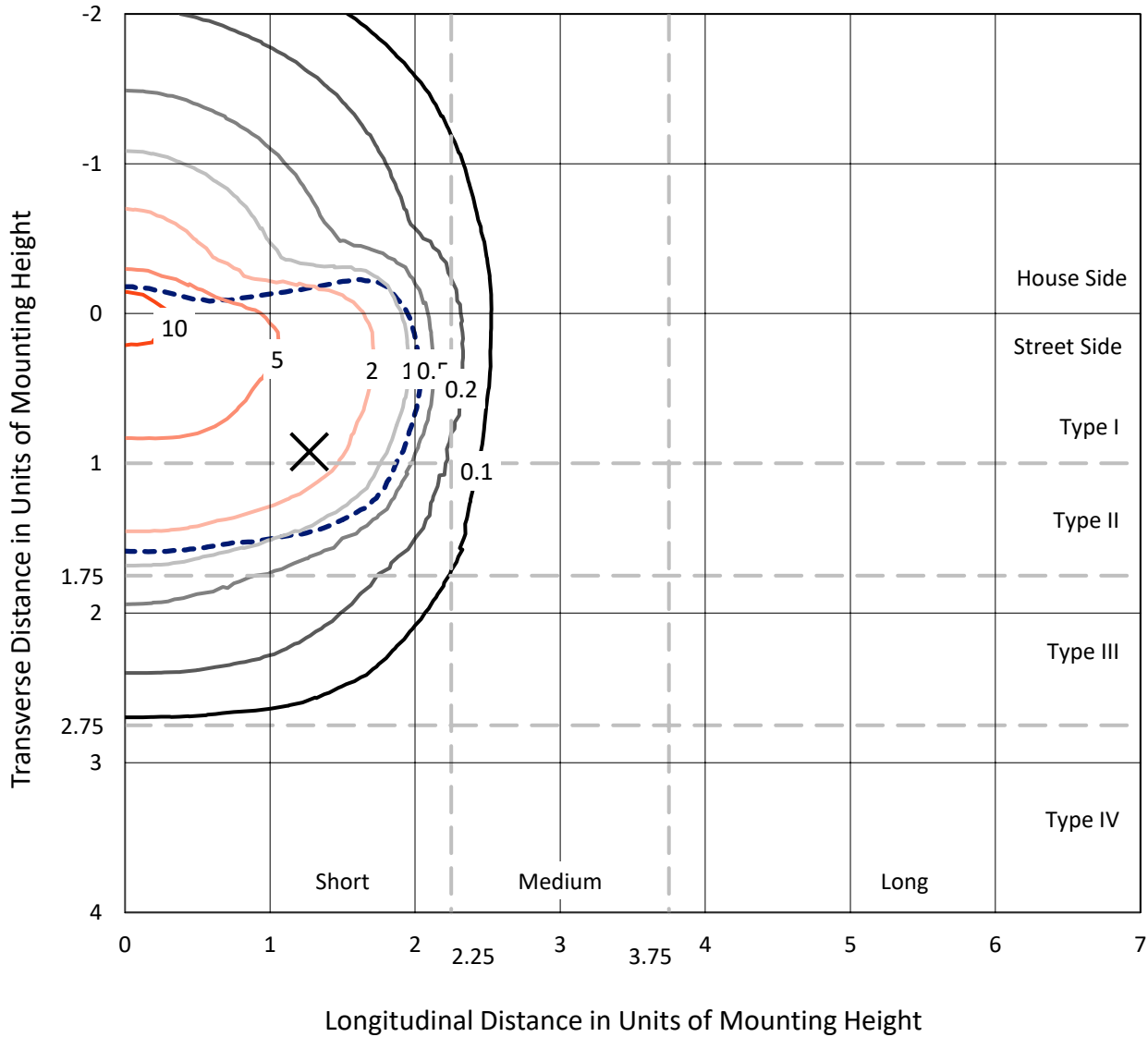
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

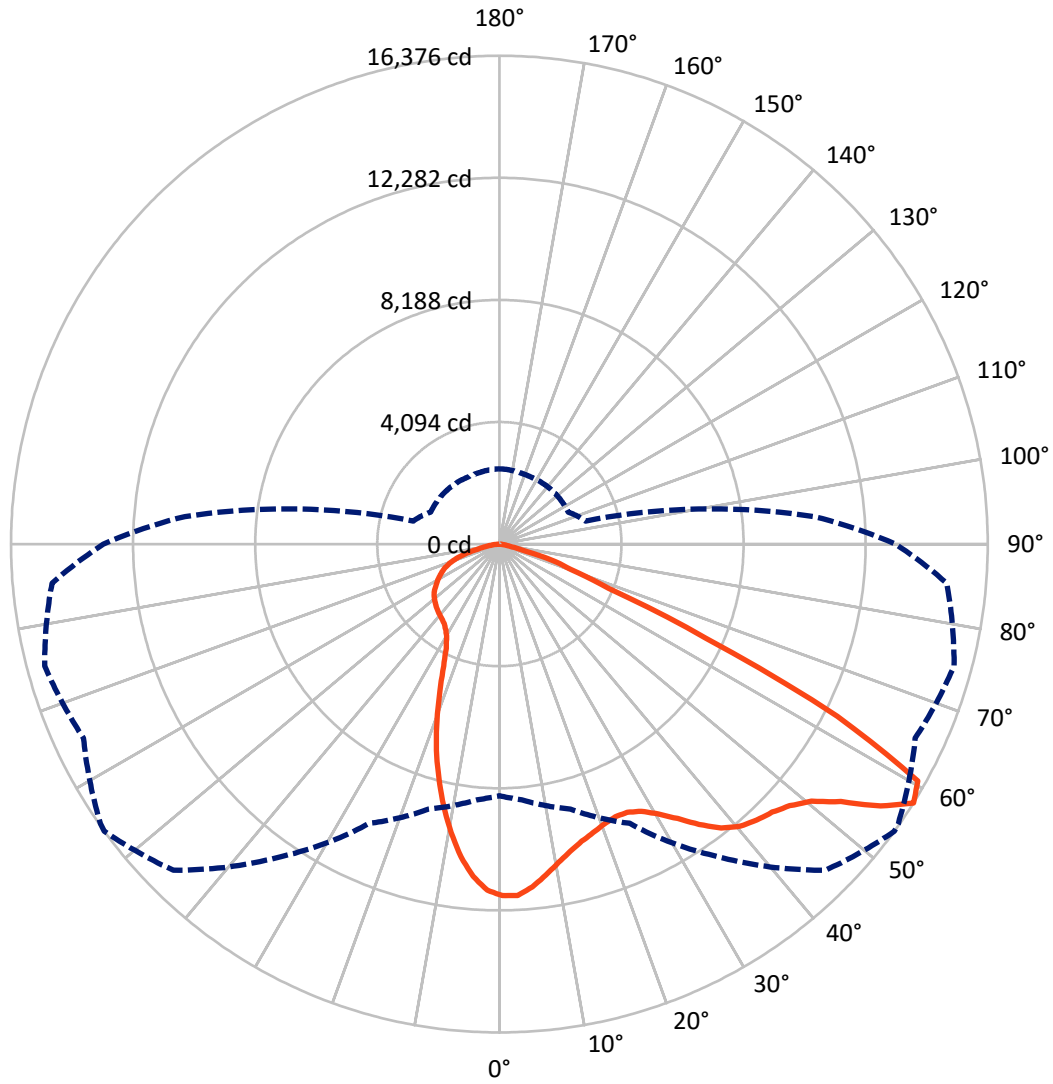
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8925.2	0.0	8925.2
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	21776.0	0.0	21776.0
	% Fixture	70.9	0.0	70.9
Total	Lumens	30701.2	0.0	30701.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1036.1	3.4
10°-20°	2472.2	8.1
20°-30°	3421.1	11.1
30°-40°	4753.6	15.5
40°-50°	6278.1	20.4
50°-60°	7460.6	24.3
60°-70°	4133.3	13.5
70°-80°	1029.3	3.4
80°-90°	117.0	0.4
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°	30701.2	100.0
0°-180°	30701.2	100.0

Coefficient of Utilization



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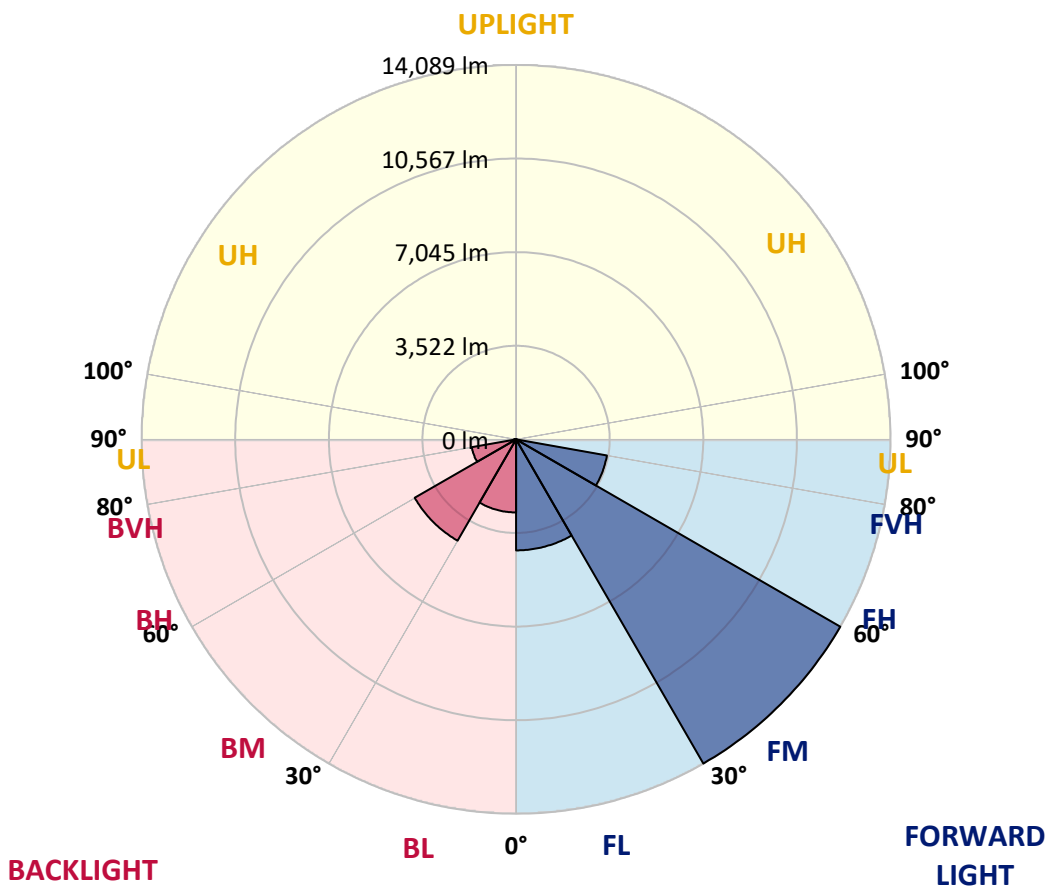
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4178.9	13.6			
FM (30°-60°)	14089.3	45.9			
FH (60°-80°)	3471.2	11.3			G2/5000
FVH (80°-90°)	36.6	0.1			G1/100
BL (0°-30°)	2750.4	9.0	B4/5000		
BM (30°-60°)	4403.0	14.3	B3/5000		
BH (60°-80°)	1691.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	80.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9
2.5°	11566.1	11589.8	11605.6	11660.7	11708.0	11750.1	11794.8	11794.8	11792.1	11784.3	11768.5
5°	11108.8	11135.1	11171.9	11248.1	11350.6	11424.2	11545.1	11555.6	11608.2	11629.2	11618.7
7.5°	10578.0	10585.9	10633.2	10733.0	10896.0	11027.4	11200.8	11221.9	11348.0	11421.6	11408.4
10°	9997.2	9970.9	10055.0	10202.2	10415.0	10635.8	10859.2	10877.6	11079.9	11219.2	11208.7
12.5°	9466.3	9468.9	9553.0	9731.7	9997.2	10270.5	10570.1	10612.1	10861.8	11040.5	11022.1
15°	9022.2	9032.7	9135.2	9337.5	9639.8	9965.6	10338.8	10378.2	10693.6	10930.1	10877.6
17.5°	8667.4	8677.9	8767.2	8998.5	9321.8	9716.0	10170.6	10210.0	10601.6	10882.8	10775.1
20°	8423.0	8417.7	8504.4	8725.2	9059.0	9487.3	10023.5	10081.3	10572.7	10901.2	10706.8
22.5°	8323.1	8320.5	8383.5	8564.9	8877.6	9311.2	9934.1	10012.9	10604.3	10982.7	10664.7
25°	8373.0	8362.5	8417.7	8551.7	8801.4	9242.9	9960.4	10044.5	10738.3	11150.9	10672.6
27.5°	8528.1	8514.9	8562.2	8683.1	8872.4	9313.9	10144.3	10241.6	11022.1	11458.4	10777.7
30°	8764.6	8756.7	8804.0	8919.7	9085.2	9550.4	10496.5	10606.9	11461.0	11936.7	11006.4
32.5°	9040.6	9027.4	9111.5	9245.5	9437.4	9981.4	10969.6	11114.1	11981.4	12551.7	11390.0
35°	9350.7	9340.2	9455.8	9650.3	9926.2	10580.6	11542.5	11700.2	12512.2	13248.1	11899.9
37.5°	9652.9	9652.9	9876.3	10165.4	10512.3	11232.4	12081.2	12181.1	12880.2	13865.7	12446.5
40°	9921.0	9936.7	10273.1	10706.8	11148.3	11821.1	12436.0	12520.1	13043.1	14291.4	12922.2
42.5°	10217.9	10231.1	10622.7	11190.3	11715.9	12296.7	12651.5	12693.6	13074.6	14504.3	13258.6
45°	10454.5	10472.9	10959.0	11566.1	12210.0	12654.2	12822.3	12859.1	13119.3	14619.9	13503.0
47.5°	10578.0	10604.3	11161.4	11868.4	12543.8	12974.8	13103.6	13119.3	13303.3	14822.3	13797.4
50°	10557.0	10609.5	11237.6	12018.2	12790.8	13298.0	13555.6	13581.9	13679.1	15119.3	14141.6
52.5°	10743.5	10767.2	11400.6	12196.9	13143.0	13894.6	14341.4	14378.2	14333.5	15342.7	14346.6
55°	10433.4	10546.4	11198.2	12170.6	13679.1	14817.1	15505.6	15487.2	14927.4	15592.3	14688.3
57.5°	8438.7	8604.3	9200.9	10330.9	12796.1	15463.6	16375.5	16330.8	15387.3	15784.2	15058.8
60°	5842.2	5868.5	6407.2	7208.8	9876.3	13660.7	16120.6	16217.8	15471.4	15542.4	14372.9
62.5°	4672.7	4664.8	4714.8	4735.8	6281.1	9603.0	12725.1	13079.9	12853.9	12110.1	10186.4
65°	3989.4	4018.3	4165.5	4089.3	4099.8	5408.6	7603.0	7652.9	7495.3	7227.2	5387.5
67.5°	3122.1	3172.1	3432.3	3729.2	3634.6	3482.2	3944.7	3921.1	3090.6	2391.5	1976.3
70°	1955.3	1986.8	2265.4	2927.7	3164.2	2859.3	2536.1	2525.6	1655.7	1361.3	1492.7
72.5°	1140.6	1145.8	1224.7	1632.0	2099.8	1955.3	1865.9	1797.6	1064.4	1085.4	1190.5
75°	628.1	628.1	625.5	704.3	827.8	733.2	709.6	691.2	712.2	806.8	885.7
77.5°	131.4	134.0	141.9	186.6	241.8	294.3	370.6	373.2	465.2	538.8	601.8
80°	60.4	63.1	78.8	99.9	128.8	170.8	226.0	228.6	281.2	339.0	381.1
82.5°	31.5	34.2	42.0	52.6	68.3	89.4	126.1	126.1	168.2	199.7	226.0
85°	10.5	10.5	15.8	21.0	28.9	36.8	49.9	49.9	73.6	97.2	113.0
87.5°	0.0	0.0	0.0	0.0	2.6	5.3	10.5	10.5	13.1	15.8	26.3
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°	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9	11786.9
2.5°	11734.3	11652.9	11655.5	11671.3	11621.3	11545.1	11495.2	11432.1	11392.7	11384.8	11413.7
5°	11566.1	11471.5	11405.8	11337.5	11195.6	11027.4	10896.0	10788.2	10717.3	10691.0	10659.4
7.5°	11334.9	11211.3	11045.8	10853.9	10596.4	10296.8	10086.5	9889.4	9752.8	9713.3	9694.9
10°	11103.6	10924.9	10630.5	10273.1	9844.7	9440.0	9059.0	8767.2	8536.0	8404.6	8446.6
12.5°	10864.4	10643.7	10183.8	9634.5	9037.9	8428.2	7928.9	7445.3	7072.1	6885.5	6830.4
15°	10654.2	10354.6	9713.3	8969.6	8175.9	7408.5	6685.8	5960.5	5487.4	5229.9	5158.9
17.5°	10475.5	10086.5	9216.6	8291.6	7342.8	6249.5	5361.3	4688.5	4365.2	4223.3	4212.8
20°	10299.4	9823.7	8725.2	7561.0	6381.0	5156.3	4362.6	4047.2	3931.6	3881.7	3879.0
22.5°	10141.7	9547.8	8207.5	6830.4	5424.3	4333.7	3897.4	3760.8	3729.2	3729.2	3724.0
25°	10007.7	9271.8	7676.6	6055.1	4559.7	3858.0	3655.6	3597.8	3611.0	3634.6	3637.2
27.5°	9952.5	9056.3	7164.1	5258.8	3963.1	3582.1	3490.1	3482.2	3519.0	3555.8	3561.0
30°	10010.3	8909.2	6638.5	4496.6	3605.7	3413.9	3371.8	3387.6	3432.3	3469.1	3469.1
32.5°	10189.0	8835.6	6102.4	3939.5	3398.1	3295.6	3282.5	3298.2	3332.4	3353.4	3356.0
35°	10491.3	8864.5	5547.9	3563.7	3264.1	3208.9	3206.2	3216.8	3229.9	3243.0	3245.7
37.5°	10872.3	8993.3	4953.9	3345.5	3177.3	3145.8	3140.5	3137.9	3140.5	3140.5	3143.2
40°	11245.5	9187.7	4423.0	3216.8	3116.9	3090.6	3077.5	3059.1	3056.4	3051.2	3048.6
42.5°	11521.5	9337.5	3999.9	3124.8	3061.7	3030.2	3014.4	2985.5	2982.9	2980.2	2977.6
45°	11729.1	9463.7	3647.8	3035.4	3003.9	2975.0	2940.8	2914.5	2919.8	2925.0	2925.0
47.5°	11963.0	9574.1	3390.2	2951.3	2932.9	2904.0	2862.0	2843.6	2862.0	2880.4	2880.4
50°	12246.8	9729.1	3180.0	2867.2	2859.3	2825.2	2788.4	2780.5	2801.5	2827.8	2827.8
52.5°	12454.4	9863.1	3030.2	2783.1	2783.1	2738.4	2706.9	2704.3	2727.9	2754.2	2756.8
55°	12843.4	10175.9	2977.6	2685.9	2675.4	2641.2	2617.6	2599.2	2628.1	2651.7	2651.7
57.5°	13282.3	10591.1	2990.7	2546.6	2533.5	2522.9	2504.5	2483.5	2491.4	2517.7	2520.3
60°	12351.9	9786.9	2846.2	2407.3	2399.4	2394.2	2370.5	2333.7	2344.2	2365.3	2367.9
62.5°	8627.9	6504.5	2302.2	2233.9	2260.1	2257.5	2226.0	2183.9	2186.6	2215.5	2215.5
65°	4478.2	3519.0	2021.0	2076.2	2115.6	2099.8	2047.3	2010.5	2005.2	2042.0	2034.1
67.5°	1931.6	1921.1	1839.6	1910.6	1952.7	1918.5	1863.3	1802.9	1808.1	1821.3	1810.7
70°	1555.8	1603.1	1637.3	1713.5	1747.7	1684.6	1624.1	1590.0	1561.1	1558.4	1540.0
72.5°	1243.1	1308.8	1385.0	1463.8	1474.3	1411.3	1335.1	1303.5	1258.8	1256.2	1237.8
75°	935.6	990.8	1051.2	1114.3	1114.3	1053.9	1003.9	988.2	935.6	919.8	904.1
77.5°	638.6	672.8	720.1	735.9	751.6	728.0	678.0	651.8	591.3	575.5	554.5
80°	402.1	425.7	454.7	465.2	480.9	452.0	412.6	383.7	341.6	328.5	318.0
82.5°	241.8	257.6	275.9	281.2	294.3	273.3	236.5	215.5	191.8	181.3	173.5
85°	123.5	131.4	141.9	144.5	141.9	120.9	107.8	97.2	81.5	78.8	73.6
87.5°	31.5	36.8	39.4	36.8	34.2	26.3	18.4	13.1	5.3	5.3	2.6
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)