

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: P641361

Luminaire Tested: GWS-SA5F-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-760-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36919 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

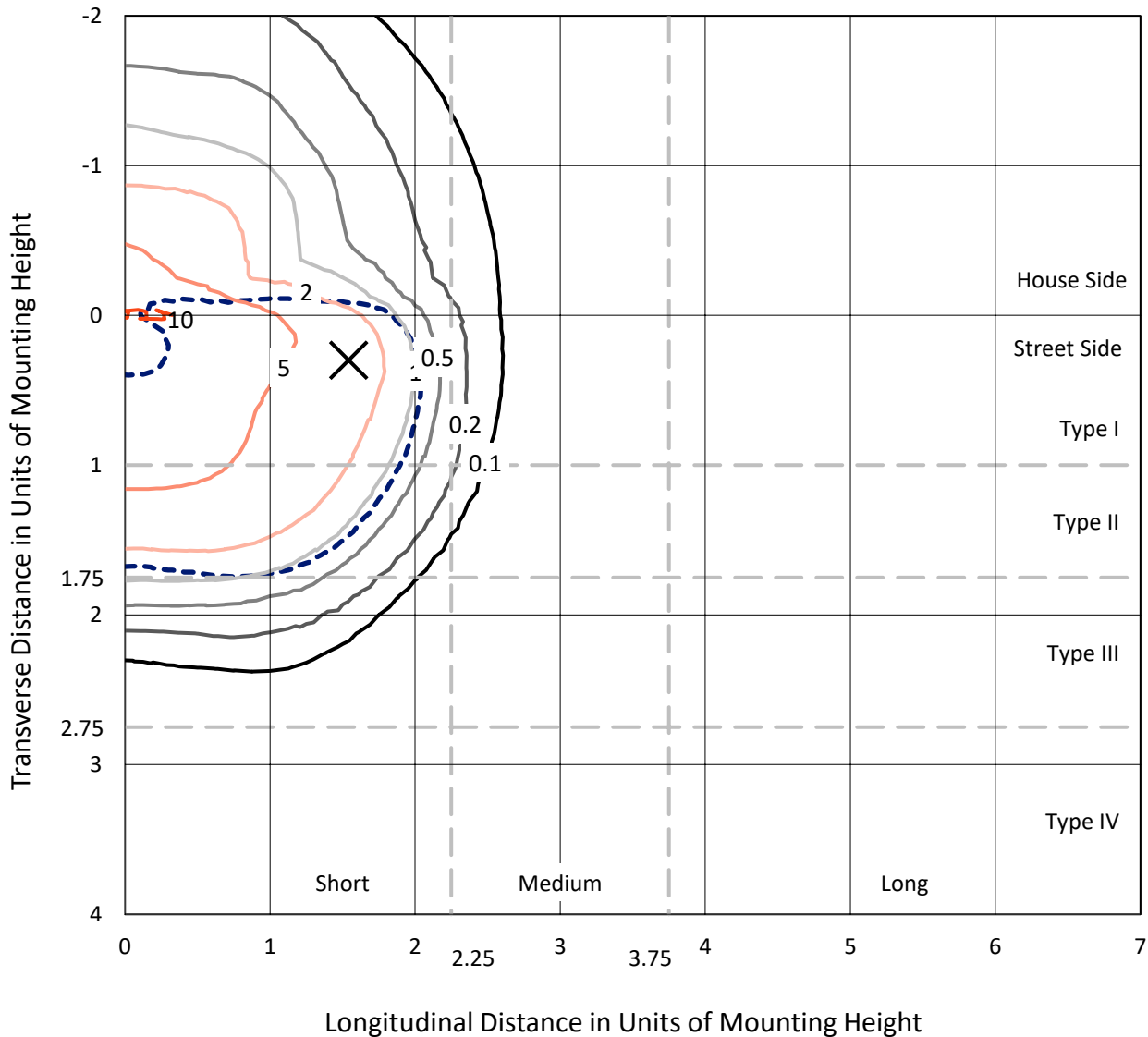
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

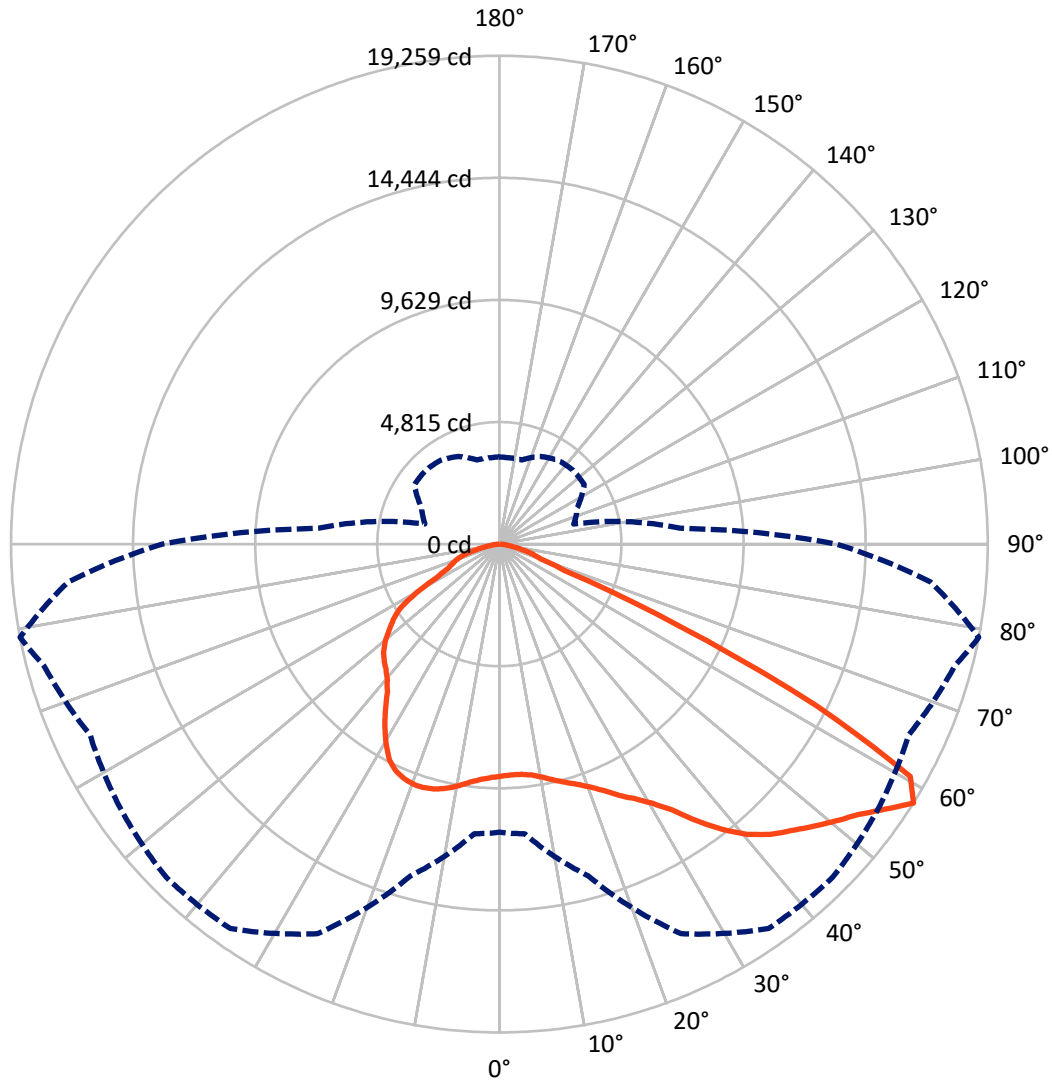
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10974.3	0.0	10974.3
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	25944.7	0.0	25944.7
	% Fixture	70.3	0.0	70.3
Total	Lumens	36919.0	0.0	36919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	847.3	2.3
10°-20°	2354.7	6.4
20°-30°	3991.3	10.8
30°-40°	6109.2	16.5
40°-50°	8146.0	22.1
50°-60°	9408.0	25.5
60°-70°	4888.7	13.2
70°-80°	1039.2	2.8
80°-90°	134.6	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°	36919.0	100.0
0°-180°	36919.0	100.0

Coefficient of Utilization



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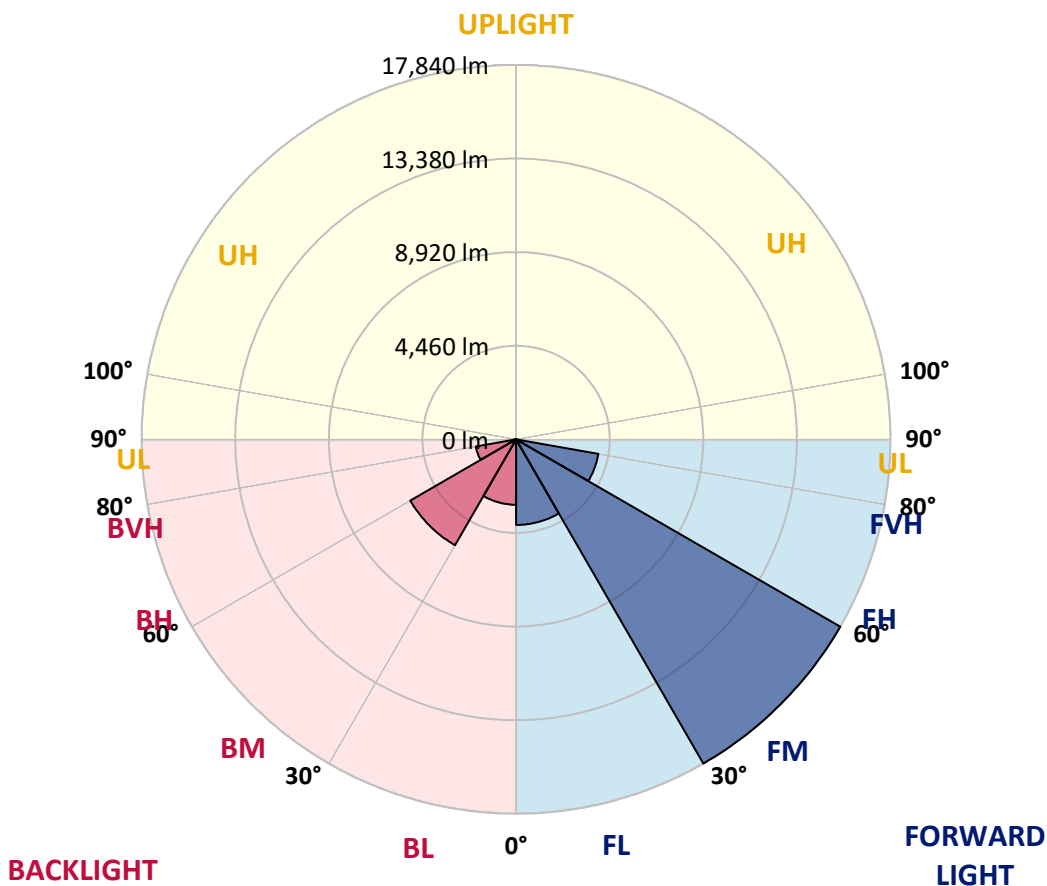
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4076.7	11.0			
FM (30°-60°)	17840.3	48.3			
FH (60°-80°)	3980.8	10.8			G2/5000
FVH (80°-90°)	46.9	0.1			G1/100
BL (0°-30°)	3116.6	8.4	B4/5000		
BM (30°-60°)	5822.9	15.8	B4/8500		
BH (60°-80°)	1947.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	87.7	0.2			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°	55°	65°	75°	79°	85°
0°	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4
2.5°	8732.8	8714.7	8720.7	8744.9	8835.4	8901.9	8971.3	9034.7	9095.0	9113.2	9128.3
5°	8421.9	8388.7	8397.7	8437.0	8542.6	8654.3	8778.1	8929.0	9073.9	9122.2	9185.6
7.5°	8201.5	8195.5	8210.6	8271.0	8382.7	8488.3	8648.3	8862.6	9113.2	9194.7	9306.3
10°	7908.7	7896.7	7957.0	8080.8	8264.9	8434.0	8624.1	8877.7	9227.9	9348.6	9520.7
12.5°	7676.3	7670.3	7733.7	7905.7	8141.2	8409.8	8672.4	8956.2	9381.8	9547.8	9759.1
15°	7812.1	7785.0	7788.0	7908.7	8120.0	8437.0	8793.2	9098.1	9535.8	9747.1	10018.7
17.5°	8207.6	8159.3	8123.1	8144.2	8264.9	8594.0	8977.3	9288.2	9713.9	9961.4	10293.4
20°	8753.9	8726.8	8627.2	8560.8	8587.9	8877.7	9267.1	9556.9	9946.3	10224.0	10580.2
22.5°	9487.5	9421.1	9285.2	9179.6	9098.1	9324.5	9683.7	9934.2	10269.3	10559.1	10930.4
25°	10396.1	10299.5	10085.1	9919.1	9744.0	9976.5	10296.5	10486.6	10713.0	10981.7	11334.8
27.5°	11322.8	11241.3	11002.8	10779.4	10562.1	10707.0	11087.3	11196.0	11171.8	11368.1	11669.9
30°	12309.9	12207.2	11980.8	11739.3	11458.6	11552.2	11893.3	11947.6	11691.0	11854.0	12059.3
32.5°	13351.3	13251.7	13055.5	12774.7	12457.8	12494.0	12587.6	12638.9	12394.4	12488.0	12644.9
35°	14410.8	14317.2	14118.0	13840.3	13607.9	13387.5	13152.0	13357.3	13215.4	13396.6	13384.5
37.5°	15379.8	15286.2	15162.4	14948.1	14549.7	14115.0	13571.6	13825.2	14045.6	14275.0	14235.7
40°	16034.8	15971.4	16001.6	15968.4	15455.2	14594.9	13776.9	14054.6	14655.3	15047.7	15026.6
42.5°	16599.3	16535.9	16711.0	16837.8	16234.0	15038.7	13876.5	14142.1	15044.7	15657.5	15627.3
45°	16849.8	16831.7	17121.5	17523.0	16946.4	15509.6	14133.1	14323.3	15340.5	16125.4	16010.7
47.5°	16551.0	16614.4	17184.9	17864.1	17538.1	16068.0	14658.3	14706.6	15726.9	16632.5	16309.5
50°	15956.3	16095.2	16864.9	17873.1	17969.7	16698.9	15385.8	15265.1	16246.1	17172.8	16466.5
52.5°	15090.0	15234.9	16490.6	17803.7	18217.3	17429.4	16354.8	16182.7	16901.2	17713.2	16493.6
55°	13100.7	13296.9	15633.3	17646.7	18458.7	18093.5	17447.5	17097.4	17746.4	18455.7	16762.3
57.5°	11365.0	11467.7	13544.5	16949.4	18507.0	18582.5	18226.3	17809.8	18585.5	19258.7	17064.2
60°	8340.4	8364.5	10233.1	14024.4	17024.9	18298.8	18162.9	17544.1	18187.1	18615.7	15681.6
62.5°	4712.0	4715.1	6206.2	9360.7	12717.4	14914.9	14999.4	14453.1	13912.7	14039.5	10915.3
65°	1768.9	1934.9	2834.5	4600.3	7332.2	8805.3	9155.4	9282.2	8382.7	7824.2	5853.1
67.5°	1183.3	1222.5	1654.2	2366.6	3263.1	3767.2	4214.0	4226.0	3091.0	2756.0	2306.2
70°	902.6	941.8	1301.0	1693.4	1654.2	1527.4	1651.2	1605.9	1660.2	1705.5	1753.8
72.5°	673.1	712.4	1008.2	1195.4	993.1	978.0	1107.8	1231.6	1346.3	1394.6	1470.1
75°	446.8	476.9	679.2	639.9	549.4	649.0	809.0	932.7	999.2	1056.5	1113.9
77.5°	283.7	304.9	362.2	292.8	304.9	380.3	470.9	582.6	646.0	703.3	733.5
80°	129.8	126.8	123.8	138.9	172.1	223.4	283.7	350.2	398.5	422.6	440.7
82.5°	51.3	57.4	63.4	75.5	93.6	120.7	160.0	205.3	244.5	250.5	265.6
85°	21.1	24.1	27.2	33.2	42.3	54.3	66.4	93.6	117.7	126.8	135.8
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	9.1	15.1	27.2	30.2	33.2
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°	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4	9149.4
2.5°	9209.8	9170.5	9236.9	9282.2	9324.5	9279.2	9264.1	9224.8	9218.8	9218.8	9239.9
5°	9294.3	9267.1	9336.5	9363.7	9360.7	9261.1	9200.7	9122.2	9083.0	9083.0	9089.0
7.5°	9445.2	9430.1	9469.4	9427.1	9330.5	9128.3	8929.0	8763.0	8651.3	8594.0	8612.1
10°	9695.7	9677.6	9644.4	9487.5	9209.8	8790.2	8382.7	8080.8	7899.7	7797.0	7803.1
12.5°	9940.3	9910.1	9792.3	9445.2	8874.7	8207.6	7673.3	7335.2	7136.0	7015.2	6988.1
15°	10208.9	10130.4	9876.9	9227.9	8328.3	7495.2	6936.7	6571.5	6357.2	6284.7	6281.7
17.5°	10465.5	10326.6	9867.8	8841.5	7673.3	6749.6	6188.1	5961.7	5925.5	5958.7	5967.8
20°	10725.1	10501.7	9768.2	8307.2	6894.5	6007.0	5717.2	5810.8	5946.6	6037.2	6058.3
22.5°	10993.7	10646.6	9541.8	7619.0	6073.4	5505.9	5626.7	5831.9	6001.0	6121.7	6133.8
25°	11295.6	10782.4	9203.7	6776.8	5415.4	5367.1	5605.5	5822.9	6004.0	6142.9	6167.0
27.5°	11467.7	10785.5	8729.8	5910.4	5113.5	5312.7	5554.2	5759.5	5940.6	6091.5	6118.7
30°	11636.7	10704.0	7978.2	5207.1	5026.0	5249.3	5466.7	5656.9	5828.9	5976.8	6010.0
32.5°	11875.2	10628.5	7111.8	4802.6	4974.7	5189.0	5367.1	5536.1	5668.9	5735.3	5753.5
35°	12171.0	10531.9	6191.2	4627.5	4941.5	5140.7	5297.6	5388.2	5216.1	5179.9	5219.2
37.5°	12584.6	10441.3	5273.5	4552.1	4920.3	5122.6	5261.4	5029.0	4817.7	4733.2	4763.4
40°	13031.3	10390.0	4651.7	4491.7	4929.4	5140.7	5110.5	4766.4	4461.5	4283.4	4277.4
42.5°	13411.6	10311.5	4253.2	4452.4	4953.5	5210.1	4905.2	4533.9	4081.1	3975.5	3978.5
45°	13668.2	10112.3	4041.9	4410.2	4974.7	5225.2	4808.6	4214.0	3891.0	3824.6	3821.5
47.5°	13773.9	9750.1	3906.1	4343.8	4971.6	5101.4	4612.4	4081.1	3758.2	3740.0	3752.1
50°	13704.5	9155.4	3767.2	4214.0	4899.2	4971.6	4386.0	3963.4	3667.6	3767.2	3839.7
52.5°	13447.9	8385.7	3601.2	4035.9	4769.4	4823.7	4271.3	3891.0	3601.2	3734.0	3791.4
55°	13381.5	7760.8	3389.9	3803.4	4576.2	4561.1	4150.6	3854.8	3555.9	3504.6	3513.7
57.5°	13293.9	7151.1	3039.7	3386.9	4087.2	4111.3	4035.9	3812.5	3438.2	3423.1	3438.2
60°	11549.2	5481.8	2710.7	2922.0	3356.7	3486.5	3906.1	3734.0	3248.0	3184.6	3181.6
62.5°	7543.5	3320.5	2411.9	2547.7	2734.9	2885.8	3562.0	3507.6	3039.7	3000.5	3027.7
65°	4057.0	2366.6	2194.5	2276.0	2378.7	2493.4	2952.2	3124.3	2746.9	2608.1	2611.1
67.5°	2073.8	2013.4	2031.5	2088.9	2167.4	2224.7	2381.7	2532.6	2342.4	2224.7	2221.7
70°	1774.9	1823.2	1850.4	1883.6	1934.9	1925.9	1941.0	1968.1	1953.0	1895.7	1892.7
72.5°	1512.3	1587.8	1593.8	1599.9	1618.0	1575.7	1548.5	1503.3	1506.3	1515.3	1518.4
75°	1150.1	1222.5	1240.6	1231.6	1249.7	1195.4	1159.1	1113.9	1059.5	1050.5	1056.5
77.5°	748.6	806.0	833.1	827.1	836.2	793.9	775.8	727.5	664.1	639.9	639.9
80°	452.8	486.0	507.1	513.2	522.2	492.0	461.8	419.6	392.4	365.3	365.3
82.5°	274.7	295.8	310.9	310.9	320.0	286.8	262.6	232.4	220.4	196.2	196.2
85°	138.9	153.9	160.0	157.0	150.9	123.8	114.7	99.6	93.6	81.5	81.5
87.5°	33.2	42.3	42.3	30.2	30.2	15.1	9.1	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)