

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: P643640

Luminaire Tested: GWS-SA6F-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-735-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41808.9 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

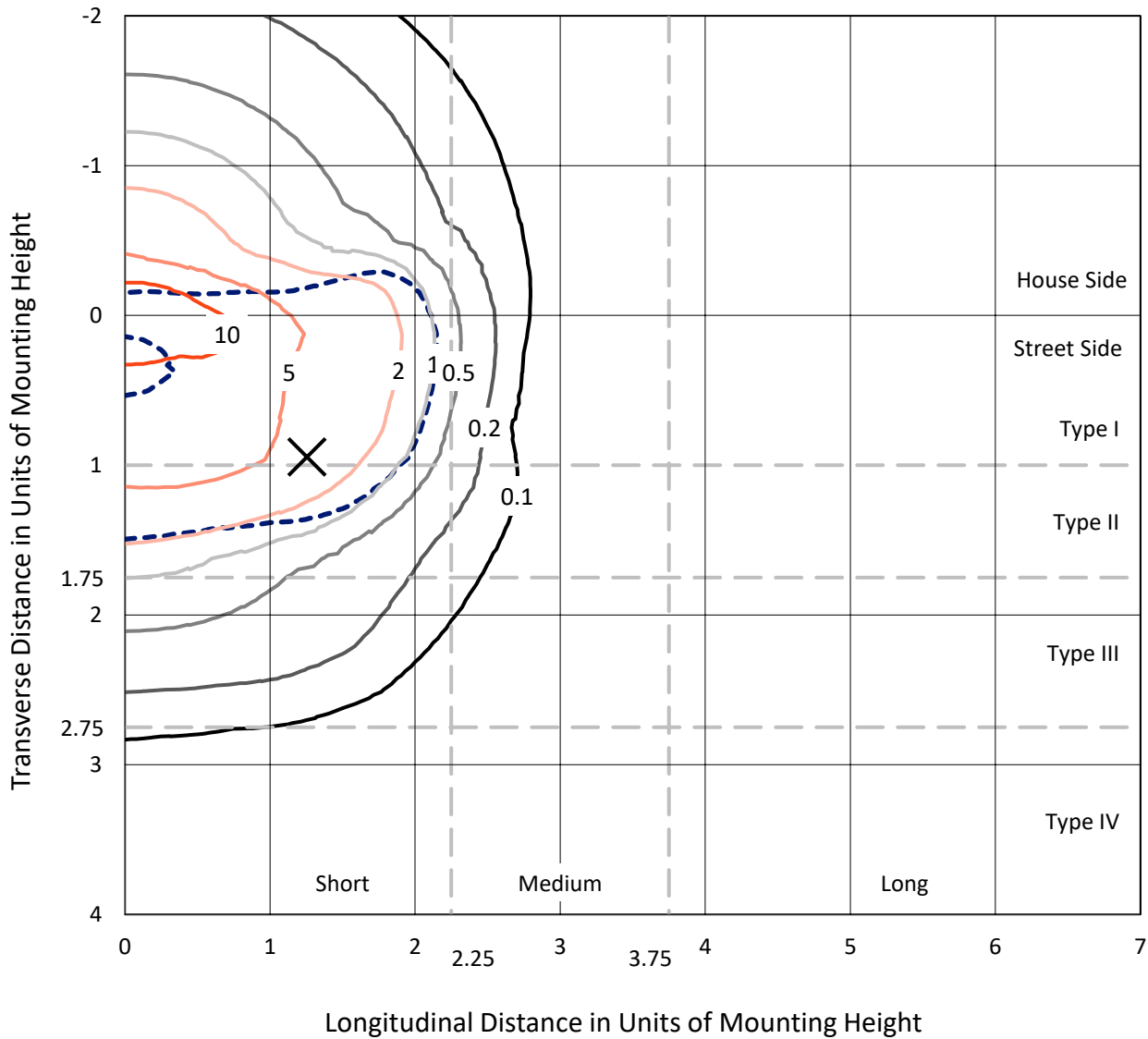
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

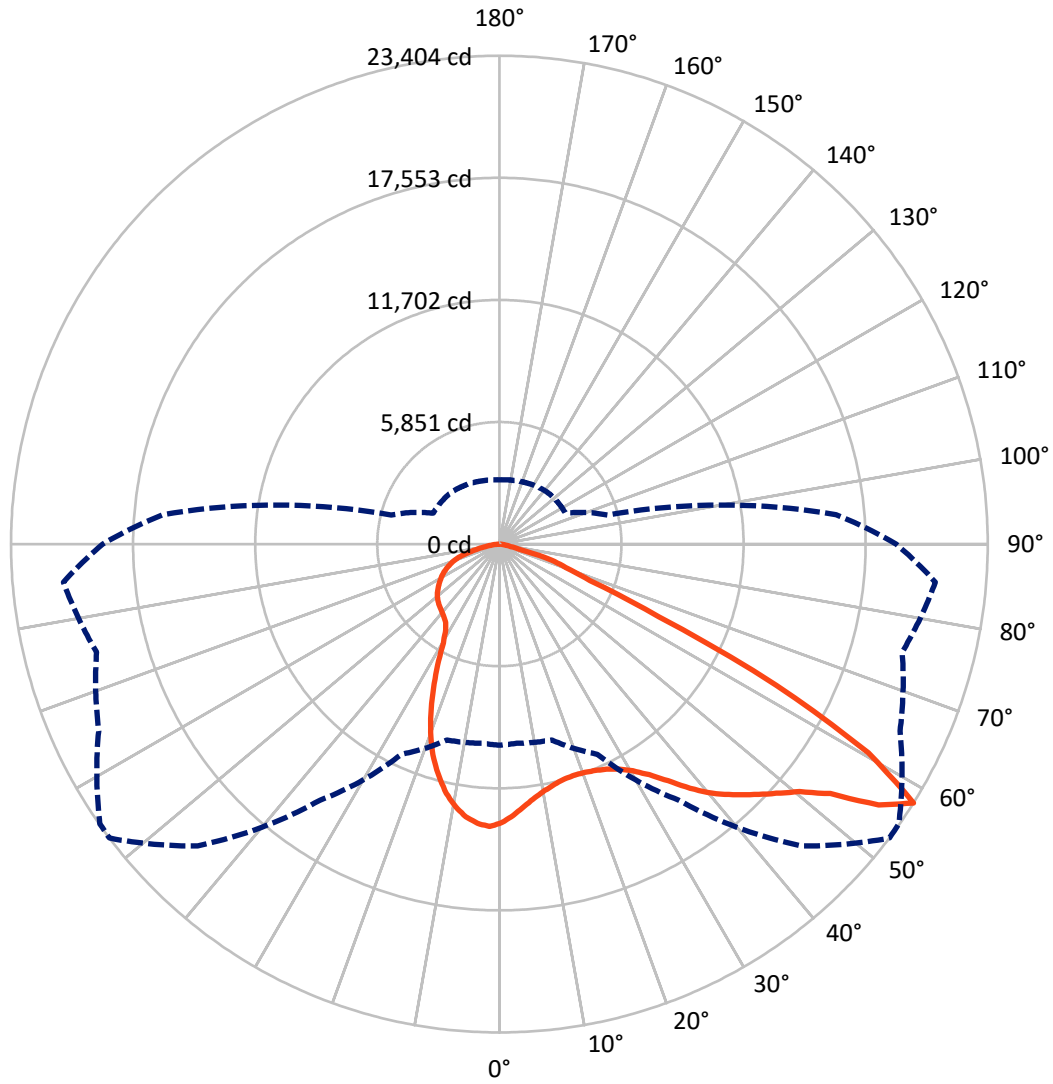
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13072.1	0.0	13072.1
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	28736.8	0.0	28736.8
	% Fixture	68.7	0.0	68.7
Total	Lumens	41808.9	0.0	41808.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1207.3	2.9
10°-20°	3167.4	7.6
20°-30°	4666.7	11.2
30°-40°	6532.2	15.6
40°-50°	8587.0	20.5
50°-60°	10068.3	24.1
60°-70°	5931.3	14.2
70°-80°	1475.5	3.5
80°-90°	173.1	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°	41808.9	100.0
0°-180°	41808.9	100.0

Coefficient of Utilization



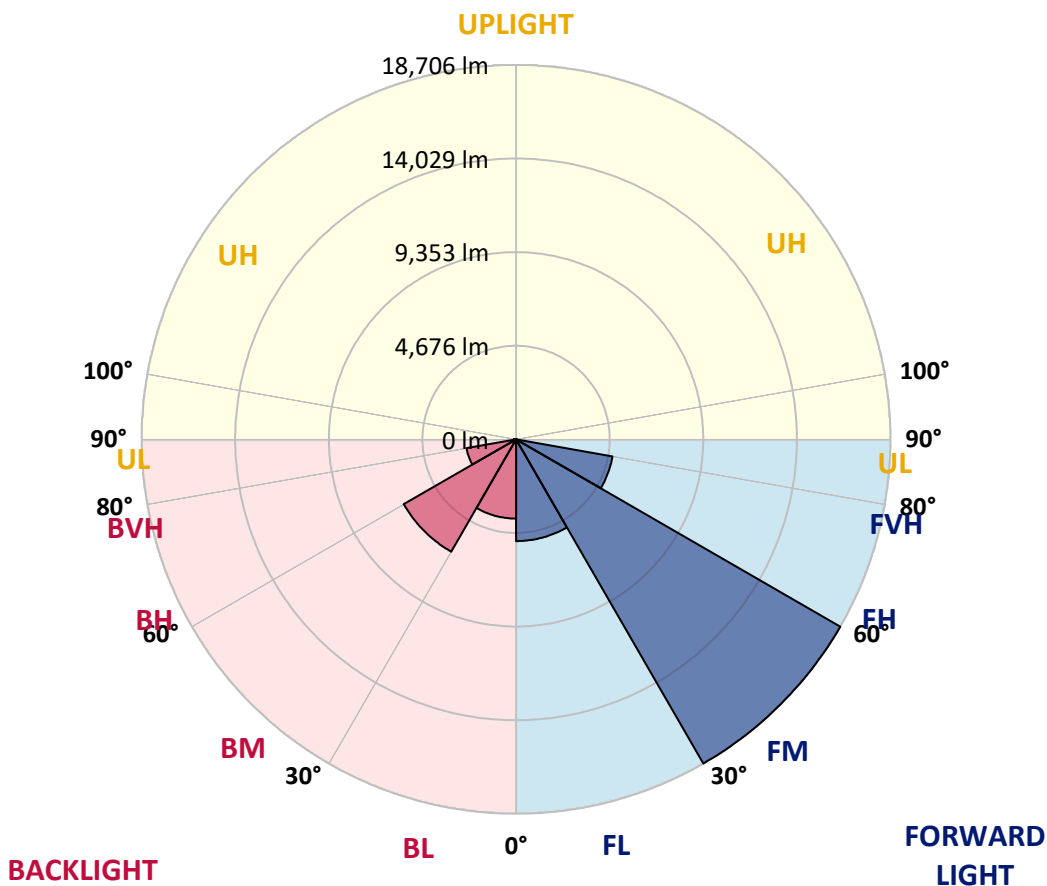
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5083.1	12.2			
FM (30°-60°)	18705.7	44.7			
FH (60°-80°)	4890.0	11.7			G2/5000
FVH (80°-90°)	57.9	0.1			G1/100
BL (0°-30°)	3958.3	9.5	B4/5000		
BM (30°-60°)	6481.8	15.5	B4/8500		
BH (60°-80°)	2516.8	6.0	B4/5000		G4/5000
BVH (80°-90°)	115.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7
2.5°	12583.6	12618.8	12625.8	12734.9	12741.9	12900.3	13005.9	12984.7	13093.8	13227.5	13333.1
5°	11981.9	11985.4	12020.6	12150.8	12221.1	12428.8	12604.7	12604.7	12815.8	13090.3	13326.1
7.5°	11485.7	11482.2	11513.8	11658.1	11774.2	12024.1	12263.4	12291.5	12587.1	12988.3	13371.8
10°	11024.7	11049.3	11084.5	11260.5	11408.3	11717.9	12003.0	12048.7	12421.7	12917.9	13435.2
12.5°	10729.1	10732.6	10785.4	10982.5	11172.5	11503.3	11802.4	11858.7	12288.0	12851.0	13480.9
15°	10539.1	10542.6	10598.9	10817.1	11038.8	11373.1	11679.2	11742.6	12210.6	12840.5	13568.9
17.5°	10454.7	10451.1	10503.9	10722.1	10964.9	11313.3	11640.5	11717.9	12245.8	12921.4	13723.7
20°	10454.7	10458.2	10486.3	10683.4	10929.7	11299.2	11679.2	11774.2	12383.0	13104.4	13963.0
22.5°	10602.4	10616.5	10630.6	10764.3	10957.9	11320.3	11781.3	11908.0	12678.6	13410.5	14276.2
25°	10891.0	10894.5	10908.6	11017.7	11105.7	11380.1	11950.2	12140.2	13139.6	13857.4	14670.3
27.5°	11278.1	11327.3	11341.4	11411.8	11411.8	11527.9	12214.1	12488.6	13762.4	14501.4	15173.5
30°	11820.0	11837.6	11862.2	11939.6	11855.2	11805.9	12601.2	12953.1	14483.8	15279.1	15778.8
32.5°	12295.0	12333.7	12467.5	12594.1	12442.8	12288.0	13171.2	13586.5	15177.0	16088.4	16422.7
35°	12699.7	12794.7	13051.6	13333.1	13227.5	13072.7	13927.8	14360.6	15747.1	16669.0	16992.8
37.5°	13188.8	13262.7	13614.6	14072.1	14167.1	14093.2	14849.8	15159.4	16127.1	16816.8	17302.4
40°	13685.0	13797.6	14251.6	14885.0	15247.4	15300.2	15701.3	15909.0	16257.3	16528.3	17242.6
42.5°	14191.7	14385.3	15008.1	15747.1	16391.0	16510.7	16419.2	16507.2	16215.1	16130.6	16964.6
45°	14811.1	15039.8	15743.6	16686.6	17534.7	17721.2	17123.0	17042.0	16208.1	15979.3	16792.2
47.5°	15543.0	15771.7	16443.8	17541.7	18625.5	18762.8	17844.3	17696.6	16454.4	16211.6	17024.4
50°	16190.5	16348.8	16950.5	18178.6	19642.5	19723.4	18639.6	18460.2	17066.7	16855.5	17749.3
52.5°	15532.4	15514.8	16148.2	17661.4	20170.3	21145.1	19864.2	19691.8	18249.0	17925.3	18871.9
55°	13178.3	12977.7	13544.3	15032.7	18695.9	22408.4	22060.0	21715.1	19825.5	19002.1	19924.0
57.5°	9634.8	9578.4	9715.7	11112.7	14976.4	20451.9	23404.2	23372.5	21187.3	19987.4	20972.7
60°	7534.0	7449.5	7083.5	7122.3	10208.3	15975.8	20311.1	21243.6	22031.8	20578.5	21704.6
62.5°	6689.4	6626.1	6436.1	5911.8	6080.7	10711.5	14888.5	15743.6	19251.9	18175.1	18643.1
65°	5538.8	5521.2	5679.5	5658.4	5095.4	5915.3	8403.1	9265.3	12105.0	12256.3	12105.0
67.5°	4025.6	3994.0	4395.1	5186.9	4905.3	4465.5	4683.7	4982.8	6207.3	5573.9	5018.0
70°	2618.1	2572.3	2804.6	3747.6	4391.6	3891.9	3374.6	3325.4	3413.3	2121.9	2294.3
72.5°	1755.9	1703.1	1699.6	2062.1	2653.3	2621.6	2614.5	2589.9	2311.9	1675.0	1858.0
75°	978.3	936.0	925.5	890.3	950.1	967.7	1031.0	1066.2	1154.2	1270.3	1407.6
77.5°	165.4	161.9	204.1	260.4	358.9	461.0	570.1	601.7	742.5	879.7	967.7
80°	91.5	95.0	123.2	151.3	200.6	274.5	351.9	373.0	457.5	531.4	601.7
82.5°	49.3	49.3	63.3	80.9	109.1	144.3	190.0	207.6	263.9	309.7	358.9
85°	17.6	17.6	24.6	31.7	45.7	59.8	73.9	84.5	116.1	158.4	179.5
87.5°	0.0	0.0	0.0	0.0	3.5	7.0	14.1	14.1	17.6	31.7	45.7
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°	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7	13350.7
2.5°	13421.1	13326.1	13456.3	13516.1	13537.2	13551.3	13459.8	13396.5	13375.3	13308.5	13269.8
5°	13470.4	13407.0	13530.2	13530.2	13442.2	13350.7	13164.2	13034.0	12942.5	12833.4	12815.8
7.5°	13554.8	13509.1	13575.9	13438.7	13217.0	12970.7	12646.9	12393.6	12189.5	12055.8	12059.3
10°	13667.4	13611.1	13558.3	13252.2	12847.5	12393.6	11897.4	11527.9	11190.1	11035.3	10950.8
12.5°	13741.3	13660.4	13438.7	12932.0	12337.3	11728.5	11028.2	10479.3	9990.2	9768.5	9750.9
15°	13832.8	13685.0	13241.6	12516.7	11689.8	10859.3	9958.5	9194.9	8533.3	8188.5	8170.9
17.5°	13952.4	13709.6	13005.9	12041.7	11007.1	9782.5	8649.5	7688.8	6985.0	6717.6	6763.3
20°	14121.4	13737.8	12738.4	11513.8	10159.1	8558.0	7146.9	6263.6	5992.7	5975.1	5939.9
22.5°	14311.4	13755.4	12442.8	10922.7	9131.5	7252.5	5904.7	5528.2	5524.7	5612.6	5633.8
25°	14526.0	13769.5	12108.5	10233.0	8019.6	5950.5	5222.0	5109.4	5197.4	5362.8	5383.9
27.5°	14800.5	13797.6	11703.9	9476.4	6837.2	5141.1	4845.5	4817.4	4922.9	5077.8	5070.7
30°	15205.2	13899.7	11274.6	8607.2	5623.2	4757.6	4616.8	4620.3	4662.5	4736.4	4747.0
32.5°	15616.9	14058.0	10855.8	7629.0	4926.5	4539.4	4476.0	4469.0	4469.0	4500.7	4507.7
35°	16007.5	14237.5	10401.9	6608.5	4588.6	4412.7	4370.5	4349.4	4338.8	4331.8	4321.2
37.5°	16225.7	14325.4	9958.5	5602.1	4409.2	4328.2	4286.0	4257.9	4219.2	4191.0	4184.0
40°	16130.6	14223.4	9444.7	4849.0	4300.1	4247.3	4198.0	4159.3	4106.6	4081.9	4067.8
42.5°	15813.9	13906.7	8885.2	4493.6	4212.1	4159.3	4099.5	4036.2	4001.0	3979.9	3976.4
45°	15479.6	13523.1	8209.6	4286.0	4127.7	4064.3	3994.0	3923.6	3884.9	3874.3	3870.8
47.5°	15469.1	13333.1	7491.7	4120.6	4025.6	3962.3	3874.3	3803.9	3761.7	3747.6	3733.6
50°	15933.6	13526.7	6682.4	3976.4	3920.1	3853.2	3754.7	3677.3	3624.5	3606.9	3603.4
52.5°	16897.8	14255.1	5957.5	3832.1	3779.3	3701.9	3620.9	3543.5	3480.2	3448.5	3445.0
55°	17939.4	15180.5	5507.1	3684.3	3613.9	3547.1	3473.2	3388.7	3318.3	3269.1	3262.0
57.5°	19016.1	16190.5	5369.8	3497.8	3445.0	3399.3	3311.3	3219.8	3138.9	3093.1	3082.6
60°	19902.9	17059.6	5626.7	3300.7	3272.6	3212.8	3131.8	3043.8	2987.5	2952.4	2945.3
62.5°	16662.0	13889.1	4542.9	3086.1	3086.1	3022.7	2931.2	2867.9	2829.2	2804.6	2797.5
65°	10574.3	8600.2	3100.2	2871.4	2867.9	2783.5	2706.0	2663.8	2646.2	2607.5	2600.5
67.5°	4606.2	3930.6	2649.7	2653.3	2639.2	2547.7	2470.3	2438.6	2403.4	2361.2	2357.7
70°	2389.3	2435.1	2371.7	2410.4	2385.8	2276.7	2202.8	2153.6	2079.7	2037.4	2041.0
72.5°	1928.4	1977.6	2048.0	2107.8	2055.0	1967.1	1850.9	1791.1	1696.1	1650.4	1653.9
75°	1470.9	1523.7	1590.5	1653.9	1611.7	1502.6	1428.7	1368.9	1259.8	1207.0	1217.5
77.5°	1013.4	1041.6	1122.5	1119.0	1104.9	1073.3	964.2	893.8	781.2	717.9	724.9
80°	629.9	647.5	686.2	703.8	696.7	654.5	566.5	513.8	446.9	408.2	411.7
82.5°	380.0	390.6	425.8	429.3	425.8	394.1	327.3	288.5	246.3	225.2	225.2
85°	193.5	200.6	221.7	221.7	200.6	168.9	151.3	133.7	109.1	98.5	98.5
87.5°	52.8	52.8	66.9	56.3	45.7	42.2	21.1	17.6	7.0	3.5	3.5
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)