

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: P643777

Luminaire Tested: GWS-SA6F-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-750-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43452.5 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

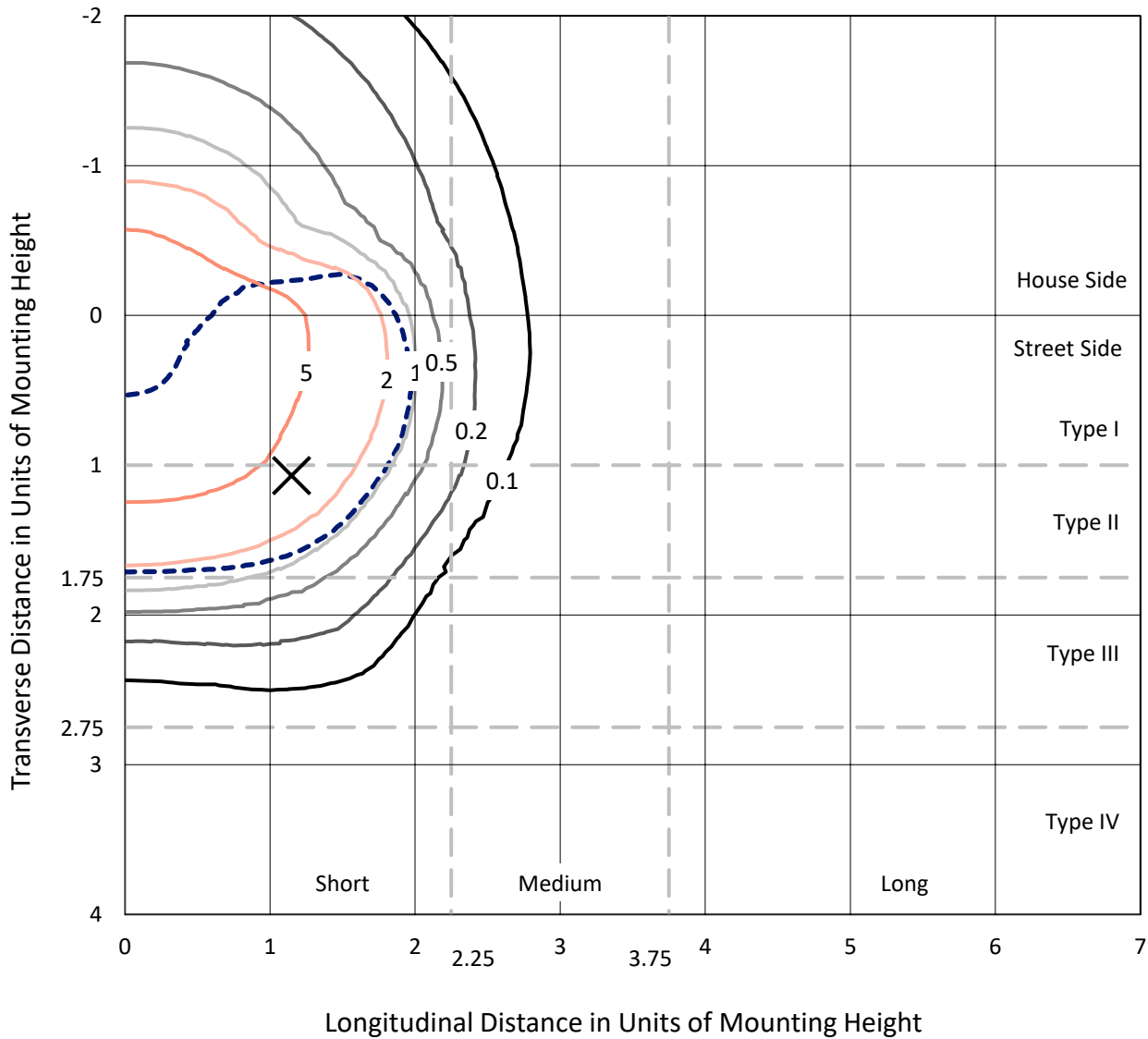
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

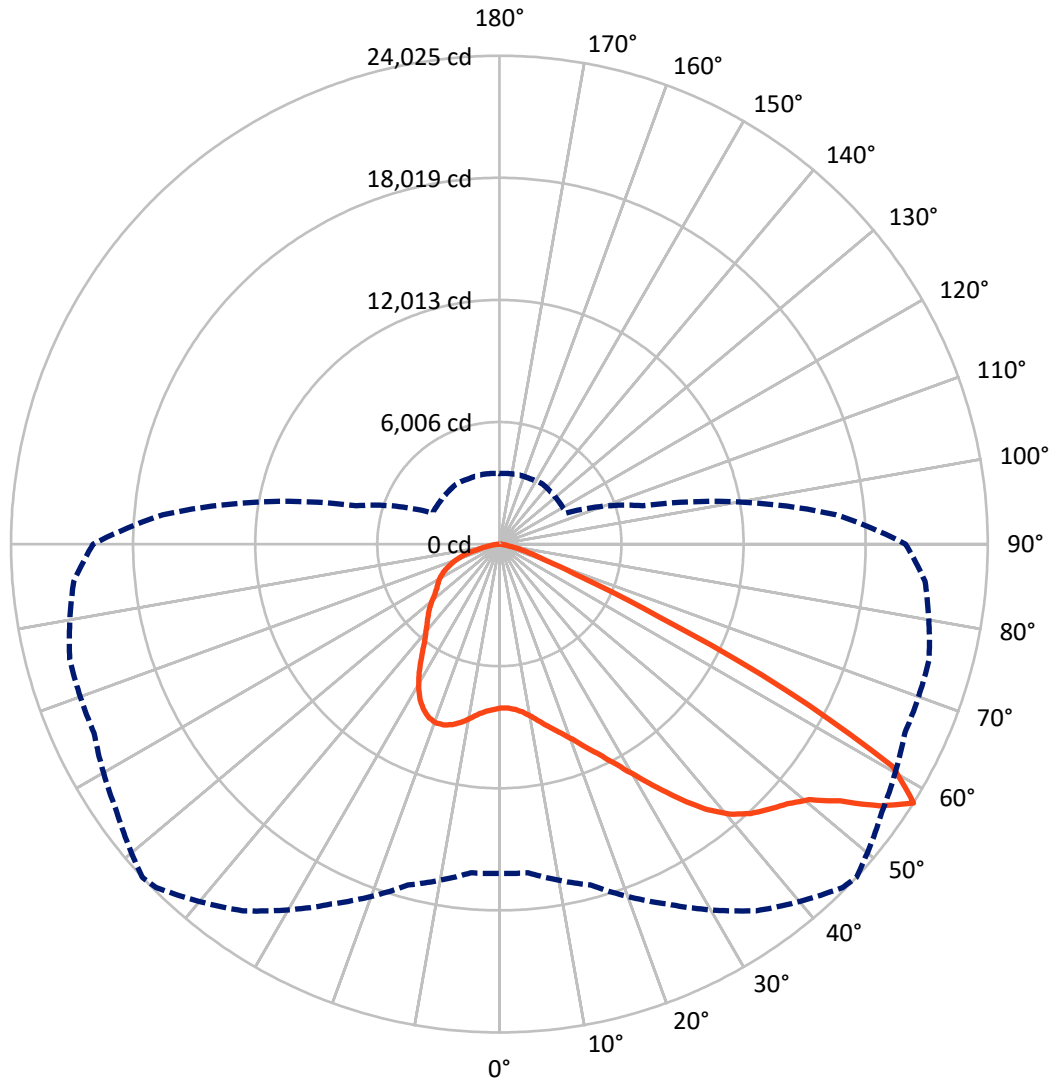
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13752.6	0.0	13752.6
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	29699.9	0.0	29699.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	43452.5	0.0	43452.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	794.8	1.8
10°-20°	2614.2	6.0
20°-30°	4707.1	10.8
30°-40°	7109.5	16.4
40°-50°	9573.8	22.0
50°-60°	11504.2	26.5
60°-70°	5602.8	12.9
70°-80°	1380.3	3.2
80°-90°	165.9	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°	43452.5	100.0
0°-180°	43452.5	100.0

Coefficient of Utilization



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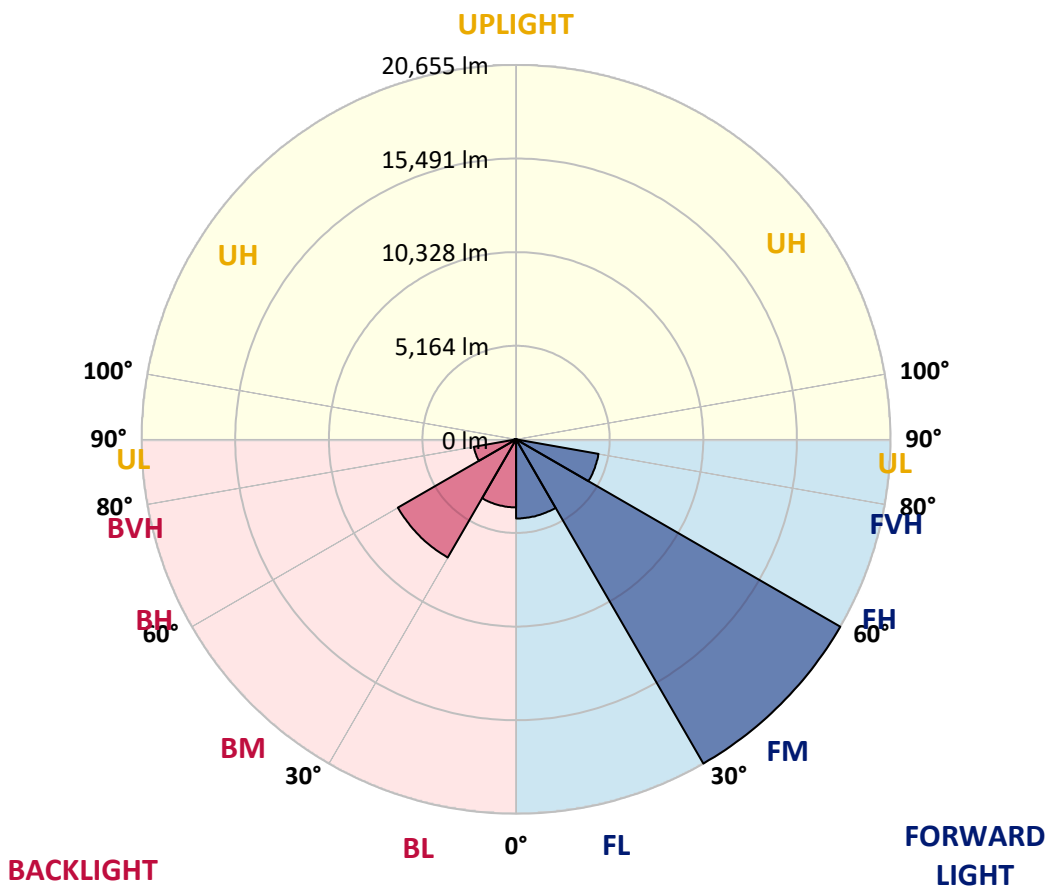
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4364.6	10.0			
FM (30°-60°)	20655.3	47.5			
FH (60°-80°)	4617.7	10.6			G2/5000
FVH (80°-90°)	62.3	0.1			G1/100
BL (0°-30°)	3751.5	8.6	B4/5000		
BM (30°-60°)	7532.2	17.3	B4/8500		
BH (60°-80°)	2365.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	103.5	0.2			G2/225
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°	47°	55°	65°	75°	85°
0°	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3
2.5°	8043.7	8040.1	8040.1	8062.0	8062.0	8069.3	8080.2	8091.2	8094.8	8076.6	8036.4
5°	8131.3	8131.3	8131.3	8149.6	8149.6	8156.9	8171.5	8175.1	8171.5	8142.3	8102.1
7.5°	8270.0	8270.0	8273.7	8295.6	8313.8	8324.8	8350.3	8346.6	8335.7	8288.3	8237.2
10°	8496.3	8507.2	8518.2	8543.7	8580.2	8605.8	8624.0	8624.0	8609.4	8536.4	8470.7
12.5°	8817.4	8832.0	8843.0	8864.9	8894.1	8937.9	8978.0	8978.0	8959.8	8868.5	8770.0
15°	9193.4	9208.0	9204.3	9211.6	9266.3	9328.4	9361.2	9383.1	9390.4	9262.7	9109.4
17.5°	9624.0	9638.6	9624.0	9602.1	9609.4	9708.0	9766.3	9846.6	9894.1	9722.5	9478.0
20°	10014.5	9999.9	9999.9	10014.5	10036.4	10156.9	10244.4	10375.8	10434.2	10226.2	9846.6
22.5°	10426.9	10459.8	10445.2	10445.2	10532.8	10733.5	10839.3	11010.9	11072.9	10802.8	10291.9
25°	10959.8	10989.0	10981.7	10989.0	11091.2	11375.8	11481.7	11799.2	11861.2	11474.4	10784.6
27.5°	11543.7	11591.1	11613.0	11605.7	11770.0	12142.2	12273.6	12715.2	12828.4	12226.2	11310.1
30°	12302.8	12353.9	12372.2	12364.9	12558.3	13065.6	13215.2	13718.9	13879.4	13116.7	11978.0
32.5°	13182.4	13233.5	13288.2	13310.1	13558.3	14076.5	14291.9	14813.7	15043.7	14145.9	12784.6
35°	14054.6	14098.4	14204.3	14375.8	14715.2	15244.4	15434.2	15948.8	16171.4	15215.2	13759.0
37.5°	15018.1	15047.3	15138.6	15375.8	15864.8	16368.5	16558.3	17051.0	17076.5	16248.0	14861.2
40°	16072.9	16072.9	16054.6	16288.2	16799.1	17306.4	17470.7	17755.3	17605.7	17043.7	15934.2
42.5°	16967.0	16952.4	16967.0	17186.0	17565.6	17978.0	18120.3	18065.5	17875.8	17653.1	16905.0
45°	17773.6	17784.5	17915.9	18083.8	18280.9	18525.4	18609.3	18299.1	18127.6	18142.2	17682.3
47.5°	18321.0	18332.0	18638.5	18919.6	19040.0	19116.6	19080.1	18649.5	18561.9	18726.1	18280.9
50°	18394.0	18452.4	18981.6	19558.2	19857.5	19868.5	19766.3	19240.7	19215.2	19401.3	18602.0
52.5°	18408.6	18467.0	19127.6	20167.7	20945.1	21109.3	20992.5	20445.1	20178.7	19992.5	18996.2
55°	18353.9	18419.6	19149.5	20576.5	22065.5	22722.4	22733.4	21959.7	21109.3	20985.2	20120.3
57.5°	16204.2	16229.8	17361.2	19536.3	22021.7	23883.0	24025.4	22974.3	22003.5	21886.7	21021.7
60°	11288.2	11390.4	12620.3	15492.6	18499.9	21780.8	22240.7	21934.1	21284.5	20434.1	18036.4
62.5°	5653.2	5740.8	6974.4	9689.7	12759.0	15350.2	15842.9	16167.8	16321.0	15408.6	12280.9
65°	2434.3	2500.0	3266.4	5062.0	7222.6	8474.4	8645.9	9036.4	9992.6	8916.0	6616.7
67.5°	1627.7	1671.5	2062.0	3087.6	4255.4	4335.7	4310.2	4394.1	4602.2	3799.2	2989.0
70°	1248.2	1284.7	1547.4	2262.8	3058.4	2616.8	2478.1	2248.2	2441.6	2489.0	2423.3
72.5°	905.1	934.3	1131.4	1543.8	1916.0	1671.5	1649.6	1766.4	2029.2	2102.2	2062.0
75°	583.9	598.5	719.0	846.7	989.0	1073.0	1116.8	1328.5	1594.9	1649.6	1602.2
77.5°	390.5	401.5	470.8	543.8	562.0	565.7	580.3	675.2	857.7	959.8	948.9
80°	204.4	204.4	229.9	229.9	262.8	313.9	328.5	390.5	474.4	525.5	529.2
82.5°	80.3	83.9	98.5	109.5	131.4	160.6	171.5	204.4	248.2	284.7	317.5
85°	32.8	36.5	40.1	47.4	58.4	73.0	76.6	87.6	116.8	146.0	164.2
87.5°	0.0	0.0	3.6	3.6	7.3	10.9	10.9	14.6	18.2	32.8	43.8
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°	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3	8058.3
2.5°	8083.9	8036.4	8083.9	8098.5	8138.6	8153.2	8127.7	8124.0	8124.0	8087.5	8076.6
5°	8138.6	8094.8	8142.3	8164.2	8222.6	8259.1	8266.4	8295.6	8313.8	8299.2	8295.6
7.5°	8273.7	8218.9	8270.0	8302.9	8379.5	8437.9	8463.4	8529.1	8576.6	8569.3	8565.6
10°	8510.9	8437.9	8496.3	8551.0	8635.0	8704.3	8708.0	8744.5	8791.9	8777.3	8770.0
12.5°	8784.6	8715.3	8781.0	8835.7	8934.2	8963.4	8916.0	8901.4	8908.7	8890.4	8875.8
15°	9120.4	9021.8	9080.2	9142.3	9197.0	9164.2	9062.0	9021.8	9018.2	8992.6	8978.0
17.5°	9456.1	9332.0	9375.8	9408.7	9383.1	9280.9	9153.2	9083.9	9051.0	8999.9	8985.3
20°	9788.2	9631.3	9624.0	9598.5	9481.7	9295.5	9124.0	8985.3	8901.4	8832.0	8806.5
22.5°	10167.8	9948.8	9839.3	9722.5	9467.1	9164.2	8905.0	8708.0	8572.9	8485.3	8456.1
25°	10576.6	10266.3	10040.1	9806.5	9321.1	8883.1	8521.8	8251.8	8091.2	7996.3	7963.4
27.5°	10981.7	10554.7	10215.2	9817.4	9029.1	8478.0	7992.6	7627.7	7467.1	7390.5	7364.9
30°	11529.1	10937.9	10423.3	9675.1	8645.9	7916.0	7310.2	6941.5	6835.7	6781.0	6759.1
32.5°	12160.5	11423.3	10700.6	9375.8	8156.9	7259.1	6620.4	6364.9	6291.9	6186.1	6182.4
35°	12992.6	12116.7	10963.4	8934.2	7540.1	6554.7	6091.2	5908.7	5777.3	5609.4	5594.8
37.5°	13963.4	12981.6	11105.7	8372.2	6821.1	5974.4	5697.0	5492.7	5281.0	5058.4	5029.2
40°	14967.0	13992.6	11116.7	7708.0	6116.7	5591.2	5357.6	5091.2	4828.4	4580.3	4547.4
42.5°	16021.8	14934.2	10923.3	6941.5	5540.1	5259.1	5021.9	4686.1	4390.5	4222.6	4204.3
45°	16963.4	15693.3	10485.3	6135.0	5113.1	4981.7	4678.8	4317.5	4160.6	4040.1	4014.6
47.5°	17704.2	16196.9	9894.1	5412.4	4766.4	4697.0	4302.9	4116.8	3996.3	3886.8	3861.3
50°	18069.2	16310.1	9124.0	4824.8	4445.2	4361.3	4091.2	3948.9	3868.6	3781.0	3759.1
52.5°	18521.7	16437.8	8459.8	4332.1	4131.4	4018.2	3916.0	3802.9	3744.5	3689.8	3671.5
55°	19561.9	16919.6	8109.4	3937.9	3832.1	3781.0	3766.4	3671.5	3653.3	3616.8	3583.9
57.5°	19985.2	16609.4	7281.0	3616.8	3594.9	3602.2	3638.7	3551.1	3532.8	3489.0	3467.1
60°	16072.9	12554.6	4930.6	3339.4	3397.8	3445.2	3481.7	3394.1	3368.6	3361.3	3332.1
62.5°	10299.2	7722.6	3441.6	3080.3	3167.9	3226.3	3248.1	3164.2	3146.0	3204.4	3208.0
65°	5361.3	4208.0	2791.9	2802.9	2875.9	2963.5	3007.3	2978.1	2970.8	3032.8	3036.5
67.5°	2737.2	2573.0	2434.3	2474.4	2532.8	2646.0	2748.2	2875.9	2919.7	2927.0	2930.6
70°	2332.1	2259.1	2189.8	2215.3	2277.4	2339.4	2437.9	2500.0	2427.0	2408.7	2401.4
72.5°	1985.4	1930.6	1897.8	1927.0	1959.8	1948.9	1919.7	1948.9	1959.8	1963.5	1967.1
75°	1543.8	1503.6	1478.1	1481.7	1481.7	1441.6	1386.9	1354.0	1317.5	1288.3	1288.3
77.5°	945.2	952.5	978.1	974.4	970.8	956.2	901.5	872.3	784.7	759.1	759.1
80°	540.1	551.1	576.6	583.9	583.9	565.7	510.9	478.1	438.0	419.7	416.1
82.5°	328.5	343.1	357.7	365.0	368.6	346.7	299.3	273.7	251.8	233.6	233.6
85°	171.5	178.8	193.4	197.1	186.1	164.2	138.7	127.7	105.8	102.2	102.2
87.5°	47.4	51.1	58.4	47.4	43.8	32.8	18.2	14.6	7.3	3.6	3.6
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)