

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: P643749

Luminaire Tested: GWS-SA6F-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643749  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6F-750-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

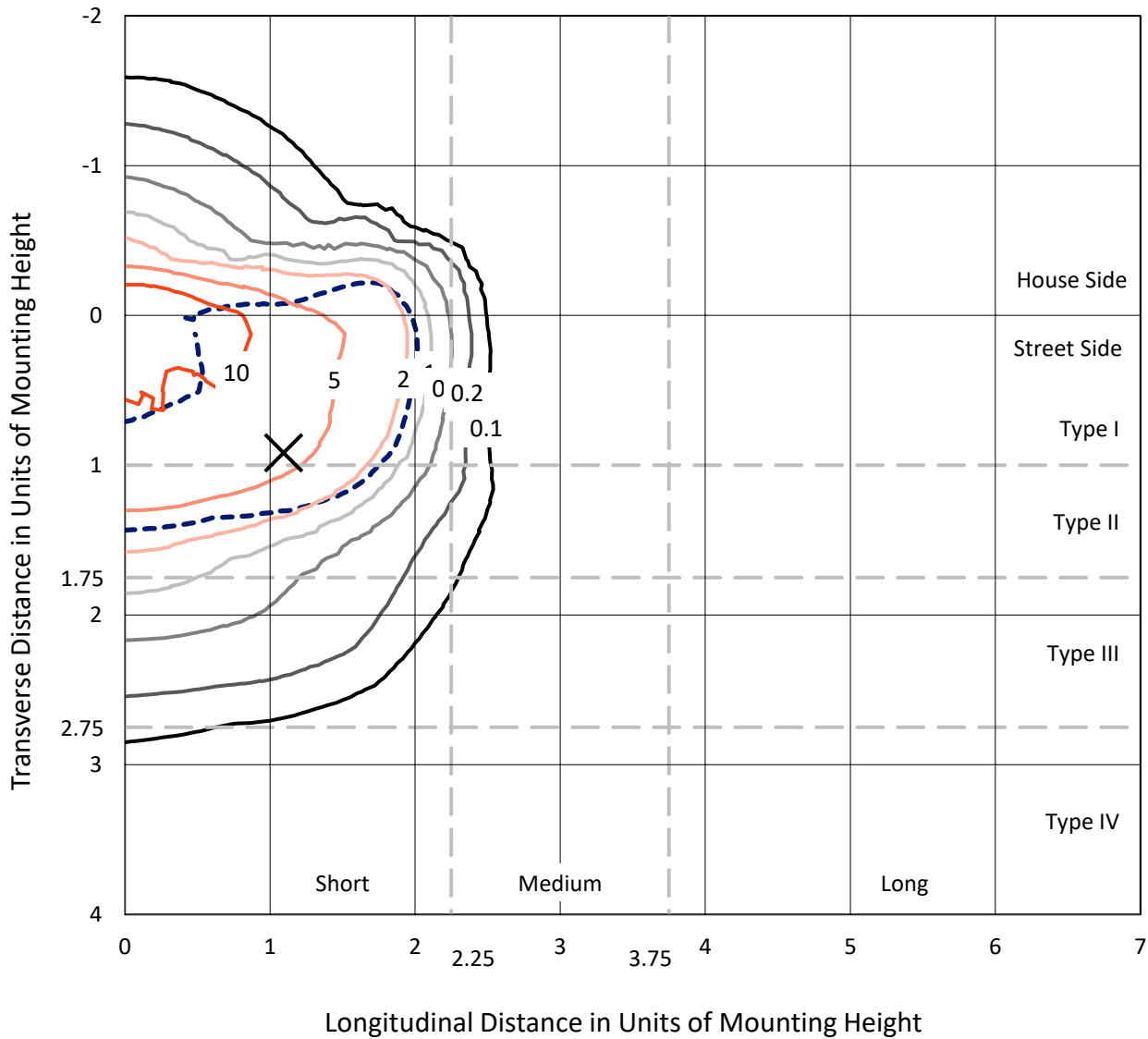
Lumens per Lamp: N/A  
Luminaire Lumens: 29894.1 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

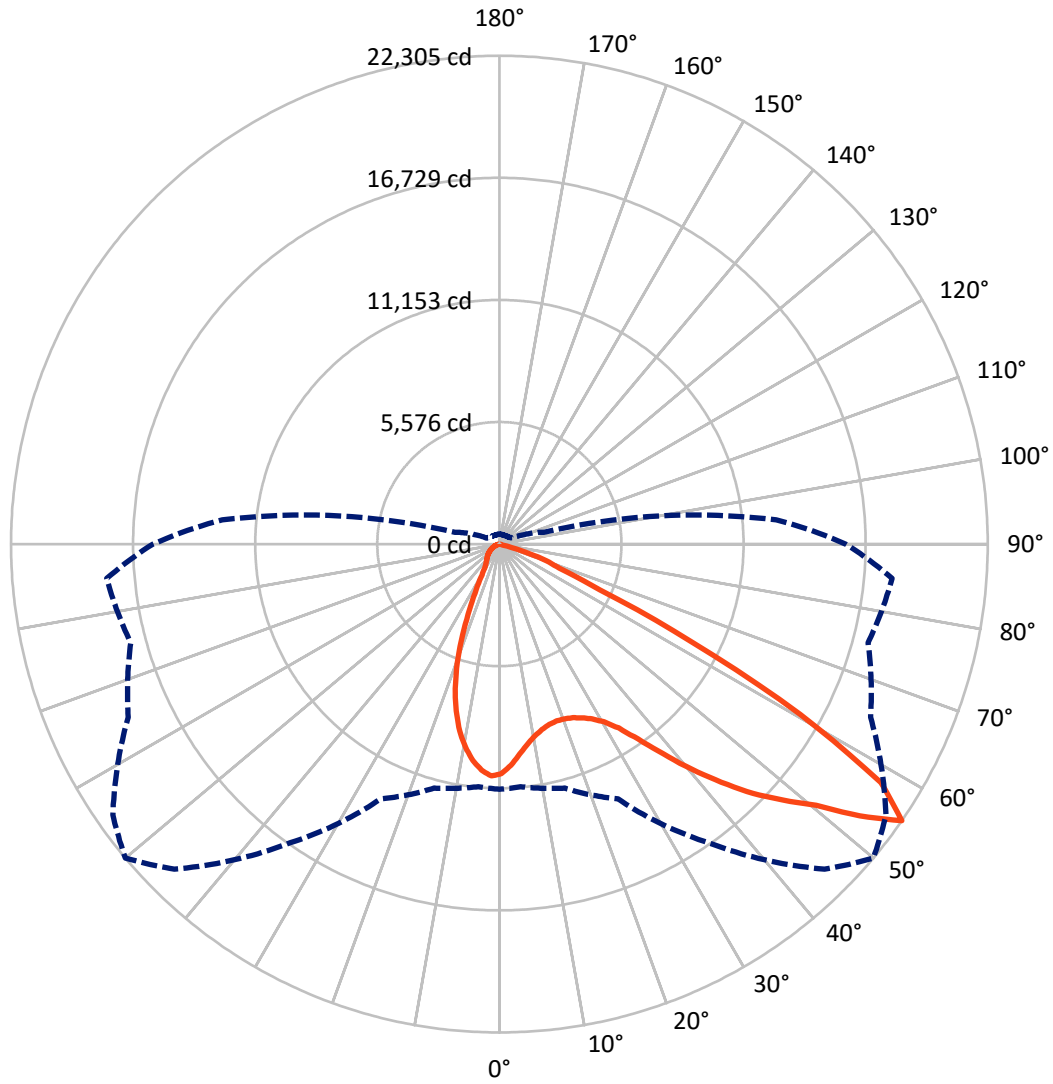
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5890.5	0.0	5890.5
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	24003.6	0.0	24003.6
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	29894.1	0.0	29894.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	921.1	3.1
10°-20°	2266.7	7.6
20°-30°	3197.3	10.7
30°-40°	4731.3	15.8
40°-50°	6825.7	22.8
50°-60°	8051.5	26.9
60°-70°	3591.6	12.0
70°-80°	308.8	1.0
80°-90°	0.1	0.0
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°	29894.1	100.0
0°-180°	29894.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P643749

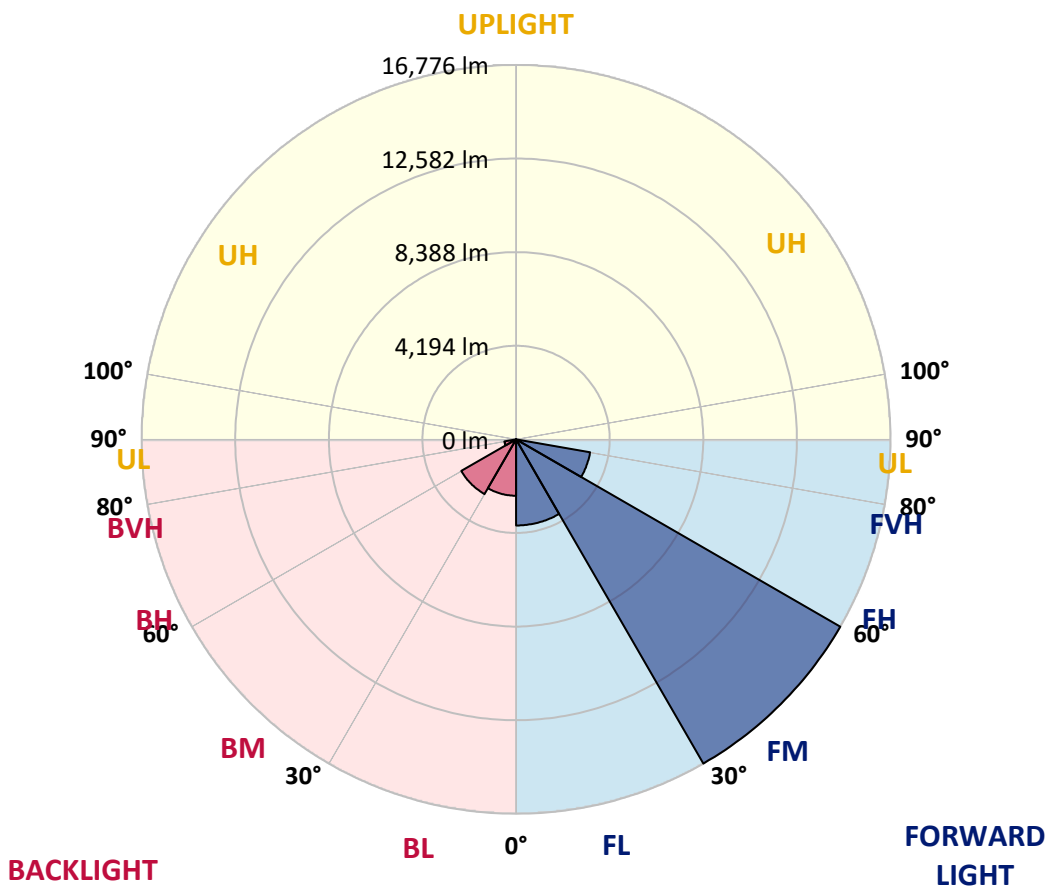
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3859.4	12.9			
FM (30°-60°)	16775.6	56.1			
FH (60°-80°)	3368.5	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2525.6	8.4	B4/5000		
BM (30°-60°)	2832.9	9.5	B3/5000		
BH (60°-80°)	531.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5
2.5°	9744.0	9751.3	9755.0	9853.5	9890.0	10036.0	10112.6	10152.8	10258.6	10382.7	10484.9
5°	9090.8	9079.8	9098.1	9222.2	9302.4	9517.8	9634.5	9714.8	9948.4	10240.4	10484.9
7.5°	8521.5	8543.4	8565.3	8700.3	8820.7	9054.3	9222.2	9342.6	9667.4	10101.7	10514.1
10°	8120.0	8120.0	8152.9	8306.1	8448.5	8736.8	8904.7	9057.9	9444.8	9977.6	10546.9
12.5°	7824.4	7828.1	7868.2	8043.4	8207.6	8506.9	8682.0	8831.7	9258.6	9853.5	10554.2
15°	7685.7	7674.8	7707.6	7893.8	8076.2	8357.2	8539.7	8685.7	9127.3	9784.2	10590.7
17.5°	7649.2	7641.9	7667.5	7850.0	8036.1	8309.8	8488.6	8634.6	9109.0	9806.1	10700.2
20°	7755.1	7740.5	7729.5	7886.5	8061.6	8331.7	8517.8	8682.0	9196.6	9926.5	10868.1
22.5°	8006.9	8006.9	7981.3	8058.0	8174.8	8419.3	8612.7	8828.0	9426.5	10167.4	11116.2
25°	8470.4	8433.9	8386.4	8419.3	8404.7	8558.0	8787.9	9087.1	9860.8	10565.2	11419.1
27.5°	8999.5	9032.4	8952.1	8955.7	8828.0	8773.3	9039.7	9492.2	10506.8	11127.2	11868.0
30°	9718.5	9692.9	9696.6	9685.6	9390.0	9130.9	9419.2	10021.4	11320.6	11984.8	12451.9
32.5°	10280.5	10317.0	10437.4	10506.8	10119.9	9703.9	10010.4	10740.3	12247.5	12962.8	13167.2
35°	10875.4	10941.0	11185.6	11411.8	11087.0	10608.9	10937.4	11692.8	13119.8	13929.9	13988.3
37.5°	11503.1	11634.4	11926.4	12324.2	12273.1	11849.8	12149.0	12813.2	13805.9	14513.9	14667.1
40°	12222.0	12349.7	12827.8	13400.8	13521.2	13426.3	13524.9	13911.7	14258.4	14539.4	14959.1
42.5°	13010.3	13185.5	13791.3	14557.6	15010.2	15094.1	14864.2	14824.1	14455.5	14247.4	14897.0
45°	13940.9	14145.3	14831.4	15824.0	16542.9	16656.1	16258.3	15743.7	14579.5	14032.1	14710.9
47.5°	14984.6	15178.1	15860.5	17053.9	18123.2	18167.0	17473.6	16645.1	14948.1	14280.3	14853.3
50°	15335.0	15455.4	16046.6	17448.0	19418.7	19754.5	18750.9	17659.7	15689.0	15010.2	15546.6
52.5°	14130.7	14178.1	14692.7	16108.7	19156.0	21312.8	20615.7	19174.2	17006.4	16123.3	16615.9
55°	11196.5	11119.9	11535.9	12835.1	16648.8	20995.3	22305.4	21553.6	18703.4	17429.8	18006.4
57.5°	7831.7	7740.5	7645.6	8525.1	12422.7	17798.4	20553.7	21885.7	20320.1	18725.3	19506.3
60°	6437.6	6350.0	5890.2	5485.1	7510.6	12780.4	15787.5	18294.7	20188.7	18659.6	19458.9
62.5°	5561.8	5510.7	5324.5	4773.5	4419.5	7295.2	9886.4	12287.7	15491.9	14652.5	14696.3
65°	4368.4	4353.8	4481.5	4539.9	3908.6	4036.3	5043.5	6386.5	8375.5	7897.4	7488.7
67.5°	2985.2	2952.4	3193.3	3926.8	3758.9	3186.0	2952.4	2977.9	3623.9	2215.2	1759.0
70°	1897.7	1821.1	1824.7	2434.2	3058.2	2514.5	2277.3	2003.5	1802.8	328.5	372.2
72.5°	1215.3	1167.8	1003.6	1098.5	1416.0	1226.2	1237.2	1065.6	711.6	175.2	204.4
75°	510.9	470.8	361.3	288.3	284.7	178.8	156.9	146.0	98.5	98.5	105.8
77.5°	3.6	0.0	0.0	3.6	7.3	3.6	3.6	7.3	14.6	21.9	25.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5	10488.5
2.5°	10546.9	10459.3	10557.9	10594.3	10590.7	10594.3	10488.5	10415.5	10411.9	10320.6	10276.8
5°	10587.0	10517.7	10590.7	10543.3	10430.1	10287.8	10098.0	9933.8	9860.8	9755.0	9703.9
7.5°	10663.7	10590.7	10579.7	10390.0	10109.0	9809.7	9474.0	9174.7	9014.1	8820.7	8831.7
10°	10718.4	10634.5	10492.2	10105.3	9638.2	9160.1	8660.1	8214.9	7933.9	7674.8	7631.0
12.5°	10740.3	10616.2	10284.1	9700.2	9043.3	8419.3	7685.7	7050.7	6612.8	6273.4	6226.0
15°	10780.5	10579.7	10017.7	9211.2	8309.8	7426.6	6492.4	5623.8	5043.5	4653.0	4685.9
17.5°	10842.5	10539.6	9718.5	8663.8	7521.5	6273.4	5010.7	4014.4	3481.6	3255.3	3259.0
20°	10930.1	10492.2	9390.0	8061.6	6576.3	4970.5	3503.5	2751.7	2602.1	2594.8	2583.8
22.5°	11046.9	10444.7	9039.7	7401.1	5455.9	3481.6	2332.0	2098.4	2160.5	2280.9	2302.8
25°	11185.6	10386.3	8649.2	6656.6	4233.4	2284.6	1748.1	1711.6	1861.2	2021.8	2058.3
27.5°	11400.9	10357.1	8204.0	5809.9	2970.7	1638.6	1430.6	1452.5	1587.5	1722.5	1755.4
30°	11765.8	10411.9	7718.6	4861.1	1908.7	1306.5	1240.8	1273.7	1346.6	1416.0	1445.2
32.5°	12262.1	10572.4	7247.8	3824.6	1361.2	1135.0	1120.4	1138.6	1167.8	1208.0	1218.9
35°	12842.4	10849.8	6762.4	2737.1	1124.0	1036.4	1021.8	1021.8	1036.4	1043.7	1047.4
37.5°	13320.5	11141.8	6306.2	1821.1	1007.2	959.8	937.9	927.0	923.3	930.6	934.3
40°	13528.5	11262.2	5809.9	1324.7	923.3	890.5	857.6	824.8	824.8	850.3	854.0
42.5°	13382.5	11127.2	5237.0	1094.8	864.9	817.5	766.4	737.2	751.8	777.3	784.6
45°	13072.3	10795.1	4605.6	967.1	806.5	744.5	686.1	667.8	682.4	715.3	722.6
47.5°	13021.2	10576.1	3850.2	883.2	744.5	682.4	620.4	602.2	620.4	646.0	653.3
50°	13528.5	10765.9	3010.8	810.2	686.1	616.8	565.7	547.4	558.4	573.0	580.3
52.5°	14455.5	11470.2	2430.5	740.8	616.8	551.1	518.2	496.3	496.3	510.9	514.6
55°	15824.0	12700.1	2098.4	660.6	536.5	500.0	470.8	448.9	448.9	456.2	459.8
57.5°	17400.6	14189.1	2175.1	554.7	470.8	452.5	427.0	408.7	416.0	416.0	416.0
60°	17181.6	14079.6	2328.3	467.1	416.0	408.7	386.8	379.5	397.8	383.2	375.9
62.5°	12656.3	9725.8	1218.9	383.2	357.6	350.3	335.7	350.3	375.9	335.7	321.2
65°	6145.7	4707.8	489.0	313.9	302.9	295.6	288.3	310.2	324.8	262.8	248.2
67.5°	1445.2	1175.1	317.5	266.4	251.8	237.2	244.5	248.2	237.2	178.8	171.5
70°	375.9	368.6	248.2	222.6	200.7	186.1	186.1	182.5	156.9	113.1	105.8
72.5°	204.4	200.7	178.8	167.9	138.7	124.1	127.7	113.1	87.6	65.7	62.0
75°	102.2	109.5	102.2	94.9	76.6	69.3	69.3	62.0	43.8	25.5	25.5
77.5°	21.9	25.5	25.5	21.9	18.2	14.6	14.6	18.2	7.3	0.0	0.0
80°	3.6	3.6	3.6	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)