

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: P641274

Luminaire Tested: GWS-SA5F-750-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641274  
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-SA5F-750-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

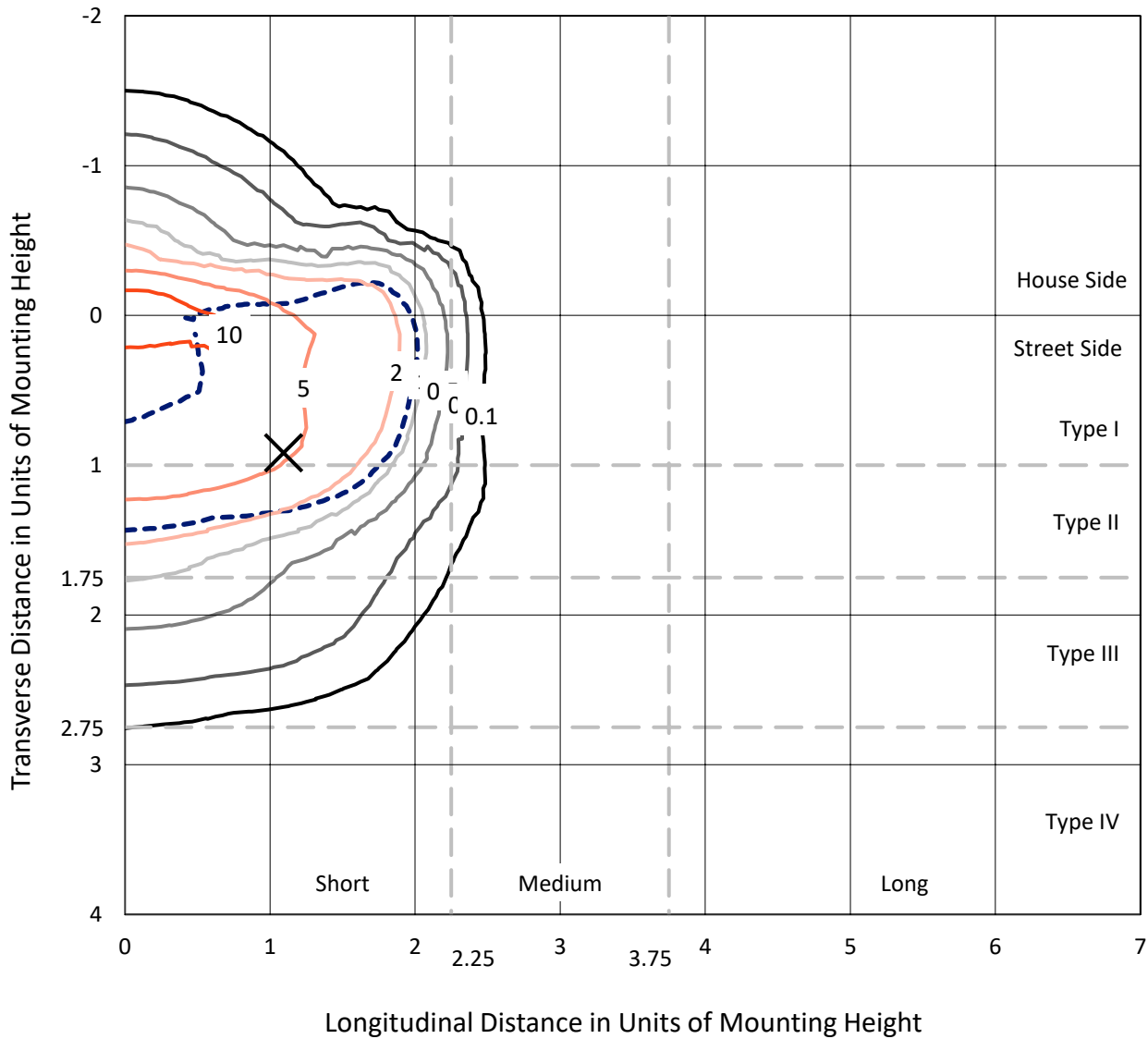
Lumens per Lamp: N/A  
Luminaire Lumens: 25070 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

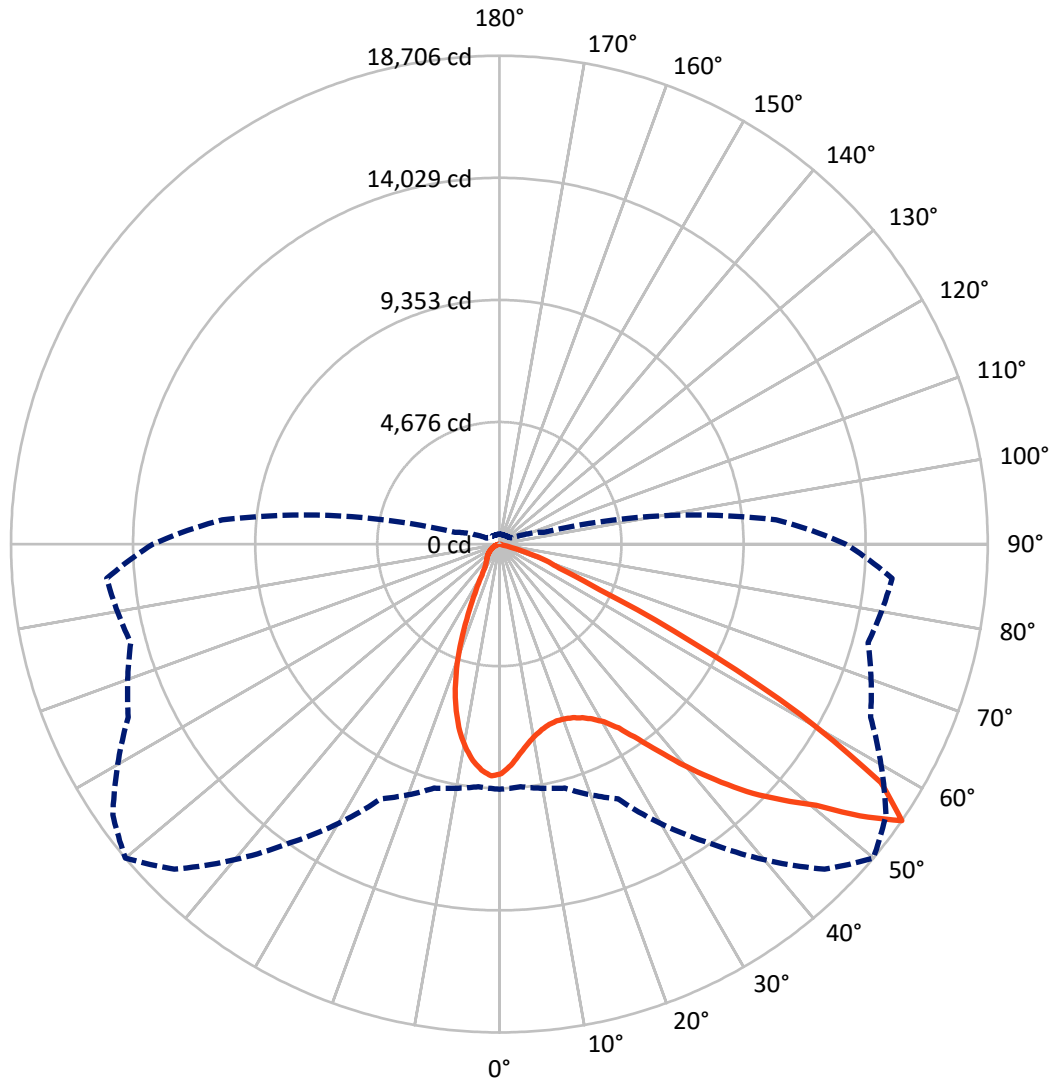
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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	4940.0	0.0	4940.0
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	20130.0	0.0	20130.0
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	25070.0	0.0	25070.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	772.5	3.1
10°-20°	1900.9	7.6
20°-30°	2681.3	10.7
30°-40°	3967.8	15.8
40°-50°	5724.2	22.8
50°-60°	6752.2	26.9
60°-70°	3012.0	12.0
70°-80°	258.9	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°	25070.0	100.0
0°-180°	25070.0	100.0

**Coefficient of Utilization**



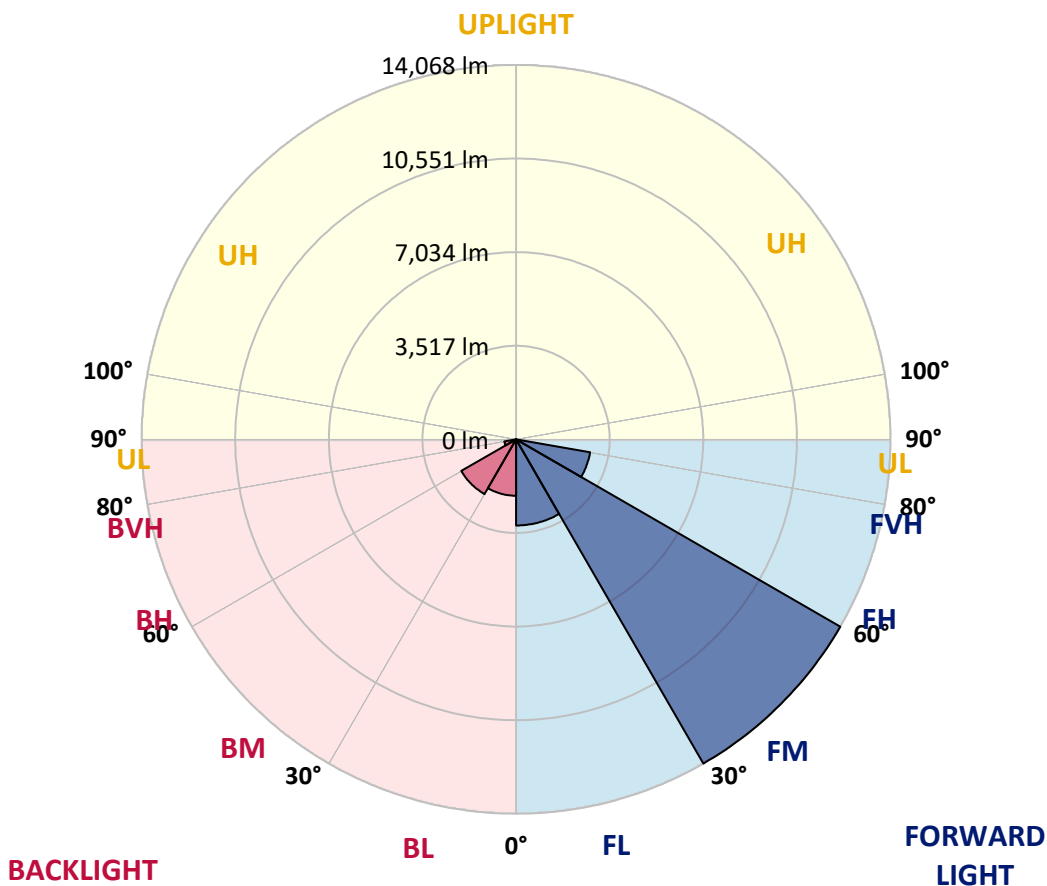
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3236.6	12.9			
FM (30°-60°)	14068.5	56.1			
FH (60°-80°)	2824.9	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2118.1	8.4	B3/2500		
BM (30°-60°)	2375.8	9.5	B2/2500		
BH (60°-80°)	446.0	1.8	B1/500		G1/500
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: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9
2.5°	8171.6	8177.7	8180.8	8263.4	8294.0	8416.4	8480.7	8514.4	8603.1	8707.2	8792.9
5°	7623.8	7614.6	7629.9	7733.9	7801.3	7981.9	8079.8	8147.1	8343.0	8587.8	8792.9
7.5°	7146.3	7164.7	7183.1	7296.3	7397.3	7593.2	7733.9	7834.9	8107.3	8471.5	8817.4
10°	6809.7	6809.7	6837.2	6965.8	7085.1	7326.9	7467.7	7596.2	7920.6	8367.5	8844.9
12.5°	6561.8	6564.8	6598.5	6745.4	6883.1	7134.1	7281.0	7406.5	7764.6	8263.4	8851.0
15°	6445.5	6436.3	6463.8	6619.9	6772.9	7008.6	7161.6	7284.1	7654.4	8205.3	8881.6
17.5°	6414.9	6408.7	6430.2	6583.2	6739.3	6968.8	7118.8	7241.2	7639.1	8223.6	8973.5
20°	6503.6	6491.4	6482.2	6613.8	6760.7	6987.2	7143.3	7281.0	7712.5	8324.6	9114.2
22.5°	6714.8	6714.8	6693.4	6757.6	6855.6	7060.6	7222.8	7403.4	7905.3	8526.6	9322.4
25°	7103.5	7072.9	7033.1	7060.6	7048.4	7176.9	7369.7	7620.7	8269.5	8860.2	9576.4
27.5°	7547.3	7574.8	7507.5	7510.5	7403.4	7357.5	7580.9	7960.4	8811.3	9331.5	9952.8
30°	8150.2	8128.8	8131.8	8122.6	7874.7	7657.4	7899.2	8404.2	9493.7	10050.8	10442.5
32.5°	8621.5	8652.1	8753.1	8811.3	8486.8	8137.9	8395.0	9007.1	10271.1	10871.0	11042.4
35°	9120.4	9175.5	9380.5	9570.3	9297.9	8896.9	9172.4	9805.9	11002.6	11682.0	11731.0
37.5°	9646.8	9757.0	10001.8	10335.4	10292.5	9937.5	10188.5	10745.5	11578.0	12171.7	12300.3
40°	10249.7	10356.8	10757.7	11238.2	11339.2	11259.7	11342.3	11666.7	11957.5	12193.1	12545.1
42.5°	10910.8	11057.7	11565.7	12208.4	12587.9	12658.3	12465.5	12431.9	12122.7	11948.3	12493.1
45°	11691.2	11862.6	12438.0	13270.4	13873.4	13968.2	13634.6	13203.1	12226.8	11767.7	12337.0
47.5°	12566.5	12728.7	13301.0	14301.8	15198.6	15235.3	14653.8	13959.1	12535.9	11975.8	12456.3
50°	12860.3	12961.3	13457.1	14632.4	16285.1	16566.6	15725.0	14809.9	13157.2	12587.9	13037.8
52.5°	11850.4	11890.1	12321.7	13509.2	16064.7	17873.5	17288.9	16080.0	14262.0	13521.4	13934.6
55°	9389.7	9325.4	9674.3	10763.9	13962.1	17607.2	18705.9	18075.5	15685.2	14617.1	15100.6
57.5°	6567.9	6491.4	6411.8	7149.4	10418.0	14926.2	17236.9	18354.0	17041.0	15703.6	16358.5
60°	5398.8	5325.3	4939.7	4600.0	6298.6	10718.0	13239.8	15342.4	16930.8	15648.5	16318.7
62.5°	4664.2	4621.4	4465.3	4003.2	3706.3	6118.0	8291.0	10304.8	12991.9	12288.0	12324.7
65°	3663.4	3651.2	3758.3	3807.3	3277.8	3384.9	4229.6	5355.9	7023.9	6623.0	6280.2
67.5°	2503.5	2476.0	2678.0	3293.1	3152.3	2671.8	2476.0	2497.4	3039.1	1857.7	1475.2
70°	1591.5	1527.2	1530.3	2041.4	2564.7	2108.7	1909.8	1680.2	1511.9	275.4	312.2
72.5°	1019.2	979.4	841.6	921.2	1187.5	1028.3	1037.5	893.7	596.8	146.9	171.4
75°	428.5	394.8	303.0	241.8	238.7	150.0	131.6	122.4	82.6	82.6	88.8
77.5°	3.1	0.0	0.0	3.1	6.1	3.1	3.1	6.1	12.2	18.4	21.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
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°	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9	8795.9
2.5°	8844.9	8771.5	8854.1	8884.7	8881.6	8884.7	8795.9	8734.7	8731.7	8655.2	8618.4
5°	8878.6	8820.4	8881.6	8841.9	8747.0	8627.6	8468.5	8330.8	8269.5	8180.8	8137.9
7.5°	8942.9	8881.6	8872.5	8713.3	8477.7	8226.7	7945.1	7694.2	7559.5	7397.3	7406.5
10°	8988.8	8918.4	8799.0	8474.6	8082.8	7681.9	7262.6	6889.2	6653.6	6436.3	6399.6
12.5°	9007.1	8903.1	8624.6	8134.9	7584.0	7060.6	6445.5	5912.9	5545.7	5261.0	5221.3
15°	9040.8	8872.5	8401.1	7724.8	6968.8	6228.2	5444.7	4716.3	4229.6	3902.2	3929.7
17.5°	9092.8	8838.8	8150.2	7265.7	6307.7	5261.0	4202.1	3366.6	2919.7	2730.0	2733.0
20°	9166.3	8799.0	7874.7	6760.7	5515.1	4168.4	2938.1	2307.6	2182.2	2176.0	2166.9
22.5°	9264.2	8759.2	7580.9	6206.7	4575.5	2919.7	1955.7	1759.8	1811.8	1912.8	1931.2
25°	9380.5	8710.3	7253.4	5582.4	3550.2	1915.9	1466.0	1435.4	1560.9	1695.5	1726.1
27.5°	9561.1	8685.8	6880.1	4872.4	2491.3	1374.2	1199.7	1218.1	1331.3	1444.6	1472.1
30°	9867.1	8731.7	6473.0	4076.6	1600.7	1095.7	1040.6	1068.1	1129.3	1187.5	1212.0
32.5°	10283.4	8866.3	6078.2	3207.4	1141.6	951.8	939.6	954.9	979.4	1013.0	1022.2
35°	10770.0	9098.9	5671.2	2295.4	942.6	869.2	856.9	856.9	869.2	875.3	878.4
37.5°	11170.9	9343.8	5288.6	1527.2	844.7	804.9	786.6	777.4	774.3	780.4	783.5
40°	11345.4	9444.8	4872.4	1111.0	774.3	746.8	719.2	691.7	691.7	713.1	716.2
42.5°	11222.9	9331.5	4391.9	918.2	725.3	685.6	642.7	618.2	630.5	651.9	658.0
45°	10962.8	9053.0	3862.4	811.0	676.4	624.3	575.4	560.1	572.3	599.9	606.0
47.5°	10920.0	8869.4	3228.9	740.6	624.3	572.3	520.3	505.0	520.3	541.7	547.8
50°	11345.4	9028.5	2524.9	679.4	575.4	517.2	474.4	459.1	468.3	480.5	486.6
52.5°	12122.7	9619.2	2038.3	621.3	517.2	462.1	434.6	416.2	416.2	428.5	431.5
55°	13270.4	10650.6	1759.8	554.0	449.9	419.3	394.8	376.4	376.4	382.6	385.6
57.5°	14592.6	11899.3	1824.1	465.2	394.8	379.5	358.1	342.8	348.9	348.9	348.9
60°	14409.0	11807.5	1952.6	391.7	348.9	342.8	324.4	318.3	333.6	321.4	315.2
62.5°	10613.9	8156.3	1022.2	321.4	299.9	293.8	281.6	293.8	315.2	281.6	269.3
65°	5153.9	3948.1	410.1	263.2	254.0	247.9	241.8	260.1	272.4	220.4	208.1
67.5°	1212.0	985.5	266.3	223.4	211.2	198.9	205.1	208.1	198.9	150.0	143.8
70°	315.2	309.1	208.1	186.7	168.3	156.1	156.1	153.0	131.6	94.9	88.8
72.5°	171.4	168.3	150.0	140.8	116.3	104.1	107.1	94.9	73.5	55.1	52.0
75°	85.7	91.8	85.7	79.6	64.3	58.1	58.1	52.0	36.7	21.4	21.4
77.5°	18.4	21.4	21.4	18.4	15.3	12.2	12.2	15.3	6.1	0.0	0.0
80°	3.1	3.1	3.1	3.1	3.1	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)