

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: P643922

Luminaire Tested: GWS-SA6F-830-U-SL4-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643922  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGF-830-U-SL4-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

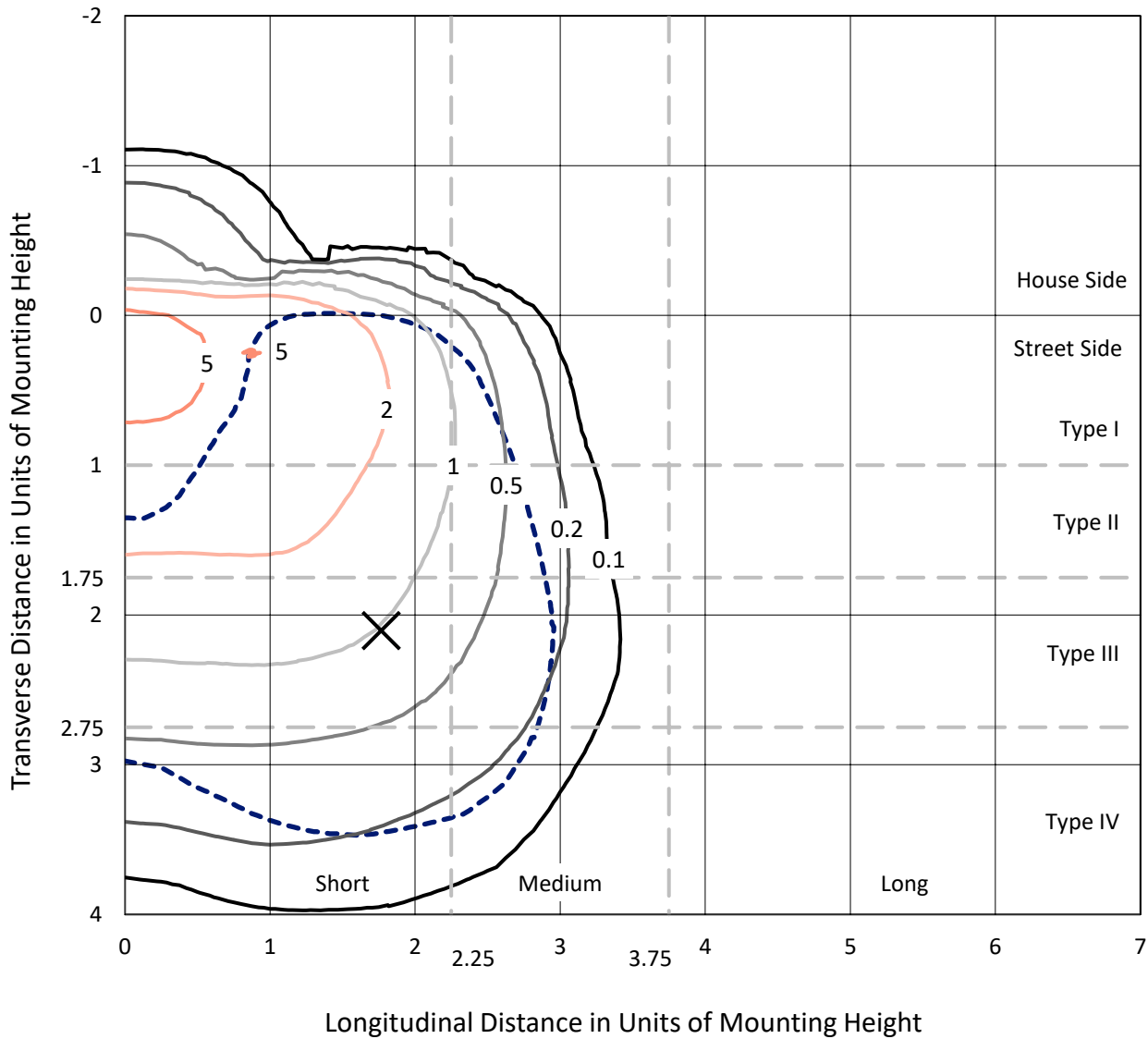
Lumens per Lamp: N/A  
Luminaire Lumens: 31151.5 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

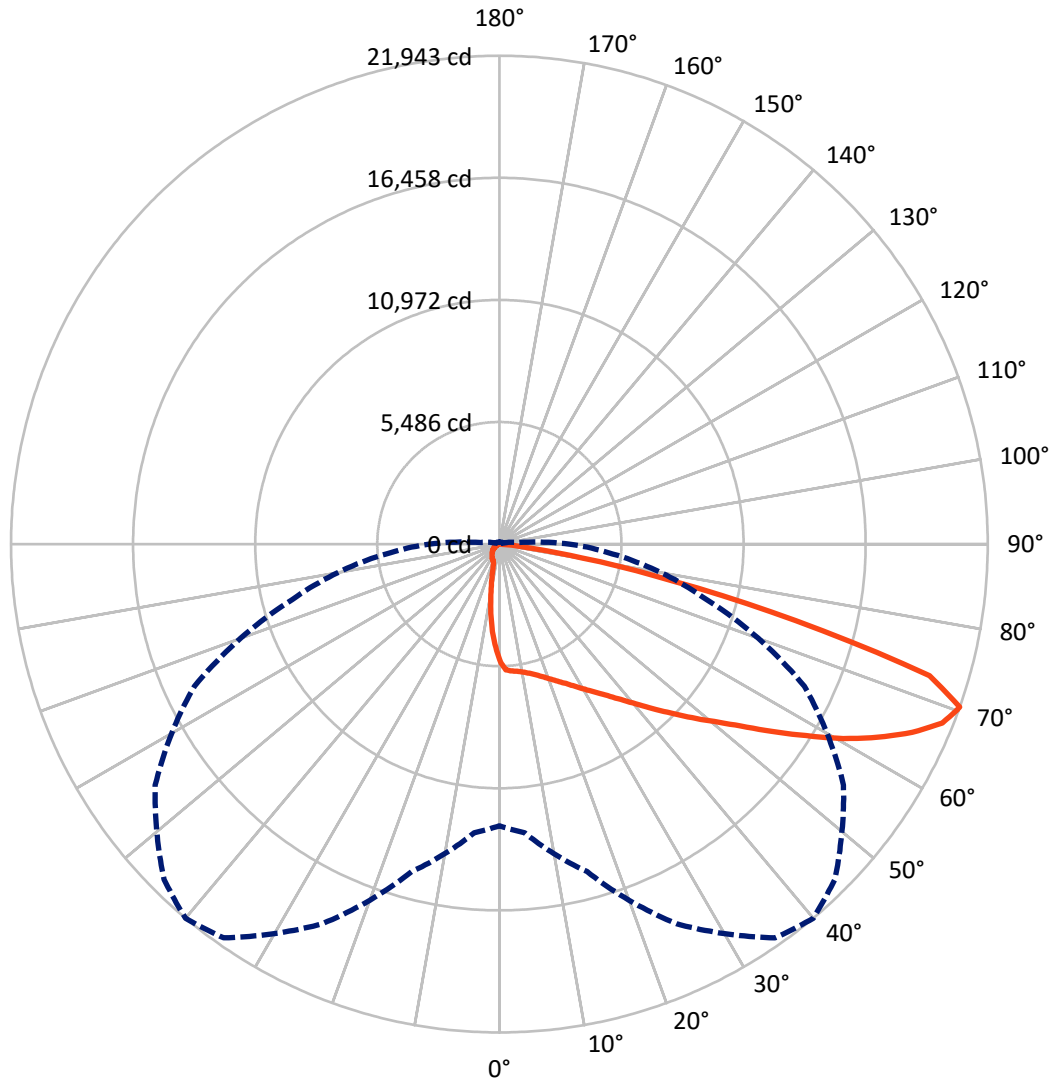
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2547.4	0.0	2547.4
	% Fixture	8.2	0.0	8.2
<b>Street Side</b>	Lumens	28604.1	0.0	28604.1
	% Fixture	91.8	0.0	91.8
<b>Total</b>	Lumens	31151.5	0.0	31151.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.8	1.4
10°-20°	1133.1	3.6
20°-30°	1896.5	6.1
30°-40°	2978.7	9.6
40°-50°	4711.5	15.1
50°-60°	6872.9	22.1
60°-70°	8520.0	27.4
70°-80°	4310.6	13.8
80°-90°	281.4	0.9
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°	31151.5	100.0
0°-180°	31151.5	100.0

**Coefficient of Utilization**



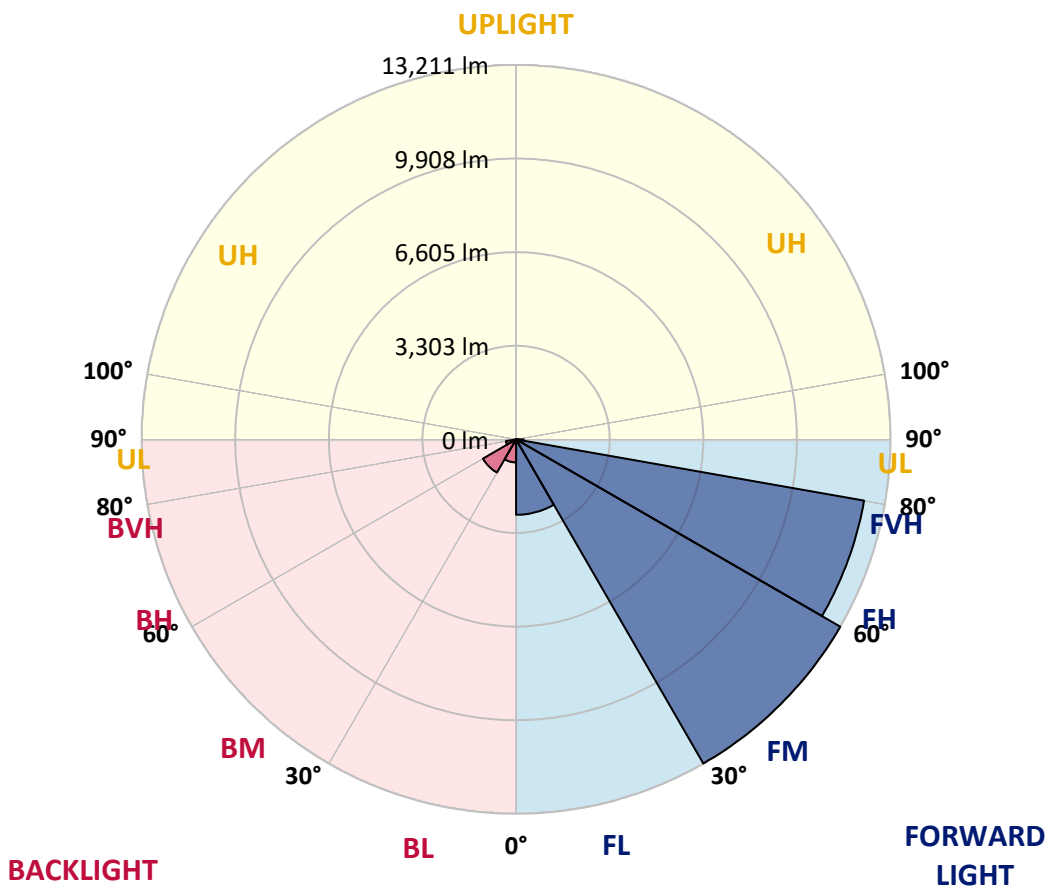
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2662.9	8.5			
FM (30°-60°)	13211.0	42.4			
FH (60°-80°)	12467.4	40.0			G5
FVH (80°-90°)	262.8	0.8			G3/500
BL (0°-30°)	813.5	2.6	B2/1000		
BM (30°-60°)	1352.1	4.3	B2/2500		
BH (60°-80°)	363.2	1.2	B1/500		G1/500
BVH (80°-90°)	18.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0
2.5°	5682.8	5702.7	5699.8	5708.4	5688.5	5657.3	5651.7	5609.2	5532.6	5436.3	5328.6
5°	5799.1	5821.7	5804.7	5796.2	5759.4	5725.4	5716.9	5671.5	5583.6	5453.3	5266.2
7.5°	5898.3	5903.9	5892.6	5872.7	5818.9	5773.5	5742.4	5680.0	5575.1	5444.8	5229.3
10°	5915.3	5912.4	5918.1	5920.9	5886.9	5847.2	5821.7	5736.7	5603.5	5464.6	5232.2
12.5°	5895.4	5895.4	5932.3	5974.8	5974.8	5954.9	5929.4	5852.9	5697.0	5532.6	5288.9
15°	5920.9	5929.4	6000.3	6079.7	6105.2	6085.3	6074.0	5994.6	5833.1	5651.7	5390.9
17.5°	6011.6	6020.1	6133.5	6252.5	6283.7	6261.0	6238.4	6159.0	5986.1	5787.7	5507.1
20°	6144.8	6167.5	6312.1	6465.1	6493.5	6465.1	6419.8	6309.2	6136.3	5935.1	5617.7
22.5°	6388.6	6402.8	6558.7	6720.2	6734.4	6689.0	6621.0	6468.0	6286.6	6091.0	5742.4
25°	6711.7	6731.5	6887.4	7043.3	7006.5	6938.5	6844.9	6672.0	6465.1	6275.2	5901.1
27.5°	7097.2	7119.9	7272.9	7409.0	7312.6	7233.2	7128.4	6912.9	6703.2	6530.3	6105.2
30°	7513.8	7533.7	7669.7	7791.6	7664.0	7570.5	7445.8	7224.7	7012.1	6881.8	6394.3
32.5°	7916.3	7913.5	8043.8	8143.0	8012.7	7939.0	7825.6	7601.7	7431.6	7374.9	6825.1
35°	8290.4	8290.4	8398.1	8497.3	8403.8	8364.1	8259.3	8080.7	7984.3	8052.3	7400.5
37.5°	8667.4	8647.6	8749.6	8860.1	8851.6	8854.5	8794.9	8709.9	8715.6	8956.5	8191.2
40°	8979.2	8970.7	9089.7	9234.3	9347.6	9438.3	9401.5	9432.7	9611.2	10061.9	9203.1
42.5°	9228.6	9248.4	9401.5	9631.1	9917.3	10101.6	10127.1	10254.6	10713.8	11411.0	10345.3
45°	9514.9	9517.7	9730.3	10081.7	10538.1	10830.0	10932.0	11260.8	11912.7	12811.2	11598.1
47.5°	9866.3	9832.3	10070.4	10563.6	11224.0	11654.8	11836.2	12247.2	13256.2	14177.3	12618.5
50°	10254.6	10192.3	10461.5	11133.3	11992.1	12530.6	12899.1	13499.9	14588.3	15299.7	13378.1
52.5°	10705.3	10645.8	10951.9	11788.0	12913.2	13568.0	14041.3	14647.8	15730.6	16155.7	13831.6
55°	11277.8	11218.3	11541.4	12573.1	14001.6	14851.9	15347.9	15858.1	16793.4	16787.8	14160.3
57.5°	11912.7	11830.5	12278.3	13565.1	15359.3	16243.6	16748.1	16997.5	17601.2	17278.1	14381.4
60°	12641.1	12567.4	13188.2	14747.0	16926.7	17745.8	18063.2	17961.2	18264.5	17567.2	14304.9
62.5°	13298.7	13264.7	14035.6	15999.8	18420.3	19111.9	19199.8	18754.8	18752.0	17572.9	13789.0
65°	13981.8	14047.0	15192.0	17442.5	19922.5	20387.4	20237.2	19542.7	18947.5	16878.5	12264.2
67.5°	14236.9	14426.8	15954.5	18746.3	21107.3	21470.1	21206.5	19936.7	18134.1	14543.0	9339.1
70°	12661.0	13018.1	15234.6	18820.0	21597.6	21943.4	21311.4	18876.7	15118.3	9633.9	5116.0
72.5°	9628.2	10044.9	12695.0	15410.3	19423.7	20211.6	19131.8	15379.1	9744.4	4220.3	1717.6
75°	5388.1	5838.7	9455.3	11603.8	13040.8	13760.7	13363.9	9866.3	4316.7	1102.6	513.0
77.5°	1822.5	1972.7	4398.9	7179.4	8607.9	7961.6	6740.1	4900.6	1587.2	419.5	272.1
80°	1079.9	1136.6	1638.2	3574.1	4529.3	3755.5	2964.7	1811.1	807.8	223.9	189.9
82.5°	323.1	382.6	904.2	1326.5	1774.3	1105.4	935.3	1034.5	419.5	121.9	158.7
85°	0.0	0.0	192.7	411.0	464.8	181.4	181.4	586.7	76.5	51.0	116.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.2	8.5	11.3	25.5
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°	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0	5286.0
2.5°	5252.0	5152.8	5036.6	4926.1	4821.2	4685.2	4620.0	4540.6	4472.6	4435.7	4455.6
5°	5147.2	4991.3	4753.2	4512.3	4268.5	4038.9	3832.0	3693.1	3568.4	3503.2	3517.4
7.5°	5056.5	4846.7	4475.4	4081.4	3690.3	3296.3	2976.1	2726.6	2533.9	2454.5	2440.4
10°	5016.8	4753.2	4228.8	3662.0	3061.1	2531.1	2077.6	1802.6	1607.1	1510.7	1527.7
12.5°	5036.6	4705.0	4019.1	3251.0	2471.5	1853.7	1420.0	1162.1	1023.2	966.5	952.3
15°	5093.3	4693.7	3832.0	2831.5	1907.5	1295.3	980.7	875.8	847.5	841.8	841.8
17.5°	5158.5	4696.5	3639.3	2406.4	1448.3	960.8	839.0	819.1	810.6	805.0	807.8
20°	5223.7	4696.5	3418.2	1975.5	1088.4	830.5	799.3	785.1	776.6	773.8	773.8
22.5°	5303.0	4696.5	3171.6	1575.9	873.0	787.9	762.4	753.9	745.4	742.6	739.8
25°	5399.4	4699.3	2899.5	1232.9	793.6	751.1	731.3	722.8	714.3	708.6	708.6
27.5°	5538.3	4722.0	2599.1	960.8	748.3	717.1	700.1	691.6	683.1	674.6	674.6
30°	5739.5	4778.7	2261.8	793.6	705.7	680.2	663.2	657.6	649.1	640.6	637.7
32.5°	6040.0	4877.9	1913.2	711.4	666.1	640.6	620.7	615.1	606.5	598.0	595.2
35°	6459.5	5059.3	1573.1	660.4	615.1	589.5	578.2	575.4	564.0	555.5	555.5
37.5°	7074.5	5354.1	1247.1	609.4	572.5	552.7	538.5	532.9	521.5	513.0	510.2
40°	7825.6	5736.7	969.3	569.7	532.9	513.0	498.8	490.3	476.2	464.8	459.2
42.5°	8783.6	6204.4	765.3	527.2	496.0	476.2	464.8	447.8	428.0	411.0	408.1
45°	9781.3	6686.2	632.1	487.5	462.0	445.0	430.8	408.1	379.8	360.0	354.3
47.5°	10546.6	6986.6	552.7	445.0	425.2	411.0	394.0	365.6	331.6	308.9	303.3
50°	11093.6	7032.0	493.2	405.3	394.0	379.8	354.3	320.3	283.4	260.8	255.1
52.5°	11362.9	6827.9	445.0	368.5	360.0	345.8	314.6	277.8	238.1	215.4	209.7
55°	11484.7	6442.4	399.6	337.3	325.9	308.9	274.9	235.2	195.6	175.7	170.1
57.5°	11436.5	5872.7	360.0	306.1	291.9	272.1	235.2	192.7	161.6	141.7	138.9
60°	11079.4	5073.5	320.3	274.9	257.9	235.2	198.4	158.7	130.4	116.2	113.4
62.5°	10308.5	4081.4	280.6	238.1	226.7	204.1	170.1	130.4	107.7	99.2	96.4
65°	8729.8	2885.4	240.9	201.2	195.6	172.9	141.7	107.7	93.5	87.9	85.0
67.5°	6275.2	1754.5	204.1	172.9	167.2	147.4	119.0	93.5	85.0	82.2	82.2
70°	3154.6	830.5	161.6	141.7	141.7	121.9	102.0	85.0	82.2	79.4	79.4
72.5°	1071.4	354.3	121.9	110.5	116.2	104.9	87.9	79.4	79.4	79.4	79.4
75°	365.6	187.1	85.0	79.4	85.0	85.0	76.5	76.5	79.4	79.4	79.4
77.5°	238.1	124.7	59.5	53.9	65.2	65.2	65.2	70.9	76.5	76.5	76.5
80°	195.6	68.0	39.7	36.8	48.2	48.2	53.9	65.2	70.9	70.9	70.9
82.5°	167.2	42.5	22.7	25.5	34.0	36.8	45.3	53.9	62.4	65.2	65.2
85°	113.4	22.7	17.0	19.8	22.7	28.3	36.8	45.3	51.0	56.7	56.7
87.5°	31.2	8.5	11.3	14.2	14.2	19.8	28.3	34.0	39.7	42.5	42.5
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)