

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: P642596

Luminaire Tested: GWS-SA6D-730-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642596  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-730-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

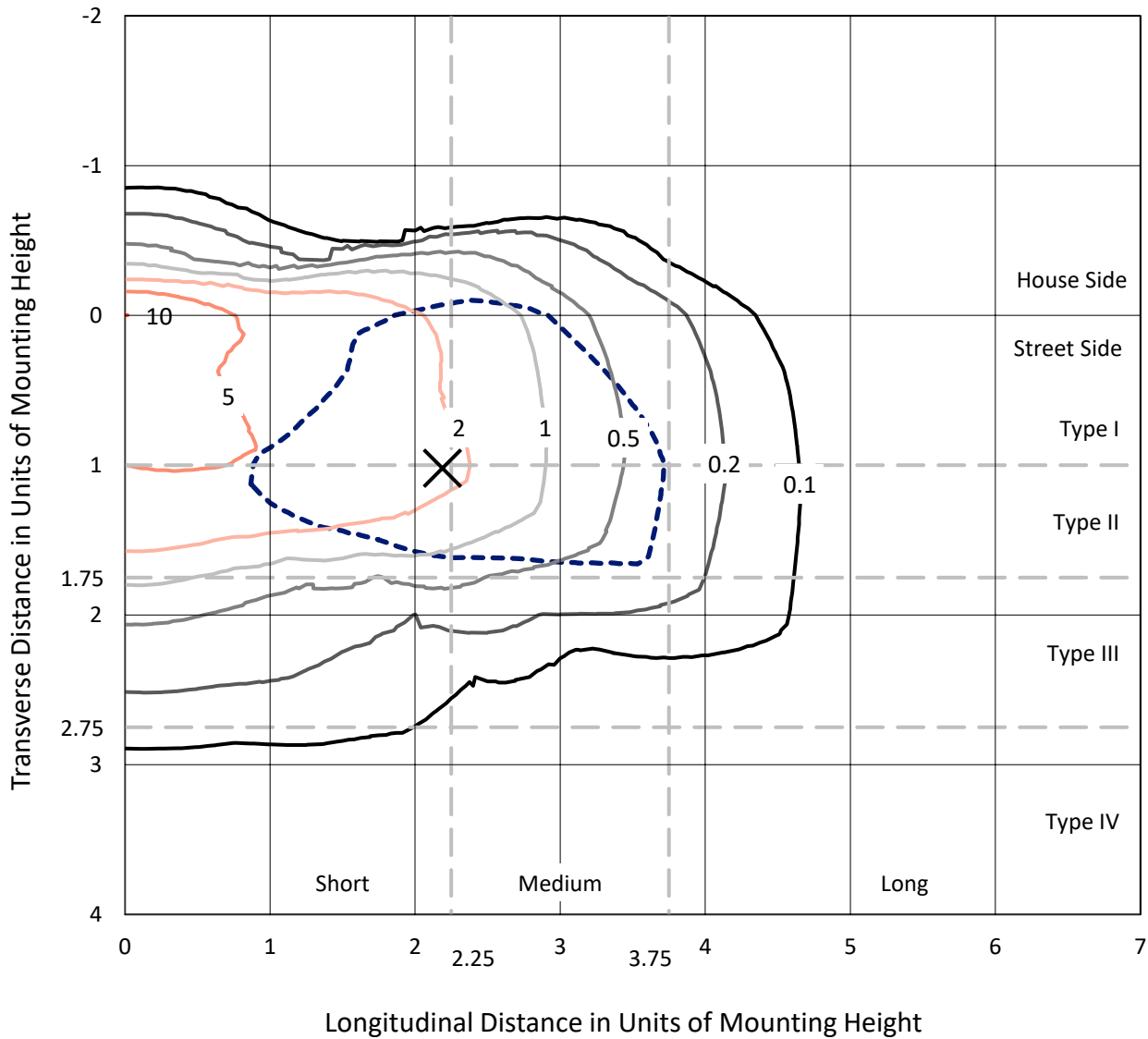
Lumens per Lamp: N/A  
Luminaire Lumens: 25858.2 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

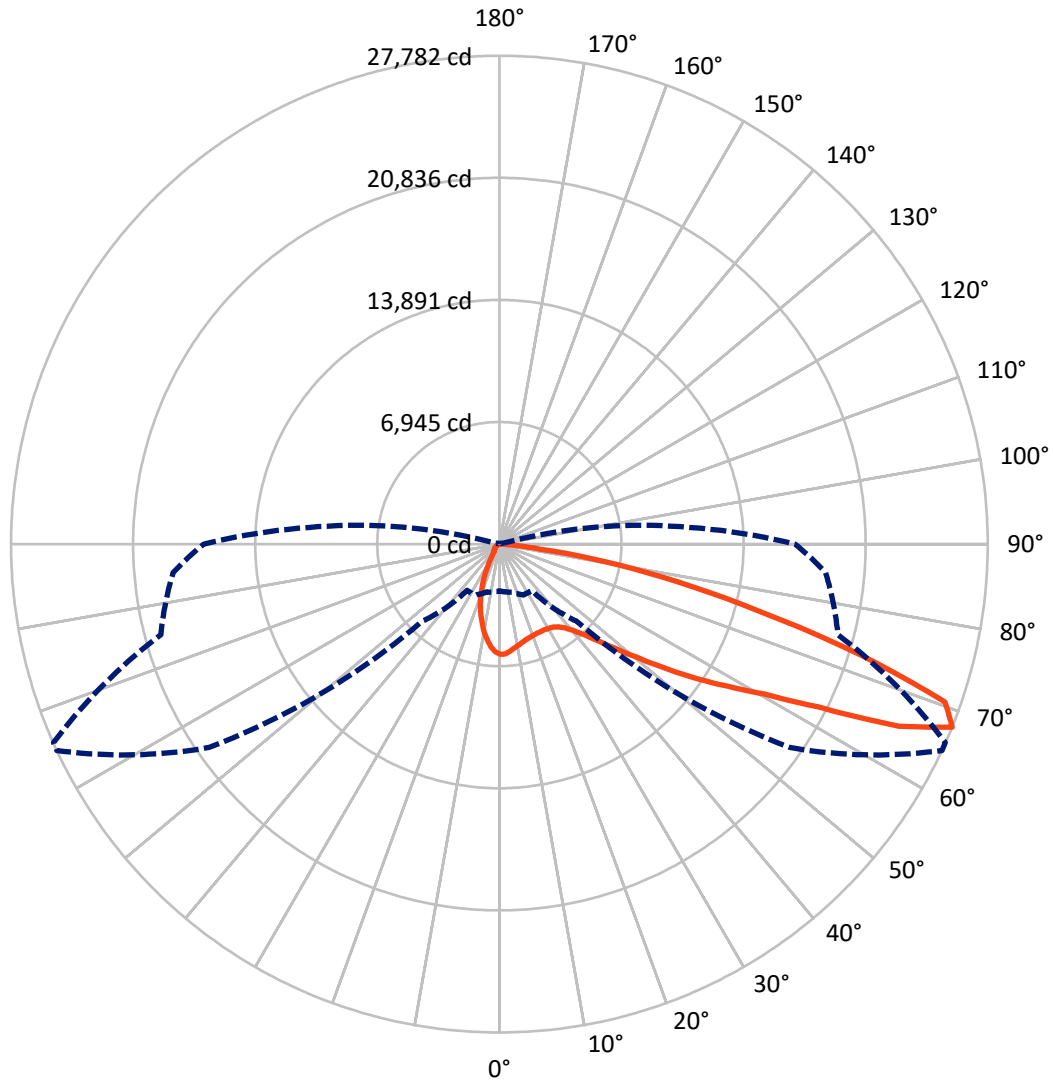
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3228.9	0.0	3228.9
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	22629.3	0.0	22629.3
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	25858.2	0.0	25858.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	520.9	2.0
10°-20°	1170.9	4.5
20°-30°	1673.2	6.5
30°-40°	2434.2	9.4
40°-50°	3812.4	14.7
50°-60°	5947.4	23.0
60°-70°	6533.0	25.3
70°-80°	3476.8	13.4
80°-90°	289.5	1.1
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°	25858.2	100.0
0°-180°	25858.2	100.0

**Coefficient of Utilization**



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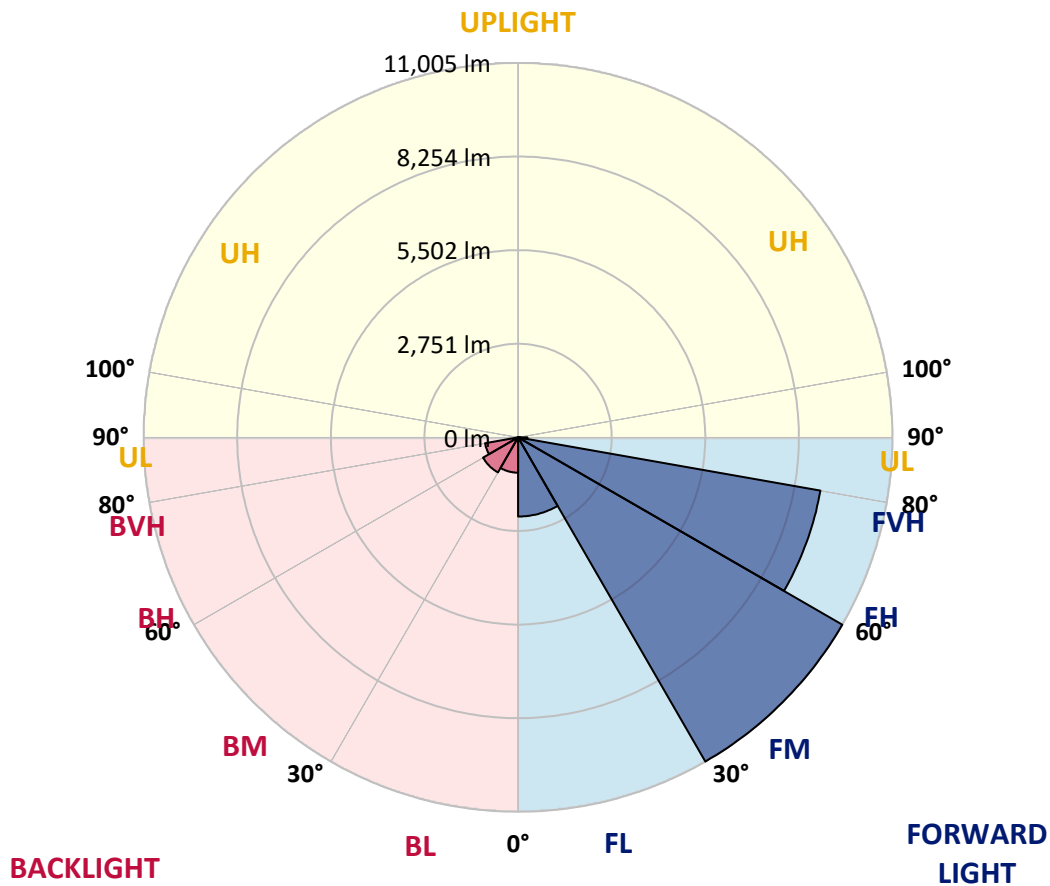
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2327.1	9.0			
FM (30°-60°)	11004.7	42.6			
FH (60°-80°)	9023.5	34.9			G4/12000
FVH (80°-90°)	274.0	1.1			G3/500
BL (0°-30°)	1037.8	4.0	B3/2500		
BM (30°-60°)	1189.3	4.6	B2/2500		
BH (60°-80°)	986.2	3.8	B2/1000		G2/1000
BVH (80°-90°)	15.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4
2.5°	6054.0	6072.7	6046.9	6110.1	6121.8	6191.9	6231.7	6259.7	6257.4	6292.5	6292.5
5°	5698.5	5717.2	5703.2	5771.0	5824.8	5934.7	6025.9	6131.1	6135.8	6243.4	6283.1
7.5°	5396.9	5399.2	5399.2	5483.4	5553.6	5689.2	5824.8	5986.2	6004.9	6170.9	6276.1
10°	5149.0	5156.0	5158.4	5254.3	5331.4	5495.1	5668.1	5862.2	5883.3	6107.7	6271.4
12.5°	4978.3	4980.7	4990.0	5090.6	5174.7	5345.4	5520.8	5743.0	5771.0	6035.3	6250.4
15°	4896.5	4891.8	4896.5	4980.7	5064.8	5228.5	5408.6	5647.1	5677.5	5974.5	6252.7
17.5°	4891.8	4884.8	4880.1	4943.3	4997.0	5142.0	5324.4	5584.0	5616.7	5946.4	6278.4
20°	4959.6	4954.9	4931.6	4959.6	4971.3	5090.6	5270.6	5534.9	5567.6	5941.7	6334.6
22.5°	5137.3	5125.6	5090.6	5064.8	5001.7	5071.9	5233.2	5499.8	5537.2	5953.4	6407.1
25°	5401.6	5396.9	5352.5	5289.3	5128.0	5099.9	5235.5	5499.8	5534.9	5967.4	6484.2
27.5°	5799.1	5771.0	5714.9	5605.0	5373.5	5209.8	5282.3	5513.8	5548.9	5986.2	6547.4
30°	6203.6	6201.3	6182.6	6070.3	5726.6	5420.3	5380.5	5551.2	5584.0	6002.5	6605.8
32.5°	6622.2	6629.2	6676.0	6589.4	6213.0	5733.6	5558.2	5628.4	5651.8	6035.3	6657.3
35°	7019.7	7033.7	7157.7	7188.1	6804.6	6208.3	5848.2	5782.7	5785.1	6107.7	6725.1
37.5°	7400.8	7447.6	7646.4	7793.7	7541.1	6783.5	6266.8	6044.6	6025.9	6252.7	6828.0
40°	7833.4	7922.3	8172.5	8422.7	8343.2	7543.5	6837.3	6446.8	6407.1	6519.3	7012.7
42.5°	8312.8	8408.7	8740.7	9091.5	9128.9	8462.5	7550.5	7033.7	6965.9	6968.3	7358.8
45°	8827.2	8955.8	9341.7	9846.8	10073.6	9486.6	8429.7	7826.4	7758.6	7658.1	7915.3
47.5°	9503.0	9615.3	9987.1	10569.3	11004.2	10585.7	9582.5	8845.9	8722.0	8574.7	8780.5
50°	10085.3	10183.5	10503.8	11233.4	12138.3	12002.7	10889.6	10120.3	10001.1	9750.9	9921.6
52.5°	10213.9	10291.0	10585.7	11406.4	13005.8	13791.5	12491.4	11661.3	11577.1	11114.1	11179.6
55°	9636.3	9753.2	10017.4	10929.4	13232.7	15540.6	14570.2	13398.7	13223.3	12484.4	12601.3
57.5°	8177.2	8385.3	8633.2	9818.7	12617.7	16471.3	17474.4	15239.0	15080.0	13803.2	13805.6
60°	5993.2	6161.5	6327.5	7412.5	11158.6	16408.1	20109.7	17306.1	17016.1	14881.2	14841.4
62.5°	4358.7	4445.2	4442.8	4828.7	7662.7	15327.8	21494.0	20420.7	19744.9	16034.0	15807.2
65°	3428.0	3425.7	3526.2	3652.5	4279.2	11832.0	21664.7	24968.8	24239.2	17579.6	17107.3
67.5°	2668.0	2719.5	2820.0	3191.8	3215.2	6191.9	20163.5	27781.8	27767.8	19939.0	18629.6
70°	2057.7	2127.9	2270.5	2813.0	2969.7	3465.4	15087.0	26890.9	27117.7	20993.6	17551.6
72.5°	1321.2	1316.5	1526.9	2272.9	2852.8	2887.8	8343.2	21360.7	21618.0	19015.4	14191.4
75°	738.9	743.6	862.8	1391.3	2658.7	2717.2	4131.8	15231.9	15435.4	14825.1	10903.7
77.5°	290.0	299.3	404.5	731.9	1753.8	2427.2	2455.3	10386.9	10417.3	9187.3	6687.7
80°	116.9	123.9	205.8	453.6	1068.6	1634.5	1753.8	6119.4	5995.5	3556.6	1945.5
82.5°	35.1	37.4	81.8	257.2	558.9	1162.2	1183.2	2347.7	2216.7	764.6	495.7
85°	2.3	2.3	18.7	79.5	198.8	292.3	788.0	764.6	678.1	191.7	219.8
87.5°	0.0	0.0	2.3	2.3	4.7	9.4	84.2	140.3	142.6	35.1	98.2
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°	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4	6271.4
2.5°	6292.5	6208.3	6201.3	6135.8	6070.3	5988.5	5892.6	5822.5	5773.4	5686.8	5670.5
5°	6283.1	6170.9	6065.7	5878.6	5670.5	5446.0	5249.6	5067.2	4952.6	4875.4	4842.7
7.5°	6264.4	6121.8	5878.6	5525.5	5177.1	4784.2	4477.9	4197.3	4005.6	3893.3	3844.2
10°	6250.4	6058.6	5663.5	5128.0	4587.8	4045.3	3580.0	3163.8	2932.3	2749.9	2719.5
12.5°	6222.3	5967.4	5387.5	4662.7	3965.8	3245.6	2651.7	2141.9	1788.8	1629.8	1573.7
15°	6194.3	5871.6	5111.6	4171.6	3287.7	2399.1	1678.9	1187.9	944.7	869.9	865.2
17.5°	6189.6	5785.1	4812.3	3706.3	2576.9	1571.4	956.4	769.3	717.9	699.2	699.2
20°	6203.6	5712.6	4517.7	3170.8	1877.7	956.4	713.2	666.4	636.0	619.7	619.7
22.5°	6217.6	5637.7	4234.7	2630.6	1246.3	699.2	629.0	589.3	554.2	535.5	526.1
25°	6227.0	5555.9	3921.4	2088.1	813.7	608.0	551.8	500.4	458.3	434.9	434.9
27.5°	6224.7	5457.7	3605.7	1557.3	631.4	540.2	472.3	418.6	376.5	350.8	353.1
30°	6206.0	5350.1	3278.4	1087.3	551.8	472.3	404.5	348.4	306.3	285.3	282.9
32.5°	6191.9	5235.5	2899.5	764.6	495.7	413.9	343.7	290.0	254.9	238.5	236.2
35°	6175.6	5123.3	2539.4	582.2	446.6	357.8	290.0	245.5	217.5	203.4	203.4
37.5°	6180.2	5006.4	2148.9	500.4	397.5	311.0	247.9	210.5	187.1	173.0	170.7
40°	6252.7	4936.2	1765.4	453.6	353.1	268.9	215.1	182.4	159.0	145.0	142.6
42.5°	6432.8	4938.6	1398.3	418.6	313.3	229.2	187.1	156.7	135.6	119.3	116.9
45°	6792.9	5036.8	1073.3	381.1	271.2	198.8	161.3	133.3	112.2	98.2	95.9
47.5°	7382.1	5329.1	813.7	348.4	236.2	173.0	138.0	112.2	93.5	81.8	79.5
50°	8319.8	5857.5	640.7	308.7	198.8	149.7	116.9	93.5	77.2	65.5	63.1
52.5°	9446.9	6650.2	549.5	273.6	170.7	130.9	100.5	77.2	63.1	53.8	51.4
55°	10742.3	7597.3	507.4	238.5	145.0	112.2	81.8	63.1	51.4	44.4	39.8
57.5°	11930.2	8450.8	505.1	203.4	123.9	95.9	67.8	53.8	44.4	35.1	32.7
60°	13087.7	9164.0	474.7	168.4	107.6	79.5	58.5	44.4	37.4	30.4	28.1
62.5°	14137.6	9743.9	397.5	135.6	91.2	65.5	49.1	39.8	32.7	25.7	25.7
65°	15456.4	10482.8	304.0	109.9	74.8	53.8	42.1	35.1	30.4	23.4	23.4
67.5°	16819.7	10873.3	217.5	91.2	60.8	46.8	37.4	32.7	25.7	21.0	21.0
70°	15234.3	9187.3	156.7	74.8	51.4	39.8	32.7	30.4	25.7	21.0	18.7
72.5°	11897.5	6624.5	116.9	58.5	44.4	37.4	30.4	28.1	23.4	18.7	18.7
75°	8822.6	3862.9	88.9	46.8	35.1	30.4	30.4	28.1	23.4	18.7	16.4
77.5°	4795.9	1346.9	67.8	37.4	28.1	23.4	25.7	25.7	21.0	16.4	14.0
80°	1269.7	369.5	46.8	28.1	23.4	18.7	18.7	23.4	18.7	14.0	14.0
82.5°	369.5	107.6	32.7	23.4	18.7	16.4	16.4	16.4	14.0	11.7	9.4
85°	180.1	39.8	23.4	18.7	16.4	14.0	11.7	11.7	9.4	7.0	7.0
87.5°	79.5	16.4	18.7	16.4	16.4	11.7	9.4	7.0	7.0	4.7	2.3
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)