

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: P640675

Luminaire Tested: GWS-SA5E-735-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-735-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

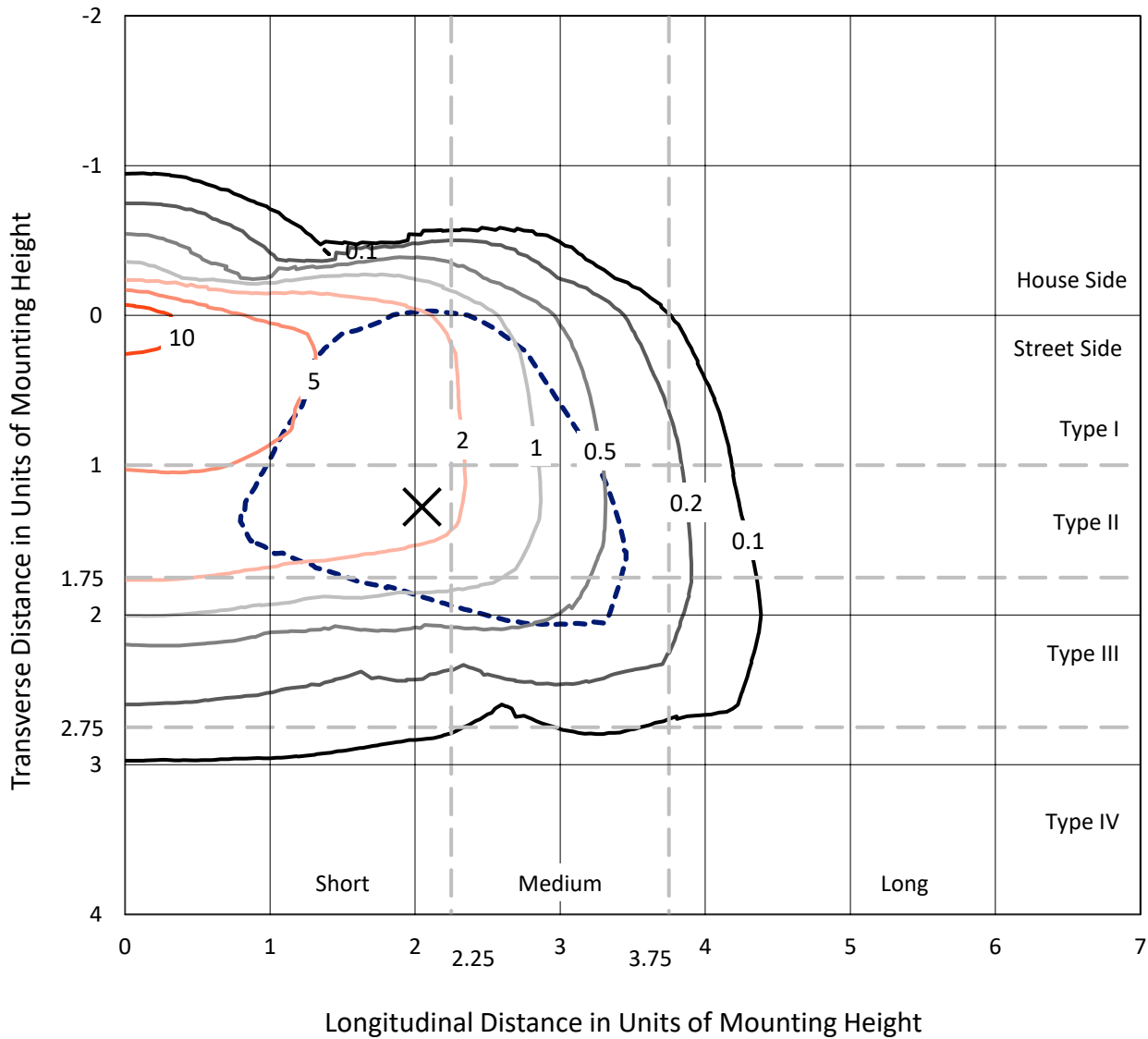
Lumens per Lamp: N/A  
Luminaire Lumens: 29988.2 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

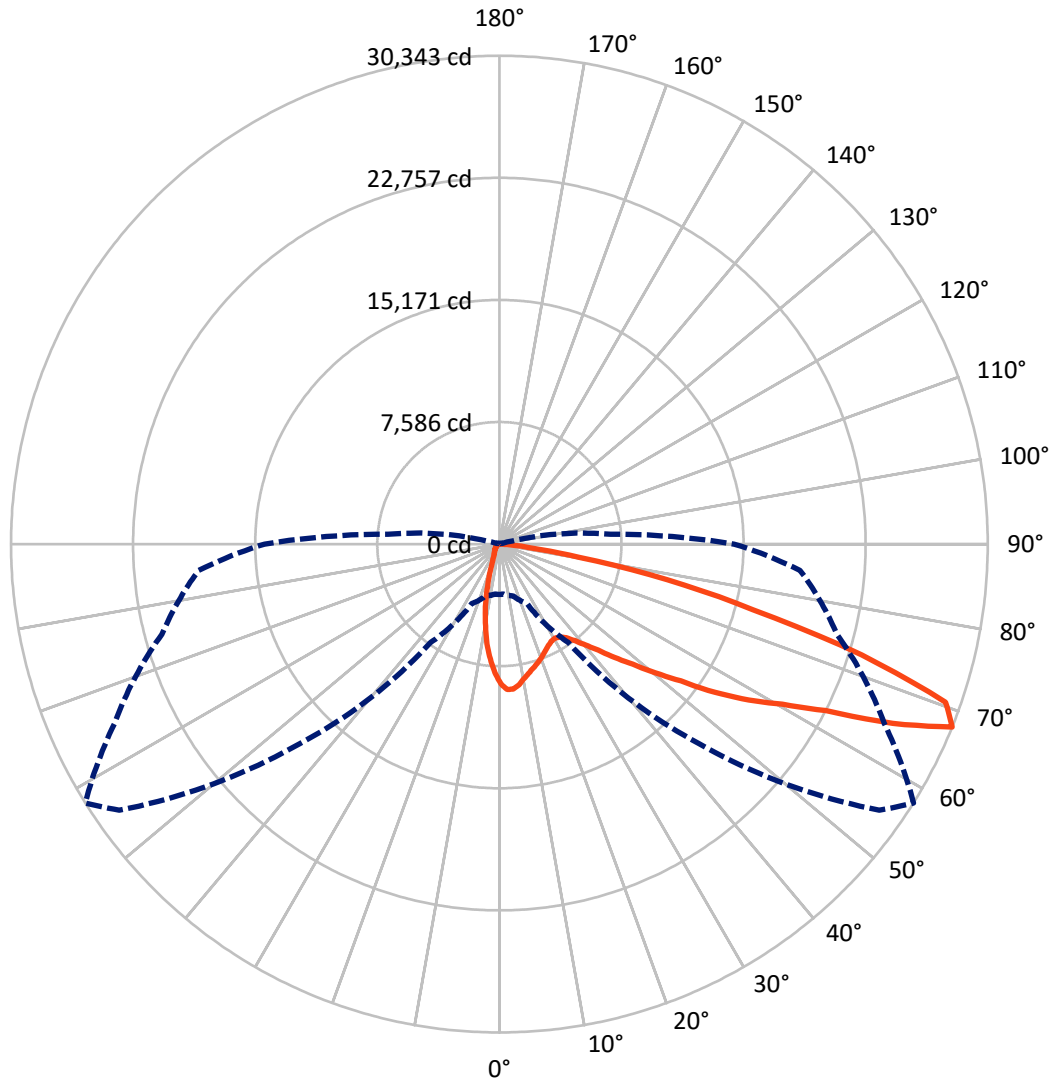
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2929.7	0.0	2929.7
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	27058.5	0.0	27058.5
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	29988.2	0.0	29988.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	702.9	2.3
10°-20°	1463.2	4.9
20°-30°	1973.2	6.6
30°-40°	2772.7	9.2
40°-50°	4282.2	14.3
50°-60°	6847.9	22.8
60°-70°	8108.4	27.0
70°-80°	3586.9	12.0
80°-90°	250.8	0.8
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°	29988.2	100.0
0°-180°	29988.2	100.0

**Coefficient of Utilization**



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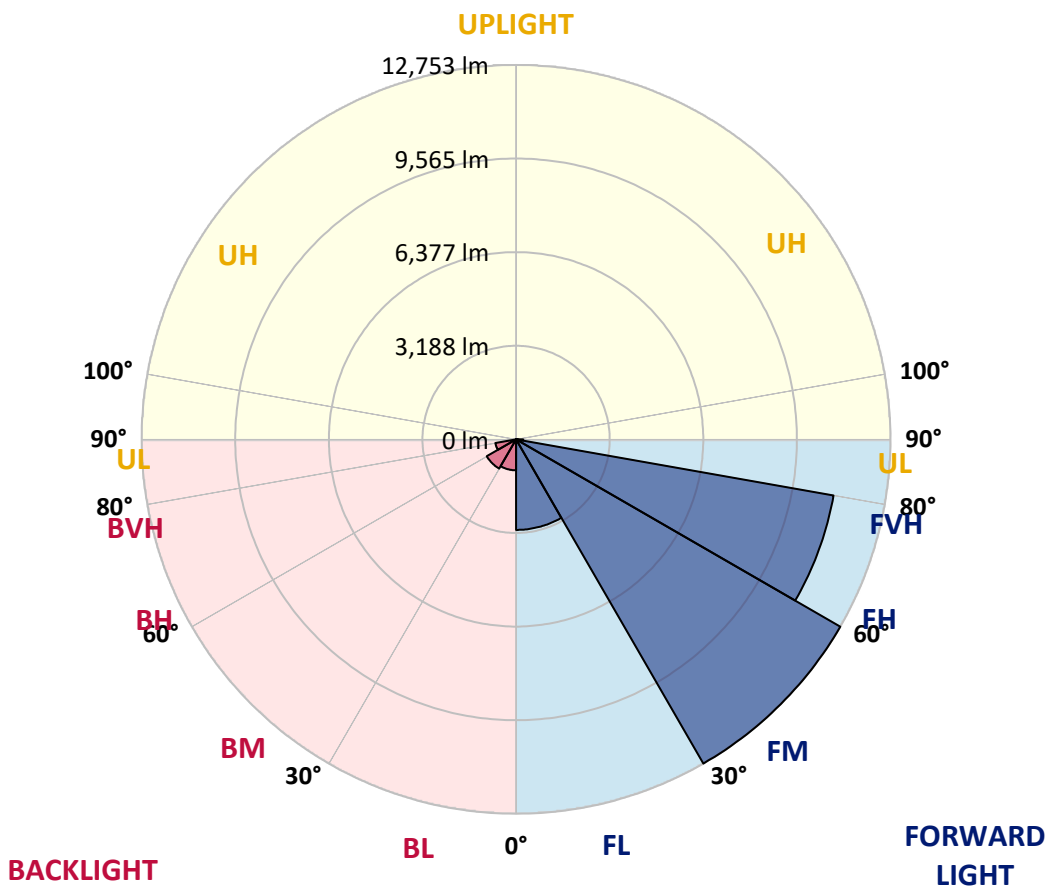
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3085.0	10.3			
FM (30°-60°)	12753.3	42.5			
FH (60°-80°)	10980.1	36.6			G4/12000
FVH (80°-90°)	240.1	0.8			G3/500
BL (0°-30°)	1054.3	3.5	B3/2500		
BM (30°-60°)	1149.5	3.8	B2/2500		
BH (60°-80°)	715.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	10.7	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0
2.5°	9098.6	9114.5	9135.7	9162.3	9157.0	9133.1	9103.9	9037.5	8995.0	8862.3	8700.4
5°	8806.6	8803.9	8857.0	8907.5	8997.7	9045.5	9111.8	9050.8	9029.6	8870.3	8607.5
7.5°	8236.0	8265.1	8326.2	8405.8	8535.9	8676.5	8835.8	8817.2	8880.9	8774.8	8448.3
10°	7675.9	7660.0	7755.5	7875.0	8074.0	8254.5	8485.4	8482.8	8650.0	8639.4	8267.8
12.5°	7184.9	7182.2	7256.6	7391.9	7625.5	7877.6	8190.8	8198.8	8405.8	8490.8	8113.9
15°	6770.8	6776.1	6847.8	6988.5	7230.0	7537.9	7901.5	7967.9	8201.4	8374.0	7962.6
17.5°	6476.2	6478.9	6521.3	6643.4	6879.7	7208.8	7646.7	7737.0	8036.9	8286.4	7840.5
20°	6340.9	6330.2	6338.2	6399.3	6582.4	6882.3	7386.6	7503.4	7885.6	8225.3	7729.0
22.5°	6359.4	6343.5	6306.4	6298.4	6380.7	6608.9	7110.6	7253.9	7721.0	8188.2	7628.1
25°	6524.0	6489.5	6436.4	6356.8	6324.9	6439.1	6869.0	7017.7	7567.1	8190.8	7551.2
27.5°	6776.1	6739.0	6672.6	6566.5	6441.7	6393.9	6704.5	6845.2	7458.3	8251.9	7514.0
30°	7097.3	7068.1	7004.4	6877.0	6709.8	6513.4	6670.0	6786.8	7405.2	8376.6	7529.9
32.5°	7476.9	7455.6	7402.5	7285.8	7094.6	6794.7	6786.8	6877.0	7447.7	8557.1	7591.0
35°	7843.1	7851.1	7853.7	7790.0	7585.7	7222.1	7107.9	7139.8	7622.8	8827.8	7729.0
37.5°	8238.6	8220.0	8315.6	8360.7	8164.3	7776.8	7604.3	7606.9	7957.3	9228.6	7989.1
40°	8538.5	8543.8	8750.9	8936.7	8854.4	8480.1	8233.3	8230.6	8472.2	9778.0	8408.5
42.5°	8819.9	8854.4	9159.6	9478.1	9592.2	9260.5	9082.6	9016.3	9194.1	10521.2	9037.5
45°	9119.8	9170.2	9597.6	10051.4	10351.3	10154.9	10014.3	10040.8	10062.0	11386.5	9884.2
47.5°	9470.1	9502.0	10030.2	10669.8	11229.9	11179.4	11187.4	11155.6	11144.9	12477.3	11004.3
50°	9894.8	9969.1	10576.9	11341.4	12105.8	12440.2	12551.7	12564.9	12392.4	13666.4	12164.2
52.5°	10797.2	10887.5	11407.7	12076.6	13061.3	13764.6	14218.5	14128.3	13862.8	14818.3	13435.5
55°	11861.6	11930.6	12432.2	13125.0	14229.1	15216.5	16294.1	16256.9	15606.6	16031.3	14481.3
57.5°	11962.4	12039.4	12817.1	13878.8	15728.7	17010.7	18144.0	18263.5	17310.6	16891.3	15415.5
60°	10829.1	10985.7	12047.4	13475.3	16302.0	19423.4	20171.8	20195.7	18560.7	17764.5	16556.8
62.5°	8679.2	8753.5	9823.2	11686.4	15418.2	20830.1	23269.3	22765.0	20166.5	19115.5	18364.3
65°	4549.3	4851.9	5783.5	7845.8	12503.9	20339.1	26995.8	26857.7	23054.3	21050.4	19771.1
67.5°	3121.3	3118.7	3339.0	4090.1	7455.6	17512.3	28824.5	30342.7	26393.3	21713.9	18751.9
70°	2375.5	2383.5	2579.9	3068.2	3861.8	11657.2	26817.9	29413.7	27014.3	19715.3	15166.0
72.5°	1576.6	1592.5	1919.0	2479.0	3084.2	5714.5	20840.7	23534.7	22730.5	15834.9	10675.2
75°	942.2	955.5	1189.1	1802.2	2741.8	3198.3	13241.8	16270.2	15646.4	10914.0	5722.4
77.5°	387.5	398.1	610.5	1122.7	2006.6	2484.3	7322.9	10646.0	9371.9	4339.6	1563.3
80°	161.9	167.2	294.6	785.6	1446.5	1558.0	3392.1	5003.1	3840.6	934.3	477.8
82.5°	58.4	61.0	108.8	432.6	899.8	1173.2	1712.0	1977.4	1082.9	305.2	257.5
85°	2.7	2.7	26.5	146.0	342.4	331.8	979.4	947.5	358.3	127.4	153.9
87.5°	0.0	0.0	2.7	2.7	5.3	13.3	92.9	164.6	77.0	31.9	66.4
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°	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0	8650.0
2.5°	8594.3	8453.6	8299.7	8156.3	7928.1	7792.7	7625.5	7551.2	7445.0	7418.5	7434.4
5°	8419.1	8177.6	7808.6	7474.2	7041.6	6693.9	6343.5	6194.9	6003.8	5876.4	5823.3
7.5°	8172.3	7856.4	7280.4	6672.6	6078.1	5443.7	4960.7	4642.2	4352.9	4193.6	4161.8
10°	7922.8	7511.4	6685.9	5815.3	4894.3	4135.2	3482.3	2999.2	2606.4	2428.6	2290.6
12.5°	7665.3	7153.0	6080.7	4944.8	3875.1	2840.0	2033.1	1563.3	1282.0	1170.5	1189.1
15°	7429.1	6808.0	5480.9	4074.2	2728.5	1714.6	1122.7	947.5	881.2	860.0	857.3
17.5°	7203.5	6481.5	4883.7	3227.5	1799.5	1051.1	860.0	817.5	798.9	788.3	788.3
20°	6999.1	6168.3	4299.8	2431.2	1162.5	833.4	777.7	756.4	740.5	732.6	732.6
22.5°	6808.0	5865.8	3729.1	1719.9	857.3	748.5	714.0	692.7	674.2	663.5	663.5
25°	6635.5	5592.4	3185.0	1183.8	737.9	684.8	647.6	623.7	591.9	573.3	573.3
27.5°	6510.7	5348.2	2662.2	862.6	666.2	615.8	573.3	541.5	507.0	485.7	480.4
30°	6436.4	5141.2	2134.0	708.7	599.8	549.4	501.6	461.8	422.0	400.8	398.1
32.5°	6393.9	4950.1	1650.9	618.4	544.1	485.7	432.6	390.2	350.4	326.5	323.8
35°	6409.9	4801.4	1236.9	557.4	491.0	430.0	371.6	329.1	294.6	273.4	268.1
37.5°	6547.9	4735.1	929.0	509.6	445.9	382.2	321.2	281.3	249.5	233.6	230.9
40°	6816.0	4748.3	729.9	472.4	408.7	334.4	276.0	238.9	215.0	201.7	199.1
42.5°	7232.7	4859.8	602.5	440.6	368.9	292.0	238.9	209.7	185.8	172.5	169.9
45°	7853.7	5090.7	525.5	403.4	326.5	252.1	207.0	180.5	159.3	143.3	140.7
47.5°	8753.5	5491.5	475.1	368.9	289.3	217.6	177.8	151.3	132.7	119.4	116.8
50°	9711.7	5971.9	432.6	334.4	257.5	188.4	151.3	124.7	108.8	95.6	92.9
52.5°	10733.5	6489.5	400.8	302.6	228.3	161.9	127.4	103.5	87.6	74.3	71.7
55°	11715.6	7009.7	363.6	281.3	193.8	138.0	106.2	84.9	69.0	58.4	58.4
57.5°	12671.1	7487.5	323.8	246.8	159.3	116.8	87.6	69.0	55.7	47.8	45.1
60°	13812.4	8148.4	278.7	209.7	132.7	98.2	71.7	55.7	45.1	37.2	37.2
62.5°	15508.4	8835.8	238.9	175.2	111.5	82.3	58.4	45.1	37.2	31.9	29.2
65°	16063.2	8464.2	201.7	143.3	90.2	66.4	47.8	39.8	31.9	29.2	26.5
67.5°	14582.1	6938.1	167.2	116.8	74.3	55.7	42.5	34.5	29.2	26.5	23.9
70°	11378.5	4923.5	130.1	87.6	61.0	45.1	37.2	31.9	26.5	23.9	23.9
72.5°	7739.6	2911.6	103.5	66.4	50.4	39.8	31.9	29.2	26.5	23.9	21.2
75°	3811.4	1035.1	79.6	50.4	39.8	34.5	29.2	26.5	23.9	21.2	21.2
77.5°	1027.2	286.7	61.0	39.8	31.9	26.5	26.5	26.5	23.9	18.6	18.6
80°	347.7	119.4	45.1	29.2	26.5	21.2	18.6	23.9	21.2	18.6	15.9
82.5°	191.1	58.4	31.9	23.9	18.6	15.9	15.9	15.9	15.9	13.3	13.3
85°	122.1	31.9	21.2	18.6	18.6	13.3	10.6	10.6	8.0	8.0	8.0
87.5°	55.7	18.6	18.6	15.9	15.9	13.3	8.0	5.3	2.7	2.7	2.7
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)