

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: P640510

Luminaire Tested: GWS-SA5E-722-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640510  
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-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

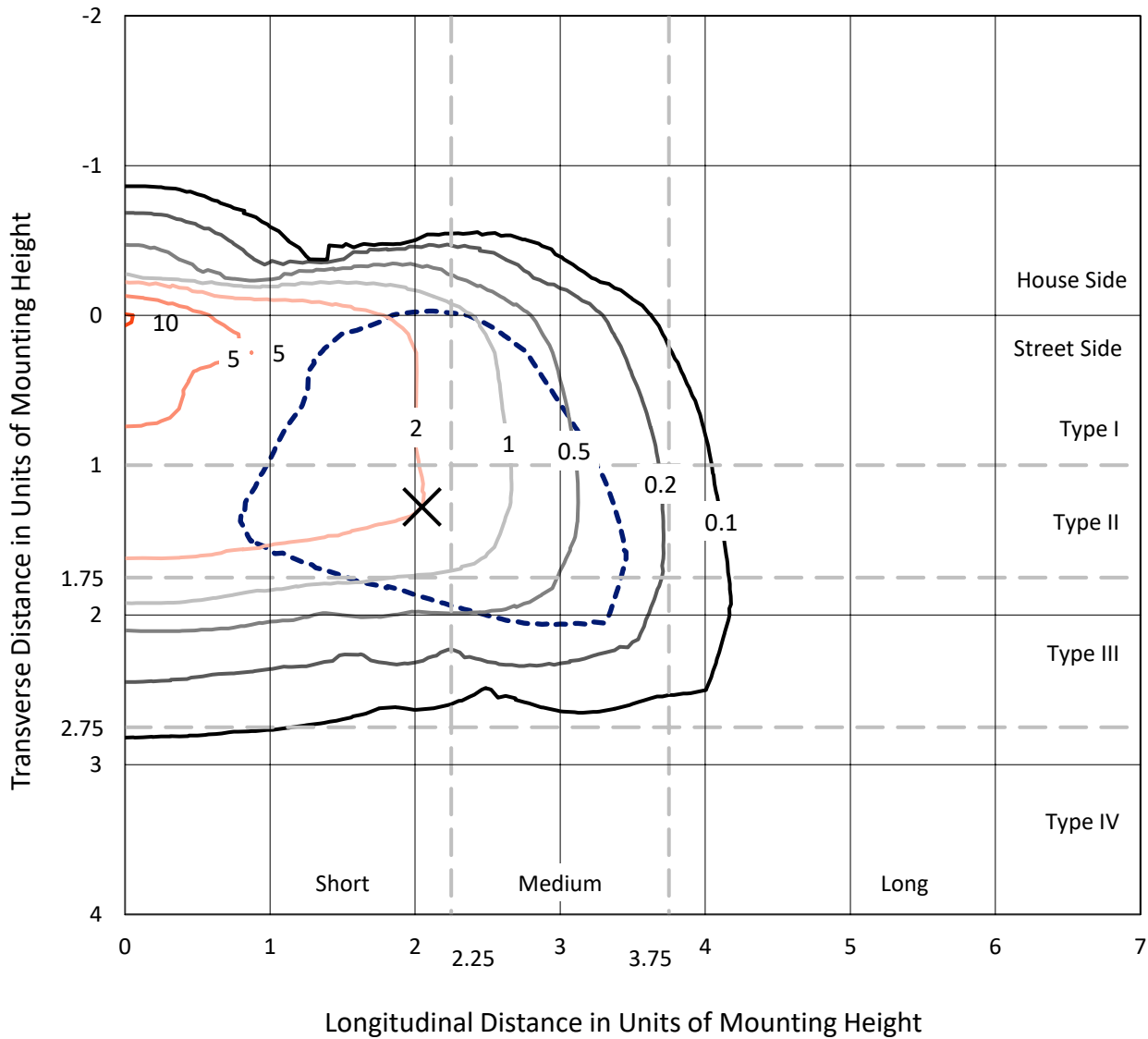
Lumens per Lamp: N/A  
Luminaire Lumens: 22396.2 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

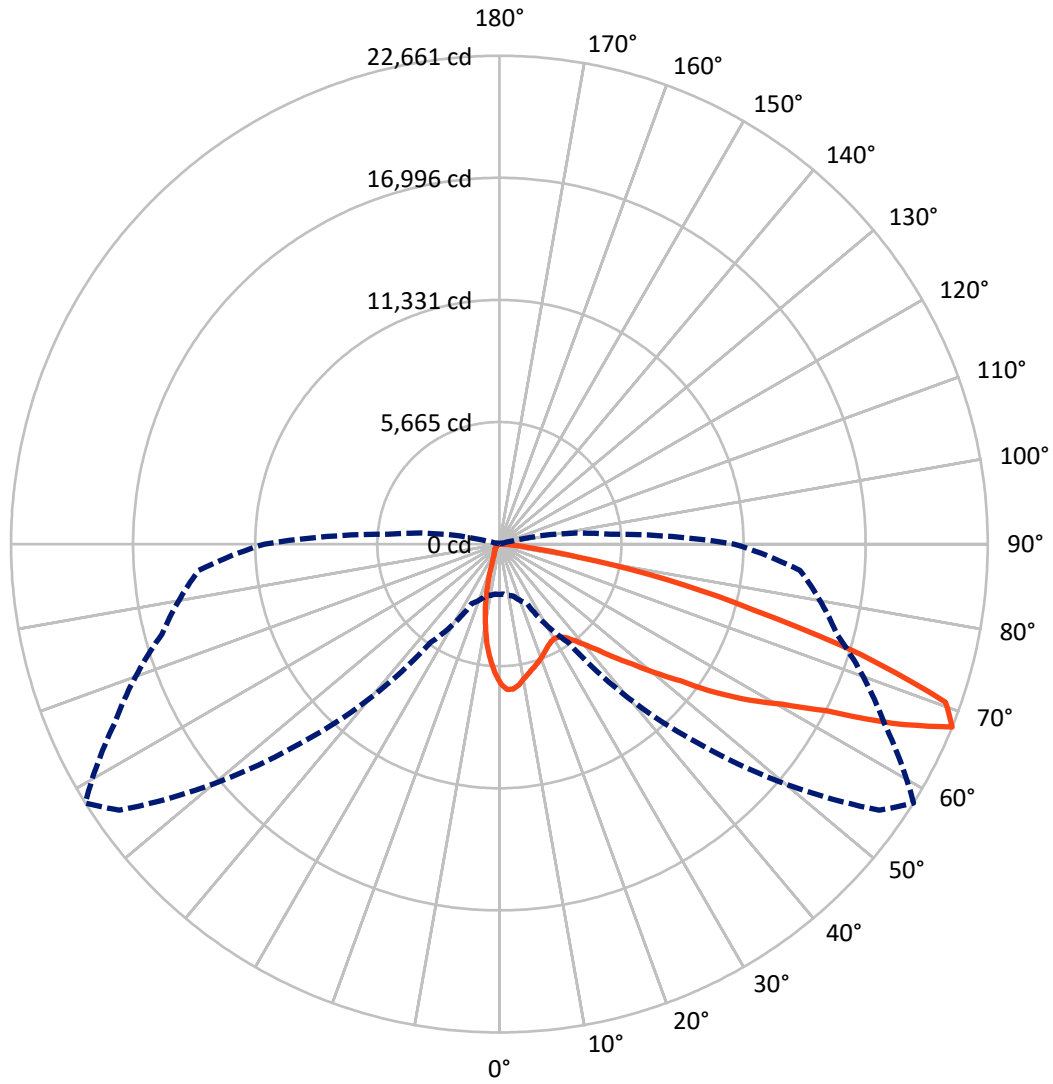
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 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	2188.0	0.0	2188.0
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	20208.2	0.0	20208.2
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	22396.2	0.0	22396.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	525.0	2.3
10°-20°	1092.7	4.9
20°-30°	1473.6	6.6
30°-40°	2070.8	9.2
40°-50°	3198.1	14.3
50°-60°	5114.2	22.8
60°-70°	6055.6	27.0
70°-80°	2678.8	12.0
80°-90°	187.3	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°	22396.2	100.0
0°-180°	22396.2	100.0

**Coefficient of Utilization**



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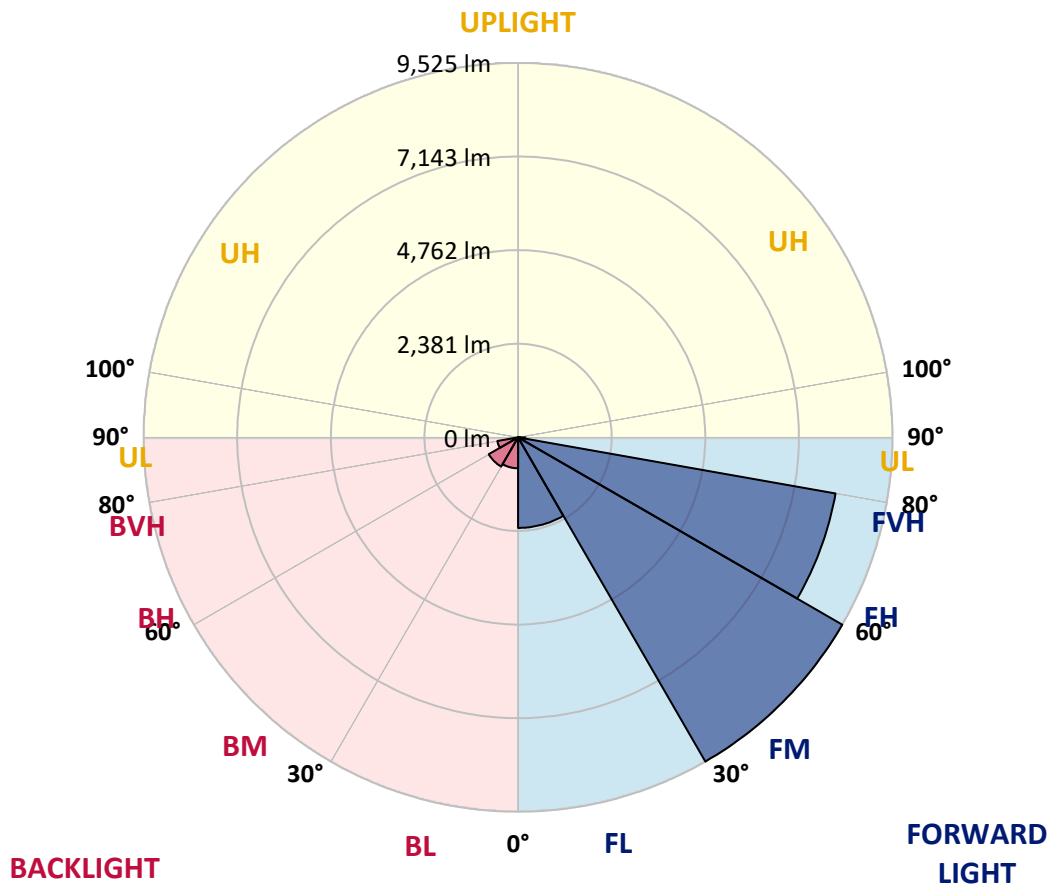
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2304.0	10.3			
FM (30°-60°)	9524.6	42.5			
FH (60°-80°)	8200.3	36.6			G4/12000
FVH (80°-90°)	179.3	0.8			G2/225
BL (0°-30°)	787.4	3.5	B2/1000		
BM (30°-60°)	858.5	3.8	B1/1000		
BH (60°-80°)	534.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1
2.5°	6795.1	6807.0	6822.9	6842.7	6838.7	6820.9	6799.1	6749.5	6717.8	6618.7	6497.8
5°	6577.1	6575.1	6614.7	6652.4	6719.8	6755.5	6805.0	6759.4	6743.6	6624.6	6428.4
7.5°	6150.9	6172.7	6218.3	6277.7	6374.9	6479.9	6598.9	6585.0	6632.6	6553.3	6309.5
10°	5732.6	5720.7	5792.1	5881.3	6030.0	6164.8	6337.2	6335.2	6460.1	6452.2	6174.7
12.5°	5365.9	5363.9	5419.4	5520.5	5695.0	5883.3	6117.2	6123.1	6277.7	6341.2	6059.7
15°	5056.7	5060.7	5114.2	5219.2	5399.6	5629.6	5901.1	5950.7	6125.1	6254.0	5946.7
17.5°	4836.7	4838.6	4870.4	4961.5	5138.0	5383.8	5710.8	5778.2	6002.2	6188.5	5855.5
20°	4735.6	4727.6	4733.6	4779.2	4916.0	5139.9	5516.6	5603.8	5889.2	6143.0	5772.3
22.5°	4749.4	4737.5	4709.8	4703.9	4765.3	4935.8	5310.4	5417.5	5766.3	6115.2	5697.0
25°	4872.3	4846.6	4806.9	4747.5	4723.7	4808.9	5130.0	5241.0	5651.4	6117.2	5639.5
27.5°	5060.7	5032.9	4983.3	4904.1	4810.9	4775.2	5007.1	5112.2	5570.1	6162.8	5611.7
30°	5300.5	5278.7	5231.1	5136.0	5011.1	4864.4	4981.4	5068.6	5530.4	6255.9	5623.6
32.5°	5584.0	5568.1	5528.5	5441.2	5298.5	5074.5	5068.6	5136.0	5562.2	6390.7	5669.2
35°	5857.5	5863.5	5865.4	5817.9	5665.2	5393.7	5308.4	5332.2	5693.0	6592.9	5772.3
37.5°	6152.9	6139.0	6210.4	6244.1	6097.4	5808.0	5679.1	5681.1	5942.8	6892.2	5966.5
40°	6376.9	6380.8	6535.4	6674.2	6612.7	6333.3	6148.9	6146.9	6327.3	7302.6	6279.7
42.5°	6587.0	6612.7	6840.7	7078.6	7163.8	6916.0	6783.2	6733.7	6866.5	7857.6	6749.5
45°	6811.0	6848.6	7167.8	7506.7	7730.7	7584.0	7479.0	7498.8	7514.7	8503.8	7381.9
47.5°	7072.6	7096.4	7490.9	7968.6	8386.9	8349.2	8355.1	8331.3	8323.4	9318.5	8218.4
50°	7389.8	7445.3	7899.2	8470.1	9041.0	9290.8	9374.0	9383.9	9255.1	10206.5	9084.6
52.5°	8063.7	8131.1	8519.7	9019.2	9754.6	10279.9	10618.9	10551.5	10353.2	11066.8	10034.1
55°	8858.6	8910.2	9284.8	9802.2	10626.8	11364.2	12169.0	12141.2	11655.6	11972.7	10815.1
57.5°	8933.9	8991.4	9572.2	10365.1	11746.7	12704.2	13550.6	13639.8	12928.2	12615.0	11512.8
60°	8087.5	8204.5	8997.4	10063.8	12174.9	14506.0	15065.0	15082.9	13861.8	13267.1	12365.2
62.5°	6481.9	6537.4	7336.3	8727.8	11514.8	15556.6	17378.3	17001.7	15061.0	14276.1	13715.1
65°	3397.6	3623.5	4319.3	5859.5	9338.3	15189.9	20161.3	20058.3	17217.7	15721.1	14765.7
67.5°	2331.1	2329.1	2493.7	3054.6	5568.1	13078.8	21527.1	22661.0	19711.4	16216.7	14004.5
70°	1774.1	1780.1	1926.7	2291.5	2884.2	8706.0	20028.5	21967.2	20175.2	14724.1	11326.5
72.5°	1177.4	1189.3	1433.2	1851.4	2303.4	4267.8	15564.5	17576.5	16975.9	11826.0	7972.6
75°	703.7	713.6	888.0	1345.9	2047.7	2388.6	9889.4	12151.1	11685.3	8151.0	4273.7
77.5°	289.4	297.3	455.9	838.5	1498.6	1855.4	5469.0	7950.8	6999.3	3241.0	1167.5
80°	120.9	124.9	220.0	586.7	1080.3	1163.6	2533.3	3736.5	2868.3	697.7	356.8
82.5°	43.6	45.6	81.3	323.1	672.0	876.1	1278.5	1476.8	808.8	228.0	192.3
85°	2.0	2.0	19.8	109.0	255.7	247.8	731.4	707.7	267.6	95.1	115.0
87.5°	0.0	0.0	2.0	2.0	4.0	9.9	69.4	122.9	57.5	23.8	49.6
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°	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1	6460.1
2.5°	6418.5	6313.4	6198.5	6091.4	5920.9	5819.9	5695.0	5639.5	5560.2	5540.4	5552.2
5°	6287.7	6107.3	5831.7	5582.0	5258.9	4999.2	4737.5	4626.5	4483.8	4388.7	4349.0
7.5°	6103.3	5867.4	5437.3	4983.3	4539.3	4065.6	3704.8	3466.9	3250.9	3131.9	3108.1
10°	5917.0	5609.7	4993.3	4343.1	3655.2	3088.3	2600.7	2239.9	1946.6	1813.7	1710.7
12.5°	5724.7	5342.1	4541.3	3692.9	2894.1	2121.0	1518.4	1167.5	957.4	874.2	888.0
15°	5548.3	5084.4	4093.3	3042.7	2037.7	1280.5	838.5	707.7	658.1	642.2	640.3
17.5°	5379.8	4840.6	3647.3	2410.4	1344.0	785.0	642.2	610.5	596.7	588.7	588.7
20°	5227.2	4606.7	3211.2	1815.7	868.2	622.4	580.8	564.9	553.0	547.1	547.1
22.5°	5084.4	4380.7	2785.0	1284.5	640.3	559.0	533.2	517.4	503.5	495.6	495.6
25°	4955.6	4176.6	2378.7	884.1	551.1	511.4	483.7	465.8	442.0	428.2	428.2
27.5°	4862.4	3994.2	1988.2	644.2	497.5	459.9	428.2	404.4	378.6	362.7	358.8
30°	4806.9	3839.6	1593.7	529.3	448.0	410.3	374.6	344.9	315.2	299.3	297.3
32.5°	4775.2	3696.9	1233.0	461.9	406.4	362.7	323.1	291.4	261.7	243.8	241.8
35°	4787.1	3585.9	923.7	416.3	366.7	321.1	277.5	245.8	220.0	204.2	200.2
37.5°	4890.2	3536.3	693.8	380.6	333.0	285.4	239.9	210.1	186.3	174.4	172.5
40°	5090.4	3546.2	545.1	352.8	305.3	249.8	206.2	178.4	160.6	150.7	148.7
42.5°	5401.6	3629.5	450.0	329.1	275.5	218.0	178.4	156.6	138.8	128.8	126.9
45°	5865.4	3801.9	392.5	301.3	243.8	188.3	154.6	134.8	118.9	107.0	105.1
47.5°	6537.4	4101.3	354.8	275.5	216.1	162.5	132.8	113.0	99.1	89.2	87.2
50°	7253.0	4460.0	323.1	249.8	192.3	140.7	113.0	93.2	81.3	71.4	69.4
52.5°	8016.2	4846.6	299.3	226.0	170.5	120.9	95.1	77.3	65.4	55.5	53.5
55°	8749.6	5235.1	271.6	210.1	144.7	103.1	79.3	63.4	51.5	43.6	43.6
57.5°	9463.2	5591.9	241.8	184.3	118.9	87.2	65.4	51.5	41.6	35.7	33.7
60°	10315.6	6085.5	208.1	156.6	99.1	73.3	53.5	41.6	33.7	27.8	27.8
62.5°	11582.2	6598.9	178.4	130.8	83.3	61.4	43.6	33.7	27.8	23.8	21.8
65°	11996.5	6321.4	150.7	107.0	67.4	49.6	35.7	29.7	23.8	21.8	19.8
67.5°	10890.4	5181.6	124.9	87.2	55.5	41.6	31.7	25.8	21.8	19.8	17.8
70°	8497.9	3677.1	97.1	65.4	45.6	33.7	27.8	23.8	19.8	17.8	17.8
72.5°	5780.2	2174.5	77.3	49.6	37.7	29.7	23.8	21.8	19.8	17.8	15.9
75°	2846.5	773.1	59.5	37.7	29.7	25.8	21.8	19.8	17.8	15.9	15.9
77.5°	767.1	214.1	45.6	29.7	23.8	19.8	19.8	19.8	17.8	13.9	13.9
80°	259.7	89.2	33.7	21.8	19.8	15.9	13.9	17.8	15.9	13.9	11.9
82.5°	142.7	43.6	23.8	17.8	13.9	11.9	11.9	11.9	11.9	9.9	9.9
85°	91.2	23.8	15.9	13.9	13.9	9.9	7.9	7.9	5.9	5.9	5.9
87.5°	41.6	13.9	13.9	11.9	11.9	9.9	5.9	4.0	2.0	2.0	2.0
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)