

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: P637815

Luminaire Tested: GWS-SA4D-750-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637815  
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-SA4D-750-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

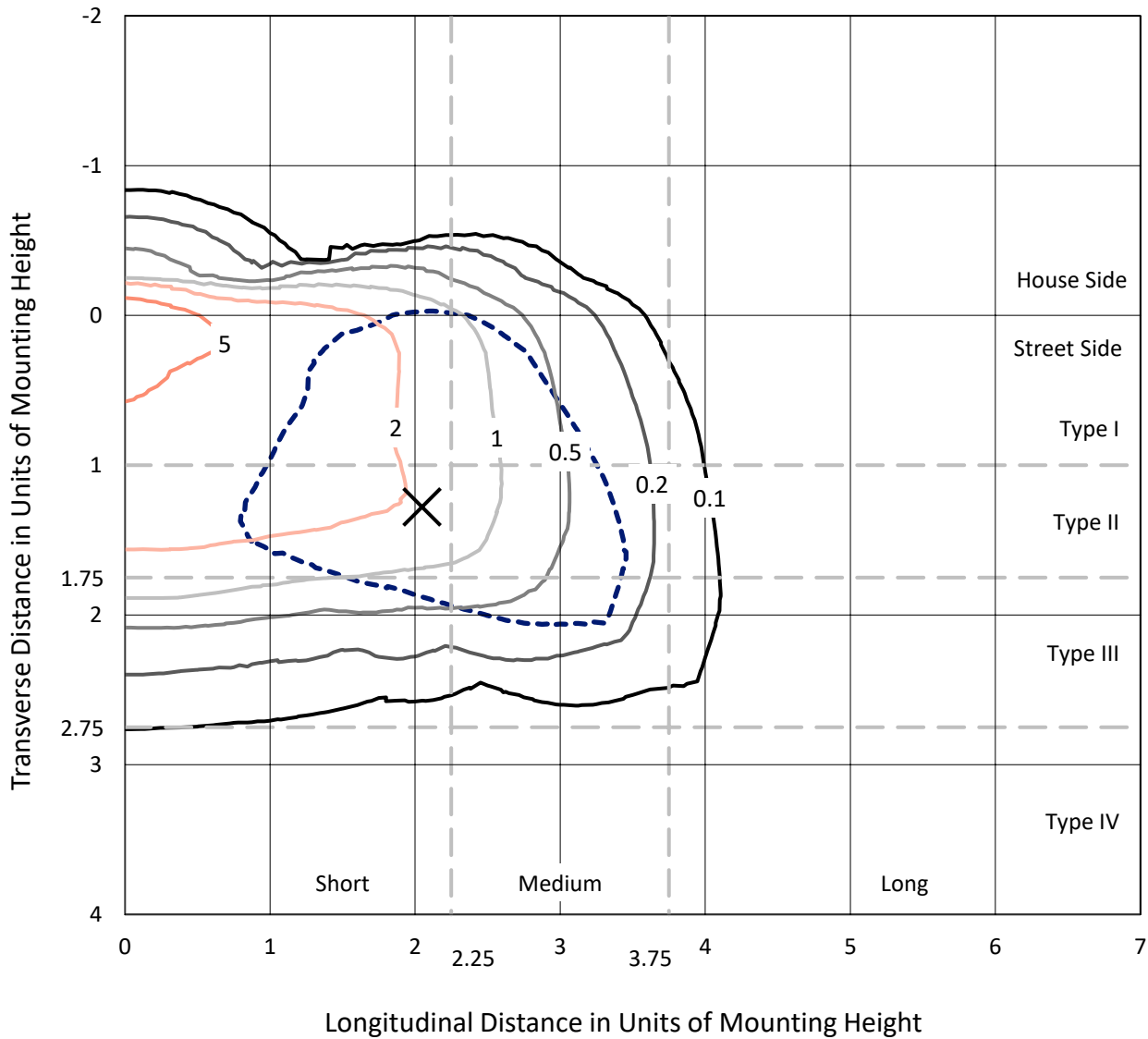
Lumens per Lamp: N/A  
Luminaire Lumens: 20288.6 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

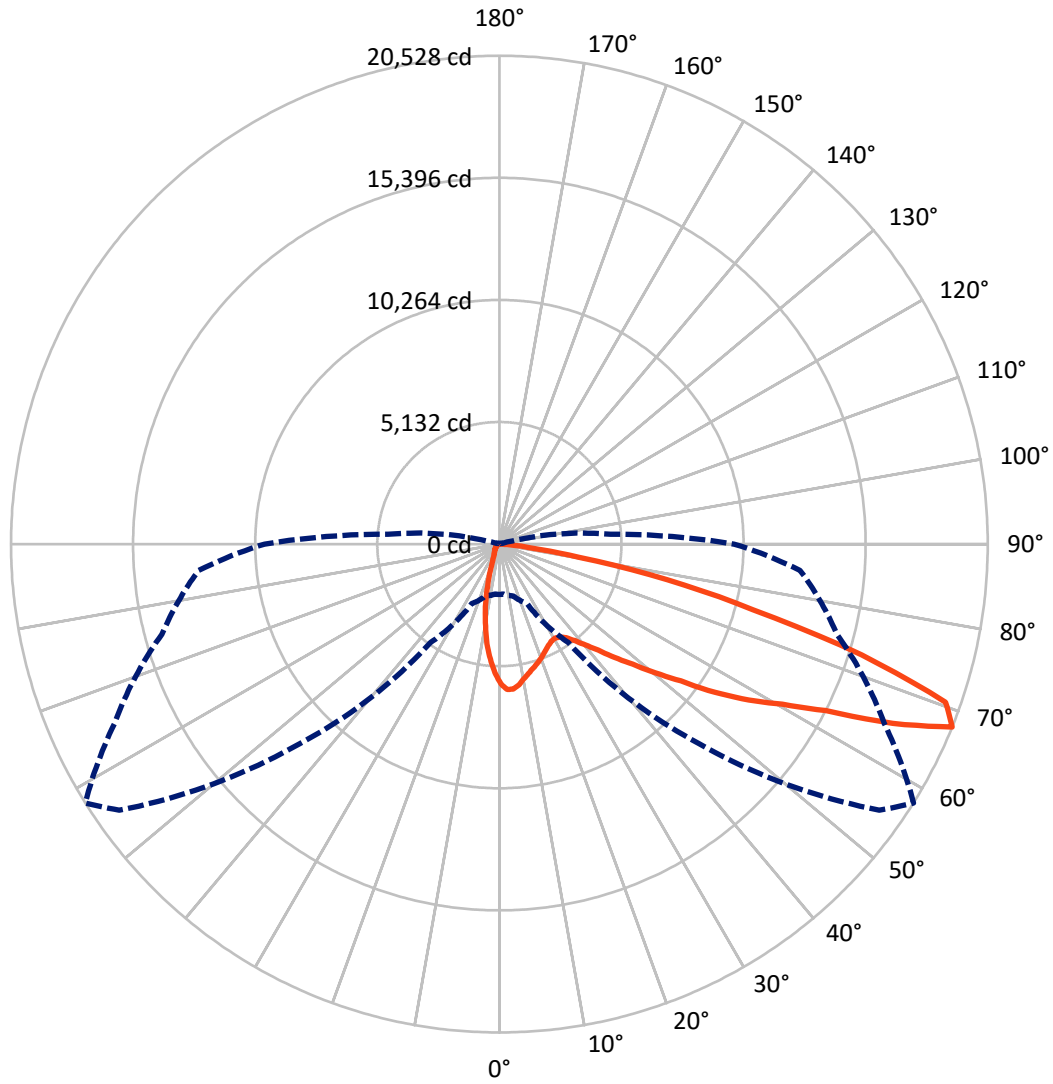
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	1982.1	0.0	1982.1
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	18306.5	0.0	18306.5
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	20288.6	0.0	20288.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	475.6	2.3
10°-20°	989.9	4.9
20°-30°	1335.0	6.6
30°-40°	1875.9	9.2
40°-50°	2897.2	14.3
50°-60°	4632.9	22.8
60°-70°	5485.7	27.0
70°-80°	2426.8	12.0
80°-90°	169.7	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°	20288.6	100.0
0°-180°	20288.6	100.0

**Coefficient of Utilization**



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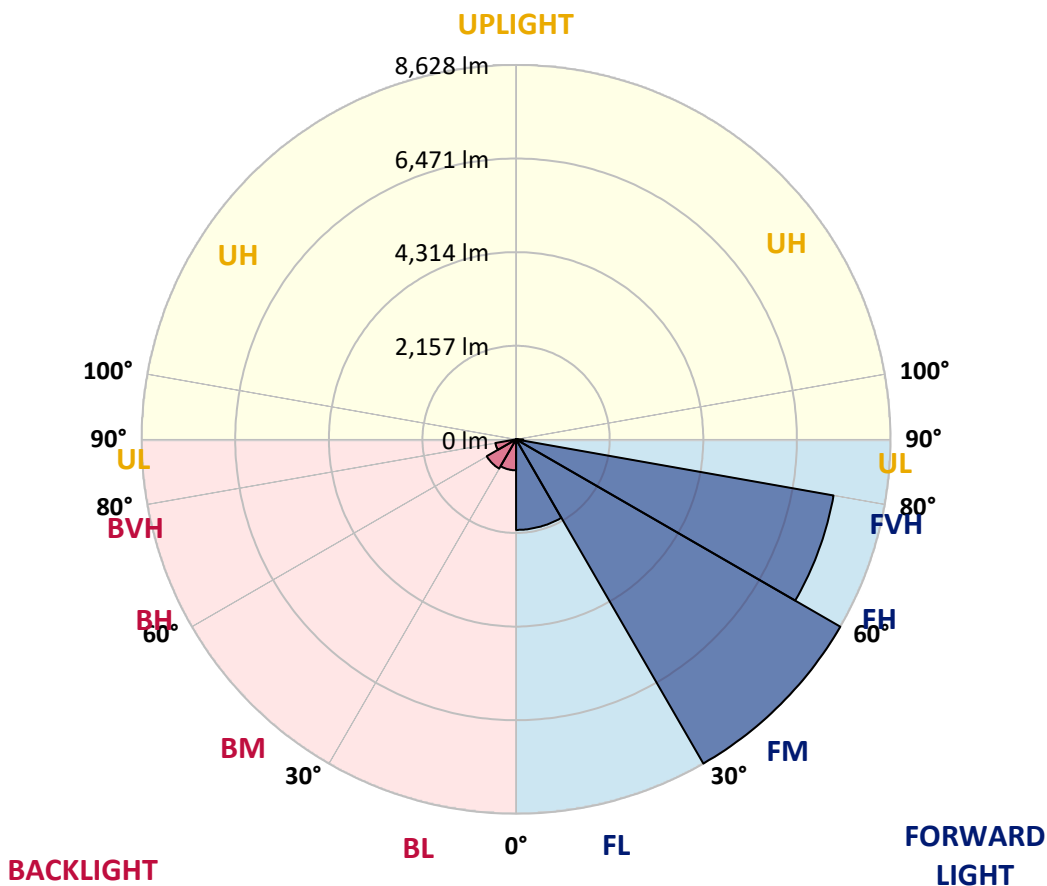
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2087.2	10.3			
FM (30°-60°)	8628.3	42.5			
FH (60°-80°)	7428.6	36.6			G3/7500
FVH (80°-90°)	162.4	0.8			G2/225
BL (0°-30°)	713.3	3.5	B2/1000		
BM (30°-60°)	777.7	3.8	B1/1000		
BH (60°-80°)	483.9	2.4	B1/500		G1/500
BVH (80°-90°)	7.2	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-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2
2.5°	6155.7	6166.4	6180.8	6198.8	6195.2	6179.0	6159.2	6114.4	6085.6	5995.8	5886.3
5°	5958.1	5956.3	5992.2	6026.4	6087.4	6119.7	6164.6	6123.3	6109.0	6001.2	5823.5
7.5°	5572.1	5591.8	5633.1	5687.0	5775.0	5870.1	5977.9	5965.3	6008.4	5936.6	5715.7
10°	5193.2	5182.4	5247.0	5327.8	5462.5	5584.6	5740.9	5739.1	5852.2	5845.0	5593.6
12.5°	4861.0	4859.2	4909.4	5001.0	5159.0	5329.6	5541.5	5546.9	5687.0	5744.4	5489.5
15°	4580.8	4584.4	4632.9	4728.1	4891.5	5099.8	5345.8	5390.7	5548.7	5665.4	5387.1
17.5°	4381.5	4383.3	4412.0	4494.6	4654.5	4877.1	5173.4	5234.5	5437.4	5606.2	5304.5
20°	4289.9	4282.7	4288.1	4329.4	4453.3	4656.2	4997.4	5076.4	5335.0	5564.9	5229.1
22.5°	4302.5	4291.7	4266.6	4261.2	4316.9	4471.3	4810.7	4907.6	5223.7	5539.7	5160.8
25°	4413.8	4390.5	4354.6	4300.7	4279.2	4356.4	4647.3	4747.8	5119.5	5541.5	5108.8
27.5°	4584.4	4559.3	4514.4	4442.6	4358.2	4325.8	4535.9	4631.1	5045.9	5582.8	5083.6
30°	4801.7	4781.9	4738.9	4652.7	4539.5	4406.6	4512.6	4591.6	5010.0	5667.2	5094.4
32.5°	5058.5	5044.1	5008.2	4929.2	4799.9	4597.0	4591.6	4652.7	5038.7	5789.3	5135.7
35°	5306.3	5311.7	5313.5	5270.4	5132.1	4886.1	4808.9	4830.4	5157.2	5972.5	5229.1
37.5°	5573.9	5561.3	5625.9	5656.5	5523.6	5261.4	5144.7	5146.5	5383.5	6243.6	5405.1
40°	5776.8	5780.4	5920.4	6046.1	5990.5	5737.3	5570.3	5568.5	5731.9	6615.4	5688.8
42.5°	5967.1	5990.5	6197.0	6412.4	6489.7	6265.2	6144.9	6100.0	6220.3	7118.2	6114.4
45°	6170.0	6204.1	6493.2	6800.3	7003.2	6870.3	6775.2	6793.1	6807.5	7703.6	6687.2
47.5°	6407.1	6428.6	6785.9	7218.7	7597.6	7563.5	7568.9	7547.3	7540.1	8441.6	7445.0
50°	6694.4	6744.6	7155.9	7673.0	8190.2	8416.4	8491.9	8500.8	8384.1	9246.1	8229.7
52.5°	7304.9	7366.0	7717.9	8170.4	8836.6	9312.5	9619.6	9558.5	9378.9	10025.4	9089.8
55°	8025.0	8071.7	8411.1	8879.7	9626.7	10294.7	11023.8	10998.7	10558.7	10846.0	9797.3
57.5°	8093.2	8145.3	8671.4	9389.7	10641.3	11508.6	12275.4	12356.2	11711.6	11427.8	10429.4
60°	7326.5	7432.4	8150.7	9116.8	11029.2	13140.9	13647.3	13663.5	12557.3	12018.6	11201.6
62.5°	5871.9	5922.2	6645.9	7906.5	10431.2	14092.6	15742.9	15401.7	13643.7	12932.6	12424.4
65°	3077.8	3282.5	3912.8	5308.1	8459.5	13760.4	18264.1	18170.7	15597.4	14241.7	13376.2
67.5°	2111.7	2109.9	2259.0	2767.2	5044.1	11848.0	19501.3	20528.4	17856.4	14690.6	12686.6
70°	1607.2	1612.5	1745.4	2075.8	2612.7	7886.7	18143.7	19899.9	18276.6	13338.5	10260.6
72.5°	1066.6	1077.4	1298.3	1677.2	2086.6	3866.1	14099.8	15922.5	15378.4	10713.1	7222.3
75°	637.5	646.5	804.5	1219.3	1855.0	2163.8	8958.7	11007.6	10585.6	7383.9	3871.5
77.5°	262.2	269.4	413.0	759.6	1357.5	1680.8	4954.3	7202.6	6340.6	2936.0	1057.7
80°	109.5	113.1	199.3	531.5	978.7	1054.1	2294.9	3384.9	2598.4	632.1	323.2
82.5°	39.5	41.3	73.6	292.7	608.7	793.7	1158.2	1337.8	732.6	206.5	174.2
85°	1.8	1.8	18.0	98.8	231.6	224.5	662.6	641.1	242.4	86.2	104.2
87.5°	0.0	0.0	1.8	1.8	3.6	9.0	62.8	111.3	52.1	21.5	44.9
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°	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2	5852.2
2.5°	5814.5	5719.3	5615.2	5518.2	5363.8	5272.2	5159.0	5108.8	5036.9	5019.0	5029.8
5°	5696.0	5532.5	5282.9	5056.7	4764.0	4528.8	4291.7	4191.2	4061.9	3975.7	3939.8
7.5°	5529.0	5315.3	4925.6	4514.4	4112.2	3683.0	3356.2	3140.7	2944.9	2837.2	2815.7
10°	5360.2	5081.8	4523.4	3934.4	3311.3	2797.7	2356.0	2029.1	1763.4	1643.1	1549.7
12.5°	5186.0	4839.4	4113.9	3345.4	2621.7	1921.4	1375.5	1057.7	867.3	791.9	804.5
15°	5026.2	4606.0	3708.1	2756.4	1846.0	1160.0	759.6	641.1	596.2	581.8	580.0
17.5°	4873.5	4385.1	3304.1	2183.6	1217.5	711.1	581.8	553.1	540.5	533.3	533.3
20°	4735.3	4173.2	2909.0	1644.9	786.5	563.8	526.1	511.8	501.0	495.6	495.6
22.5°	4606.0	3968.5	2523.0	1163.6	580.0	506.4	483.0	468.7	456.1	448.9	448.9
25°	4489.2	3783.5	2154.8	800.9	499.2	463.3	438.2	422.0	400.4	387.9	387.9
27.5°	4404.9	3618.3	1801.1	583.6	450.7	416.6	387.9	366.3	343.0	328.6	325.0
30°	4354.6	3478.3	1443.7	479.5	405.8	371.7	339.4	312.5	285.5	271.2	269.4
32.5°	4325.8	3349.0	1116.9	418.4	368.1	328.6	292.7	264.0	237.0	220.9	219.1
35°	4336.6	3248.4	836.8	377.1	332.2	290.9	251.4	222.7	199.3	185.0	181.4
37.5°	4430.0	3203.5	628.5	344.8	301.7	258.6	217.3	190.3	168.8	158.0	156.2
40°	4611.4	3212.5	493.8	319.6	276.5	226.3	186.8	161.6	145.5	136.5	134.7
42.5°	4893.3	3287.9	407.6	298.1	249.6	197.5	161.6	141.9	125.7	116.7	114.9
45°	5313.5	3444.2	355.5	272.9	220.9	170.6	140.1	122.1	107.7	97.0	95.2
47.5°	5922.2	3715.3	321.4	249.6	195.7	147.2	120.3	102.4	89.8	80.8	79.0
50°	6570.5	4040.3	292.7	226.3	174.2	127.5	102.4	84.4	73.6	64.6	62.8
52.5°	7261.8	4390.5	271.2	204.7	154.4	109.5	86.2	70.0	59.3	50.3	48.5
55°	7926.2	4742.4	246.0	190.3	131.1	93.4	71.8	57.5	46.7	39.5	39.5
57.5°	8572.7	5065.7	219.1	167.0	107.7	79.0	59.3	46.7	37.7	32.3	30.5
60°	9344.8	5512.8	188.5	141.9	89.8	66.4	48.5	37.7	30.5	25.1	25.1
62.5°	10492.3	5977.9	161.6	118.5	75.4	55.7	39.5	30.5	25.1	21.5	19.8
65°	10867.6	5726.5	136.5	97.0	61.1	44.9	32.3	26.9	21.5	19.8	18.0
67.5°	9865.6	4694.0	113.1	79.0	50.3	37.7	28.7	23.3	19.8	18.0	16.2
70°	7698.2	3331.0	88.0	59.3	41.3	30.5	25.1	21.5	18.0	16.2	16.2
72.5°	5236.3	1969.9	70.0	44.9	34.1	26.9	21.5	19.8	18.0	16.2	14.4
75°	2578.6	700.3	53.9	34.1	26.9	23.3	19.8	18.0	16.2	14.4	14.4
77.5°	694.9	193.9	41.3	26.9	21.5	18.0	18.0	18.0	16.2	12.6	12.6
80°	235.2	80.8	30.5	19.8	18.0	14.4	12.6	16.2	14.4	12.6	10.8
82.5°	129.3	39.5	21.5	16.2	12.6	10.8	10.8	10.8	10.8	9.0	9.0
85°	82.6	21.5	14.4	12.6	12.6	9.0	7.2	7.2	5.4	5.4	5.4
87.5°	37.7	12.6	12.6	10.8	10.8	9.0	5.4	3.6	1.8	1.8	1.8
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)