

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: P637760

Luminaire Tested: GWS-SA4D-740-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637760  
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-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

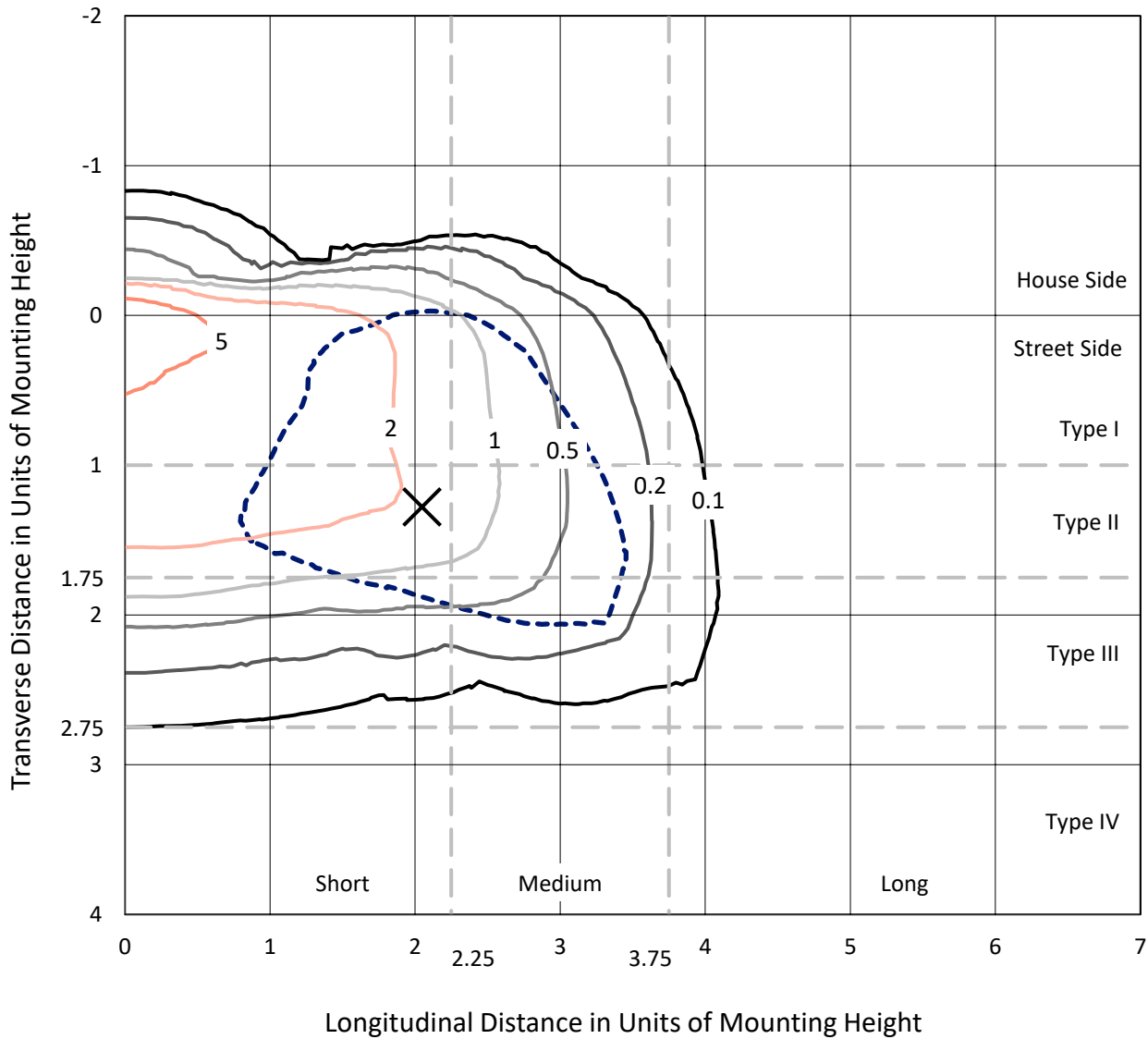
Lumens per Lamp: N/A  
Luminaire Lumens: 19834.1 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

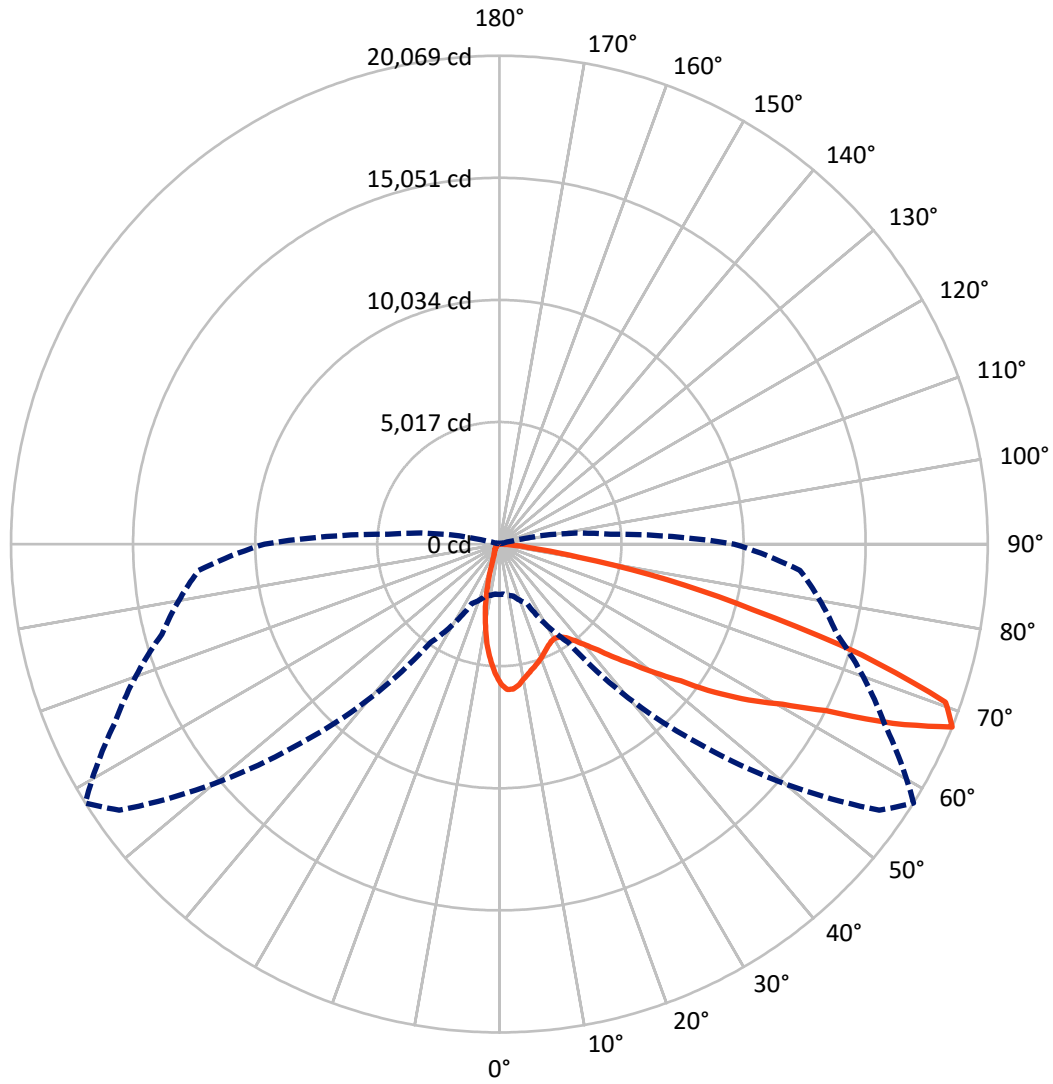
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	1937.7	0.0	1937.7
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	17896.4	0.0	17896.4
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	19834.1	0.0	19834.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	2.3
10°-20°	967.7	4.9
20°-30°	1305.1	6.6
30°-40°	1833.9	9.2
40°-50°	2832.3	14.3
50°-60°	4529.2	22.8
60°-70°	5362.9	27.0
70°-80°	2372.4	12.0
80°-90°	165.9	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°	19834.1	100.0
0°-180°	19834.1	100.0

**Coefficient of Utilization**



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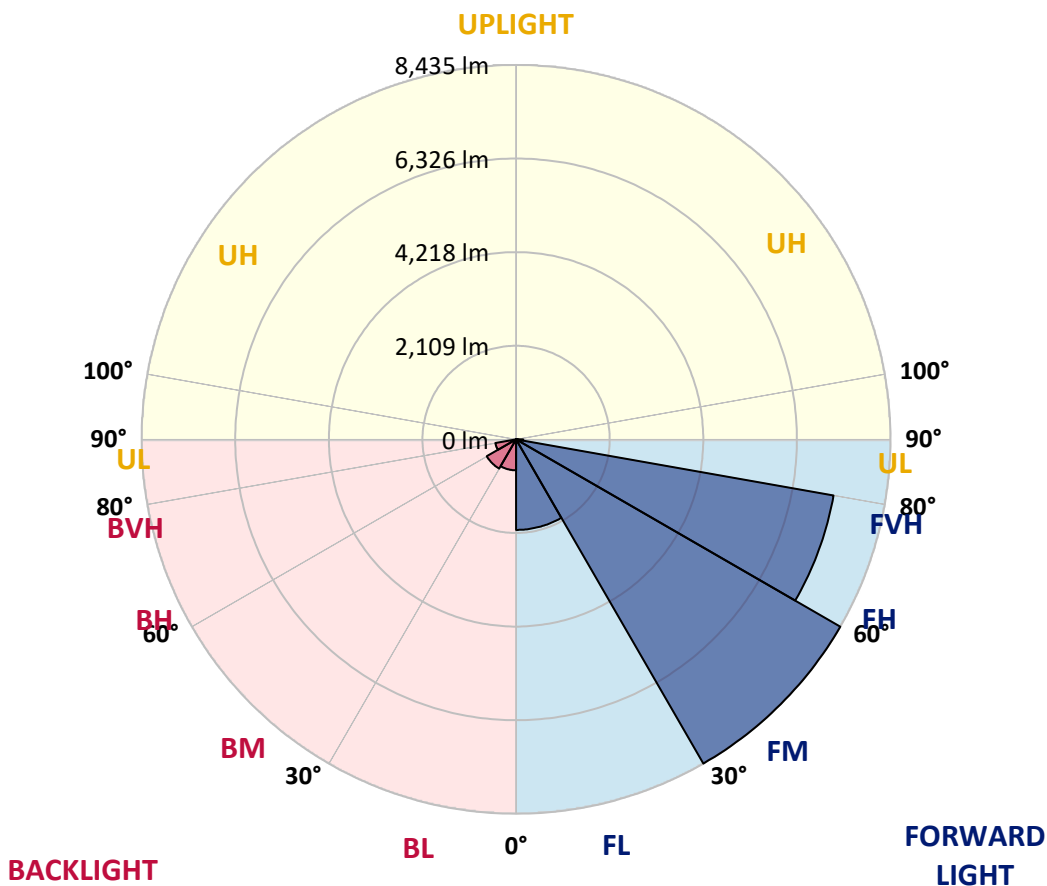
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2040.4	10.3			
FM (30°-60°)	8435.0	42.5			
FH (60°-80°)	7262.2	36.6			G3/7500
FVH (80°-90°)	158.8	0.8			G2/225
BL (0°-30°)	697.3	3.5	B2/1000		
BM (30°-60°)	760.3	3.8	B1/1000		
BH (60°-80°)	473.1	2.4	B1/500		G1/500
BVH (80°-90°)	7.1	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°	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1
2.5°	6017.8	6028.3	6042.3	6059.9	6056.4	6040.6	6021.3	5977.4	5949.3	5861.5	5754.4
5°	5824.7	5822.9	5858.0	5891.4	5951.1	5982.7	6026.5	5986.2	5972.1	5866.8	5693.0
7.5°	5447.2	5466.5	5506.9	5559.6	5645.6	5738.6	5844.0	5831.7	5873.8	5803.6	5587.7
10°	5076.8	5066.3	5129.5	5208.5	5340.1	5459.5	5612.2	5610.5	5721.1	5714.1	5468.3
12.5°	4752.1	4750.3	4799.5	4889.0	5043.5	5210.2	5417.4	5422.7	5559.6	5615.8	5366.5
15°	4478.2	4481.7	4529.1	4622.2	4781.9	4985.5	5226.0	5269.9	5424.4	5538.5	5266.4
17.5°	4283.4	4285.1	4313.2	4393.9	4550.2	4767.9	5057.5	5117.2	5315.6	5480.6	5185.7
20°	4193.8	4186.8	4192.1	4232.4	4353.6	4551.9	4885.5	4962.7	5215.5	5440.2	5111.9
22.5°	4206.1	4195.6	4171.0	4165.7	4220.2	4371.1	4702.9	4797.7	5106.7	5415.6	5045.2
25°	4315.0	4292.1	4257.0	4204.4	4183.3	4258.8	4543.2	4641.5	5004.9	5417.4	4994.3
27.5°	4481.7	4457.1	4413.3	4343.0	4260.5	4228.9	4434.3	4527.4	4932.9	5457.8	4969.7
30°	4694.1	4674.8	4632.7	4548.4	4437.8	4307.9	4411.5	4488.7	4897.8	5540.3	4980.3
32.5°	4945.2	4931.1	4896.0	4818.8	4692.4	4494.0	4488.7	4548.4	4925.9	5659.6	5020.7
35°	5187.4	5192.7	5194.4	5152.3	5017.1	4776.6	4701.2	4722.2	5041.7	5838.7	5111.9
37.5°	5449.0	5436.7	5499.9	5529.7	5399.8	5143.5	5029.4	5031.2	5262.9	6103.8	5284.0
40°	5647.4	5650.9	5787.8	5910.7	5856.3	5608.7	5445.5	5443.7	5603.5	6467.2	5561.3
42.5°	5833.4	5856.3	6058.1	6268.8	6344.3	6124.8	6007.2	5963.3	6081.0	6958.7	5977.4
45°	6031.8	6065.2	6347.8	6648.0	6846.3	6716.4	6623.4	6641.0	6655.0	7531.0	6537.4
47.5°	6263.5	6284.6	6633.9	7057.0	7427.4	7394.1	7399.3	7378.3	7371.2	8252.5	7278.2
50°	6544.4	6593.6	6995.6	7501.1	8006.7	8227.9	8301.6	8310.4	8196.3	9038.9	8045.3
52.5°	7141.3	7200.9	7545.0	7987.4	8638.7	9103.9	9404.1	9344.4	9168.8	9800.8	8886.2
55°	7845.2	7890.8	8222.6	8680.8	9411.1	10064.1	10776.8	10752.3	10322.2	10603.1	9577.9
57.5°	7911.9	7962.8	8477.2	9179.4	10402.9	11250.8	12000.4	12079.4	11449.2	11171.8	10195.8
60°	7162.3	7265.9	7968.1	8912.5	10782.1	12846.5	13341.6	13357.4	12276.0	11749.4	10950.6
62.5°	5740.4	5789.5	6497.0	7729.3	10197.5	13776.9	15390.2	15056.7	13338.1	12642.9	12146.1
65°	3008.9	3209.0	3825.2	5189.2	8270.0	13452.2	17854.9	17763.6	15248.0	13922.7	13076.5
67.5°	2064.4	2062.7	2208.4	2705.2	4931.1	11582.6	19064.4	20068.6	17456.4	14361.5	12402.4
70°	1571.1	1576.4	1706.3	2029.3	2554.2	7710.0	17737.3	19454.1	17867.2	13039.7	10030.8
72.5°	1042.8	1053.3	1269.2	1639.6	2039.9	3779.5	13784.0	15565.8	15033.9	10473.1	7060.5
75°	623.2	632.0	786.5	1192.0	1813.4	2115.3	8758.1	10761.0	10348.5	7218.5	3784.8
77.5°	256.3	263.3	403.8	742.6	1327.1	1643.1	4843.3	7041.2	6198.6	2870.2	1034.0
80°	107.1	110.6	194.9	519.6	956.7	1030.5	2243.5	3309.1	2540.2	617.9	316.0
82.5°	38.6	40.4	72.0	286.1	595.1	775.9	1132.3	1307.8	716.2	201.9	170.3
85°	1.8	1.8	17.6	96.6	226.5	219.4	647.8	626.7	237.0	84.3	101.8
87.5°	0.0	0.0	1.8	1.8	3.5	8.8	61.4	108.8	50.9	21.1	43.9
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°	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1	5721.1
2.5°	5684.2	5591.2	5489.4	5394.6	5243.6	5154.1	5043.5	4994.3	4924.1	4906.5	4917.1
5°	5568.4	5408.6	5164.6	4943.4	4657.3	4427.3	4195.6	4097.3	3970.9	3886.6	3851.5
7.5°	5405.1	5196.2	4815.3	4413.3	4020.0	3600.5	3281.0	3070.3	2879.0	2773.6	2752.6
10°	5240.1	4968.0	4422.0	3846.2	3237.1	2735.0	2303.2	1983.7	1723.9	1606.3	1515.0
12.5°	5069.8	4731.0	4021.8	3270.4	2563.0	1878.4	1344.7	1034.0	847.9	774.2	786.5
15°	4913.6	4502.8	3625.1	2694.7	1804.6	1134.0	742.6	626.7	582.8	568.8	567.0
17.5°	4764.4	4286.9	3230.1	2134.7	1190.2	695.2	568.8	540.7	528.4	521.4	521.4
20°	4629.2	4079.7	2843.9	1608.0	768.9	551.2	514.4	500.3	489.8	484.5	484.5
22.5°	4502.8	3879.6	2466.4	1137.5	567.0	495.0	472.2	458.2	445.9	438.9	438.9
25°	4388.7	3698.8	2106.6	782.9	488.0	452.9	428.3	412.5	391.5	379.2	379.2
27.5°	4306.2	3537.3	1760.7	570.5	440.6	407.3	379.2	358.1	335.3	321.3	317.7
30°	4257.0	3400.4	1411.4	468.7	396.7	363.4	331.8	305.5	279.1	265.1	263.3
32.5°	4228.9	3274.0	1091.9	409.0	359.9	321.3	286.1	258.1	231.7	215.9	214.2
35°	4239.5	3175.7	818.1	368.6	324.8	284.4	245.8	217.7	194.9	180.8	177.3
37.5°	4330.8	3131.8	614.4	337.1	294.9	252.8	212.4	186.1	165.0	154.5	152.7
40°	4508.1	3140.5	482.8	312.5	270.3	221.2	182.6	158.0	142.2	133.4	131.7
42.5°	4783.7	3214.3	398.5	291.4	244.0	193.1	158.0	138.7	122.9	114.1	112.4
45°	5194.4	3367.0	347.6	266.8	215.9	166.8	136.9	119.4	105.3	94.8	93.0
47.5°	5789.5	3632.1	314.2	244.0	191.3	143.9	117.6	100.1	87.8	79.0	77.2
50°	6423.3	3949.8	286.1	221.2	170.3	124.6	100.1	82.5	72.0	63.2	61.4
52.5°	7099.1	4292.1	265.1	200.1	151.0	107.1	84.3	68.5	57.9	49.2	47.4
55°	7748.7	4636.2	240.5	186.1	128.1	91.3	70.2	56.2	45.6	38.6	38.6
57.5°	8380.6	4952.2	214.2	163.3	105.3	77.2	57.9	45.6	36.9	31.6	29.8
60°	9135.5	5389.3	184.3	138.7	87.8	65.0	47.4	36.9	29.8	24.6	24.6
62.5°	10257.2	5844.0	158.0	115.9	73.7	54.4	38.6	29.8	24.6	21.1	19.3
65°	10624.1	5598.2	133.4	94.8	59.7	43.9	31.6	26.3	21.1	19.3	17.6
67.5°	9644.6	4588.8	110.6	77.2	49.2	36.9	28.1	22.8	19.3	17.6	15.8
70°	7525.7	3256.4	86.0	57.9	40.4	29.8	24.6	21.1	17.6	15.8	15.8
72.5°	5119.0	1925.8	68.5	43.9	33.4	26.3	21.1	19.3	17.6	15.8	14.0
75°	2520.9	684.6	52.7	33.4	26.3	22.8	19.3	17.6	15.8	14.0	14.0
77.5°	679.4	189.6	40.4	26.3	21.1	17.6	17.6	17.6	15.8	12.3	12.3
80°	230.0	79.0	29.8	19.3	17.6	14.0	12.3	15.8	14.0	12.3	10.5
82.5°	126.4	38.6	21.1	15.8	12.3	10.5	10.5	10.5	10.5	8.8	8.8
85°	80.8	21.1	14.0	12.3	12.3	8.8	7.0	7.0	5.3	5.3	5.3
87.5°	36.9	12.3	12.3	10.5	10.5	8.8	5.3	3.5	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)