

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: P638337

Luminaire Tested: GWS-SA4E-750-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638337  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-750-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

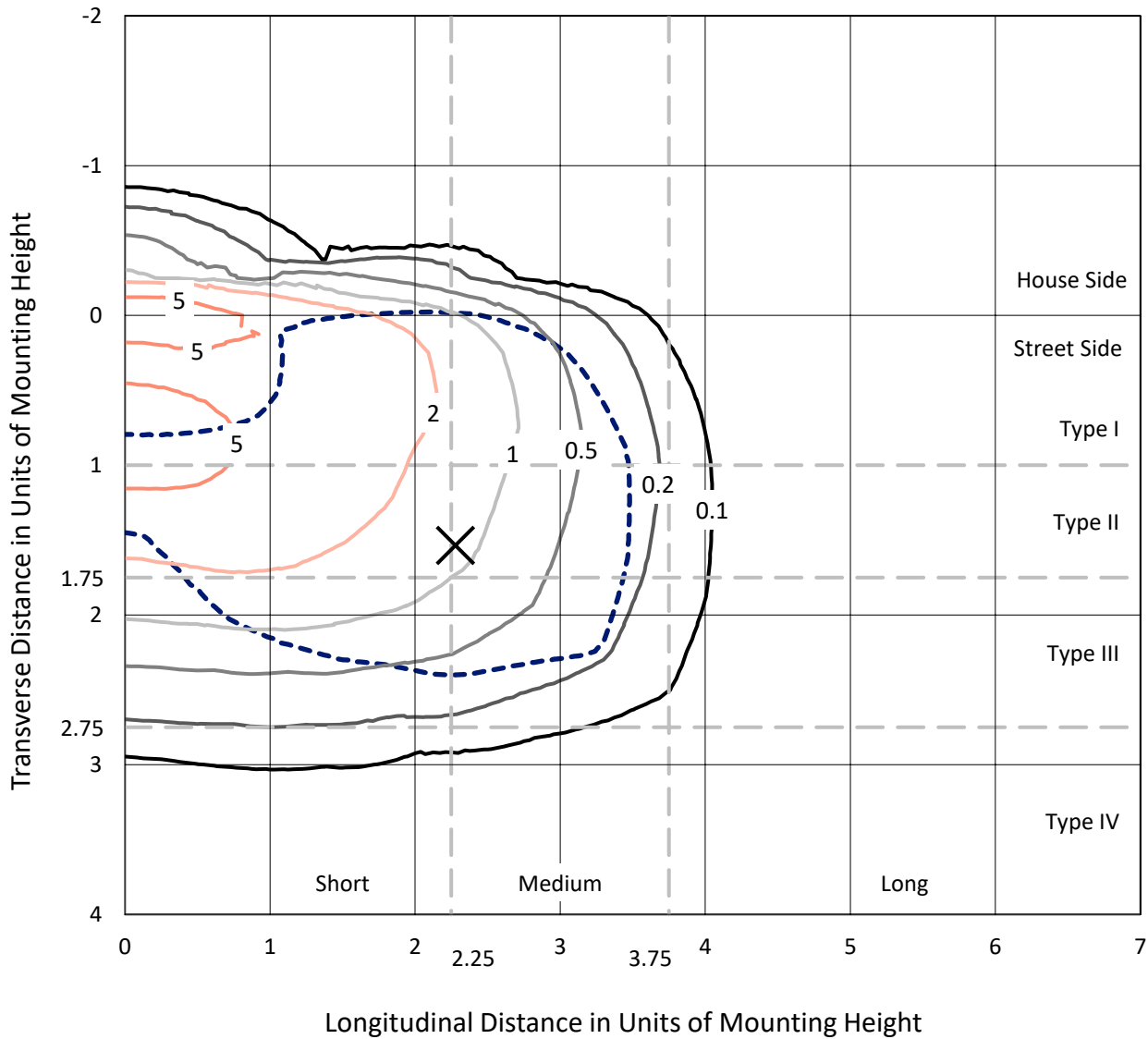
Lumens per Lamp: N/A  
Luminaire Lumens: 24505.4 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

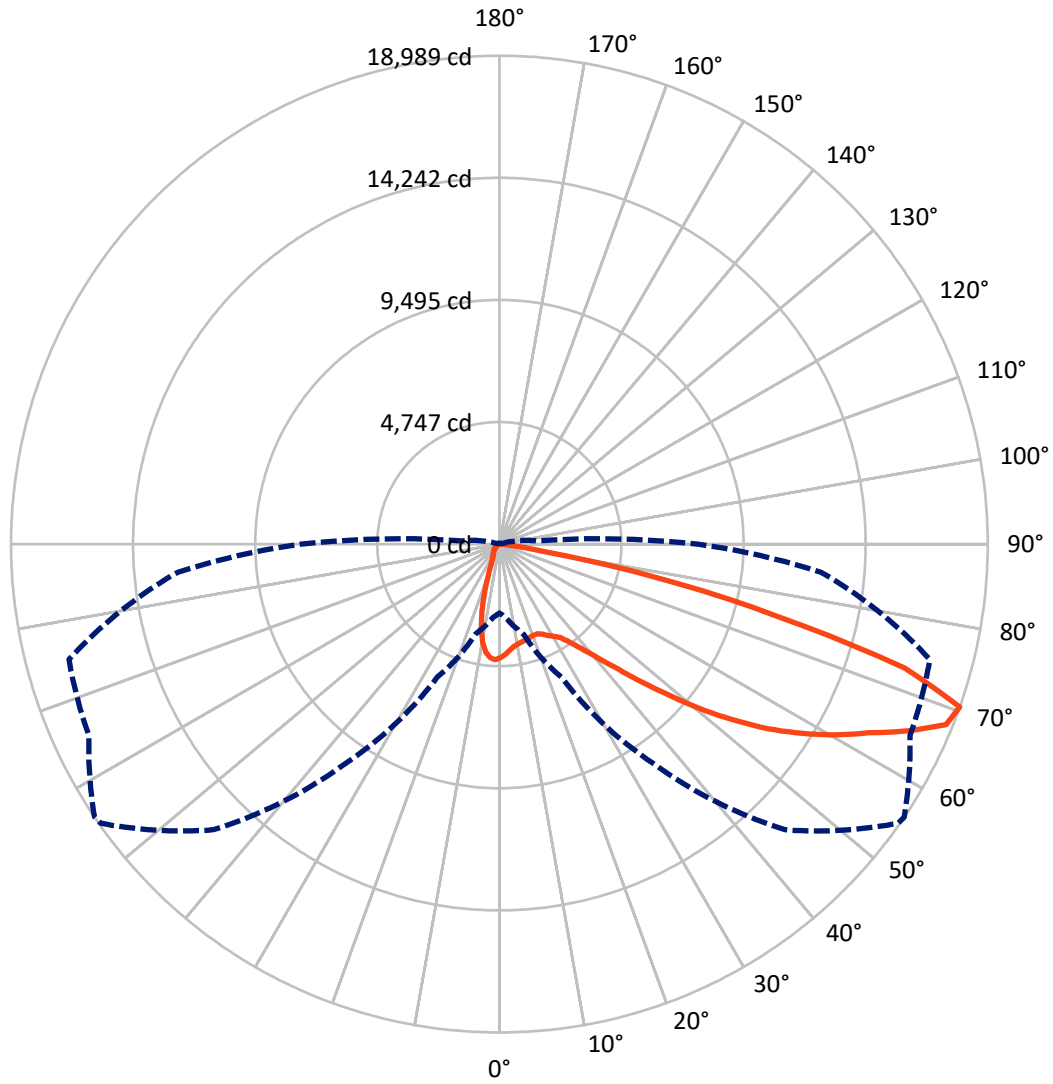
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2201.1	0.0	2201.1
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	22304.3	0.0	22304.3
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	24505.4	0.0	24505.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.4	1.5
10°-20°	853.2	3.5
20°-30°	1351.6	5.5
30°-40°	2330.7	9.5
40°-50°	3935.8	16.1
50°-60°	5783.0	23.6
60°-70°	6856.1	28.0
70°-80°	2923.7	11.9
80°-90°	91.8	0.4
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°	24505.4	100.0
0°-180°	24505.4	100.0

**Coefficient of Utilization**



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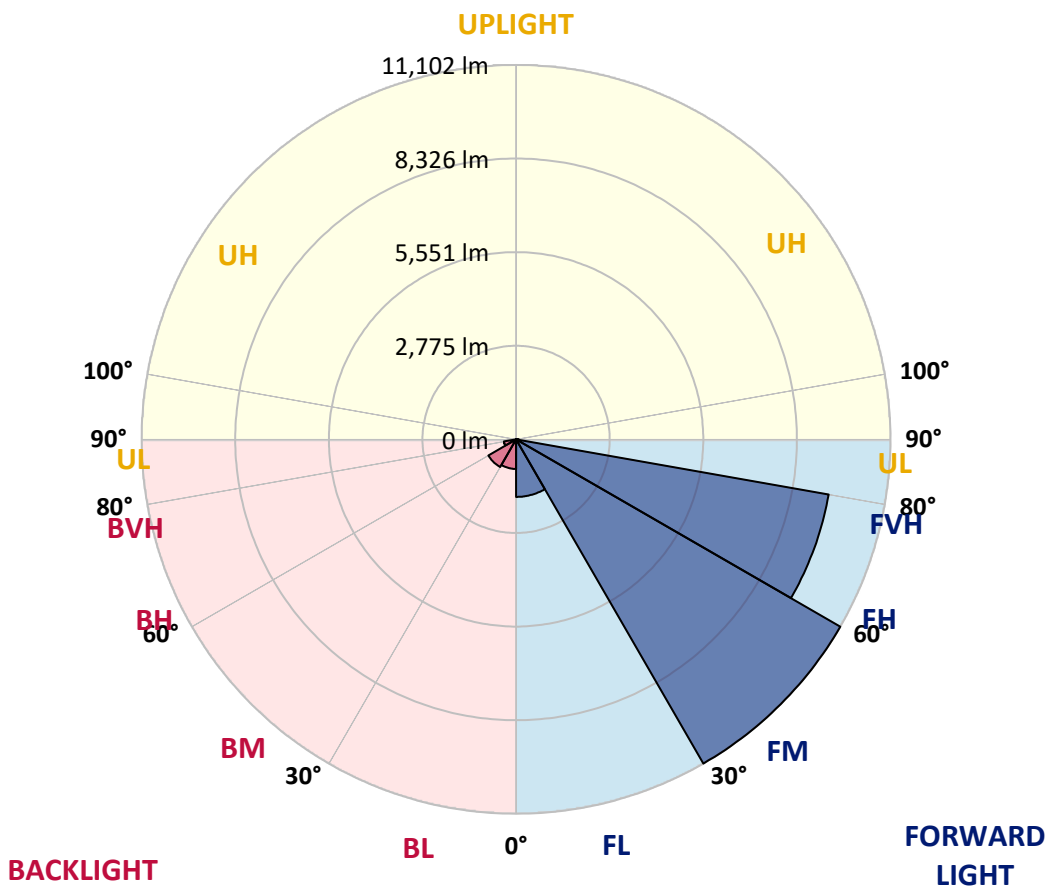
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1707.6	7.0			
FM (30°-60°)	11101.6	45.3			
FH (60°-80°)	9412.7	38.4			G4/12000
FVH (80°-90°)	82.5	0.3			G1/100
BL (0°-30°)	876.6	3.6	B2/1000		
BM (30°-60°)	948.0	3.9	B1/1000		
BH (60°-80°)	367.1	1.5	B1/500		G1/500
BVH (80°-90°)	9.3	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6
2.5°	4113.4	4106.6	4111.1	4144.8	4207.6	4236.8	4286.2	4295.1	4335.5	4387.2	4407.3
5°	3846.3	3823.9	3835.1	3882.2	3954.0	4034.8	4126.8	4151.5	4252.5	4367.0	4452.2
7.5°	3601.7	3577.0	3604.0	3678.0	3779.0	3866.5	4003.4	4019.1	4180.7	4382.7	4537.5
10°	3218.0	3224.7	3278.6	3408.7	3563.6	3745.3	3929.4	3951.8	4151.5	4434.3	4674.4
12.5°	2924.0	2908.3	2966.7	3114.8	3332.4	3597.2	3873.3	3902.4	4153.8	4512.8	4849.4
15°	2787.1	2782.6	2807.3	2915.0	3126.0	3437.9	3821.6	3859.8	4182.9	4584.6	5015.5
17.5°	2791.6	2784.9	2782.6	2845.5	3002.6	3319.0	3765.5	3814.9	4207.6	4663.2	5190.5
20°	2986.9	2955.4	2899.3	2870.2	2964.4	3242.7	3727.4	3783.5	4243.5	4746.2	5376.8
22.5°	3395.3	3406.5	3256.1	3099.1	3054.2	3251.7	3722.9	3788.0	4322.1	4876.4	5605.7
25°	4212.1	4194.2	3915.9	3563.6	3319.0	3354.9	3801.5	3880.0	4476.9	5062.6	5821.1
27.5°	5235.4	5251.1	4869.6	4308.6	3797.0	3568.1	3945.1	4023.6	4656.4	5179.3	5964.7
30°	6350.7	6335.0	5926.6	5305.0	4474.7	3922.6	4088.7	4158.3	4746.2	5242.1	6112.8
32.5°	7405.4	7369.5	6965.6	6314.8	5338.6	4481.4	4286.2	4326.6	4865.1	5379.0	6312.6
35°	8305.3	8303.1	7950.7	7257.3	6227.3	5181.6	4625.0	4658.7	5087.3	5596.7	6606.5
37.5°	9234.3	9202.9	8808.0	8175.1	7140.6	5949.0	5143.4	5129.9	5437.4	5917.6	6967.8
40°	9997.3	9977.1	9674.2	9066.0	8089.9	6797.3	5771.7	5731.4	5852.5	6361.9	7470.5
42.5°	10562.8	10565.1	10470.8	10100.6	9095.2	7777.9	6561.7	6498.8	6496.6	7032.9	8134.7
45°	10991.4	11020.6	11162.0	11105.9	10282.3	8920.2	7573.7	7508.7	7398.7	7903.6	8895.5
47.5°	11191.2	11229.3	11655.7	11880.1	11321.3	10053.4	8778.8	8641.9	8426.5	9061.5	9746.0
50°	11171.0	11238.3	11833.0	12515.2	12263.8	11202.4	10091.6	10026.5	9674.2	10286.8	10587.5
52.5°	10713.2	10856.8	11844.2	12901.1	12988.7	12261.6	11449.2	11328.1	11157.5	11565.9	11377.4
55°	9470.0	9645.0	11370.7	13024.6	13554.2	13186.1	12777.7	12679.0	12396.2	12773.2	12066.4
57.5°	8794.5	8944.9	10374.3	12964.0	14034.4	14041.1	13960.3	13879.6	13646.2	13967.1	12874.2
60°	8388.3	8538.7	9842.5	12741.8	14469.8	14943.2	15071.2	15062.2	14725.6	15324.7	13821.2
62.5°	7793.6	8000.1	9288.2	12165.1	14779.4	15831.9	16217.9	16157.3	15782.5	16738.5	14759.2
65°	6593.1	6772.6	8152.7	11213.6	14597.7	16568.0	17461.1	17492.5	17059.4	18069.2	15499.8
67.5°	4622.8	4755.2	6126.3	9216.4	13363.4	16810.3	18733.5	18731.2	17992.9	18751.4	15172.1
70°	2679.4	2861.2	3619.7	5697.7	10396.8	15708.5	18924.2	18989.3	17613.7	17326.5	12555.6
72.5°	1036.8	1187.1	2051.1	3027.2	5421.7	12032.7	16278.5	16469.2	14741.3	13365.7	8738.4
75°	309.7	345.6	964.9	1611.2	2176.7	5812.1	11020.6	11074.5	10111.8	8336.7	4479.2
77.5°	231.1	255.8	421.9	814.6	763.0	1761.6	5702.2	6227.3	5367.8	2977.9	1234.2
80°	157.1	186.3	300.7	397.2	282.8	469.0	1602.3	1759.3	1638.2	668.7	309.7
82.5°	69.6	89.8	213.2	199.7	103.2	134.6	493.7	525.1	338.9	202.0	107.7
85°	6.7	9.0	80.8	87.5	38.1	31.4	103.2	103.2	74.1	69.6	44.9
87.5°	0.0	0.0	2.2	4.5	4.5	6.7	9.0	11.2	13.5	18.0	22.4
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°	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6	4418.6
2.5°	4459.0	4432.0	4465.7	4492.6	4499.4	4450.0	4420.8	4378.2	4369.2	4371.4	4360.2
5°	4519.6	4506.1	4530.8	4501.6	4425.3	4281.7	4158.3	4021.4	3947.3	3904.7	3900.2
7.5°	4631.8	4625.0	4598.1	4465.7	4227.8	3909.2	3601.7	3301.0	3114.8	3047.4	3036.2
10°	4797.8	4784.4	4674.4	4360.2	3853.1	3240.4	2724.3	2293.4	2030.9	1954.6	1860.3
12.5°	4988.6	4961.6	4721.5	4133.6	3287.6	2439.3	1795.3	1312.8	1086.1	1018.8	1018.8
15°	5172.6	5114.2	4694.6	3758.8	2591.9	1586.6	1003.1	758.5	688.9	671.0	671.0
17.5°	5361.1	5248.9	4589.1	3247.2	1790.8	938.0	668.7	621.6	612.6	614.9	617.1
20°	5538.4	5363.3	4402.9	2632.3	1142.2	655.3	599.2	587.9	583.5	587.9	585.7
22.5°	5731.4	5468.8	4120.1	1961.3	742.8	590.2	570.0	561.0	556.5	563.3	563.3
25°	5922.1	5545.1	3745.3	1319.5	590.2	549.8	538.6	529.6	525.1	527.4	527.4
27.5°	6020.8	5515.9	3253.9	841.5	529.6	509.4	498.2	487.0	480.2	478.0	480.2
30°	6088.2	5426.2	2652.5	599.2	480.2	455.5	444.3	435.3	417.4	406.2	410.7
32.5°	6193.6	5336.4	1999.5	502.7	439.8	401.7	383.7	361.3	336.6	325.4	325.4
35°	6319.3	5213.0	1402.5	453.3	397.2	356.8	323.1	285.0	255.8	246.8	246.8
37.5°	6485.4	5096.3	933.5	419.6	361.3	318.7	271.5	226.7	195.2	190.7	188.5
40°	6734.4	4997.5	657.5	395.0	329.9	278.3	222.2	175.0	152.6	145.9	145.9
42.5°	7057.6	4896.6	520.6	370.3	302.9	240.1	177.3	139.1	121.2	116.7	114.4
45°	7457.0	4777.6	453.3	347.8	276.0	199.7	141.4	116.7	103.2	98.7	98.7
47.5°	7890.1	4616.0	421.9	318.7	244.6	161.6	118.9	101.0	94.3	92.0	89.8
50°	8316.5	4398.4	395.0	291.7	208.7	132.4	103.2	92.0	87.5	85.3	85.3
52.5°	8689.0	4144.8	361.3	260.3	170.5	114.4	92.0	85.3	80.8	76.3	74.1
55°	9007.7	3868.8	318.7	224.4	139.1	101.0	85.3	78.5	74.1	69.6	67.3
57.5°	9418.4	3711.7	255.8	181.8	114.4	89.8	78.5	71.8	67.3	60.6	60.6
60°	9873.9	3597.2	190.7	143.6	98.7	83.0	71.8	65.1	60.6	53.9	53.9
62.5°	10239.7	3426.7	150.4	116.7	85.3	74.1	65.1	58.3	53.9	47.1	47.1
65°	10378.8	3074.4	123.4	92.0	69.6	65.1	58.3	53.9	47.1	40.4	40.4
67.5°	9750.5	2369.7	103.2	74.1	58.3	56.1	51.6	49.4	40.4	35.9	33.7
70°	7721.8	1445.2	85.3	60.6	49.4	47.1	47.1	42.6	35.9	33.7	31.4
72.5°	5291.5	745.0	69.6	49.4	42.6	42.6	40.4	38.1	33.7	31.4	31.4
75°	2749.0	249.1	53.9	38.1	33.7	35.9	35.9	33.7	31.4	31.4	29.2
77.5°	787.7	112.2	40.4	29.2	26.9	26.9	29.2	29.2	29.2	26.9	26.9
80°	204.2	65.1	29.2	22.4	22.4	22.4	22.4	24.7	26.9	24.7	24.7
82.5°	83.0	35.9	20.2	18.0	18.0	18.0	18.0	20.2	22.4	22.4	22.4
85°	51.6	18.0	15.7	15.7	15.7	13.5	13.5	15.7	15.7	18.0	18.0
87.5°	31.4	13.5	13.5	13.5	13.5	11.2	11.2	11.2	11.2	11.2	11.2
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)