

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: P638392

Luminaire Tested: GWS-SA4E-760-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638392
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24169.6 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

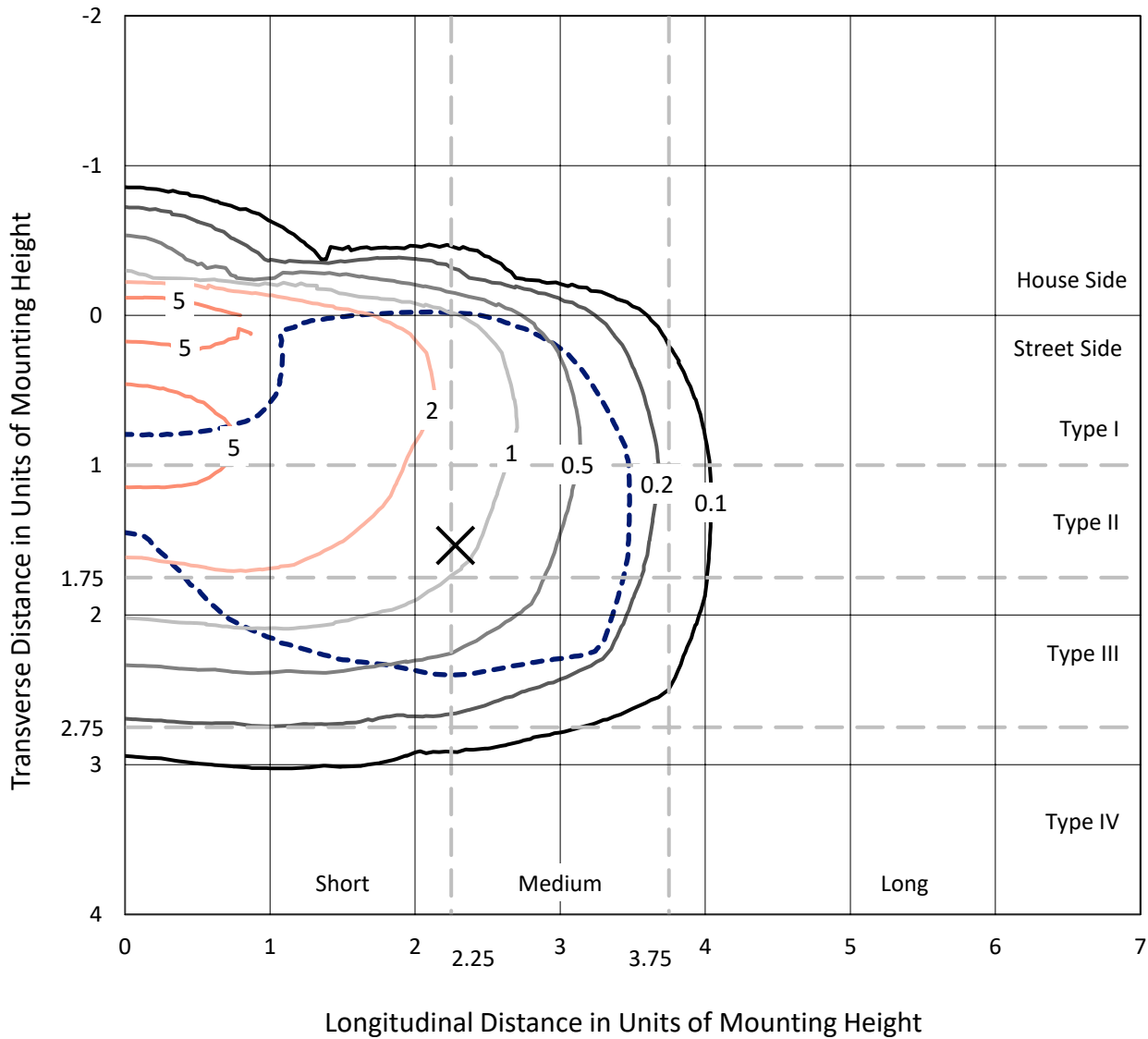
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

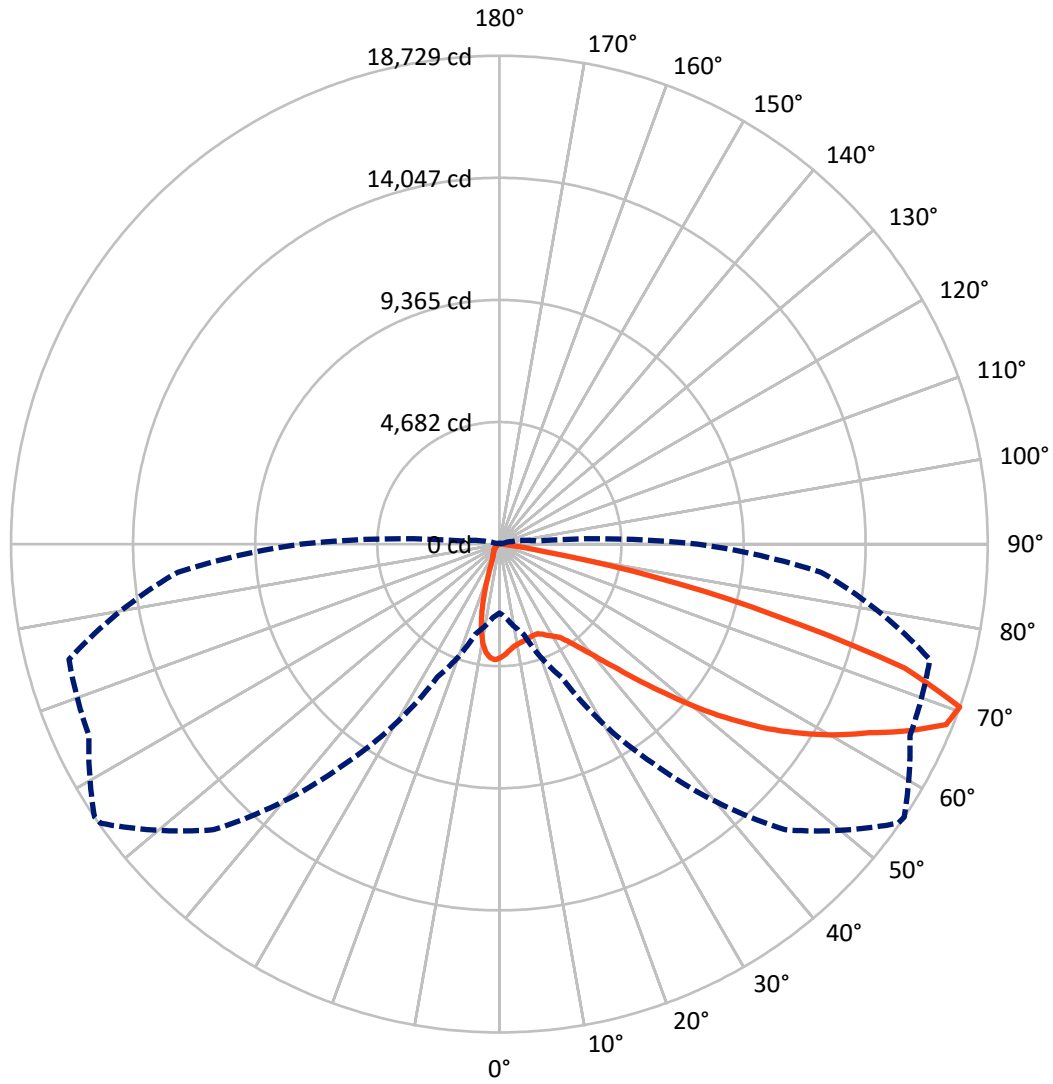
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	2170.9	0.0	2170.9
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	21998.7	0.0	21998.7
	% Fixture	91.0	0.0	91.0
Total	Lumens	24169.6	0.0	24169.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.2	1.5
10°-20°	841.6	3.5
20°-30°	1333.0	5.5
30°-40°	2298.8	9.5
40°-50°	3881.9	16.1
50°-60°	5703.8	23.6
60°-70°	6762.1	28.0
70°-80°	2883.7	11.9
80°-90°	90.5	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°	24169.6	100.0
0°-180°	24169.6	100.0

Coefficient of Utilization



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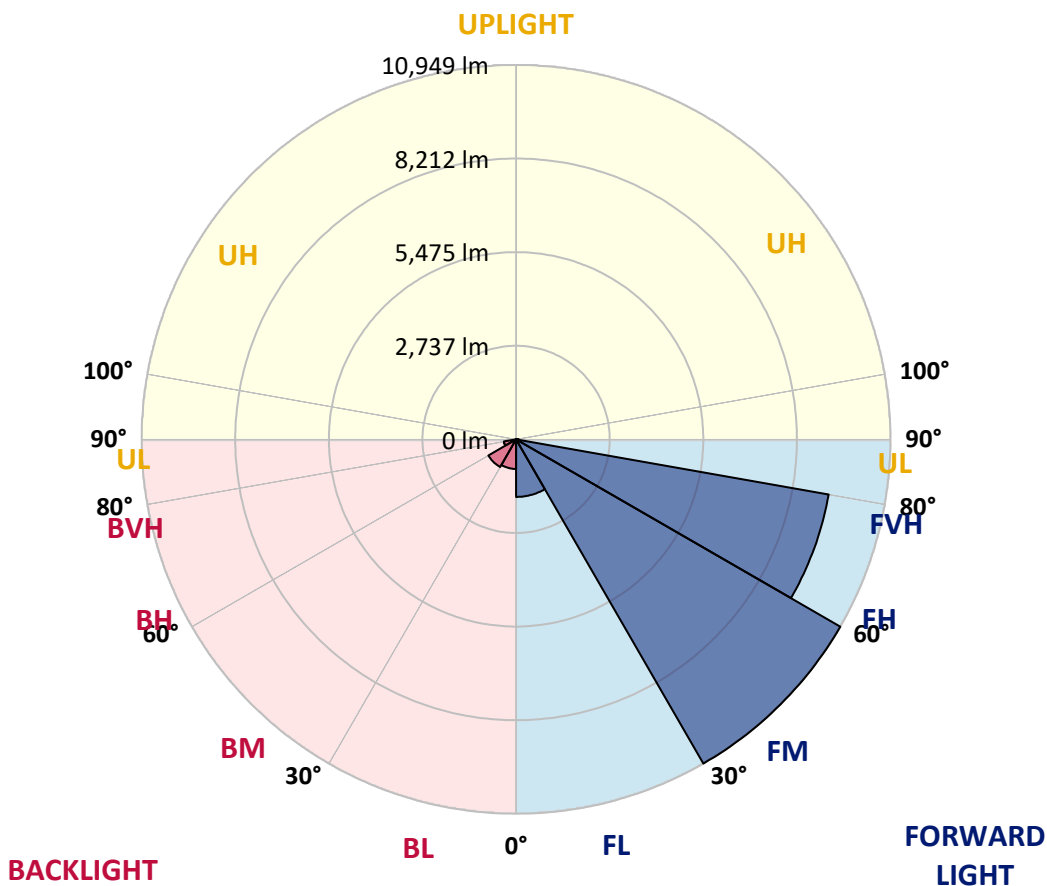
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.2	7.0			
FM (30°-60°)	10949.5	45.3			
FH (60°-80°)	9283.7	38.4			G4/12000
FVH (80°-90°)	81.3	0.3			G1/100
BL (0°-30°)	864.6	3.6	B2/1000		
BM (30°-60°)	935.0	3.9	B1/1000		
BH (60°-80°)	362.1	1.5	B1/500		G1/500
BVH (80°-90°)	9.2	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0
2.5°	4057.0	4050.4	4054.8	4088.0	4150.0	4178.7	4227.4	4236.3	4276.1	4327.0	4347.0
5°	3793.6	3771.5	3782.6	3829.0	3899.9	3979.5	4070.3	4094.6	4194.2	4307.1	4391.2
7.5°	3552.4	3528.0	3554.6	3627.6	3727.2	3813.5	3948.6	3964.1	4123.4	4322.6	4475.3
10°	3173.9	3180.5	3233.7	3362.0	3514.7	3694.0	3875.5	3897.7	4094.6	4373.5	4610.3
12.5°	2884.0	2868.5	2926.0	3072.1	3286.8	3547.9	3820.2	3849.0	4096.9	4451.0	4783.0
15°	2748.9	2744.5	2768.9	2875.1	3083.2	3390.8	3769.3	3806.9	4125.6	4521.8	4946.8
17.5°	2753.4	2746.7	2744.5	2806.5	2961.4	3273.5	3713.9	3762.6	4150.0	4599.3	5119.4
20°	2945.9	2914.9	2859.6	2830.8	2923.8	3198.2	3676.3	3731.7	4185.4	4681.2	5303.1
22.5°	3348.7	3359.8	3211.5	3056.6	3012.3	3207.1	3671.9	3736.1	4262.8	4809.5	5528.9
25°	4154.4	4136.7	3862.2	3514.7	3273.5	3308.9	3749.4	3826.8	4415.6	4993.2	5741.3
27.5°	5163.7	5179.2	4802.9	4249.6	3744.9	3519.2	3891.0	3968.5	4592.6	5108.3	5883.0
30°	6263.7	6248.2	5845.4	5232.3	4413.4	3868.9	4032.7	4101.3	4681.2	5170.3	6029.1
32.5°	7303.9	7268.5	6870.1	6228.3	5265.5	4420.0	4227.4	4267.3	4798.5	5305.3	6226.1
35°	8191.5	8189.3	7841.8	7157.9	6142.0	5110.6	4561.6	4594.8	5017.6	5520.0	6516.0
37.5°	9107.8	9076.8	8687.3	8063.1	7042.8	5867.5	5072.9	5059.6	5362.9	5836.5	6872.4
40°	9860.3	9840.4	9541.6	8941.8	7979.0	6704.1	5692.7	5652.8	5772.3	6274.8	7368.1
42.5°	10418.1	10420.3	10327.3	9962.1	8970.6	7671.4	6471.7	6409.8	6407.6	6936.5	8023.3
45°	10840.8	10869.6	11009.0	10953.7	10141.4	8797.9	7469.9	7405.8	7297.3	7795.3	8773.6
47.5°	11037.8	11075.4	11496.0	11717.3	11166.2	9915.7	8658.5	8523.5	8311.0	8937.4	9612.4
50°	11017.9	11084.3	11670.8	12343.7	12095.8	11048.9	9953.3	9889.1	9541.6	10145.8	10442.4
52.5°	10566.4	10708.0	11681.9	12724.4	12810.7	12093.6	11292.3	11172.8	11004.6	11407.4	11221.5
55°	9340.2	9512.8	11214.9	12846.1	13368.4	13005.5	12602.6	12505.2	12226.4	12598.2	11901.0
57.5°	8674.0	8822.3	10232.2	12786.3	13842.1	13848.7	13769.0	13689.4	13459.2	13775.7	12697.8
60°	8273.4	8421.7	9707.6	12567.2	14271.5	14738.5	14864.6	14855.8	14523.8	15114.7	13631.8
62.5°	7686.9	7890.5	9160.9	11998.4	14576.9	15615.0	15995.6	15935.9	15566.3	16509.1	14557.0
65°	6502.7	6679.8	8041.0	11059.9	14397.6	16340.9	17221.8	17252.8	16825.6	17821.6	15287.4
67.5°	4559.4	4690.0	6042.4	9090.1	13180.3	16580.0	18476.8	18474.6	17746.4	18494.5	14964.2
70°	2642.7	2822.0	3570.1	5619.6	10254.3	15493.2	18664.9	18729.1	17372.3	17089.0	12383.5
72.5°	1022.6	1170.8	2023.0	2985.8	5347.4	11867.8	16055.4	16243.5	14539.3	13182.5	8618.7
75°	305.4	340.9	951.7	1589.2	2146.9	5732.5	10869.6	10922.7	9973.2	8222.5	4417.8
77.5°	228.0	252.3	416.1	803.4	752.5	1737.5	5624.0	6142.0	5294.3	2937.1	1217.3
80°	154.9	183.7	296.6	391.8	278.9	462.6	1580.3	1735.2	1615.7	659.6	305.4
82.5°	68.6	88.5	210.3	197.0	101.8	132.8	486.9	517.9	334.2	199.2	106.2
85°	6.6	8.9	79.7	86.3	37.6	31.0	101.8	101.8	73.0	68.6	44.3
87.5°	0.0	0.0	2.2	4.4	4.4	6.6	8.9	11.1	13.3	17.7	22.1
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°	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0	4358.0
2.5°	4397.9	4371.3	4404.5	4431.1	4437.7	4389.0	4360.2	4318.2	4309.3	4311.5	4300.5
5°	4457.6	4444.3	4468.7	4439.9	4364.7	4223.0	4101.3	3966.3	3893.2	3851.2	3846.7
7.5°	4568.3	4561.6	4535.1	4404.5	4169.9	3855.6	3552.4	3255.8	3072.1	3005.7	2994.6
10°	4732.1	4718.8	4610.3	4300.5	3800.3	3196.0	2687.0	2262.0	2003.1	1927.8	1834.8
12.5°	4920.2	4893.6	4656.8	4076.9	3242.5	2405.9	1770.7	1294.8	1071.2	1004.8	1004.8
15°	5101.7	5044.2	4630.3	3707.3	2556.4	1564.8	989.4	748.1	679.5	661.8	661.8
17.5°	5287.6	5176.9	4526.2	3202.7	1766.2	925.2	659.6	613.1	604.2	606.4	608.7
20°	5462.5	5289.8	4342.5	2596.2	1126.6	646.3	591.0	579.9	575.5	579.9	577.7
22.5°	5652.8	5393.9	4063.7	1934.4	732.6	582.1	562.2	553.3	548.9	555.5	555.5
25°	5840.9	5469.1	3694.0	1301.4	582.1	542.3	531.2	522.3	517.9	520.1	520.1
27.5°	5938.3	5440.3	3209.3	830.0	522.3	502.4	491.4	480.3	473.6	471.4	473.6
30°	6004.7	5351.8	2616.1	591.0	473.6	449.3	438.2	429.4	411.7	400.6	405.0
32.5°	6108.8	5263.3	1972.1	495.8	433.8	396.2	378.5	356.3	332.0	320.9	320.9
35°	6232.7	5141.5	1383.3	447.1	391.8	351.9	318.7	281.1	252.3	243.5	243.5
37.5°	6396.5	5026.4	920.7	413.9	356.3	314.3	267.8	223.5	192.6	188.1	185.9
40°	6642.2	4929.1	648.5	389.5	325.4	274.5	219.1	172.6	150.5	143.9	143.9
42.5°	6960.9	4829.5	513.5	365.2	298.8	236.8	174.9	137.2	119.5	115.1	112.9
45°	7354.9	4712.2	447.1	343.1	272.2	197.0	139.4	115.1	101.8	97.4	97.4
47.5°	7782.0	4552.8	416.1	314.3	241.3	159.4	117.3	99.6	93.0	90.7	88.5
50°	8202.6	4338.1	389.5	287.7	205.8	130.6	101.8	90.7	86.3	84.1	84.1
52.5°	8570.0	4088.0	356.3	256.7	168.2	112.9	90.7	84.1	79.7	75.3	73.0
55°	8884.3	3815.8	314.3	221.3	137.2	99.6	84.1	77.5	73.0	68.6	66.4
57.5°	9289.3	3660.8	252.3	179.3	112.9	88.5	77.5	70.8	66.4	59.8	59.8
60°	9738.6	3547.9	188.1	141.7	97.4	81.9	70.8	64.2	59.8	53.1	53.1
62.5°	10099.4	3379.7	148.3	115.1	84.1	73.0	64.2	57.5	53.1	46.5	46.5
65°	10236.6	3032.2	121.7	90.7	68.6	64.2	57.5	53.1	46.5	39.8	39.8
67.5°	9616.9	2337.3	101.8	73.0	57.5	55.3	50.9	48.7	39.8	35.4	33.2
70°	7616.0	1425.4	84.1	59.8	48.7	46.5	46.5	42.1	35.4	33.2	31.0
72.5°	5219.0	734.8	68.6	48.7	42.1	42.1	39.8	37.6	33.2	31.0	31.0
75°	2711.3	245.7	53.1	37.6	33.2	35.4	35.4	33.2	31.0	31.0	28.8
77.5°	776.9	110.7	39.8	28.8	26.6	26.6	28.8	28.8	28.8	26.6	26.6
80°	201.4	64.2	28.8	22.1	22.1	22.1	22.1	24.3	26.6	24.3	24.3
82.5°	81.9	35.4	19.9	17.7	17.7	17.7	17.7	19.9	22.1	22.1	22.1
85°	50.9	17.7	15.5	15.5	15.5	13.3	13.3	15.5	15.5	17.7	17.7
87.5°	31.0	13.3	13.3	13.3	13.3	11.1	11.1	11.1	11.1	11.1	11.1
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)