

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: P638227

Luminaire Tested: GWS-SA4E-735-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638227  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

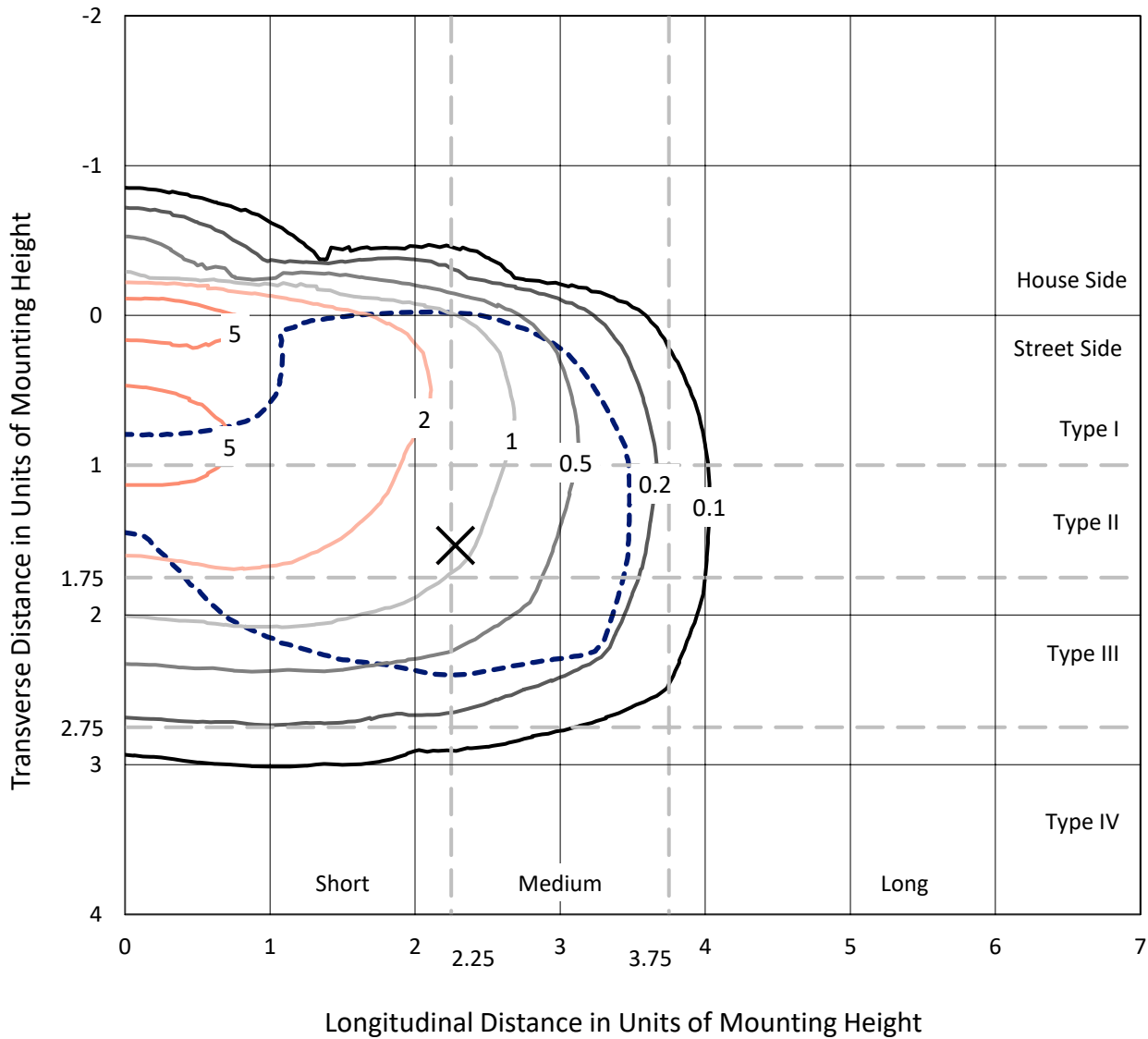
Lumens per Lamp: N/A  
Luminaire Lumens: 23628.1 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): 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

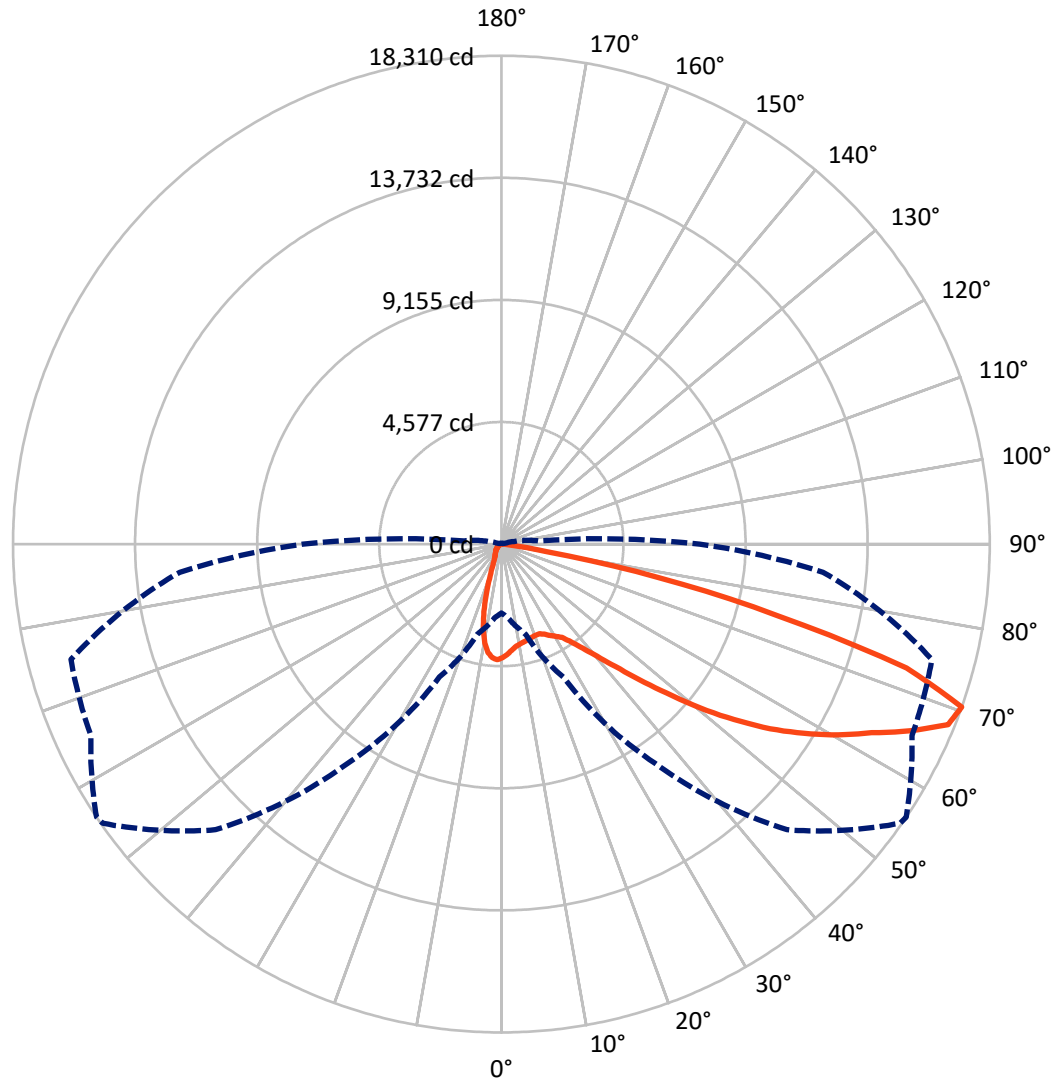
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P638227  
CATALOG NUMBER: GWS-SA4E-735-U-T3R-W-HSS

### 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	2122.2	0.0	2122.2
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	21505.8	0.0	21505.8
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	23628.1	0.0	23628.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.8	1.5
10°-20°	822.7	3.5
20°-30°	1303.2	5.5
30°-40°	2247.3	9.5
40°-50°	3794.9	16.1
50°-60°	5576.0	23.6
60°-70°	6610.6	28.0
70°-80°	2819.0	11.9
80°-90°	88.5	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°	23628.1	100.0
0°-180°	23628.1	100.0

**Coefficient of Utilization**



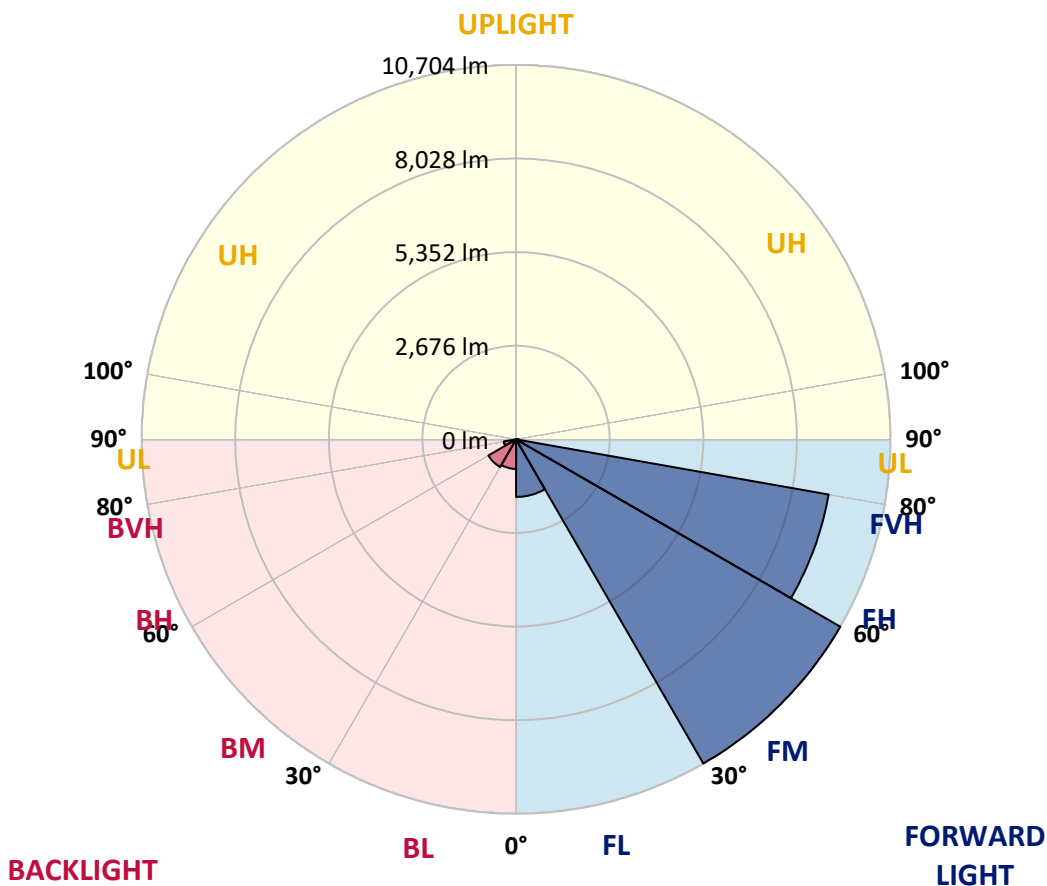
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1646.4	7.0			
FM (30°-60°)	10704.2	45.3			
FH (60°-80°)	9075.7	38.4			G4/12000
FVH (80°-90°)	79.5	0.3			G1/100
BL (0°-30°)	845.2	3.6	B2/1000		
BM (30°-60°)	914.1	3.9	B1/1000		
BH (60°-80°)	354.0	1.5	B1/500		G1/500
BVH (80°-90°)	9.0	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 Medium





REPORT NUMBER: P638227

CATALOG NUMBER: GWS-SA4E-735-U-T3R-W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4
2.5°	3966.1	3959.6	3964.0	3996.4	4057.0	4085.1	4132.7	4141.4	4180.3	4230.1	4249.6
5°	3708.6	3687.0	3697.8	3743.3	3812.5	3890.4	3979.1	4002.9	4100.3	4210.6	4292.8
7.5°	3472.8	3449.0	3475.0	3546.4	3643.7	3728.1	3860.1	3875.2	4031.0	4225.8	4375.1
10°	3102.8	3109.3	3161.2	3286.7	3436.0	3611.3	3788.7	3810.3	4002.9	4275.5	4507.0
12.5°	2819.3	2804.2	2860.5	3003.3	3213.1	3468.5	3734.6	3762.7	4005.1	4351.3	4675.8
15°	2687.4	2683.0	2706.8	2810.7	3014.1	3314.8	3684.8	3721.6	4033.2	4420.5	4835.9
17.5°	2691.7	2685.2	2683.0	2743.6	2895.1	3200.2	3630.7	3678.3	4057.0	4496.2	5004.7
20°	2879.9	2849.6	2795.5	2767.4	2858.3	3126.6	3594.0	3648.0	4091.6	4576.3	5184.3
22.5°	3273.7	3284.5	3139.6	2988.1	2944.8	3135.2	3589.6	3652.4	4167.3	4701.8	5405.0
25°	4061.3	4044.0	3775.7	3436.0	3200.2	3234.8	3665.4	3741.1	4316.6	4881.4	5612.7
27.5°	5048.0	5063.1	4695.3	4154.4	3661.0	3440.3	3803.8	3879.6	4489.7	4993.9	5751.2
30°	6123.4	6108.2	5714.4	5115.1	4314.5	3782.2	3942.3	4009.4	4576.3	5054.5	5894.0
32.5°	7140.3	7105.7	6716.2	6088.7	5147.5	4321.0	4132.7	4171.7	4691.0	5186.5	6086.6
35°	8008.0	8005.8	7666.1	6997.5	6004.4	4996.1	4459.4	4491.9	4905.2	5396.3	6370.0
37.5°	8903.7	8873.5	8492.6	7882.5	6885.0	5736.0	4959.3	4946.3	5242.7	5705.8	6718.4
40°	9639.4	9619.9	9327.8	8741.5	7800.2	6553.9	5565.1	5526.2	5643.0	6134.2	7203.1
42.5°	10184.7	10186.8	10096.0	9738.9	8769.6	7499.5	6326.7	6266.2	6264.0	6781.1	7843.5
45°	10597.9	10626.1	10762.4	10708.3	9914.2	8600.8	7302.6	7239.8	7133.8	7620.7	8577.0
47.5°	10790.5	10827.3	11238.4	11454.8	10916.0	9693.5	8464.5	8332.5	8124.8	8737.1	9397.1
50°	10771.0	10836.0	11409.3	12067.1	11824.8	10801.3	9730.3	9667.5	9327.8	9918.5	10208.5
52.5°	10329.6	10468.1	11420.2	12439.3	12523.7	11822.6	11039.3	10922.5	10758.1	11151.9	10970.1
55°	9130.9	9299.7	10963.6	12558.3	13068.9	12714.1	12320.3	12225.1	11952.4	12316.0	11634.4
57.5°	8479.7	8624.6	10002.9	12499.9	13532.0	13538.5	13460.6	13382.7	13157.6	13467.1	12413.3
60°	8088.0	8233.0	9490.1	12285.7	13951.7	14408.3	14531.6	14523.0	14198.4	14776.1	13326.4
62.5°	7514.6	7713.7	8955.7	11729.6	14250.3	15265.1	15637.3	15578.9	15217.5	16139.3	14230.9
65°	6357.0	6530.1	7860.8	10812.2	14075.1	15974.8	16836.0	16866.3	16448.7	17422.4	14944.9
67.5°	4457.3	4584.9	5907.0	8886.4	12885.0	16208.5	18062.8	18060.7	17348.8	18080.1	14629.0
70°	2583.5	2758.8	3490.1	5493.7	10024.6	15146.1	18246.7	18309.5	16983.1	16706.2	12106.1
72.5°	999.6	1144.6	1977.6	2918.9	5227.6	11601.9	15695.7	15879.6	14213.5	12887.2	8425.6
75°	298.6	333.2	930.4	1553.6	2098.8	5604.1	10626.1	10678.0	9749.8	8038.3	4318.8
77.5°	222.9	246.7	406.8	785.4	735.7	1698.5	5498.0	6004.4	5175.6	2871.3	1190.1
80°	151.5	179.6	289.9	383.0	272.6	452.2	1544.9	1696.4	1579.5	644.8	298.6
82.5°	67.1	86.5	205.6	192.6	99.5	129.8	476.0	506.3	326.7	194.7	103.9
85°	6.5	8.7	77.9	84.4	36.8	30.3	99.5	99.5	71.4	67.1	43.3
87.5°	0.0	0.0	2.2	4.3	4.3	6.5	8.7	10.8	13.0	17.3	21.6
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°	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4	4260.4
2.5°	4299.3	4273.4	4305.8	4331.8	4338.3	4290.7	4262.5	4221.4	4212.8	4214.9	4204.1
5°	4357.8	4344.8	4368.6	4340.4	4266.9	4128.4	4009.4	3877.4	3806.0	3764.9	3760.6
7.5°	4465.9	4459.4	4433.5	4305.8	4076.5	3769.2	3472.8	3182.8	3003.3	2938.3	2927.5
10°	4626.1	4613.1	4507.0	4204.1	3715.1	3124.4	2626.8	2211.3	1958.2	1884.6	1793.7
12.5°	4810.0	4784.0	4552.5	3985.6	3169.9	2352.0	1731.0	1265.8	1047.2	982.3	982.3
15°	4987.4	4931.1	4526.5	3624.2	2499.1	1529.8	967.2	731.3	664.3	647.0	647.0
17.5°	5169.2	5061.0	4424.8	3130.9	1726.7	904.4	644.8	599.4	590.7	592.9	595.0
20°	5340.1	5171.3	4245.2	2538.1	1101.3	631.8	577.7	566.9	562.6	566.9	564.7
22.5°	5526.2	5273.0	3972.6	1891.1	716.2	569.1	549.6	540.9	536.6	543.1	543.1
25°	5710.1	5346.6	3611.3	1272.3	569.1	530.1	519.3	510.6	506.3	508.5	508.5
27.5°	5805.3	5318.4	3137.4	811.4	510.6	491.2	480.3	469.5	463.0	460.9	463.0
30°	5870.2	5231.9	2557.5	577.7	463.0	439.2	428.4	419.8	402.5	391.6	396.0
32.5°	5971.9	5145.3	1927.9	484.7	424.1	387.3	370.0	348.4	324.6	313.7	313.7
35°	6093.1	5026.3	1352.3	437.1	383.0	344.0	311.6	274.8	246.7	238.0	238.0
37.5°	6253.2	4913.8	900.1	404.6	348.4	307.2	261.8	218.5	188.2	183.9	181.8
40°	6493.4	4818.6	634.0	380.8	318.1	268.3	214.2	168.8	147.1	140.6	140.6
42.5°	6804.9	4721.3	502.0	357.0	292.1	231.5	170.9	134.2	116.8	112.5	110.4
45°	7190.1	4606.6	437.1	335.4	266.1	192.6	136.3	112.5	99.5	95.2	95.2
47.5°	7607.7	4450.8	406.8	307.2	235.8	155.8	114.7	97.4	90.9	88.7	86.5
50°	8018.8	4240.9	380.8	281.3	201.2	127.7	99.5	88.7	84.4	82.2	82.2
52.5°	8378.0	3996.4	348.4	251.0	164.4	110.4	88.7	82.2	77.9	73.6	71.4
55°	8685.2	3730.3	307.2	216.4	134.2	97.4	82.2	75.7	71.4	67.1	64.9
57.5°	9081.2	3578.8	246.7	175.3	110.4	86.5	75.7	69.2	64.9	58.4	58.4
60°	9520.4	3468.5	183.9	138.5	95.2	80.1	69.2	62.7	58.4	51.9	51.9
62.5°	9873.1	3304.0	145.0	112.5	82.2	71.4	62.7	56.3	51.9	45.4	45.4
65°	10007.3	2964.3	119.0	88.7	67.1	62.7	56.3	51.9	45.4	38.9	38.9
67.5°	9401.4	2284.9	99.5	71.4	56.3	54.1	49.8	47.6	38.9	34.6	32.5
70°	7445.4	1393.4	82.2	58.4	47.6	45.4	45.4	41.1	34.6	32.5	30.3
72.5°	5102.1	718.4	67.1	47.6	41.1	41.1	38.9	36.8	32.5	30.3	30.3
75°	2650.6	240.2	51.9	36.8	32.5	34.6	34.6	32.5	30.3	30.3	28.1
77.5°	759.5	108.2	38.9	28.1	26.0	26.0	28.1	28.1	28.1	26.0	26.0
80°	196.9	62.7	28.1	21.6	21.6	21.6	21.6	23.8	26.0	23.8	23.8
82.5°	80.1	34.6	19.5	17.3	17.3	17.3	17.3	19.5	21.6	21.6	21.6
85°	49.8	17.3	15.1	15.1	15.1	13.0	13.0	15.1	15.1	17.3	17.3
87.5°	30.3	13.0	13.0	13.0	13.0	10.8	10.8	10.8	10.8	10.8	10.8
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)