

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: P637787

Luminaire Tested: GWS-SA4D-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637787  
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-SA4D-740-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) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

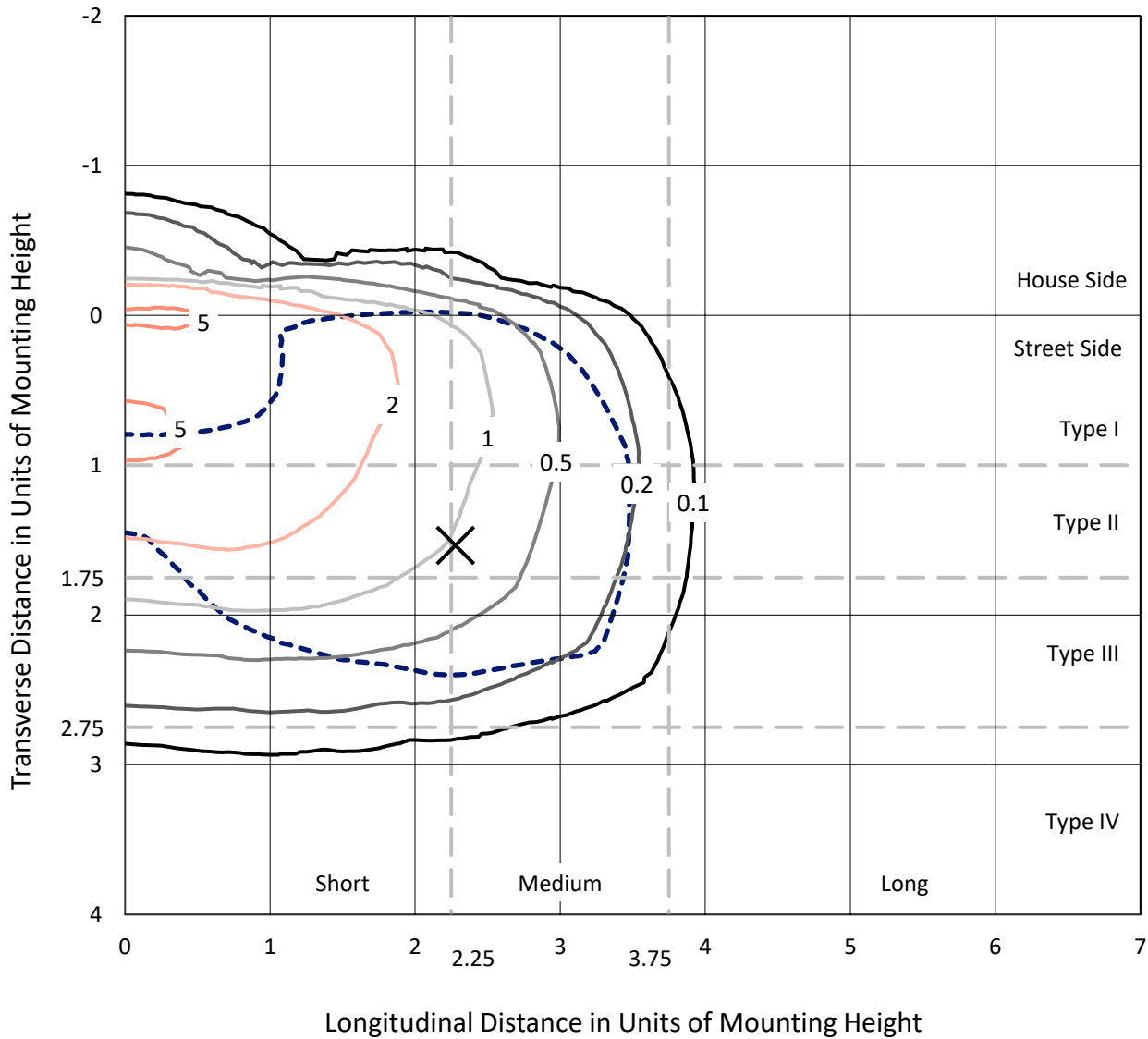
Lumens per Lamp: N/A  
Luminaire Lumens: 19170.5 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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

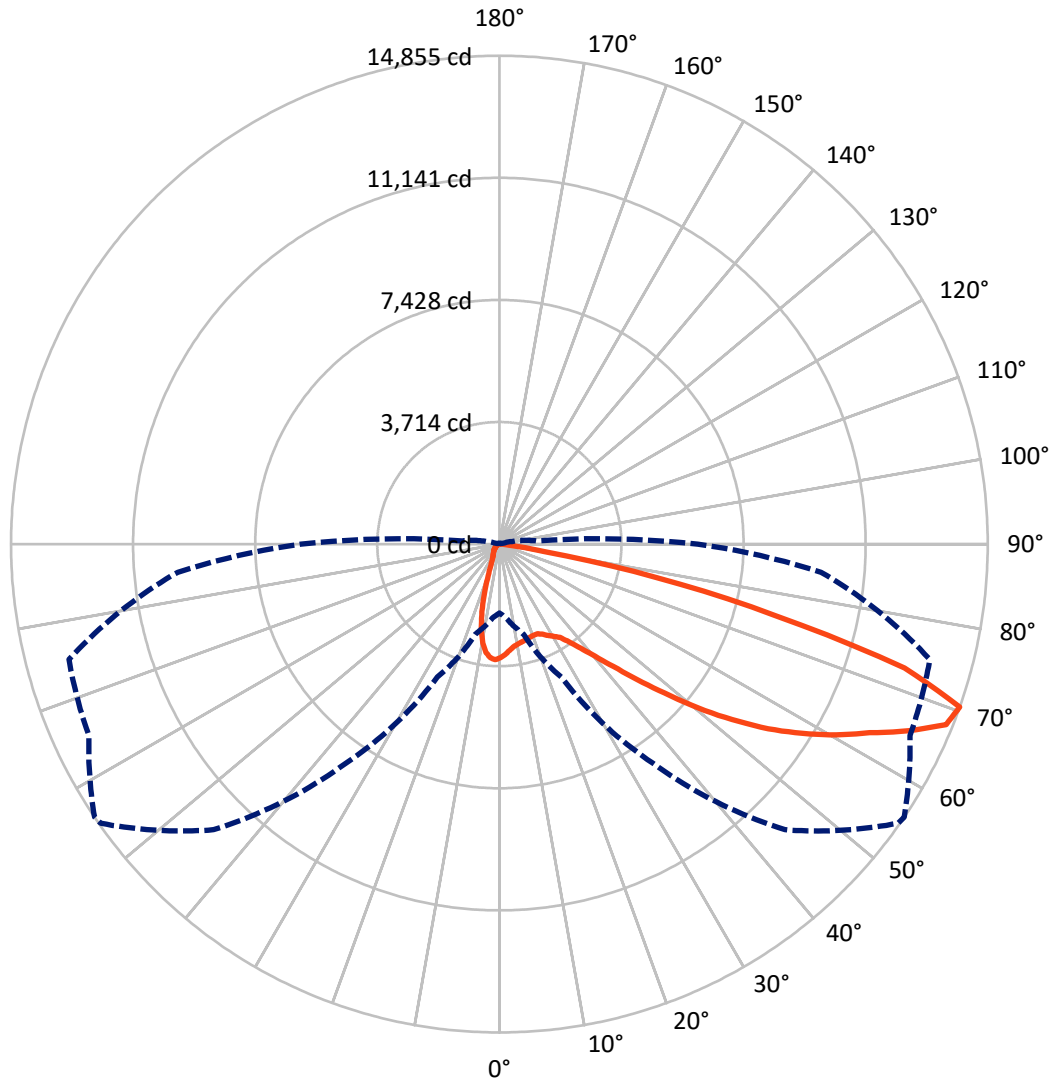
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1721.9	0.0	1721.9
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	17448.6	0.0	17448.6
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	19170.5	0.0	19170.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.8	1.5
10°-20°	667.5	3.5
20°-30°	1057.3	5.5
30°-40°	1823.3	9.5
40°-50°	3079.0	16.1
50°-60°	4524.0	23.6
60°-70°	5363.5	28.0
70°-80°	2287.2	11.9
80°-90°	71.8	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°	19170.5	100.0
0°-180°	19170.5	100.0

**Coefficient of Utilization**



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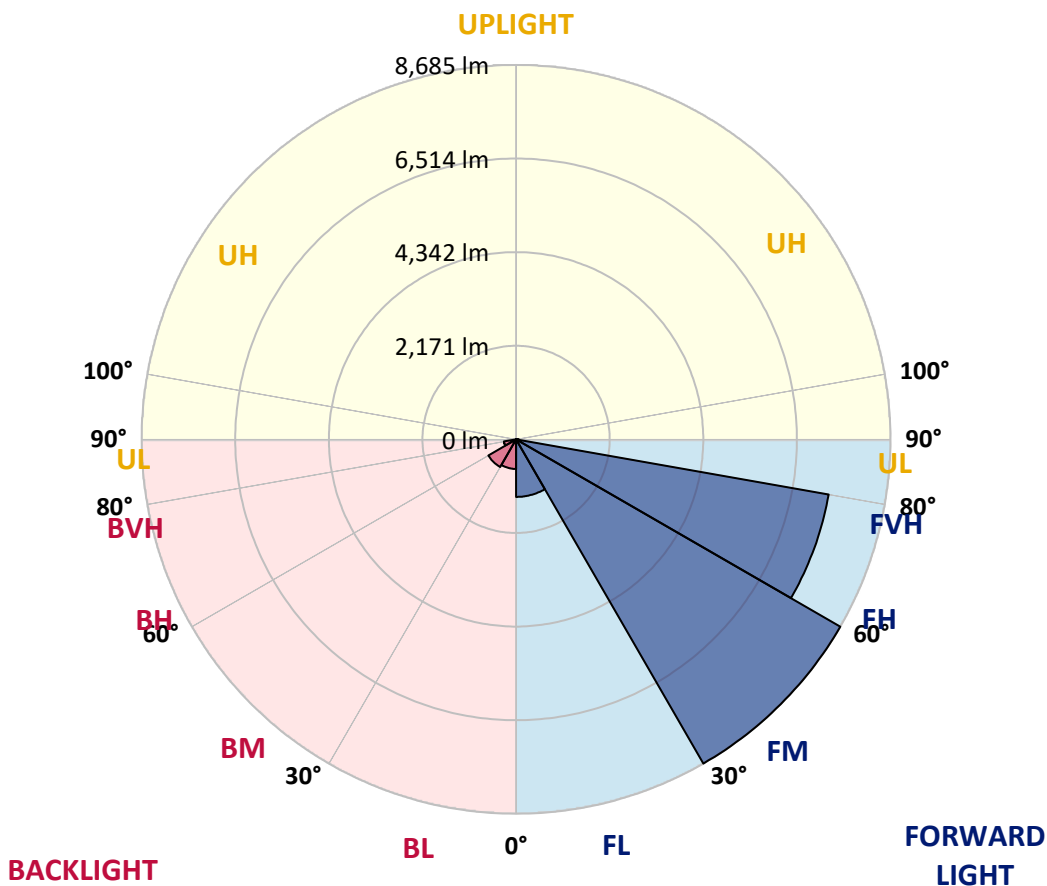
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.8	7.0			
FM (30°-60°)	8684.7	45.3			
FH (60°-80°)	7363.5	38.4			G3/7500
FVH (80°-90°)	64.5	0.3			G1/100
BL (0°-30°)	685.8	3.6	B2/1000		
BM (30°-60°)	741.6	3.9	B1/1000		
BH (60°-80°)	287.2	1.5	B1/500		G1/500
BVH (80°-90°)	7.3	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6
2.5°	3217.9	3212.6	3216.1	3242.5	3291.6	3314.4	3353.1	3360.1	3391.7	3432.1	3447.9
5°	3009.0	2991.4	3000.2	3037.1	3093.2	3156.4	3228.4	3247.7	3326.7	3416.3	3483.0
7.5°	2817.6	2798.3	2819.4	2877.3	2956.3	3024.8	3131.9	3144.2	3270.5	3428.5	3549.7
10°	2517.4	2522.7	2564.8	2666.6	2787.8	2930.0	3073.9	3091.5	3247.7	3468.9	3656.8
12.5°	2287.5	2275.2	2320.8	2436.7	2607.0	2814.1	3030.0	3052.9	3249.5	3530.4	3793.7
15°	2180.4	2176.9	2196.2	2280.4	2445.5	2689.5	2989.7	3019.5	3272.3	3586.5	3923.6
17.5°	2183.9	2178.6	2176.9	2226.0	2348.9	2596.4	2945.8	2984.4	3291.6	3648.0	4060.5
20°	2336.6	2312.0	2268.1	2245.3	2319.1	2536.7	2915.9	2959.8	3319.7	3712.9	4206.2
22.5°	2656.1	2664.9	2547.3	2424.4	2389.3	2543.8	2912.4	2963.3	3381.1	3814.8	4385.3
25°	3295.1	3281.1	3063.4	2787.8	2596.4	2624.5	2973.9	3035.3	3502.3	3960.5	4553.8
27.5°	4095.6	4107.9	3809.5	3370.6	2970.4	2791.3	3086.2	3147.7	3642.7	4051.8	4666.2
30°	4968.1	4955.9	4636.3	4150.1	3500.5	3068.7	3198.6	3253.0	3712.9	4100.9	4782.1
32.5°	5793.2	5765.2	5449.2	4940.1	4176.4	3505.8	3353.1	3384.7	3806.0	4208.0	4938.3
35°	6497.2	6495.5	6219.8	5677.4	4871.6	4053.5	3618.1	3644.5	3979.8	4378.3	5168.3
37.5°	7224.0	7199.4	6890.4	6395.4	5586.1	4653.9	4023.7	4013.1	4253.6	4629.3	5450.9
40°	7820.9	7805.1	7568.1	7092.3	6328.7	5317.5	4515.2	4483.6	4578.4	4976.9	5844.2
42.5°	8263.3	8265.0	8191.3	7901.6	7115.2	6084.7	5133.2	5084.0	5082.3	5501.8	6363.8
45°	8598.6	8621.4	8732.0	8688.1	8043.8	6978.2	5924.9	5874.0	5788.0	6183.0	6958.9
47.5°	8754.8	8784.7	9118.2	9293.8	8856.6	7864.8	6867.6	6760.5	6592.0	7088.8	7624.3
50°	8739.0	8791.7	9256.9	9790.6	9594.0	8763.6	7894.6	7843.7	7568.1	8047.3	8282.6
52.5°	8380.9	8493.2	9265.7	10092.5	10161.0	9592.2	8956.7	8861.9	8728.5	9048.0	8900.5
55°	7408.3	7545.3	8895.3	10189.1	10603.4	10315.5	9996.0	9918.7	9697.5	9992.5	9439.5
57.5°	6879.9	6997.5	8115.8	10141.7	10979.1	10984.3	10921.1	10857.9	10675.4	10926.4	10071.5
60°	6562.2	6679.8	7699.7	9967.9	11319.6	11690.1	11790.1	11783.1	11519.8	11988.5	10812.3
62.5°	6096.9	6258.5	7266.1	9516.7	11561.9	12385.2	12687.2	12639.8	12346.6	13094.5	11546.1
65°	5157.7	5298.2	6377.8	8772.4	11419.7	12961.1	13659.8	13684.3	13345.5	14135.5	12125.4
67.5°	3616.4	3720.0	4792.6	7210.0	10454.2	13150.7	14655.1	14653.4	14075.8	14669.2	11869.1
70°	2096.1	2238.3	2831.7	4457.3	8133.4	12288.7	14804.4	14855.3	13779.1	13554.4	9822.2
72.5°	811.1	928.7	1604.6	2368.2	4241.4	9413.1	12734.6	12883.8	11532.1	10455.9	6836.0
75°	242.3	270.4	754.9	1260.5	1702.9	4546.8	8621.4	8663.5	7910.4	6521.8	3504.0
77.5°	180.8	200.1	330.0	637.3	596.9	1378.1	4460.8	4871.6	4199.2	2329.6	965.5
80°	122.9	145.7	235.2	310.7	221.2	366.9	1253.4	1376.3	1281.5	523.1	242.3
82.5°	54.4	70.2	166.8	156.2	80.8	105.3	386.2	410.8	265.1	158.0	84.3
85°	5.3	7.0	63.2	68.5	29.8	24.6	80.8	80.8	57.9	54.4	35.1
87.5°	0.0	0.0	1.8	3.5	3.5	5.3	7.0	8.8	10.5	14.0	17.6
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°	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6	3456.6
2.5°	3488.2	3467.2	3493.5	3514.6	3519.8	3481.2	3458.4	3425.0	3418.0	3419.8	3411.0
5°	3535.6	3525.1	3544.4	3521.6	3461.9	3349.5	3253.0	3145.9	3088.0	3054.6	3051.1
7.5°	3623.4	3618.1	3597.1	3493.5	3307.4	3058.1	2817.6	2582.4	2436.7	2384.0	2375.2
10°	3753.3	3742.8	3656.8	3411.0	3014.2	2535.0	2131.2	1794.1	1588.8	1529.1	1455.3
12.5°	3902.5	3881.5	3693.6	3233.7	2571.8	1908.3	1404.4	1027.0	849.7	797.0	797.0
15°	4046.5	4000.8	3672.6	2940.5	2027.6	1241.2	784.7	593.4	538.9	524.9	524.9
17.5°	4194.0	4106.2	3590.1	2540.2	1400.9	733.8	523.1	486.3	479.3	481.0	482.8
20°	4332.6	4195.7	3444.3	2059.2	893.6	512.6	468.7	459.9	456.4	459.9	458.2
22.5°	4483.6	4278.2	3223.1	1534.3	581.1	461.7	445.9	438.9	435.4	440.6	440.6
25°	4632.8	4337.9	2930.0	1032.3	461.7	430.1	421.3	414.3	410.8	412.5	412.5
27.5°	4710.1	4315.1	2545.5	658.3	414.3	398.5	389.7	380.9	375.7	373.9	375.7
30°	4762.7	4244.9	2075.0	468.7	375.7	356.4	347.6	340.6	326.5	317.8	321.3
32.5°	4845.3	4174.6	1564.2	393.2	344.1	314.2	300.2	282.6	263.3	254.6	254.6
35°	4943.6	4078.1	1097.2	354.6	310.7	279.1	252.8	223.0	200.1	193.1	193.1
37.5°	5073.5	3986.8	730.3	328.3	282.6	249.3	212.4	177.3	152.7	149.2	147.5
40°	5268.3	3909.6	514.4	309.0	258.1	217.7	173.8	136.9	119.4	114.1	114.1
42.5°	5521.1	3830.6	407.3	289.7	237.0	187.8	138.7	108.8	94.8	91.3	89.5
45°	5833.6	3737.5	354.6	272.1	215.9	156.2	110.6	91.3	80.8	77.2	77.2
47.5°	6172.4	3611.1	330.0	249.3	191.4	126.4	93.0	79.0	73.7	72.0	70.2
50°	6506.0	3440.8	309.0	228.2	163.3	103.6	80.8	72.0	68.5	66.7	66.7
52.5°	6797.4	3242.5	282.6	203.6	133.4	89.5	72.0	66.7	63.2	59.7	57.9
55°	7046.7	3026.5	249.3	175.6	108.8	79.0	66.7	61.4	57.9	54.4	52.7
57.5°	7367.9	2903.6	200.1	142.2	89.5	70.2	61.4	56.2	52.7	47.4	47.4
60°	7724.3	2814.1	149.2	112.4	77.2	65.0	56.2	50.9	47.4	42.1	42.1
62.5°	8010.5	2680.7	117.6	91.3	66.7	57.9	50.9	45.6	42.1	36.9	36.9
65°	8119.3	2405.1	96.6	72.0	54.4	50.9	45.6	42.1	36.9	31.6	31.6
67.5°	7627.8	1853.8	80.8	57.9	45.6	43.9	40.4	38.6	31.6	28.1	26.3
70°	6040.8	1130.6	66.7	47.4	38.6	36.9	36.9	33.4	28.1	26.3	24.6
72.5°	4139.5	582.8	54.4	38.6	33.4	33.4	31.6	29.8	26.3	24.6	24.6
75°	2150.5	194.9	42.1	29.8	26.3	28.1	28.1	26.3	24.6	24.6	22.8
77.5°	616.2	87.8	31.6	22.8	21.1	21.1	22.8	22.8	22.8	21.1	21.1
80°	159.8	50.9	22.8	17.6	17.6	17.6	17.6	19.3	21.1	19.3	19.3
82.5°	65.0	28.1	15.8	14.0	14.0	14.0	14.0	15.8	17.6	17.6	17.6
85°	40.4	14.0	12.3	12.3	12.3	10.5	10.5	12.3	12.3	14.0	14.0
87.5°	24.6	10.5	10.5	10.5	10.5	8.8	8.8	8.8	8.8	8.8	8.8
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)