

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: P641747

Luminaire Tested: GWS-SA6B-740-U-T3R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641747  
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-SA6B-740-U-T3R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

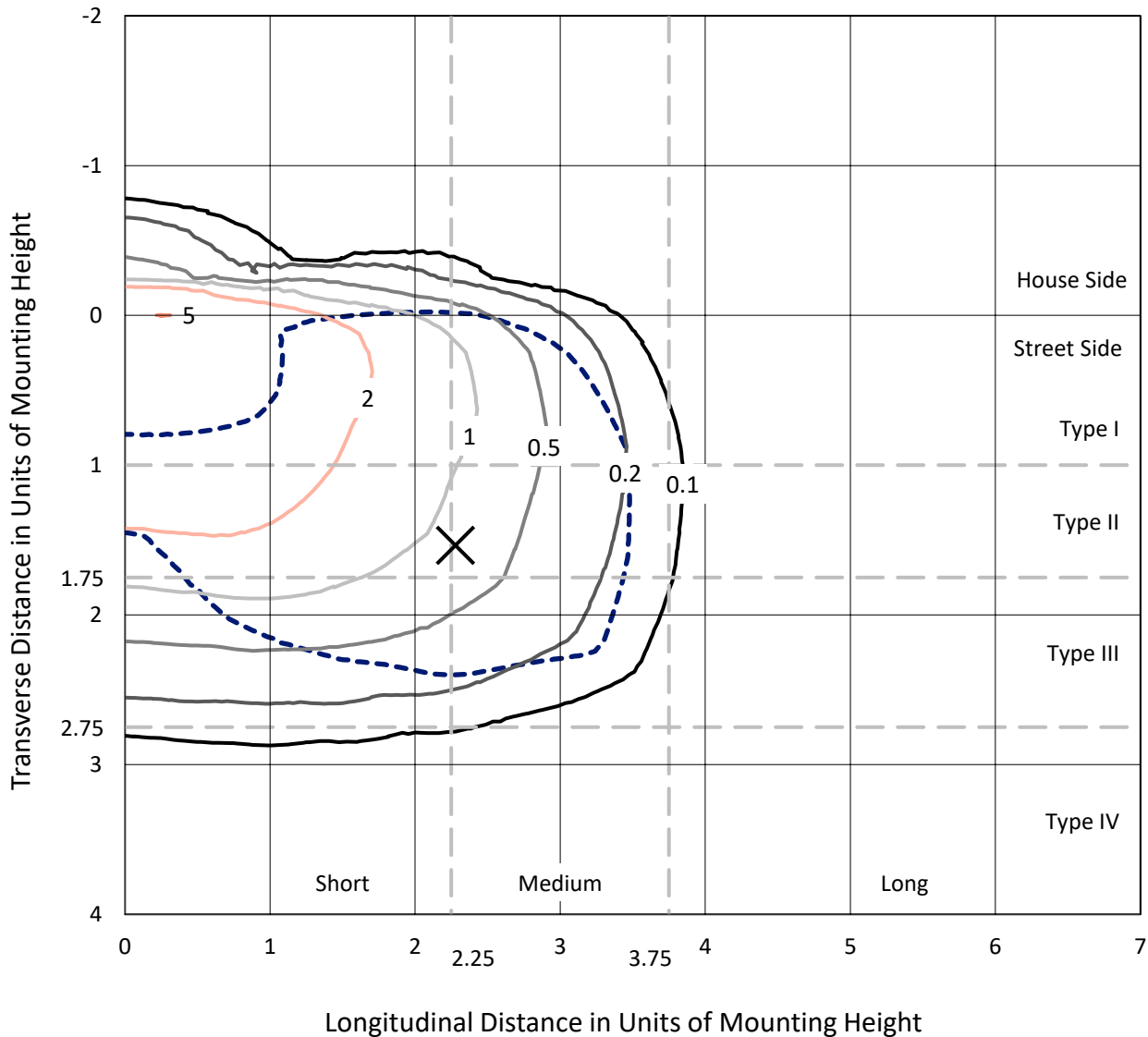
Lumens per Lamp: N/A  
Luminaire Lumens: 16574.4 lumens  
Efficiency: N/A  
Efficacy: 119.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 138.9  
Input Voltage (V): 120  
Input Current (Ain): 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

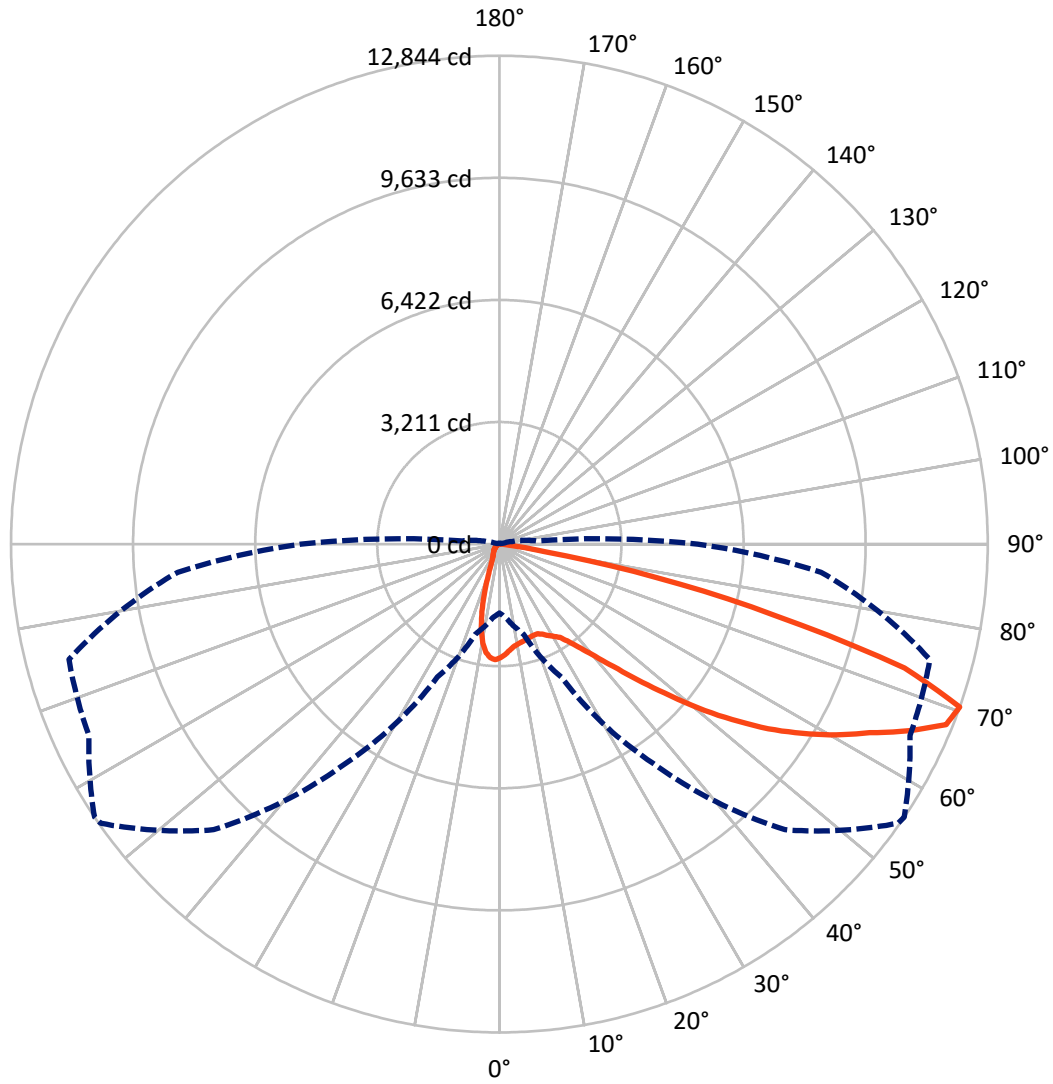
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1488.7	0.0	1488.7
	% Fixture	9.0	0.0	9.0
<b>Street Side</b>	Lumens	15085.7	0.0	15085.7
	% Fixture	91.0	0.0	91.0
<b>Total</b>	Lumens	16574.4	0.0	16574.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	1.5
10°-20°	577.1	3.5
20°-30°	914.1	5.5
30°-40°	1576.4	9.5
40°-50°	2662.0	16.1
50°-60°	3911.4	23.6
60°-70°	4637.2	28.0
70°-80°	1977.5	11.9
80°-90°	62.1	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°	16574.4	100.0
0°-180°	16574.4	100.0

**Coefficient of Utilization**



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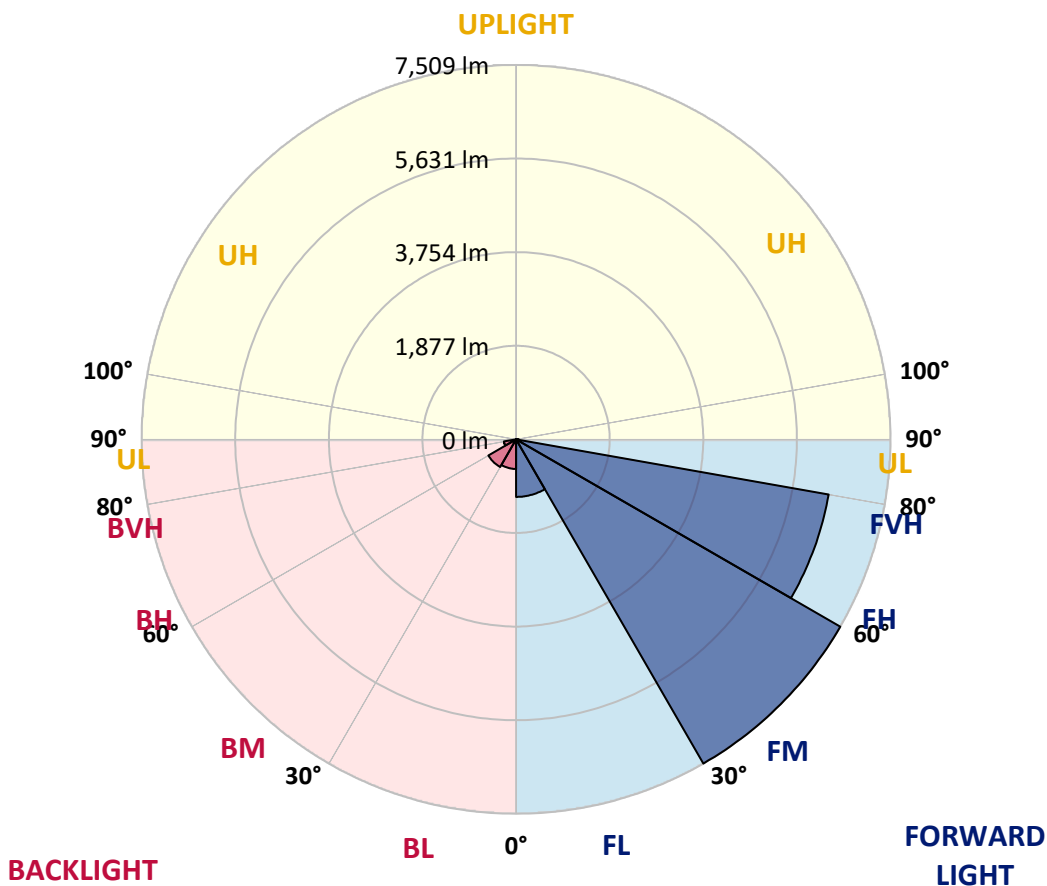
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.9	7.0			
FM (30°-60°)	7508.6	45.3			
FH (60°-80°)	6366.3	38.4			G3/7500
FVH (80°-90°)	55.8	0.3			G1/100
BL (0°-30°)	592.9	3.6	B2/1000		
BM (30°-60°)	641.2	3.9	B1/1000		
BH (60°-80°)	248.3	1.5	B1/500		G1/500
BVH (80°-90°)	6.3	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°	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5
2.5°	2782.1	2777.6	2780.6	2803.4	2845.9	2865.6	2899.0	2905.1	2932.4	2967.3	2980.9
5°	2601.5	2586.3	2593.9	2625.8	2674.3	2729.0	2791.2	2807.9	2876.2	2953.6	3011.3
7.5°	2436.1	2419.4	2437.6	2487.7	2556.0	2615.2	2707.7	2718.4	2827.6	2964.2	3069.0
10°	2176.5	2181.1	2217.5	2305.5	2410.3	2533.2	2657.7	2672.8	2807.9	2999.2	3161.6
12.5°	1977.7	1967.1	2006.5	2106.7	2253.9	2433.0	2619.7	2639.4	2809.4	3052.3	3279.9
15°	1885.1	1882.1	1898.8	1971.6	2114.3	2325.3	2584.8	2610.6	2829.2	3100.8	3392.3
17.5°	1888.1	1883.6	1882.1	1924.6	2030.8	2244.8	2546.9	2580.2	2845.9	3154.0	3510.7
20°	2020.2	1998.9	1961.0	1941.3	2005.0	2193.2	2521.1	2559.0	2870.1	3210.1	3636.6
22.5°	2296.4	2304.0	2202.3	2096.1	2065.7	2199.3	2518.0	2562.0	2923.3	3298.2	3791.4
25°	2848.9	2836.8	2648.5	2410.3	2244.8	2269.1	2571.1	2624.3	3028.0	3424.1	3937.2
27.5°	3541.0	3551.6	3293.6	2914.2	2568.1	2413.3	2668.3	2721.4	3149.4	3503.1	4034.3
30°	4295.3	4284.7	4008.5	3588.1	3026.5	2653.1	2765.4	2812.5	3210.1	3545.6	4134.5
32.5°	5008.7	4984.4	4711.2	4271.1	3610.8	3031.0	2899.0	2926.3	3290.6	3638.1	4269.5
35°	5617.3	5615.8	5377.5	4908.5	4211.9	3504.6	3128.2	3150.9	3440.8	3785.4	4468.4
37.5°	6245.7	6224.5	5957.3	5529.3	4829.6	4023.7	3478.8	3469.7	3677.6	4002.4	4712.7
40°	6761.8	6748.1	6543.2	6131.9	5471.6	4597.4	3903.8	3876.4	3958.4	4302.9	5052.7
42.5°	7144.2	7145.8	7082.0	6831.6	6151.6	5260.7	4438.0	4395.5	4394.0	4756.8	5502.0
45°	7434.1	7453.9	7549.5	7511.5	6954.5	6033.2	5122.5	5078.5	5004.2	5345.7	6016.5
47.5°	7569.2	7595.0	7883.4	8035.2	7657.3	6799.7	5937.6	5845.0	5699.3	6128.8	6591.8
50°	7555.6	7601.1	8003.3	8464.7	8294.7	7576.8	6825.5	6781.5	6543.2	6957.6	7160.9
52.5°	7245.9	7343.1	8010.9	8725.8	8785.0	8293.2	7743.8	7661.8	7546.5	7822.7	7695.2
55°	6405.1	6523.5	7690.6	8809.3	9167.5	8918.5	8642.3	8575.5	8384.3	8639.3	8161.2
57.5°	5948.2	6049.9	7016.7	8768.3	9492.3	9496.8	9442.2	9387.5	9229.7	9446.7	8707.6
60°	5673.5	5775.2	6657.0	8618.0	9786.7	10107.0	10193.5	10187.4	9959.7	10365.0	9348.1
62.5°	5271.3	5410.9	6282.1	8227.9	9996.2	10708.0	10969.1	10928.1	10674.6	11321.2	9982.5
65°	4459.3	4580.7	5514.1	7584.4	9873.2	11205.9	11809.9	11831.2	11538.2	12221.3	10483.4
67.5°	3126.7	3216.2	4143.6	6233.6	9038.4	11369.8	12670.5	12669.0	12169.7	12682.7	10261.8
70°	1812.2	1935.2	2448.2	3853.7	7031.9	10624.5	12799.5	12843.6	11913.1	11718.9	8492.0
72.5°	701.2	802.9	1387.3	2047.5	3667.0	8138.4	11010.1	11139.1	9970.4	9040.0	5910.3
75°	209.5	233.7	652.7	1089.8	1472.3	3931.1	7453.9	7490.3	6839.2	5638.6	3029.5
77.5°	156.3	173.0	285.3	551.0	516.0	1191.5	3856.7	4211.9	3630.6	2014.1	834.8
80°	106.2	126.0	203.4	268.6	191.2	317.2	1083.7	1189.9	1108.0	452.3	209.5
82.5°	47.1	60.7	144.2	135.1	69.8	91.1	333.9	355.2	229.2	136.6	72.9
85°	4.6	6.1	54.6	59.2	25.8	21.2	69.8	69.8	50.1	47.1	30.4
87.5°	0.0	0.0	1.5	3.0	3.0	4.6	6.1	7.6	9.1	12.1	15.2
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°	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5	2988.5
2.5°	3015.9	2997.6	3020.4	3038.6	3043.2	3009.8	2990.0	2961.2	2955.1	2956.7	2949.1
5°	3056.8	3047.7	3064.4	3044.7	2993.1	2895.9	2812.5	2719.9	2669.8	2641.0	2637.9
7.5°	3132.7	3128.2	3110.0	3020.4	2859.5	2644.0	2436.1	2232.7	2106.7	2061.2	2053.6
10°	3245.0	3235.9	3161.6	2949.1	2606.0	2191.7	1842.6	1551.2	1373.6	1322.0	1258.2
12.5°	3374.1	3355.8	3193.4	2795.8	2223.6	1649.8	1214.2	887.9	734.6	689.1	689.1
15°	3498.5	3459.0	3175.2	2542.3	1753.0	1073.1	678.5	513.0	466.0	453.8	453.8
17.5°	3626.0	3550.1	3103.9	2196.2	1211.2	634.4	452.3	420.4	414.4	415.9	417.4
20°	3745.9	3627.5	2977.9	1780.4	772.6	443.2	405.3	397.7	394.6	397.7	396.1
22.5°	3876.4	3698.9	2786.7	1326.5	502.4	399.2	385.5	379.4	376.4	381.0	381.0
25°	4005.5	3750.5	2533.2	892.5	399.2	371.9	364.3	358.2	355.2	356.7	356.7
27.5°	4072.2	3730.7	2200.8	569.2	358.2	344.5	336.9	329.4	324.8	323.3	324.8
30°	4117.8	3670.0	1794.0	405.3	324.8	308.1	300.5	294.5	282.3	274.7	277.8
32.5°	4189.1	3609.3	1352.4	340.0	297.5	271.7	259.5	244.4	227.7	220.1	220.1
35°	4274.1	3525.8	948.6	306.6	268.6	241.3	218.6	192.8	173.0	167.0	167.0
37.5°	4386.4	3446.9	631.4	283.8	244.4	215.5	183.7	153.3	132.0	129.0	127.5
40°	4554.9	3380.1	444.7	267.1	223.1	188.2	150.3	118.4	103.2	98.7	98.7
42.5°	4773.5	3311.8	352.1	250.4	204.9	162.4	119.9	94.1	82.0	78.9	77.4
45°	5043.6	3231.4	306.6	235.3	186.7	135.1	95.6	78.9	69.8	66.8	66.8
47.5°	5336.6	3122.1	285.3	215.5	165.4	109.3	80.4	68.3	63.7	62.2	60.7
50°	5624.9	2974.9	267.1	197.3	141.2	89.5	69.8	62.2	59.2	57.7	57.7
52.5°	5876.9	2803.4	244.4	176.1	115.4	77.4	62.2	57.7	54.6	51.6	50.1
55°	6092.4	2616.7	215.5	151.8	94.1	68.3	57.7	53.1	50.1	47.1	45.5
57.5°	6370.2	2510.4	173.0	122.9	77.4	60.7	53.1	48.6	45.5	41.0	41.0
60°	6678.3	2433.0	129.0	97.1	66.8	56.2	48.6	44.0	41.0	36.4	36.4
62.5°	6925.7	2317.7	101.7	78.9	57.7	50.1	44.0	39.5	36.4	31.9	31.9
65°	7019.8	2079.4	83.5	62.2	47.1	44.0	39.5	36.4	31.9	27.3	27.3
67.5°	6594.8	1602.8	69.8	50.1	39.5	37.9	34.9	33.4	27.3	24.3	22.8
70°	5222.7	977.5	57.7	41.0	33.4	31.9	31.9	28.8	24.3	22.8	21.2
72.5°	3579.0	503.9	47.1	33.4	28.8	28.8	27.3	25.8	22.8	21.2	21.2
75°	1859.3	168.5	36.4	25.8	22.8	24.3	24.3	22.8	21.2	21.2	19.7
77.5°	532.7	75.9	27.3	19.7	18.2	18.2	19.7	19.7	19.7	18.2	18.2
80°	138.1	44.0	19.7	15.2	15.2	15.2	15.2	16.7	18.2	16.7	16.7
82.5°	56.2	24.3	13.7	12.1	12.1	12.1	12.1	13.7	15.2	15.2	15.2
85°	34.9	12.1	10.6	10.6	10.6	9.1	9.1	10.6	10.6	12.1	12.1
87.5°	21.2	9.1	9.1	9.1	9.1	7.6	7.6	7.6	7.6	7.6	7.6
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)