

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: P636821

Luminaire Tested: GWS-SA4B-750-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

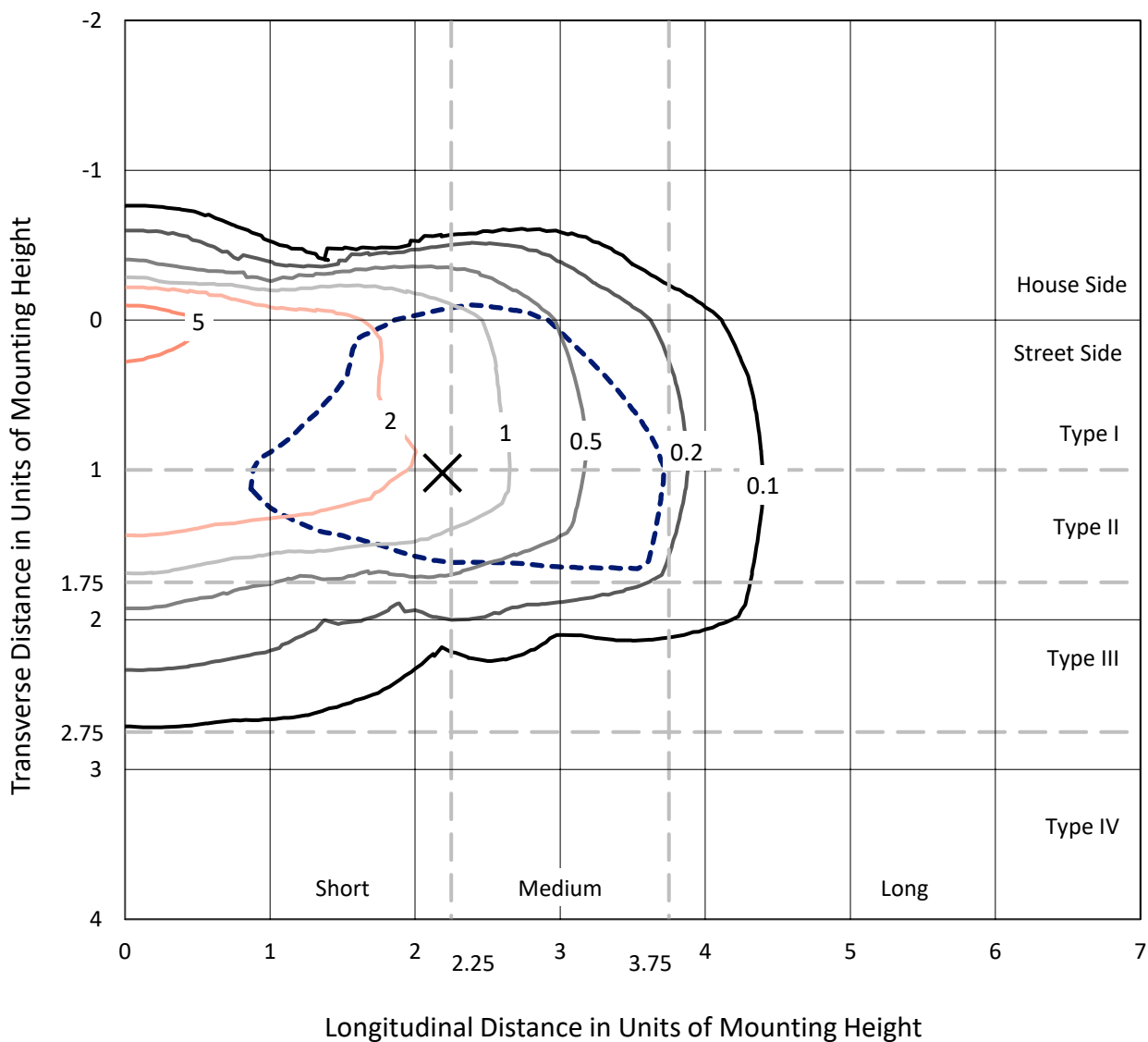
Lumens per Lamp: N/A  
Luminaire Lumens: 11737 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

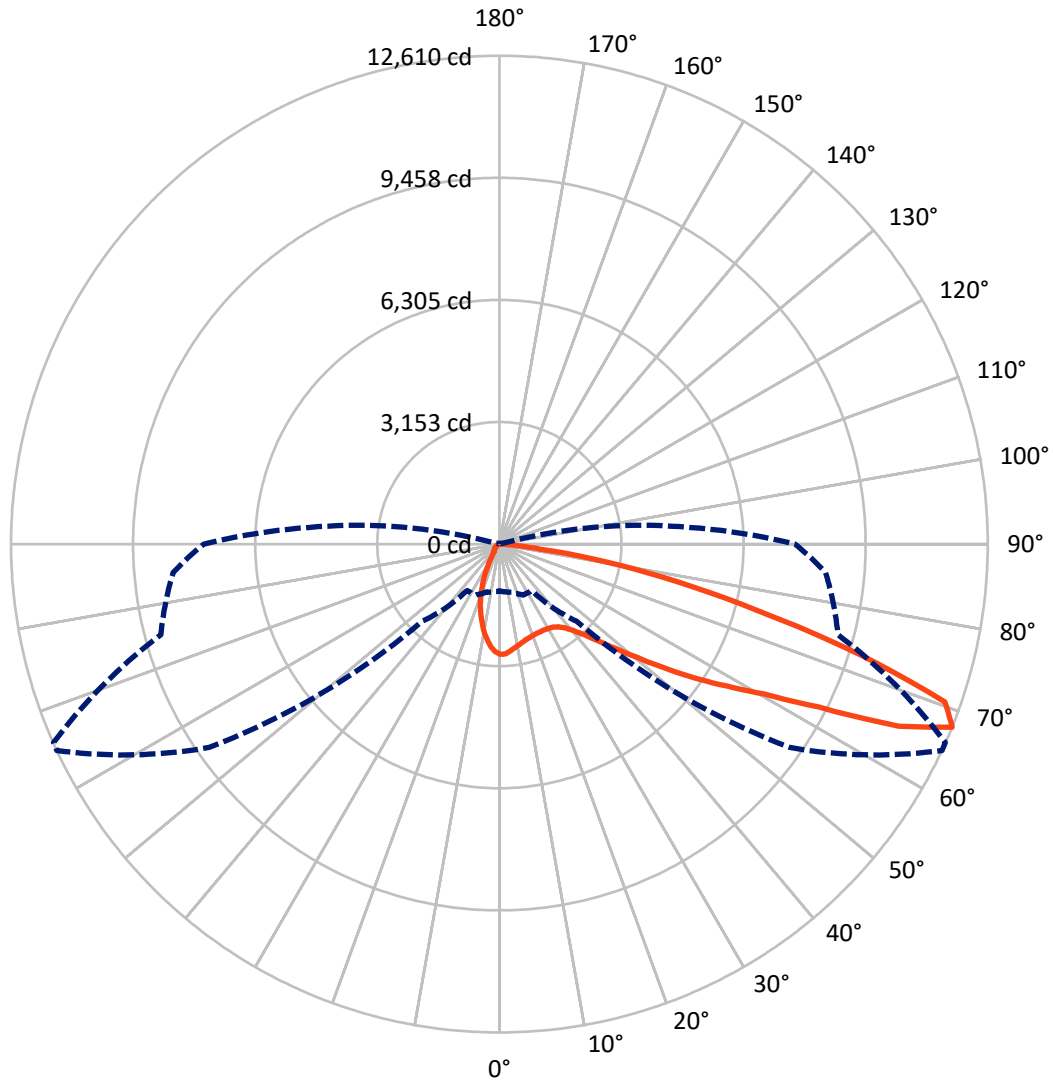
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1465.6	0.0	1465.6
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	10271.4	0.0	10271.4
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	11737.0	0.0	11737.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.4	2.0
10°-20°	531.5	4.5
20°-30°	759.4	6.5
30°-40°	1104.9	9.4
40°-50°	1730.4	14.7
50°-60°	2699.5	23.0
60°-70°	2965.3	25.3
70°-80°	1578.1	13.4
80°-90°	131.4	1.1
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°	11737.0	100.0
0°-180°	11737.0	100.0

**Coefficient of Utilization**



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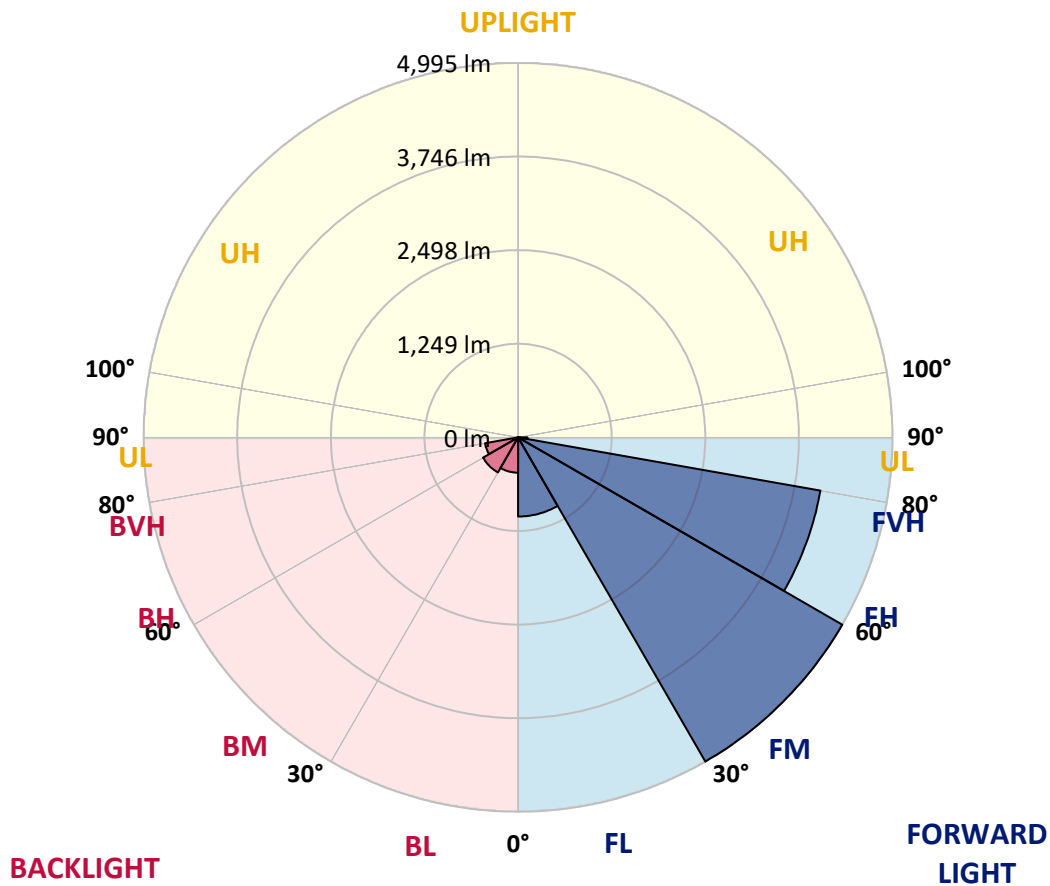
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.3	9.0			
FM (30°-60°)	4995.0	42.6			
FH (60°-80°)	4095.8	34.9			G2/5000
FVH (80°-90°)	124.4	1.1			G2/225
BL (0°-30°)	471.1	4.0	B1/500		
BM (30°-60°)	539.8	4.6	B1/1000		
BH (60°-80°)	447.7	3.8	B1/500		G1/500
BVH (80°-90°)	7.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6
2.5°	2747.9	2756.4	2744.7	2773.4	2778.7	2810.5	2828.5	2841.3	2840.2	2856.1	2856.1
5°	2586.6	2595.0	2588.7	2619.5	2643.9	2693.8	2735.1	2782.9	2785.0	2833.9	2851.9
7.5°	2449.6	2450.7	2450.7	2488.9	2520.8	2582.3	2643.9	2717.1	2725.6	2801.0	2848.7
10°	2337.1	2340.3	2341.4	2384.9	2419.9	2494.2	2572.8	2660.9	2670.4	2772.3	2846.6
12.5°	2259.7	2260.7	2265.0	2310.6	2348.8	2426.3	2505.9	2606.7	2619.5	2739.4	2837.0
15°	2222.5	2220.4	2222.5	2260.7	2298.9	2373.2	2454.9	2563.2	2577.0	2711.8	2838.1
17.5°	2220.4	2217.2	2215.1	2243.7	2268.1	2334.0	2416.7	2534.5	2549.4	2699.1	2849.8
20°	2251.2	2249.0	2238.4	2251.2	2256.5	2310.6	2392.3	2512.3	2527.1	2696.9	2875.2
22.5°	2331.8	2326.5	2310.6	2298.9	2270.3	2302.1	2375.3	2496.3	2513.3	2702.2	2908.2
25°	2451.8	2449.6	2429.5	2400.8	2327.6	2314.8	2376.4	2496.3	2512.3	2708.6	2943.2
27.5°	2632.2	2619.5	2594.0	2544.1	2439.0	2364.7	2397.6	2502.7	2518.6	2717.1	2971.8
30°	2815.8	2814.8	2806.3	2755.3	2599.3	2460.3	2442.2	2519.7	2534.5	2724.5	2998.4
32.5°	3005.8	3009.0	3030.2	2990.9	2820.1	2602.5	2522.9	2554.7	2565.3	2739.4	3021.7
35°	3186.2	3192.6	3248.9	3262.6	3088.6	2817.9	2654.5	2624.8	2625.8	2772.3	3052.5
37.5°	3359.2	3380.5	3470.7	3537.5	3422.9	3079.0	2844.5	2743.6	2735.1	2838.1	3099.2
40°	3555.6	3595.9	3709.5	3823.1	3787.0	3424.0	3103.4	2926.2	2908.2	2959.1	3183.0
42.5°	3773.2	3816.7	3967.4	4126.6	4143.6	3841.1	3427.2	3192.6	3161.8	3162.9	3340.1
45°	4006.7	4065.0	4240.2	4469.4	4572.4	4306.0	3826.2	3552.4	3521.6	3476.0	3592.7
47.5°	4313.4	4364.4	4533.1	4797.4	4994.8	4804.8	4349.5	4015.2	3958.9	3892.0	3985.4
50°	4577.7	4622.3	4767.7	5098.8	5509.6	5448.0	4942.8	4593.6	4539.5	4425.9	4503.4
52.5°	4636.1	4671.1	4804.8	5177.4	5903.3	6260.0	5669.8	5293.0	5254.8	5044.7	5074.4
55°	4373.9	4427.0	4546.9	4960.8	6006.3	7053.9	6613.4	6081.6	6002.0	5666.7	5719.7
57.5°	3711.6	3806.1	3918.6	4456.7	5727.1	7476.3	7931.6	6916.9	6844.8	6265.3	6266.3
60°	2720.3	2796.7	2872.1	3364.5	5064.9	7447.6	9127.8	7855.2	7723.6	6754.6	6736.5
62.5°	1978.4	2017.7	2016.6	2191.7	3478.1	6957.3	9756.1	9268.9	8962.2	7277.8	7174.9
65°	1556.0	1554.9	1600.5	1657.9	1942.3	5370.5	9833.6	11333.3	11002.2	7979.4	7765.0
67.5°	1211.0	1234.4	1280.0	1448.8	1459.4	2810.5	9152.2	12610.1	12603.8	9050.3	8455.9
70°	934.0	965.8	1030.6	1276.8	1347.9	1572.9	6848.0	12205.7	12308.7	9529.0	7966.6
72.5°	599.7	597.6	693.1	1031.7	1294.9	1310.8	3787.0	9695.6	9812.4	8631.1	6441.4
75°	335.4	337.5	391.6	631.5	1206.8	1233.3	1875.4	6913.8	7006.1	6729.1	4949.2
77.5°	131.6	135.9	183.6	332.2	796.0	1101.7	1114.4	4714.6	4728.4	4170.1	3035.5
80°	53.1	56.3	93.4	205.9	485.0	741.9	796.0	2777.6	2721.4	1614.3	883.1
82.5°	15.9	17.0	37.1	116.8	253.7	527.5	537.1	1065.6	1006.2	347.1	225.0
85°	1.1	1.1	8.5	36.1	90.2	132.7	357.7	347.1	307.8	87.0	99.8
87.5°	0.0	0.0	1.1	1.1	2.1	4.2	38.2	63.7	64.7	15.9	44.6
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°	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6	2846.6
2.5°	2856.1	2817.9	2814.8	2785.0	2755.3	2718.2	2674.7	2642.8	2620.5	2581.2	2573.8
5°	2851.9	2801.0	2753.2	2668.3	2573.8	2471.9	2382.8	2300.0	2248.0	2213.0	2198.1
7.5°	2843.4	2778.7	2668.3	2508.0	2349.9	2171.6	2032.5	1905.2	1818.1	1767.2	1744.9
10°	2837.0	2750.0	2570.6	2327.6	2082.4	1836.2	1625.0	1436.0	1331.0	1248.2	1234.4
12.5°	2824.3	2708.6	2445.4	2116.4	1800.1	1473.2	1203.6	972.2	811.9	739.8	714.3
15°	2811.6	2665.1	2320.2	1893.5	1492.3	1089.0	762.1	539.2	428.8	394.8	392.7
17.5°	2809.4	2625.8	2184.3	1682.3	1169.6	713.2	434.1	349.2	325.8	317.3	317.3
20°	2815.8	2592.9	2050.6	1439.2	852.3	434.1	323.7	302.5	288.7	281.3	281.3
22.5°	2822.2	2559.0	1922.1	1194.0	565.7	317.3	285.5	267.5	251.5	243.1	238.8
25°	2826.4	2521.8	1779.9	947.8	369.4	276.0	250.5	227.1	208.0	197.4	197.4
27.5°	2825.4	2477.2	1636.6	706.9	286.6	245.2	214.4	190.0	170.9	159.2	160.3
30°	2816.9	2428.4	1488.0	493.5	250.5	214.4	183.6	158.1	139.0	129.5	128.4
32.5°	2810.5	2376.4	1316.1	347.1	225.0	187.9	156.0	131.6	115.7	108.3	107.2
35°	2803.1	2325.5	1152.6	264.3	202.7	162.4	131.6	111.4	98.7	92.3	92.3
37.5°	2805.2	2272.4	975.4	227.1	180.4	141.2	112.5	95.5	84.9	78.5	77.5
40°	2838.1	2240.6	801.3	205.9	160.3	122.1	97.6	82.8	72.2	65.8	64.7
42.5°	2919.8	2241.6	634.7	190.0	142.2	104.0	84.9	71.1	61.6	54.1	53.1
45°	3083.3	2286.2	487.2	173.0	123.1	90.2	73.2	60.5	50.9	44.6	43.5
47.5°	3350.7	2418.9	369.4	158.1	107.2	78.5	62.6	50.9	42.5	37.1	36.1
50°	3776.4	2658.7	290.8	140.1	90.2	67.9	53.1	42.5	35.0	29.7	28.7
52.5°	4287.9	3018.5	249.4	124.2	77.5	59.4	45.6	35.0	28.7	24.4	23.4
55°	4875.9	3448.4	230.3	108.3	65.8	50.9	37.1	28.7	23.4	20.2	18.0
57.5°	5415.1	3835.8	229.3	92.3	56.3	43.5	30.8	24.4	20.2	15.9	14.9
60°	5940.5	4159.5	215.5	76.4	48.8	36.1	26.5	20.2	17.0	13.8	12.7
62.5°	6417.0	4422.7	180.4	61.6	41.4	29.7	22.3	18.0	14.9	11.7	11.7
65°	7015.7	4758.1	138.0	49.9	34.0	24.4	19.1	15.9	13.8	10.6	10.6
67.5°	7634.4	4935.4	98.7	41.4	27.6	21.2	17.0	14.9	11.7	9.6	9.6
70°	6914.8	4170.1	71.1	34.0	23.4	18.0	14.9	13.8	11.7	9.6	8.5
72.5°	5400.2	3006.9	53.1	26.5	20.2	17.0	13.8	12.7	10.6	8.5	8.5
75°	4004.5	1753.4	40.3	21.2	15.9	13.8	13.8	12.7	10.6	8.5	7.4
77.5°	2176.9	611.3	30.8	17.0	12.7	10.6	11.7	11.7	9.6	7.4	6.4
80°	576.3	167.7	21.2	12.7	10.6	8.5	8.5	10.6	8.5	6.4	6.4
82.5°	167.7	48.8	14.9	10.6	8.5	7.4	7.4	7.4	6.4	5.3	4.2
85°	81.7	18.0	10.6	8.5	7.4	6.4	5.3	5.3	4.2	3.2	3.2
87.5°	36.1	7.4	8.5	7.4	7.4	5.3	4.2	3.2	3.2	2.1	1.1
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)