

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: P636825

Luminaire Tested: GWS-SA4B-750-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-750-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

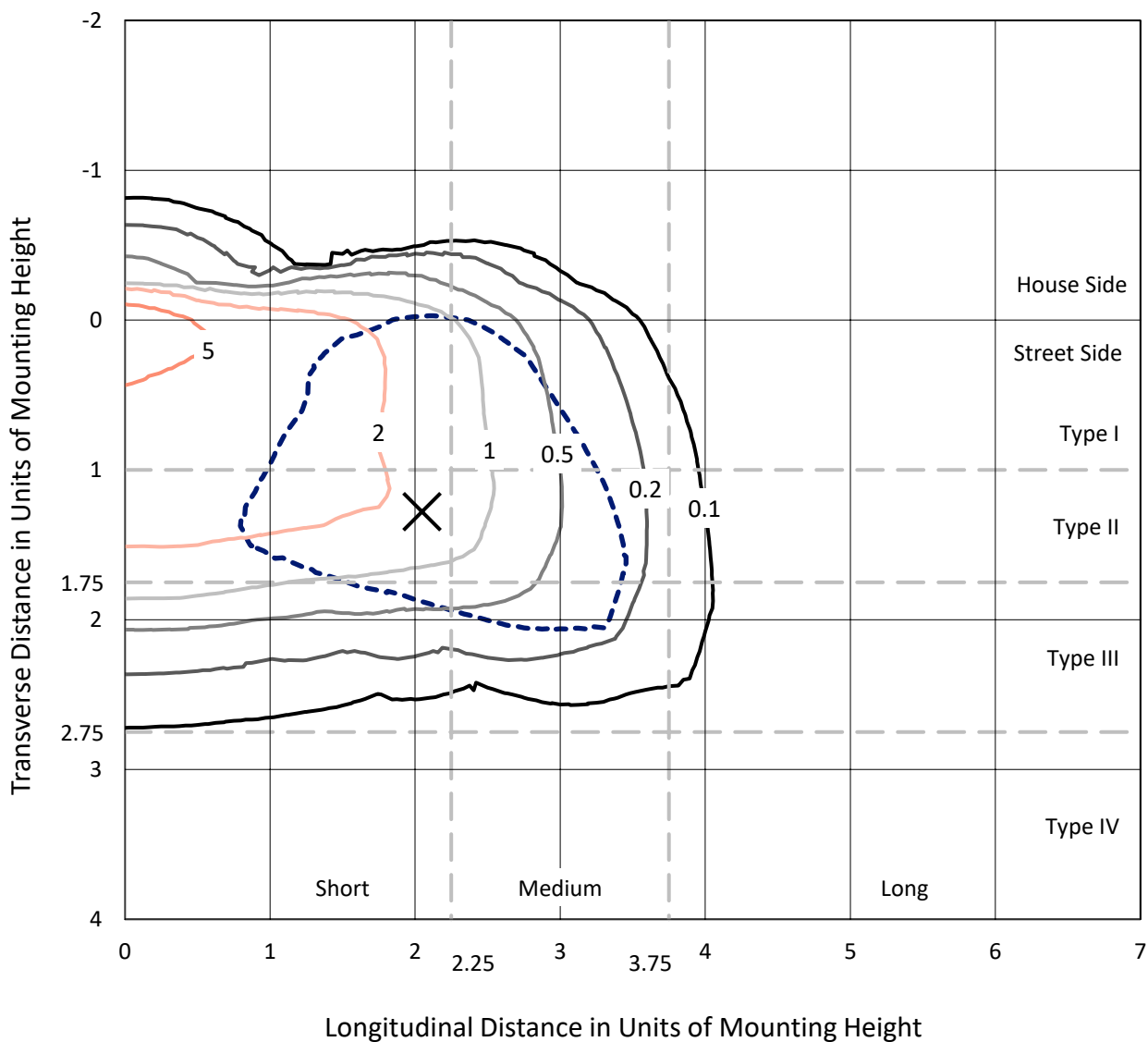
Lumens per Lamp: N/A  
Luminaire Lumens: 11991.7 lumens  
Efficiency: N/A  
Efficacy: 127.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

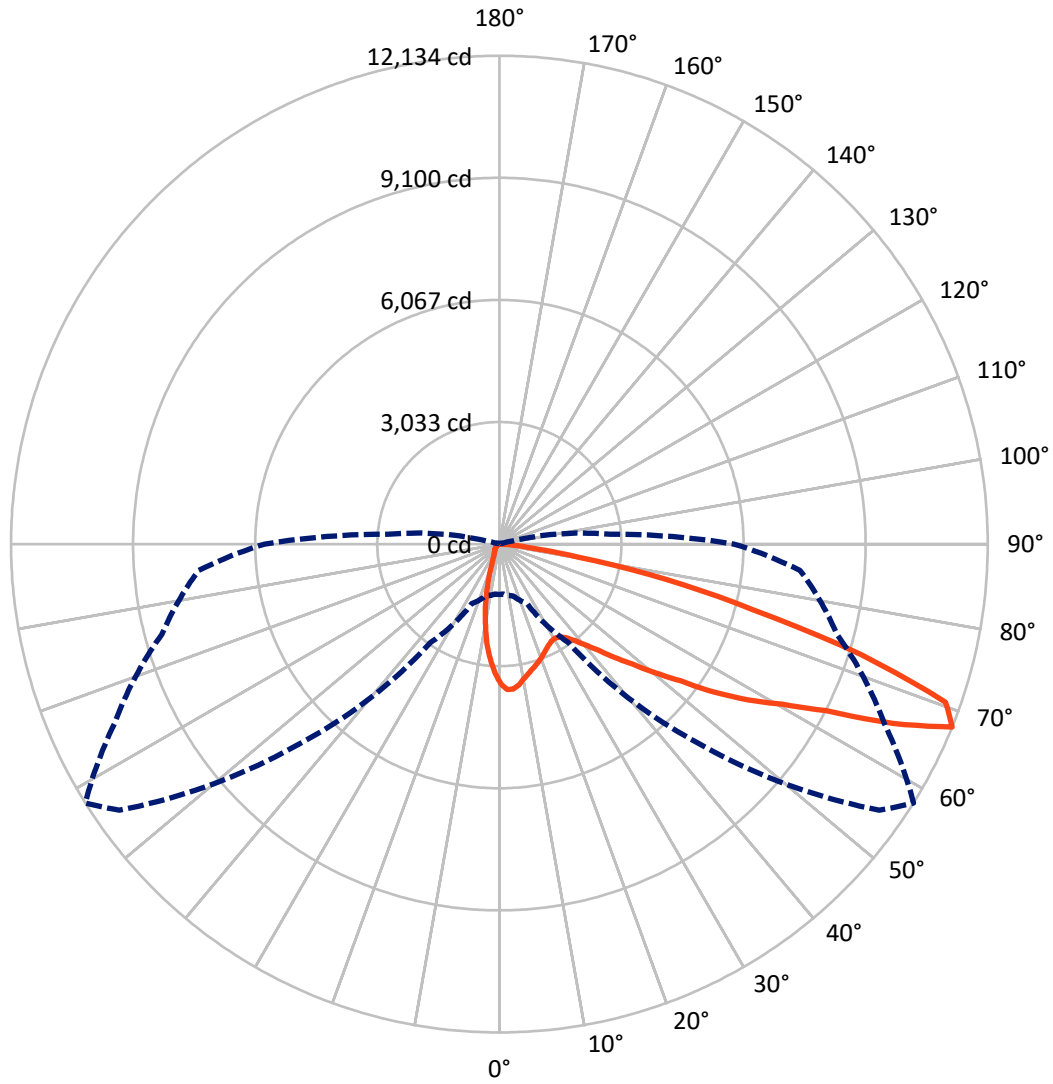
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1171.5	0.0	1171.5
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	10820.2	0.0	10820.2
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	11991.7	0.0	11991.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.1	2.3
10°-20°	585.1	4.9
20°-30°	789.0	6.6
30°-40°	1108.8	9.2
40°-50°	1712.4	14.3
50°-60°	2738.3	22.8
60°-70°	3242.4	27.0
70°-80°	1434.3	12.0
80°-90°	100.3	0.8
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°	11991.7	100.0
0°-180°	11991.7	100.0

**Coefficient of Utilization**



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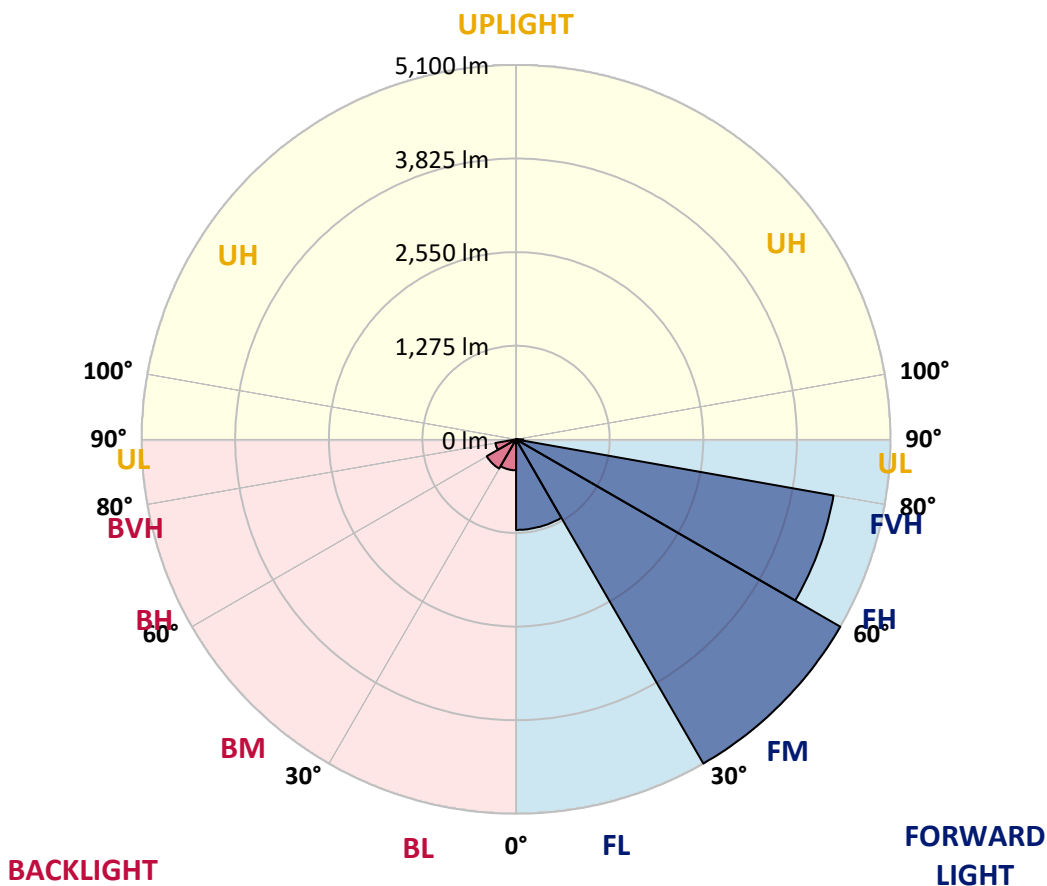
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.6	10.3			
FM (30°-60°)	5099.8	42.5			
FH (60°-80°)	4390.7	36.6			G2/5000
FVH (80°-90°)	96.0	0.8			G1/100
BL (0°-30°)	421.6	3.5	B1/500		
BM (30°-60°)	459.7	3.8	B1/1000		
BH (60°-80°)	286.0	2.4	B1/500		G1/500
BVH (80°-90°)	4.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0
2.5°	3638.3	3644.7	3653.2	3663.8	3661.7	3652.1	3640.5	3613.9	3596.9	3543.9	3479.1
5°	3521.6	3520.5	3541.8	3561.9	3598.0	3617.1	3643.6	3619.2	3610.7	3547.1	3442.0
7.5°	3293.4	3305.1	3329.5	3361.3	3413.3	3469.6	3533.3	3525.8	3551.3	3508.9	3378.3
10°	3069.5	3063.1	3101.3	3149.1	3228.7	3300.8	3393.2	3392.1	3459.0	3454.7	3306.1
12.5°	2873.1	2872.0	2901.8	2955.9	3049.3	3150.1	3275.4	3278.5	3361.3	3395.3	3244.6
15°	2707.5	2709.6	2738.3	2794.6	2891.1	3014.3	3159.7	3186.2	3279.6	3348.6	3184.1
17.5°	2589.7	2590.8	2607.8	2656.6	2751.0	2882.7	3057.8	3093.9	3213.8	3313.6	3135.3
20°	2535.6	2531.3	2534.5	2558.9	2632.2	2752.1	2953.8	3000.5	3153.3	3289.2	3090.7
22.5°	2543.0	2536.6	2521.8	2518.6	2551.5	2642.8	2843.4	2900.7	3087.5	3274.3	3050.3
25°	2608.8	2595.0	2573.8	2542.0	2529.2	2574.9	2746.8	2806.2	3025.9	3275.4	3019.6
27.5°	2709.6	2694.8	2668.3	2625.8	2575.9	2556.8	2681.0	2737.2	2982.4	3299.8	3004.7
30°	2838.1	2826.4	2800.9	2750.0	2683.1	2604.6	2667.2	2713.9	2961.2	3349.6	3011.1
32.5°	2989.8	2981.4	2960.1	2913.4	2837.0	2717.1	2713.9	2750.0	2978.2	3421.8	3035.5
35°	3136.3	3139.5	3140.6	3115.1	3033.4	2888.0	2842.3	2855.1	3048.2	3530.1	3090.7
37.5°	3294.5	3287.0	3325.2	3343.3	3264.7	3109.8	3040.8	3041.9	3182.0	3690.3	3194.7
40°	3414.4	3416.5	3499.3	3573.6	3540.7	3391.0	3292.3	3291.3	3387.9	3910.0	3362.4
42.5°	3526.9	3540.7	3662.8	3790.1	3835.8	3703.1	3632.0	3605.4	3676.5	4207.2	3613.9
45°	3646.8	3667.0	3837.9	4019.4	4139.3	4060.8	4004.5	4015.1	4023.6	4553.2	3952.5
47.5°	3786.9	3799.7	4010.9	4266.7	4490.6	4470.4	4473.6	4460.9	4456.6	4989.4	4400.4
50°	3956.7	3986.5	4229.5	4535.2	4840.9	4974.6	5019.2	5024.5	4955.5	5464.9	4864.2
52.5°	4317.6	4353.7	4561.7	4829.2	5222.9	5504.2	5685.7	5649.6	5543.5	5925.6	5372.6
55°	4743.2	4770.8	4971.4	5248.4	5689.9	6084.8	6515.7	6500.8	6240.8	6410.6	5790.8
57.5°	4783.5	4814.3	5125.3	5549.8	6289.6	6802.3	7255.5	7303.2	6922.2	6754.5	6164.4
60°	4330.3	4393.0	4817.5	5388.5	6518.9	7767.0	8066.3	8075.9	7422.1	7103.7	6620.8
62.5°	3470.6	3500.4	3928.1	4673.2	6165.4	8329.5	9304.9	9103.3	8064.2	7643.9	7343.5
65°	1819.2	1940.2	2312.7	3137.4	5000.1	8133.2	10795.1	10739.9	9219.0	8417.6	7906.1
67.5°	1248.2	1247.1	1335.2	1635.6	2981.4	7002.8	11526.4	12133.5	10554.2	8683.0	7498.5
70°	949.9	953.1	1031.6	1226.9	1544.3	4661.5	10724.0	11762.0	10802.5	7883.8	6064.6
72.5°	630.4	636.8	767.4	991.3	1233.3	2285.1	8333.8	9411.1	9089.5	6332.1	4268.8
75°	376.8	382.1	475.5	720.7	1096.4	1278.9	5295.1	6506.1	6256.7	4364.3	2288.3
77.5°	155.0	159.2	244.1	449.0	802.4	993.4	2928.3	4257.1	3747.7	1735.3	625.1
80°	64.7	66.9	117.8	314.2	578.4	623.0	1356.4	2000.7	1535.8	373.6	191.0
82.5°	23.3	24.4	43.5	173.0	359.8	469.1	684.6	790.7	433.0	122.1	103.0
85°	1.1	1.1	10.6	58.4	136.9	132.7	391.6	378.9	143.3	50.9	61.6
87.5°	0.0	0.0	1.1	1.1	2.1	5.3	37.1	65.8	30.8	12.7	26.5
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°	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0	3459.0
2.5°	3436.7	3380.4	3318.9	3261.6	3170.3	3116.2	3049.3	3019.6	2977.1	2966.5	2972.9
5°	3366.6	3270.0	3122.5	2988.8	2815.8	2676.7	2536.6	2477.2	2400.8	2349.8	2328.6
7.5°	3267.9	3141.6	2911.3	2668.3	2430.5	2176.8	1983.7	1856.3	1740.6	1676.9	1664.2
10°	3168.2	3003.6	2673.6	2325.4	1957.1	1653.6	1392.5	1199.3	1042.3	971.1	916.0
12.5°	3065.2	2860.4	2431.6	1977.3	1549.6	1135.7	813.0	625.1	512.6	468.1	475.5
15°	2970.7	2722.4	2191.7	1629.2	1091.1	685.6	449.0	378.9	352.4	343.9	342.8
17.5°	2880.5	2591.8	1952.9	1290.6	719.6	420.3	343.9	326.9	319.5	315.2	315.2
20°	2798.8	2466.6	1719.4	972.2	464.9	333.3	311.0	302.5	296.1	292.9	292.9
22.5°	2722.4	2345.6	1491.2	687.8	342.8	299.3	285.5	277.0	269.6	265.3	265.3
25°	2653.4	2236.3	1273.6	473.4	295.1	273.8	259.0	249.4	236.7	229.3	229.3
27.5°	2603.5	2138.6	1064.5	344.9	266.4	246.2	229.3	216.5	202.7	194.2	192.1
30°	2573.8	2055.9	853.3	283.4	239.9	219.7	200.6	184.7	168.8	160.3	159.2
32.5°	2556.8	1979.4	660.2	247.3	217.6	194.2	173.0	156.0	140.1	130.5	129.5
35°	2563.2	1920.0	494.6	222.9	196.4	171.9	148.6	131.6	117.8	109.3	107.2
37.5°	2618.4	1893.5	371.5	203.8	178.3	152.8	128.4	112.5	99.8	93.4	92.3
40°	2725.6	1898.8	291.9	188.9	163.4	133.7	110.4	95.5	86.0	80.7	79.6
42.5°	2892.2	1943.3	240.9	176.2	147.5	116.7	95.5	83.8	74.3	69.0	67.9
45°	3140.6	2035.7	210.1	161.3	130.5	100.8	82.8	72.2	63.7	57.3	56.3
47.5°	3500.4	2196.0	190.0	147.5	115.7	87.0	71.1	60.5	53.1	47.8	46.7
50°	3883.5	2388.1	173.0	133.7	103.0	75.4	60.5	49.9	43.5	38.2	37.1
52.5°	4292.1	2595.0	160.3	121.0	91.3	64.7	50.9	41.4	35.0	29.7	28.7
55°	4684.8	2803.0	145.4	112.5	77.5	55.2	42.5	34.0	27.6	23.3	23.3
57.5°	5066.9	2994.1	129.5	98.7	63.7	46.7	35.0	27.6	22.3	19.1	18.0
60°	5523.3	3258.4	111.4	83.8	53.1	39.3	28.7	22.3	18.0	14.9	14.9
62.5°	6201.5	3533.3	95.5	70.0	44.6	32.9	23.3	18.0	14.9	12.7	11.7
65°	6423.3	3384.7	80.7	57.3	36.1	26.5	19.1	15.9	12.7	11.7	10.6
67.5°	5831.1	2774.4	66.9	46.7	29.7	22.3	17.0	13.8	11.7	10.6	9.6
70°	4550.0	1968.8	52.0	35.0	24.4	18.0	14.9	12.7	10.6	9.6	9.6
72.5°	3094.9	1164.3	41.4	26.5	20.2	15.9	12.7	11.7	10.6	9.6	8.5
75°	1524.1	413.9	31.8	20.2	15.9	13.8	11.7	10.6	9.6	8.5	8.5
77.5°	410.7	114.6	24.4	15.9	12.7	10.6	10.6	10.6	9.6	7.4	7.4
80°	139.0	47.8	18.0	11.7	10.6	8.5	7.4	9.6	8.5	7.4	6.4
82.5°	76.4	23.3	12.7	9.6	7.4	6.4	6.4	6.4	6.4	5.3	5.3
85°	48.8	12.7	8.5	7.4	7.4	5.3	4.2	4.2	3.2	3.2	3.2
87.5°	22.3	7.4	7.4	6.4	6.4	5.3	3.2	2.1	1.1	1.1	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)