

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: P637720

Luminaire Tested: GWS-SA4D-735-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18092.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

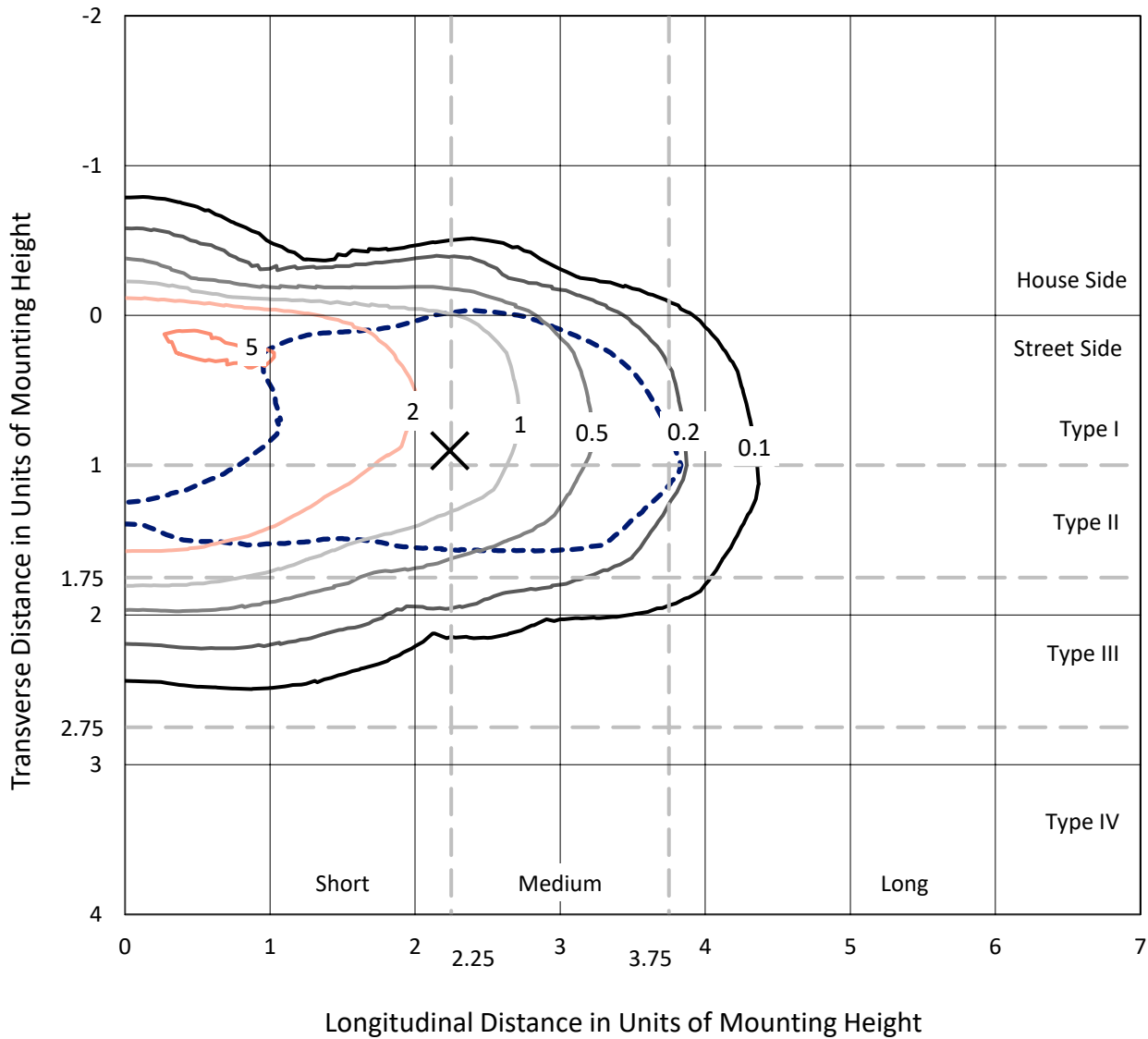
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

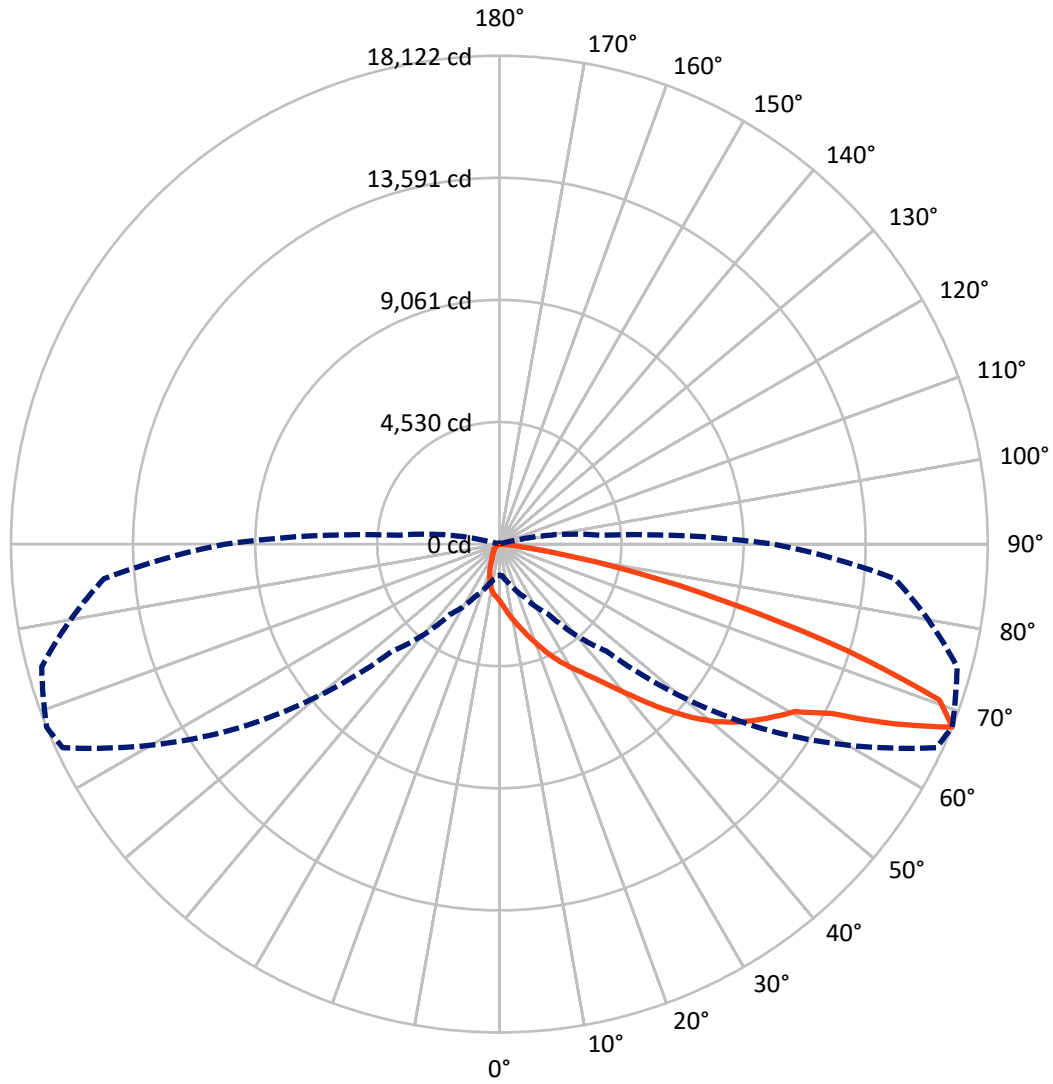
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1306.5	0.0	1306.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16785.8	0.0	16785.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	18092.3	0.0	18092.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	1.1
10°-20°	589.7	3.3
20°-30°	1013.4	5.6
30°-40°	1761.9	9.7
40°-50°	3074.4	17.0
50°-60°	4636.9	25.6
60°-70°	4649.6	25.7
70°-80°	2051.4	11.3
80°-90°	109.6	0.6
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°	18092.3	100.0
0°-180°	18092.3	100.0

Coefficient of Utilization



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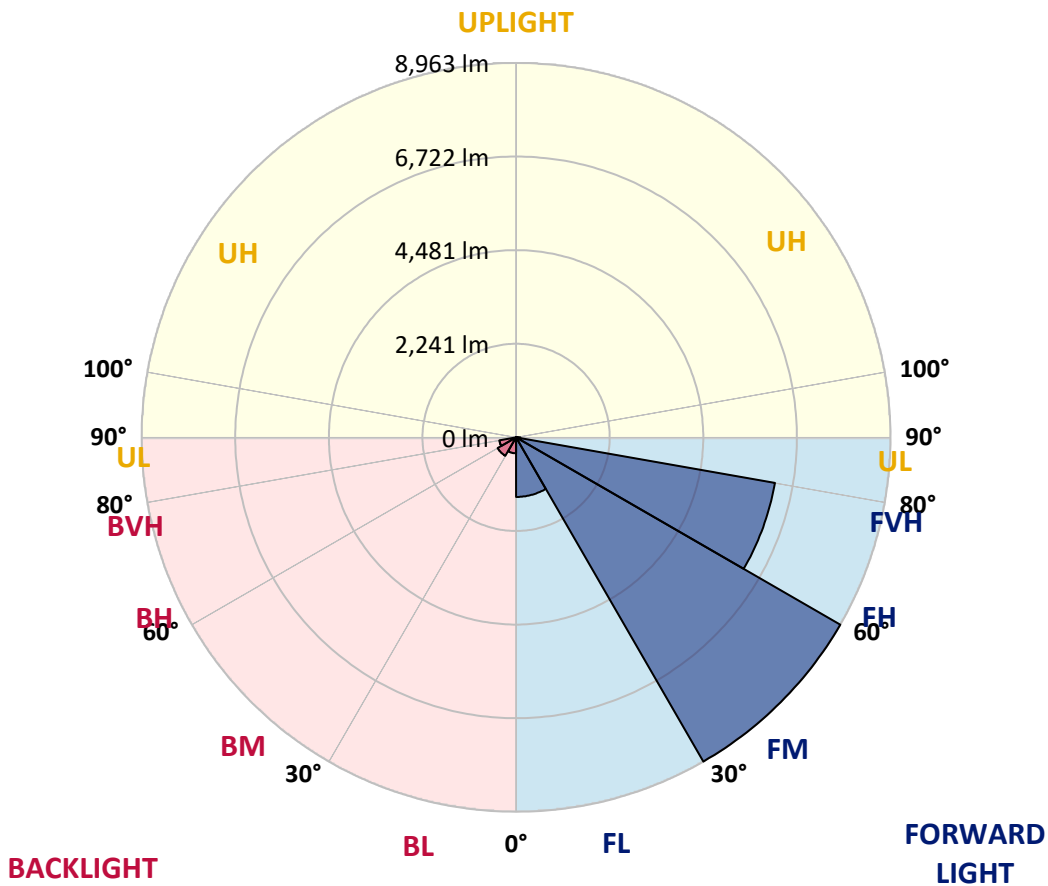
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.2	7.9			
FM (30°-60°)	8962.9	49.5			
FH (60°-80°)	6293.3	34.8			G3/7500
FVH (80°-90°)	103.4	0.6			G2/225
BL (0°-30°)	382.2	2.1	B1/500		
BM (30°-60°)	510.3	2.8	B1/1000		
BH (60°-80°)	407.7	2.3	B1/500		G1/500
BVH (80°-90°)	6.2	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5
2.5°	2451.8	2467.4	2451.8	2455.2	2410.2	2389.4	2344.4	2282.1	2266.5	2226.7	2166.1
5°	2751.3	2765.2	2749.6	2746.1	2694.2	2656.1	2581.6	2474.3	2443.1	2365.2	2245.7
7.5°	2914.1	2922.7	2927.9	2936.6	2917.5	2886.4	2818.9	2685.5	2652.6	2526.2	2358.3
10°	2931.4	2938.3	2964.3	3016.2	3054.3	3073.4	3035.3	2912.4	2860.4	2737.5	2496.8
12.5°	2882.9	2893.3	2934.9	3021.4	3127.1	3224.0	3248.3	3140.9	3094.2	2936.6	2659.6
15°	2818.9	2827.5	2884.7	3002.4	3161.7	3340.0	3440.5	3393.7	3341.8	3177.3	2839.6
17.5°	2720.2	2732.3	2811.9	2971.2	3177.3	3431.8	3648.2	3663.8	3627.5	3449.1	3038.8
20°	2664.8	2673.4	2744.4	2908.9	3166.9	3499.3	3842.2	3989.3	3949.5	3762.5	3267.3
22.5°	2711.5	2718.4	2765.2	2893.3	3132.3	3537.4	4022.2	4314.9	4292.3	4098.4	3508.0
25°	2957.4	2979.9	2952.2	2974.7	3147.8	3558.2	4167.7	4640.4	4645.6	4449.9	3757.3
27.5°	3456.0	3426.6	3360.8	3248.3	3269.0	3613.6	4292.3	4946.8	4991.9	4792.7	3978.9
30°	3963.4	3946.1	3906.2	3731.3	3585.9	3736.5	4398.0	5260.2	5331.2	5130.4	4176.3
32.5°	4533.0	4550.3	4479.3	4269.8	4022.2	3985.9	4507.1	5558.1	5691.4	5513.0	4408.4
35°	5213.5	5218.7	5078.4	4846.4	4565.9	4398.0	4702.7	5887.0	6132.9	6001.3	4718.3
37.5°	5876.7	5907.8	5831.6	5466.3	5217.0	4910.5	5026.5	6309.5	6655.8	6603.9	5107.9
40°	6463.6	6512.1	6487.9	6134.6	5807.4	5549.4	5528.6	6804.7	7287.8	7346.7	5622.1
42.5°	6931.1	6962.3	6981.3	6730.3	6441.1	6295.7	6148.5	7379.6	8034.1	8274.8	6252.4
45°	7424.6	7435.0	7474.8	7305.1	7052.3	7064.5	6880.9	8077.4	8820.2	9303.3	6976.1
47.5°	8053.1	8087.8	8068.7	7890.4	7661.8	7798.6	7637.6	8795.9	9595.9	10401.0	7717.2
50°	8818.4	8854.8	8837.5	8629.7	8375.2	8432.3	8331.9	9493.7	10343.9	11436.4	8333.6
52.5°	9213.2	9242.7	9457.4	9550.9	9417.5	9053.9	8924.1	10260.8	10975.9	12288.3	8899.8
55°	9022.8	9043.5	9511.0	9905.8	10394.1	10030.5	9519.7	10852.9	11533.4	12953.2	9320.6
57.5°	8233.2	8345.7	8981.2	9649.6	10676.3	10994.9	10485.9	11497.0	12070.2	13415.5	9734.4
60°	6614.3	6609.1	7519.8	8719.7	10125.7	11259.8	11850.3	12368.0	12608.7	13770.5	10288.5
62.5°	3655.2	3688.1	4900.1	6480.9	8595.1	10574.2	12873.6	13872.6	13836.3	14390.4	11155.9
65°	1819.8	1885.6	2543.5	3712.3	5719.1	8738.8	13050.2	16168.6	16064.7	15850.0	12948.0
67.5°	1154.9	1180.9	1544.5	2157.4	3179.0	5616.9	11950.7	17881.0	18121.7	17581.5	14726.3
70°	748.0	791.3	1073.5	1475.2	1918.5	2895.0	8754.4	16771.1	17323.5	17391.0	13618.1
72.5°	406.9	438.1	685.7	1052.7	1385.2	1447.5	4917.4	12586.2	13474.4	14752.2	10653.8
75°	232.0	254.5	375.7	715.1	1016.4	881.3	2179.9	8425.4	8991.6	10543.0	7634.1
77.5°	140.3	159.3	211.2	348.0	637.2	588.7	824.2	5128.7	5488.8	6290.5	4006.7
80°	64.1	76.2	133.3	192.2	348.0	278.8	315.1	2391.2	2469.1	2581.6	1326.3
82.5°	29.4	34.6	60.6	114.3	197.4	161.0	121.2	552.3	777.4	735.9	337.6
85°	3.5	3.5	22.5	46.8	55.4	41.6	50.2	124.7	157.6	221.6	97.0
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	10.4	15.6	22.5	36.4	24.2
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°	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5	2105.5
2.5°	2138.4	2089.9	2046.6	1982.5	1939.3	1890.8	1857.9	1818.1	1802.5	1790.4	1773.0
5°	2186.9	2108.9	2003.3	1885.6	1788.6	1696.9	1612.0	1556.6	1508.1	1501.2	1477.0
7.5°	2266.5	2150.5	1972.2	1780.0	1615.5	1463.1	1343.6	1246.7	1198.2	1182.6	1154.9
10°	2372.1	2212.8	1925.4	1631.1	1393.8	1212.0	1077.0	967.9	891.7	864.0	843.2
12.5°	2489.9	2270.0	1851.0	1447.5	1177.4	969.6	798.2	682.2	633.7	616.4	600.8
15°	2624.9	2323.7	1733.2	1264.0	966.2	713.4	592.2	542.0	521.2	516.0	510.8
17.5°	2754.8	2358.3	1593.0	1073.5	742.8	554.1	496.9	477.9	472.7	467.5	464.0
20°	2902.0	2382.5	1428.5	893.4	576.6	469.2	441.5	427.7	417.3	406.9	405.2
22.5°	3052.6	2382.5	1250.1	716.8	483.1	420.8	389.6	363.6	344.6	334.2	330.7
25°	3196.3	2349.6	1073.5	573.1	425.9	374.0	334.2	304.7	278.8	266.6	263.2
27.5°	3298.5	2264.8	919.4	484.8	386.1	332.4	284.0	251.1	230.3	218.2	216.4
30°	3362.5	2138.4	777.4	432.9	351.5	289.2	240.7	213.0	197.4	188.7	185.3
32.5°	3411.0	1982.5	651.0	396.5	318.6	251.1	209.5	187.0	173.1	166.2	164.5
35°	3508.0	1835.4	557.5	363.6	284.0	219.9	183.5	166.2	155.8	147.2	145.4
37.5°	3643.0	1712.4	483.1	334.2	251.1	195.7	166.2	150.6	142.0	133.3	131.6
40°	3842.2	1634.5	427.7	304.7	221.6	176.6	152.4	138.5	126.4	117.7	116.0
42.5°	4148.6	1598.2	391.3	275.3	195.7	159.3	140.3	122.9	110.8	102.2	100.4
45°	4514.0	1617.2	360.1	245.9	178.3	147.2	124.7	107.4	95.2	86.6	84.8
47.5°	4905.3	1684.7	334.2	218.2	161.0	135.1	110.8	91.8	81.4	72.7	71.0
50°	5313.9	1795.5	311.7	192.2	147.2	121.2	95.2	79.6	69.3	62.3	60.6
52.5°	5668.9	1946.2	289.2	173.1	135.1	107.4	83.1	69.3	58.9	51.9	50.2
55°	6008.2	2088.2	271.8	155.8	121.2	93.5	72.7	58.9	50.2	43.3	41.6
57.5°	6377.1	2238.8	251.1	140.3	109.1	83.1	64.1	50.2	43.3	36.4	34.6
60°	6913.8	2462.2	219.9	128.1	95.2	72.7	55.4	45.0	38.1	29.4	27.7
62.5°	7687.8	2869.1	185.3	110.8	81.4	62.3	46.8	38.1	31.2	24.2	20.8
65°	9135.3	3561.7	152.4	91.8	65.8	51.9	39.8	31.2	24.2	17.3	15.6
67.5°	10177.7	3741.7	122.9	74.5	53.7	39.8	32.9	24.2	17.3	12.1	10.4
70°	8898.1	2687.3	95.2	60.6	45.0	31.2	26.0	19.0	12.1	8.7	6.9
72.5°	6704.3	1755.7	71.0	46.8	34.6	26.0	19.0	15.6	10.4	6.9	5.2
75°	4725.2	1014.6	51.9	34.6	24.2	19.0	15.6	12.1	8.7	5.2	5.2
77.5°	2422.3	419.0	36.4	24.2	17.3	12.1	10.4	6.9	6.9	5.2	3.5
80°	735.9	138.5	20.8	15.6	12.1	8.7	5.2	5.2	5.2	3.5	1.7
82.5°	168.0	45.0	12.1	12.1	8.7	6.9	5.2	1.7	1.7	0.0	0.0
85°	43.3	13.9	10.4	8.7	8.7	6.9	3.5	1.7	0.0	0.0	0.0
87.5°	15.6	8.7	8.7	8.7	6.9	5.2	3.5	0.0	0.0	0.0	0.0
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)