

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: P633250

Luminaire Tested: GWS-SA2E-735-U-SL3-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633250  
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-SA2E-735-U-SL3-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

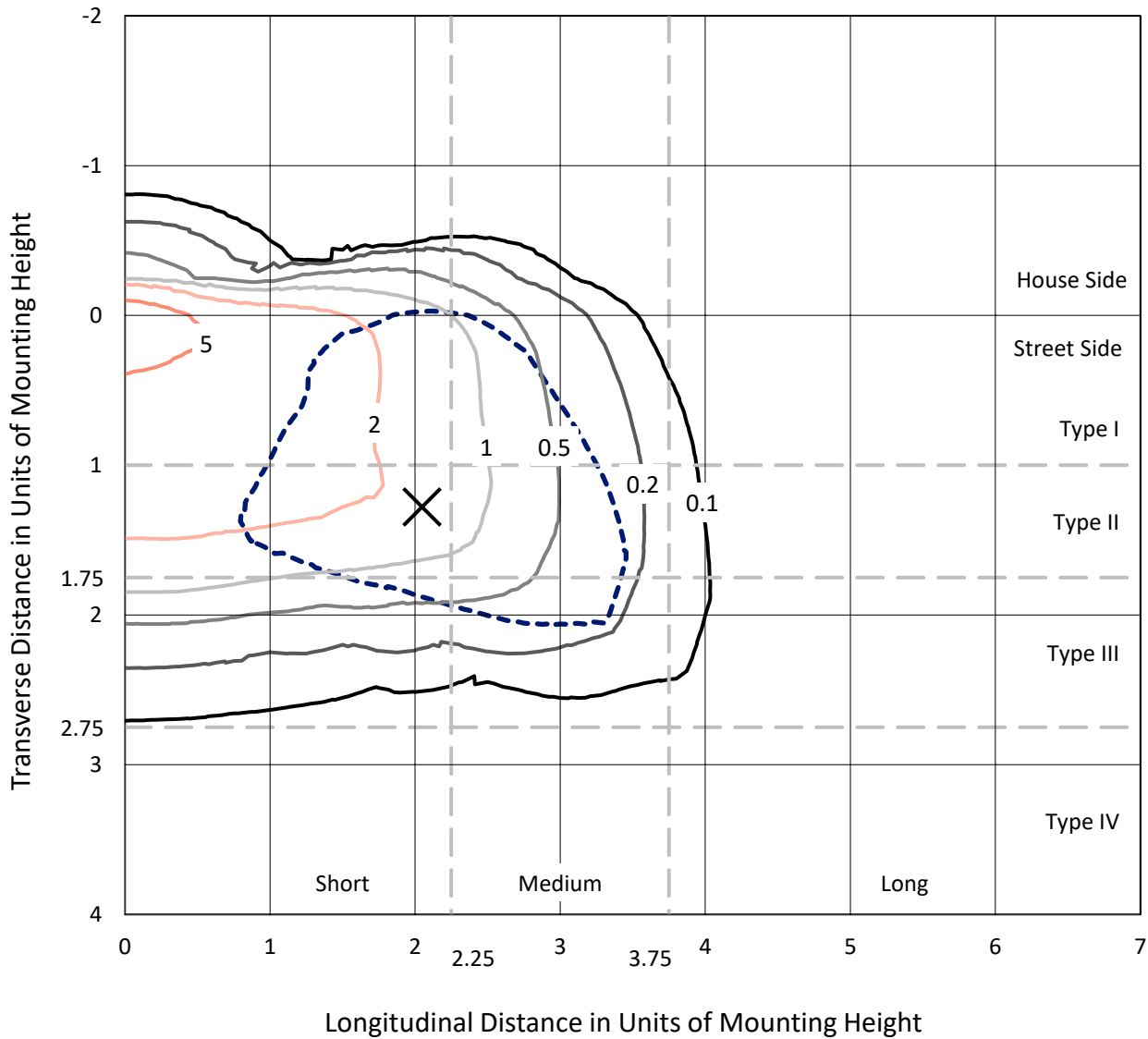
Lumens per Lamp: N/A  
Luminaire Lumens: 11655.6 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

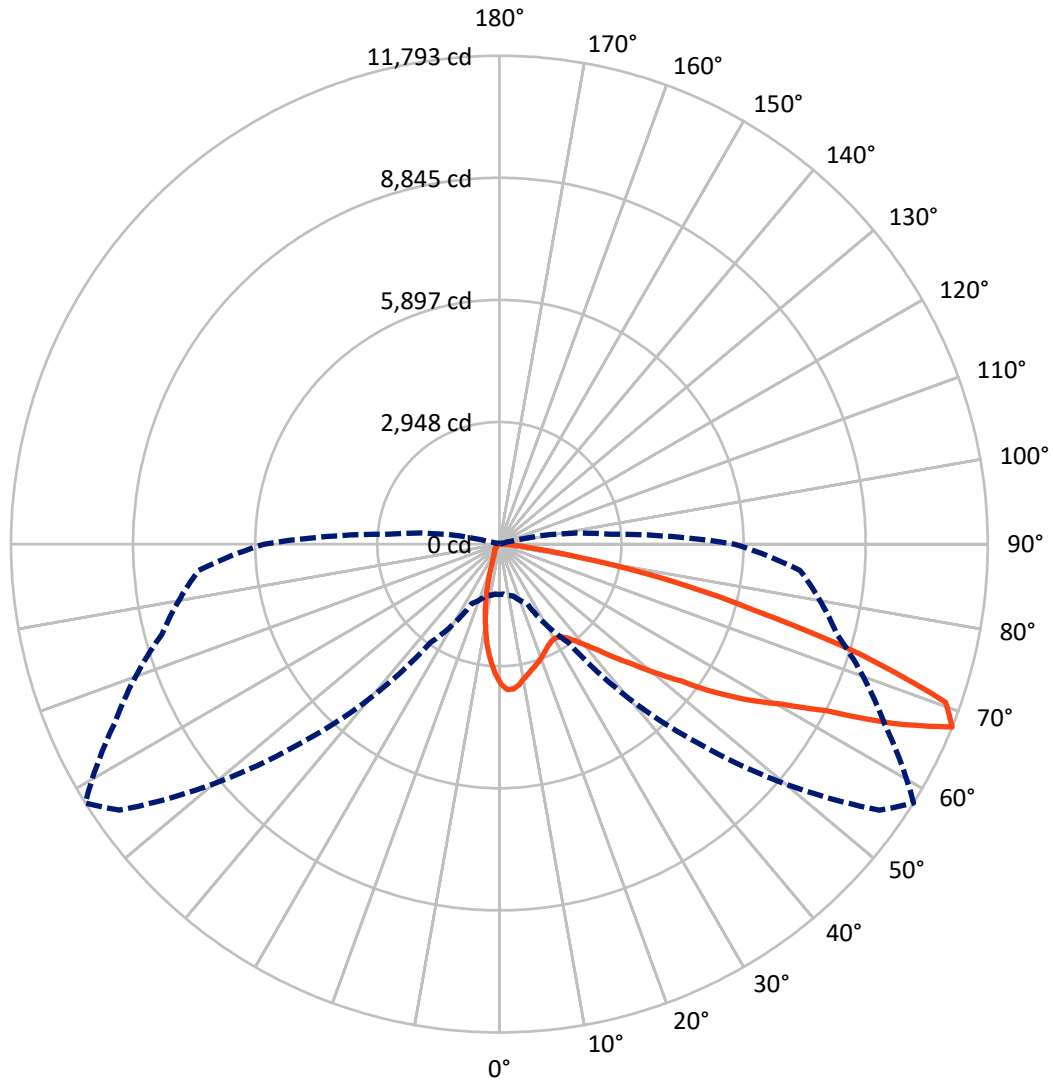
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 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	1138.7	0.0	1138.7
	% Fixture	9.8	0.0	9.8
<b>Street Side</b>	Lumens	10516.9	0.0	10516.9
	% Fixture	90.2	0.0	90.2
<b>Total</b>	Lumens	11655.6	0.0	11655.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.2	2.3
10°-20°	568.7	4.9
20°-30°	766.9	6.6
30°-40°	1077.7	9.2
40°-50°	1664.4	14.3
50°-60°	2661.6	22.8
60°-70°	3151.5	27.0
70°-80°	1394.1	12.0
80°-90°	97.5	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°	11655.6	100.0
0°-180°	11655.6	100.0

**Coefficient of Utilization**



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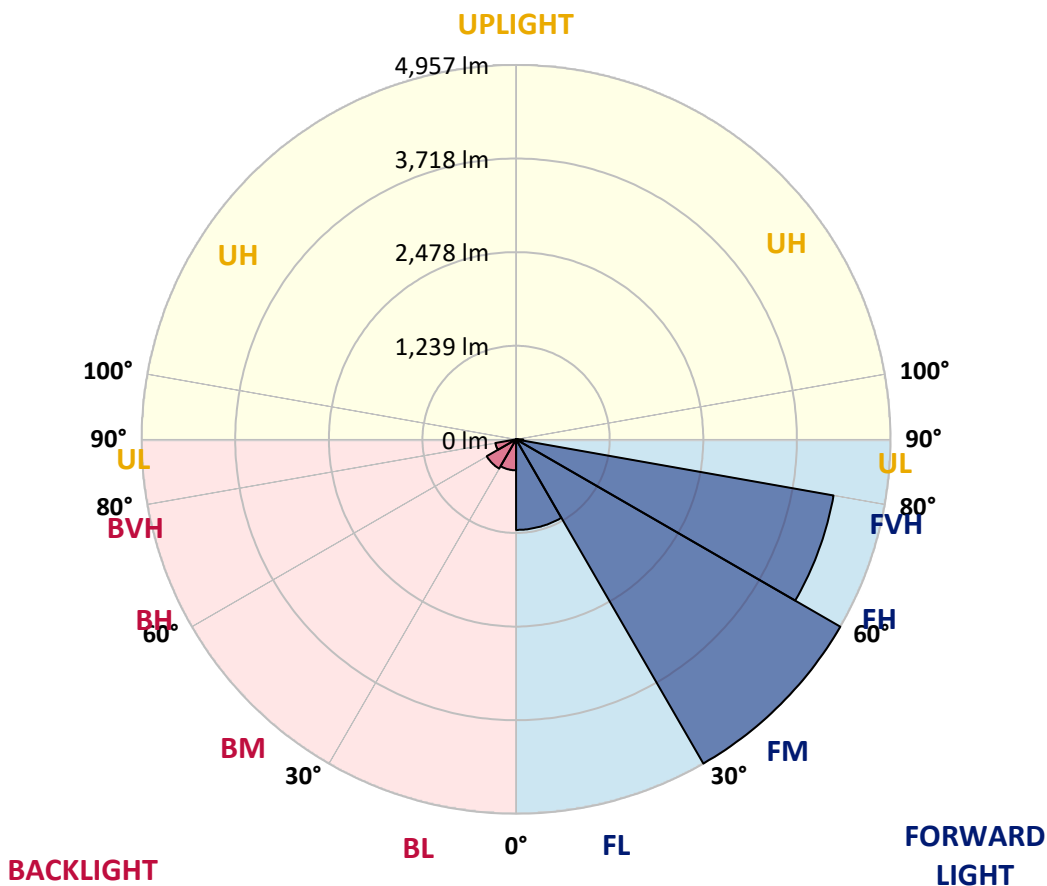
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.1	10.3			
FM (30°-60°)	4956.9	42.5			
FH (60°-80°)	4267.7	36.6			G2/5000
FVH (80°-90°)	93.3	0.8			G1/100
BL (0°-30°)	409.8	3.5	B1/500		
BM (30°-60°)	446.8	3.8	B1/1000		
BH (60°-80°)	278.0	2.4	B1/500		G1/500
BVH (80°-90°)	4.2	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0
2.5°	3536.4	3542.6	3550.8	3561.1	3559.1	3549.8	3538.4	3512.6	3496.1	3444.6	3381.6
5°	3422.9	3421.9	3442.5	3462.1	3497.2	3515.7	3541.5	3517.8	3509.5	3447.6	3345.5
7.5°	3201.1	3212.4	3236.2	3267.1	3317.7	3372.3	3434.2	3427.0	3451.8	3410.5	3283.6
10°	2983.4	2977.2	3014.4	3060.8	3138.2	3208.3	3298.1	3297.0	3362.0	3357.9	3213.5
12.5°	2792.6	2791.5	2820.4	2873.0	2963.8	3061.8	3183.6	3186.6	3267.1	3300.1	3153.6
15°	2631.6	2633.7	2661.6	2716.2	2810.1	2929.8	3071.1	3096.9	3187.7	3254.7	3094.8
17.5°	2517.1	2518.2	2534.7	2582.1	2673.9	2801.9	2972.1	3007.1	3123.7	3220.7	3047.4
20°	2464.5	2460.4	2463.5	2487.2	2558.4	2675.0	2871.0	2916.4	3064.9	3197.0	3004.1
22.5°	2471.7	2465.6	2451.1	2448.0	2480.0	2568.7	2763.7	2819.4	3001.0	3182.5	2964.9
25°	2535.7	2522.3	2501.7	2470.7	2458.3	2502.7	2669.8	2727.6	2941.1	3183.6	2934.9
27.5°	2633.7	2619.3	2593.5	2552.2	2503.7	2485.2	2605.9	2660.5	2898.8	3207.3	2920.5
30°	2758.5	2747.2	2722.4	2672.9	2607.9	2531.6	2592.4	2637.8	2878.2	3255.8	2926.7
32.5°	2906.0	2897.8	2877.2	2831.8	2757.5	2640.9	2637.8	2672.9	2894.7	3325.9	2950.4
35°	3048.4	3051.5	3052.5	3027.8	2948.3	2807.0	2762.7	2775.0	2962.8	3431.1	3004.1
37.5°	3202.1	3194.9	3232.0	3249.6	3173.2	3022.6	2955.6	2956.6	3092.8	3586.9	3105.2
40°	3318.7	3320.8	3401.2	3473.4	3441.5	3296.0	3200.1	3199.0	3292.9	3800.5	3268.1
42.5°	3428.0	3441.5	3560.1	3683.9	3728.2	3599.3	3530.2	3504.4	3573.5	4089.3	3512.6
45°	3544.6	3564.2	3730.3	3906.7	4023.3	3946.9	3892.3	3902.6	3910.8	4425.6	3841.7
47.5°	3680.8	3693.2	3898.5	4147.1	4364.7	4345.1	4348.2	4335.9	4331.7	4849.6	4277.1
50°	3845.8	3874.7	4111.0	4408.1	4705.2	4835.2	4878.5	4883.6	4816.6	5311.8	4727.9
52.5°	4196.6	4231.7	4433.9	4693.8	5076.6	5349.9	5526.3	5491.3	5388.1	5759.5	5222.0
55°	4610.3	4637.1	4832.1	5101.3	5530.5	5914.2	6333.1	6318.6	6065.9	6230.9	5628.5
57.5°	4649.5	4679.4	4981.7	5394.3	6113.3	6611.6	7052.1	7098.5	6728.2	6565.2	5991.6
60°	4209.0	4269.8	4682.5	5237.5	6336.2	7549.3	7840.2	7849.5	7214.1	6904.6	6435.2
62.5°	3373.4	3402.3	3818.0	4542.2	5992.6	8096.1	9044.1	8848.1	7838.2	7429.7	7137.7
65°	1768.2	1885.8	2247.9	3049.4	4859.9	7905.2	10492.5	10438.9	8960.6	8181.7	7684.5
67.5°	1213.2	1212.1	1297.8	1589.7	2897.8	6806.6	11203.3	11793.4	10258.3	8439.6	7288.3
70°	923.3	926.4	1002.7	1192.5	1501.0	4530.8	10423.4	11432.3	10499.7	7662.8	5894.6
72.5°	612.8	619.0	745.9	963.5	1198.7	2221.1	8100.2	9147.3	8834.7	6154.6	4149.1
75°	366.2	371.4	462.2	700.5	1065.7	1243.1	5146.7	6323.8	6081.4	4242.0	2224.2
77.5°	150.6	154.7	237.3	436.4	779.9	965.6	2846.2	4137.8	3642.6	1686.7	607.6
80°	62.9	65.0	114.5	305.4	562.2	605.6	1318.4	1944.6	1492.7	363.1	185.7
82.5°	22.7	23.7	42.3	168.2	349.7	456.0	665.4	768.6	420.9	118.6	100.1
85°	1.0	1.0	10.3	56.7	133.1	129.0	380.7	368.3	139.3	49.5	59.8
87.5°	0.0	0.0	1.0	1.0	2.1	5.2	36.1	64.0	29.9	12.4	25.8
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°	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0	3362.0
2.5°	3340.4	3285.7	3225.8	3170.1	3081.4	3028.8	2963.8	2934.9	2893.7	2883.4	2889.5
5°	3272.3	3178.4	3035.0	2905.0	2736.9	2601.7	2465.6	2407.8	2333.5	2284.0	2263.4
7.5°	3176.3	3053.6	2829.7	2593.5	2362.4	2115.8	1928.1	1804.3	1691.8	1629.9	1617.6
10°	3079.4	2919.5	2598.6	2260.3	1902.3	1607.3	1353.5	1165.7	1013.0	943.9	890.3
12.5°	2979.3	2780.2	2363.4	1921.9	1506.2	1103.8	790.2	607.6	498.3	454.9	462.2
15°	2887.5	2646.1	2130.3	1583.5	1060.5	666.4	436.4	368.3	342.5	334.2	333.2
17.5°	2799.8	2519.2	1898.2	1254.4	699.4	408.5	334.2	317.7	310.5	306.4	306.4
20°	2720.4	2397.5	1671.2	945.0	451.8	323.9	302.3	294.0	287.8	284.7	284.7
22.5°	2646.1	2279.9	1449.4	668.5	333.2	290.9	277.5	269.3	262.0	257.9	257.9
25°	2579.0	2173.6	1237.9	460.1	286.8	266.2	251.7	242.4	230.0	222.8	222.8
27.5°	2530.5	2078.7	1034.7	335.3	258.9	239.3	222.8	210.4	197.0	188.8	186.7
30°	2501.7	1998.2	829.4	275.4	233.1	213.5	195.0	179.5	164.0	155.8	154.7
32.5°	2485.2	1924.0	641.7	240.4	211.5	188.8	168.2	151.6	136.2	126.9	125.9
35°	2491.3	1866.2	480.7	216.6	190.8	167.1	144.4	127.9	114.5	106.3	104.2
37.5°	2545.0	1840.4	361.1	198.1	173.3	148.6	124.8	109.4	97.0	90.8	89.8
40°	2649.2	1845.6	283.7	183.6	158.9	130.0	107.3	92.8	83.6	78.4	77.4
42.5°	2811.1	1888.9	234.2	171.2	143.4	113.5	92.8	81.5	72.2	67.1	66.0
45°	3052.5	1978.6	204.3	156.8	126.9	98.0	80.5	70.1	61.9	55.7	54.7
47.5°	3402.3	2134.4	184.7	143.4	112.4	84.6	69.1	58.8	51.6	46.4	45.4
50°	3774.7	2321.1	168.2	130.0	100.1	73.2	58.8	48.5	42.3	37.1	36.1
52.5°	4171.8	2522.3	155.8	117.6	88.7	62.9	49.5	40.2	34.0	28.9	27.9
55°	4553.5	2724.5	141.3	109.4	75.3	53.6	41.3	33.0	26.8	22.7	22.7
57.5°	4924.9	2910.2	125.9	95.9	61.9	45.4	34.0	26.8	21.7	18.6	17.5
60°	5368.5	3167.0	108.3	81.5	51.6	38.2	27.9	21.7	17.5	14.4	14.4
62.5°	6027.7	3434.2	92.8	68.1	43.3	32.0	22.7	17.5	14.4	12.4	11.3
65°	6243.3	3289.8	78.4	55.7	35.1	25.8	18.6	15.5	12.4	11.3	10.3
67.5°	5667.7	2696.6	65.0	45.4	28.9	21.7	16.5	13.4	11.3	10.3	9.3
70°	4422.5	1913.6	50.5	34.0	23.7	17.5	14.4	12.4	10.3	9.3	9.3
72.5°	3008.2	1131.7	40.2	25.8	19.6	15.5	12.4	11.3	10.3	9.3	8.3
75°	1481.4	402.3	30.9	19.6	15.5	13.4	11.3	10.3	9.3	8.3	8.3
77.5°	399.2	111.4	23.7	15.5	12.4	10.3	10.3	10.3	9.3	7.2	7.2
80°	135.1	46.4	17.5	11.3	10.3	8.3	7.2	9.3	8.3	7.2	6.2
82.5°	74.3	22.7	12.4	9.3	7.2	6.2	6.2	6.2	6.2	5.2	5.2
85°	47.5	12.4	8.3	7.2	7.2	5.2	4.1	4.1	3.1	3.1	3.1
87.5°	21.7	7.2	7.2	6.2	6.2	5.2	3.1	2.1	1.0	1.0	1.0
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)