

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: P633796

Luminaire Tested: GWS-SA2F-740-U-SL2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633796
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-SA2F-740-U-SL2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12859.9 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

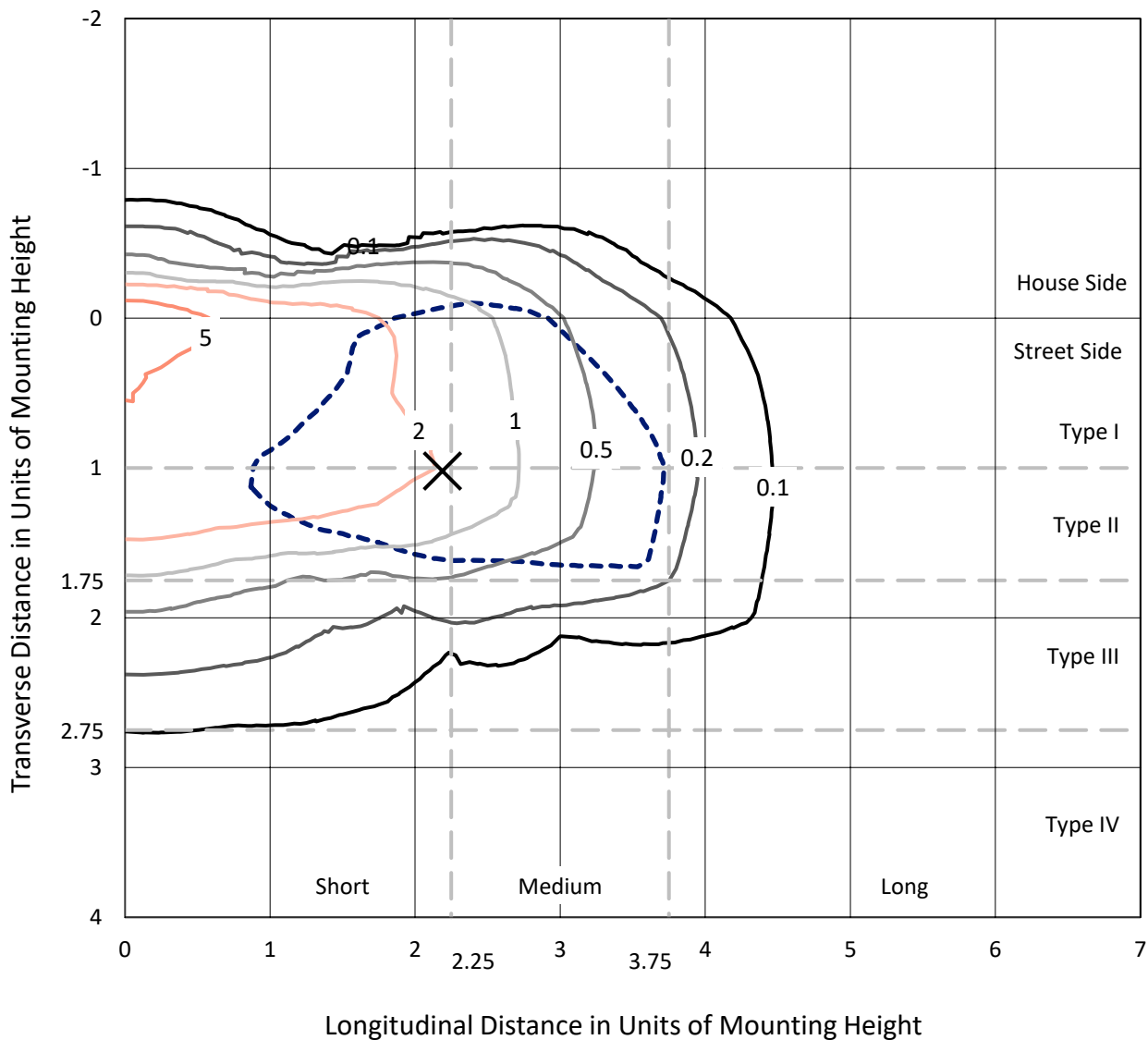
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633796
 CATALOG NUMBER: GWS-SA2F-740-U-SL2-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

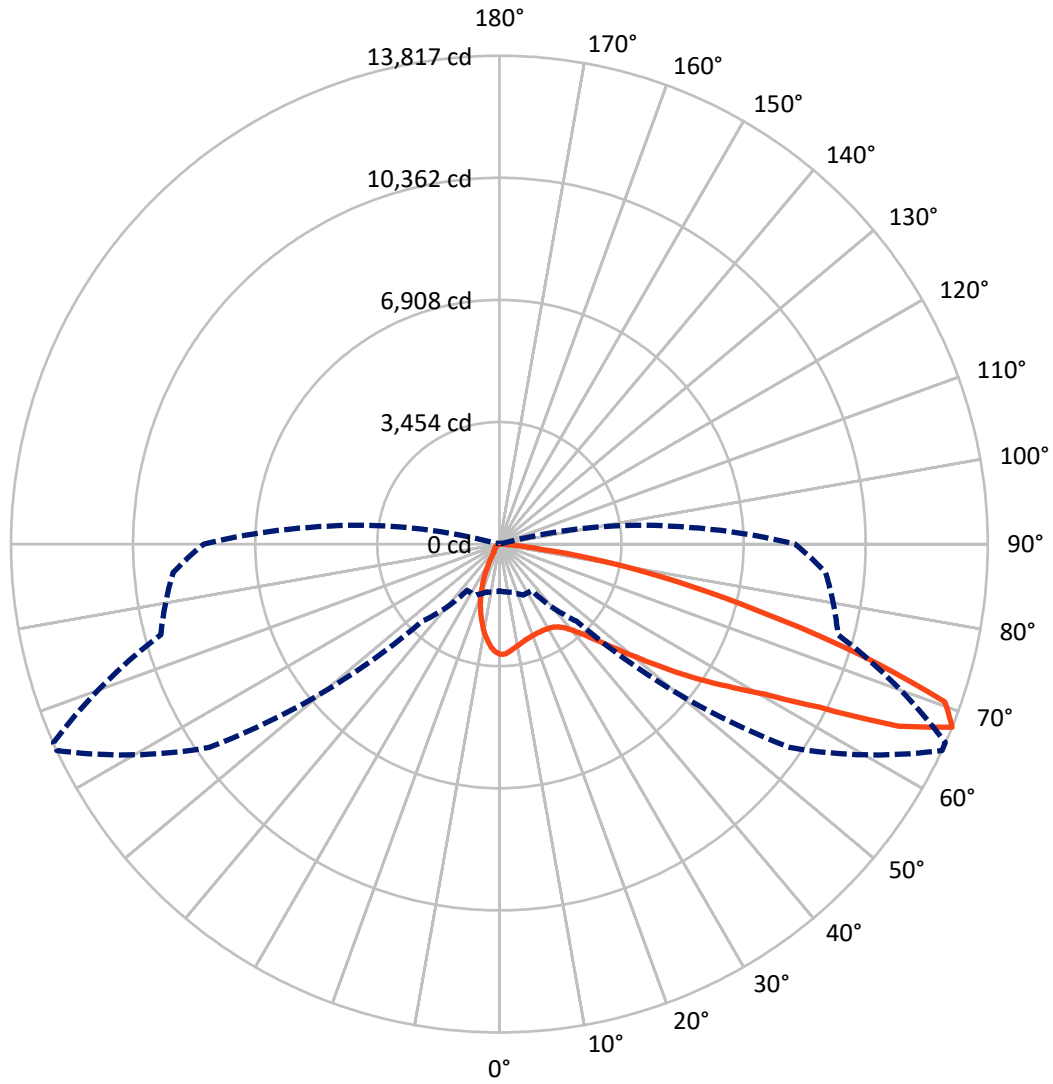
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P633796
CATALOG NUMBER: GWS-SA2F-740-U-SL2-W-HSS

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
House Side	Lumens	1605.8	0.0	1605.8
	% Fixture	12.5	0.0	12.5
Street Side	Lumens	11254.1	0.0	11254.1
	% Fixture	87.5	0.0	87.5
Total	Lumens	12859.9	0.0	12859.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	2.0
10°-20°	582.3	4.5
20°-30°	832.1	6.5
30°-40°	1210.6	9.4
40°-50°	1896.0	14.7
50°-60°	2957.8	23.0
60°-70°	3249.0	25.3
70°-80°	1729.1	13.4
80°-90°	144.0	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°	12859.9	100.0
0°-180°	12859.9	100.0

Coefficient of Utilization



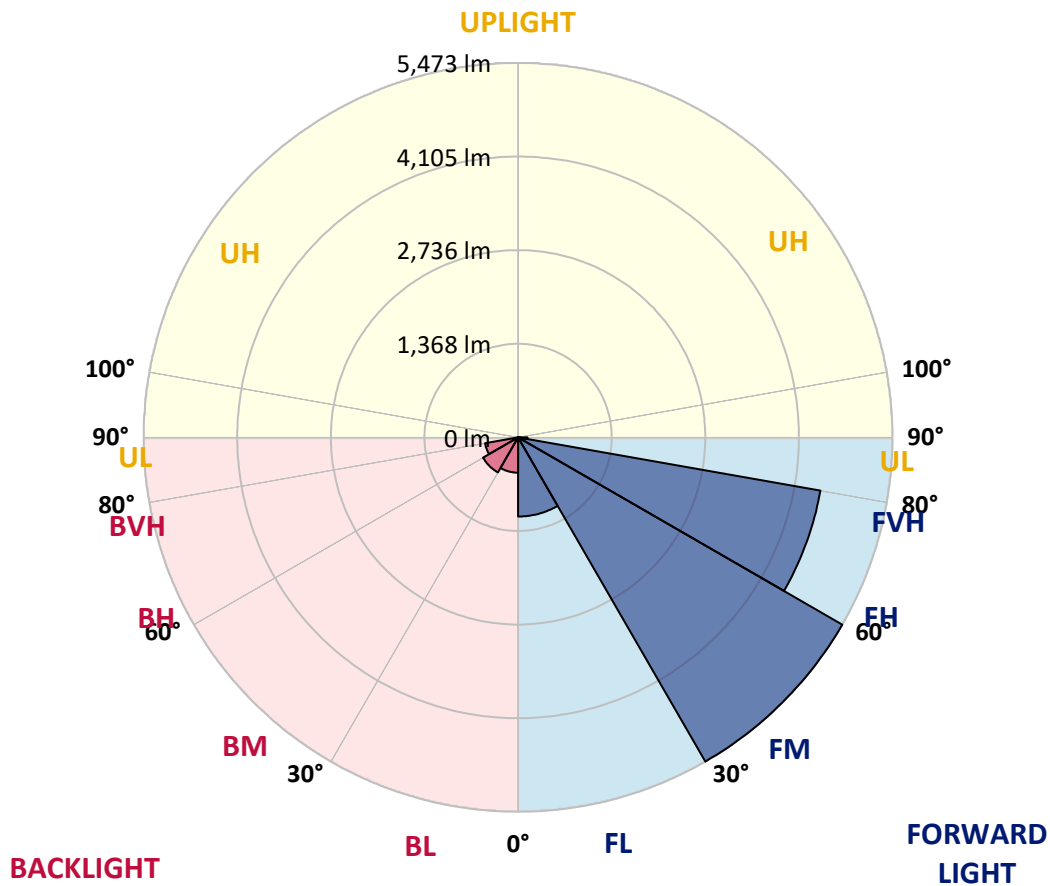
REPORT NUMBER: P633796

CATALOG NUMBER: GWS-SA2F-740-U-SL2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.3	9.0			
FM (30°-60°)	5472.9	42.6			
FH (60°-80°)	4487.6	34.9			G2/5000
FVH (80°-90°)	136.3	1.1			G2/225
BL (0°-30°)	516.1	4.0	B2/1000		
BM (30°-60°)	591.5	4.6	B1/1000		
BH (60°-80°)	490.5	3.8	B1/500		G1/500
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





REPORT NUMBER: P633796

CATALOG NUMBER: GWS-SA2F-740-U-SL2-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9
2.5°	3010.8	3020.1	3007.3	3038.7	3044.5	3079.4	3099.2	3113.1	3112.0	3129.4	3129.4
5°	2834.0	2843.3	2836.3	2870.1	2896.8	2951.5	2996.8	3049.2	3051.5	3105.0	3124.7
7.5°	2684.0	2685.2	2685.2	2727.0	2761.9	2829.4	2896.8	2977.1	2986.4	3068.9	3121.3
10°	2560.7	2564.2	2565.4	2613.1	2651.4	2732.8	2818.9	2915.4	2925.9	3037.5	3118.9
12.5°	2475.8	2477.0	2481.7	2531.7	2573.5	2658.4	2745.6	2856.1	2870.1	3001.5	3108.5
15°	2435.1	2432.8	2435.1	2477.0	2518.9	2600.3	2689.8	2808.4	2823.6	2971.2	3109.6
17.5°	2432.8	2429.3	2427.0	2458.4	2485.1	2557.2	2648.0	2777.0	2793.3	2957.3	3122.4
20°	2466.5	2464.2	2452.6	2466.5	2472.4	2531.7	2621.2	2752.6	2768.9	2955.0	3150.3
22.5°	2554.9	2549.1	2531.7	2518.9	2487.5	2522.4	2602.6	2735.2	2753.8	2960.8	3186.4
25°	2686.3	2684.0	2661.9	2630.5	2550.3	2536.3	2603.8	2735.2	2752.6	2967.8	3224.8
27.5°	2884.0	2870.1	2842.2	2787.5	2672.4	2591.0	2627.0	2742.1	2759.6	2977.1	3256.2
30°	3085.2	3084.0	3074.7	3018.9	2848.0	2695.6	2675.9	2760.8	2777.0	2985.2	3285.2
32.5°	3293.4	3296.9	3320.1	3277.1	3089.9	2851.5	2764.2	2799.1	2810.8	3001.5	3310.8
35°	3491.1	3498.0	3559.7	3574.8	3384.1	3087.5	2908.4	2875.9	2877.0	3037.5	3344.5
37.5°	3680.6	3703.9	3802.7	3876.0	3750.4	3373.6	3116.6	3006.1	2996.8	3109.6	3395.7
40°	3895.8	3939.9	4064.4	4188.8	4149.3	3751.6	3400.4	3206.1	3186.4	3242.2	3487.6
42.5°	4134.2	4181.8	4347.0	4521.4	4540.0	4208.6	3755.0	3498.0	3464.3	3465.5	3659.7
45°	4390.0	4454.0	4645.8	4897.0	5009.8	4717.9	4192.3	3892.3	3858.5	3808.5	3936.5
47.5°	4726.1	4781.9	4966.8	5256.4	5472.7	5264.5	4765.6	4399.3	4337.7	4264.4	4366.7
50°	5015.6	5064.5	5223.8	5586.6	6036.7	5969.2	5415.7	5033.1	4973.8	4849.3	4934.2
52.5°	5079.6	5118.0	5264.5	5672.7	6468.1	6858.9	6212.3	5799.4	5757.6	5527.3	5559.9
55°	4792.4	4850.5	4981.9	5435.5	6580.9	7728.7	7246.1	6663.5	6576.3	6208.8	6266.9
57.5°	4066.7	4170.2	4293.5	4883.1	6275.1	8191.6	8690.4	7578.7	7499.6	6864.7	6865.8
60°	2980.5	3064.3	3146.8	3686.4	5549.4	8160.2	10001.0	8606.7	8462.5	7400.8	7381.0
62.5°	2167.7	2210.7	2209.5	2401.4	3810.9	7622.9	10689.5	10155.7	9819.6	7974.1	7861.3
65°	1704.8	1703.7	1753.7	1816.5	2128.1	5884.3	10774.4	12417.6	12054.7	8742.8	8507.9
67.5°	1326.9	1352.5	1402.5	1587.4	1599.0	3079.4	10027.8	13816.6	13809.6	9916.2	9264.9
70°	1023.4	1058.3	1129.2	1399.0	1476.9	1723.4	7503.1	13373.5	13486.3	10440.6	8728.8
72.5°	657.0	654.7	759.4	1130.4	1418.8	1436.2	4149.3	10623.2	10751.1	9456.8	7057.7
75°	367.5	369.8	429.1	691.9	1322.2	1351.3	2054.9	7575.2	7676.4	7372.9	5422.7
77.5°	144.2	148.9	201.2	364.0	872.2	1207.1	1221.1	5165.7	5180.8	4569.1	3325.9
80°	58.1	61.6	102.3	225.6	531.5	812.9	872.2	3043.3	2981.7	1768.8	967.5
82.5°	17.4	18.6	40.7	127.9	277.9	578.0	588.4	1167.6	1102.4	380.3	246.5
85°	1.2	1.2	9.3	39.5	98.8	145.4	391.9	380.3	337.2	95.4	109.3
87.5°	0.0	0.0	1.2	1.2	2.3	4.7	41.9	69.8	70.9	17.4	48.8
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°	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9	3118.9
2.5°	3129.4	3087.5	3084.0	3051.5	3018.9	2978.2	2930.5	2895.7	2871.2	2828.2	2820.1
5°	3124.7	3068.9	3016.6	2923.6	2820.1	2708.4	2610.7	2520.0	2463.0	2424.7	2408.4
7.5°	3115.4	3044.5	2923.6	2748.0	2574.7	2379.3	2227.0	2087.4	1992.1	1936.2	1911.8
10°	3108.5	3013.1	2816.6	2550.3	2281.6	2011.8	1780.4	1573.4	1458.3	1367.6	1352.5
12.5°	3094.5	2967.8	2679.3	2318.8	1972.3	1614.1	1318.7	1065.2	889.6	810.5	782.6
15°	3080.6	2920.1	2542.1	2074.6	1635.1	1193.1	835.0	590.8	469.8	432.6	430.3
17.5°	3078.2	2877.0	2393.3	1843.2	1281.5	781.5	475.6	382.6	357.0	347.7	347.7
20°	3085.2	2841.0	2246.7	1576.9	933.8	475.6	354.7	331.4	316.3	308.2	308.2
22.5°	3092.2	2803.8	2106.0	1308.3	619.8	347.7	312.8	293.1	275.6	266.3	261.7
25°	3096.8	2763.1	1950.2	1038.5	404.7	302.4	274.4	248.9	227.9	216.3	216.3
27.5°	3095.7	2714.2	1793.2	774.5	314.0	268.6	234.9	208.2	187.2	174.4	175.6
30°	3086.4	2660.7	1630.4	540.8	274.4	234.9	201.2	173.3	152.3	141.9	140.7
32.5°	3079.4	2603.8	1442.0	380.3	246.5	205.8	170.9	144.2	126.8	118.6	117.5
35°	3071.3	2547.9	1262.9	289.6	222.1	177.9	144.2	122.1	108.2	101.2	101.2
37.5°	3073.6	2489.8	1068.7	248.9	197.7	154.7	123.3	104.7	93.0	86.1	84.9
40°	3109.6	2454.9	878.0	225.6	175.6	133.7	107.0	90.7	79.1	72.1	70.9
42.5°	3199.2	2456.1	695.4	208.2	155.8	114.0	93.0	77.9	67.4	59.3	58.1
45°	3378.3	2504.9	533.8	189.6	134.9	98.8	80.2	66.3	55.8	48.8	47.7
47.5°	3671.3	2650.3	404.7	173.3	117.5	86.1	68.6	55.8	46.5	40.7	39.5
50°	4137.6	2913.1	318.6	153.5	98.8	74.4	58.1	46.5	38.4	32.6	31.4
52.5°	4698.2	3307.3	273.3	136.1	84.9	65.1	50.0	38.4	31.4	26.7	25.6
55°	5342.4	3778.3	252.4	118.6	72.1	55.8	40.7	31.4	25.6	22.1	19.8
57.5°	5933.2	4202.8	251.2	101.2	61.6	47.7	33.7	26.7	22.1	17.4	16.3
60°	6508.8	4557.5	236.1	83.7	53.5	39.5	29.1	22.1	18.6	15.1	14.0
62.5°	7031.0	4845.9	197.7	67.4	45.4	32.6	24.4	19.8	16.3	12.8	12.8
65°	7686.9	5213.3	151.2	54.7	37.2	26.7	20.9	17.4	15.1	11.6	11.6
67.5°	8364.8	5407.5	108.2	45.4	30.2	23.3	18.6	16.3	12.8	10.5	10.5
70°	7576.4	4569.1	77.9	37.2	25.6	19.8	16.3	15.1	12.8	10.5	9.3
72.5°	5916.9	3294.5	58.1	29.1	22.1	18.6	15.1	14.0	11.6	9.3	9.3
75°	4387.7	1921.1	44.2	23.3	17.4	15.1	15.1	14.0	11.6	9.3	8.1
77.5°	2385.1	669.8	33.7	18.6	14.0	11.6	12.8	12.8	10.5	8.1	7.0
80°	631.5	183.7	23.3	14.0	11.6	9.3	9.3	11.6	9.3	7.0	7.0
82.5°	183.7	53.5	16.3	11.6	9.3	8.1	8.1	8.1	7.0	5.8	4.7
85°	89.5	19.8	11.6	9.3	8.1	7.0	5.8	5.8	4.7	3.5	3.5
87.5°	39.5	8.1	9.3	8.1	8.1	5.8	4.7	3.5	3.5	2.3	1.2
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)