

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: P633742

Luminaire Tested: GWS-SA2F-735-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15723.3 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

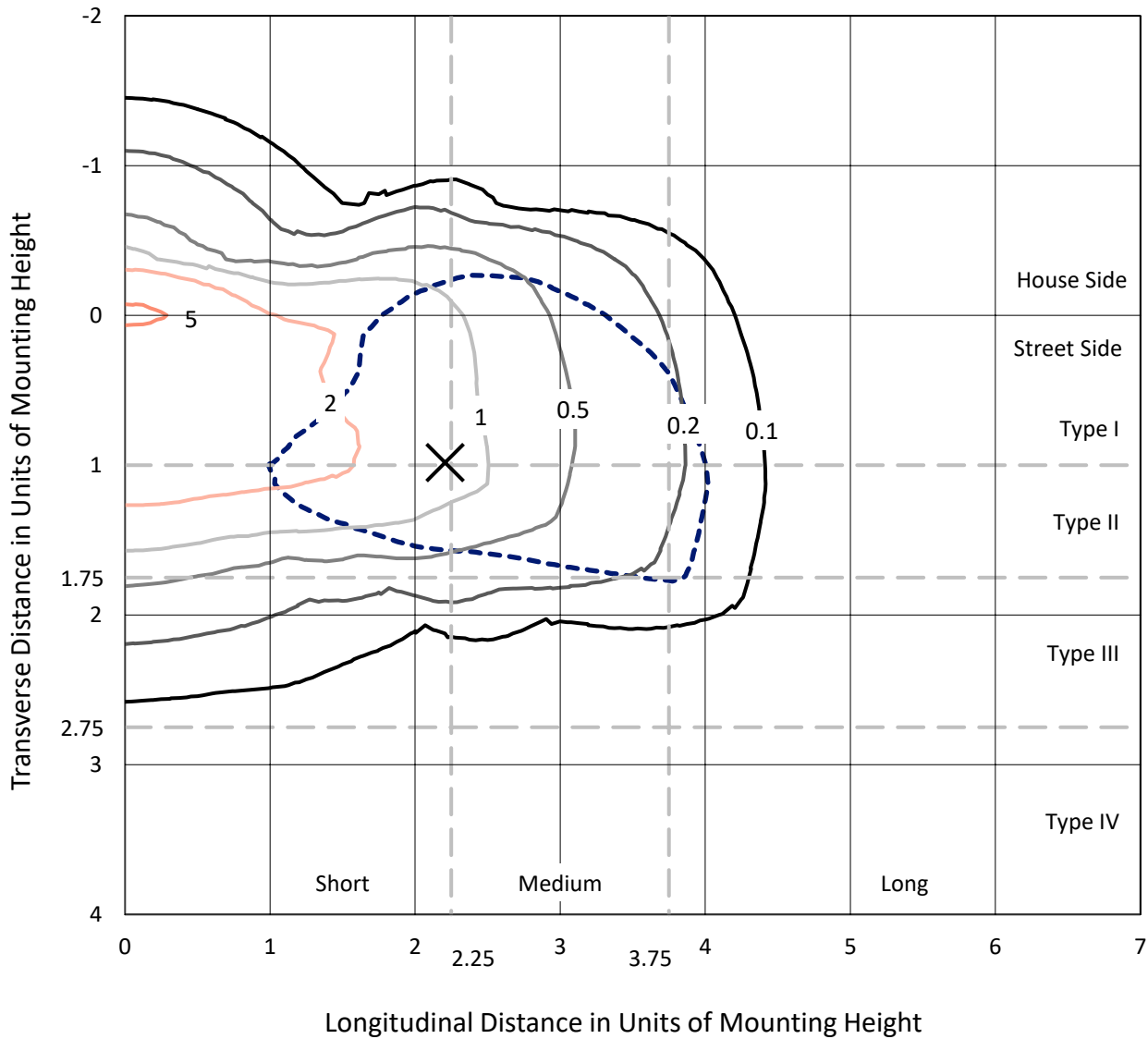
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633742
 CATALOG NUMBER: GWS-SA2F-735-U-SL2-W

Iso-Footcandle Lines of Horizontal Illumination

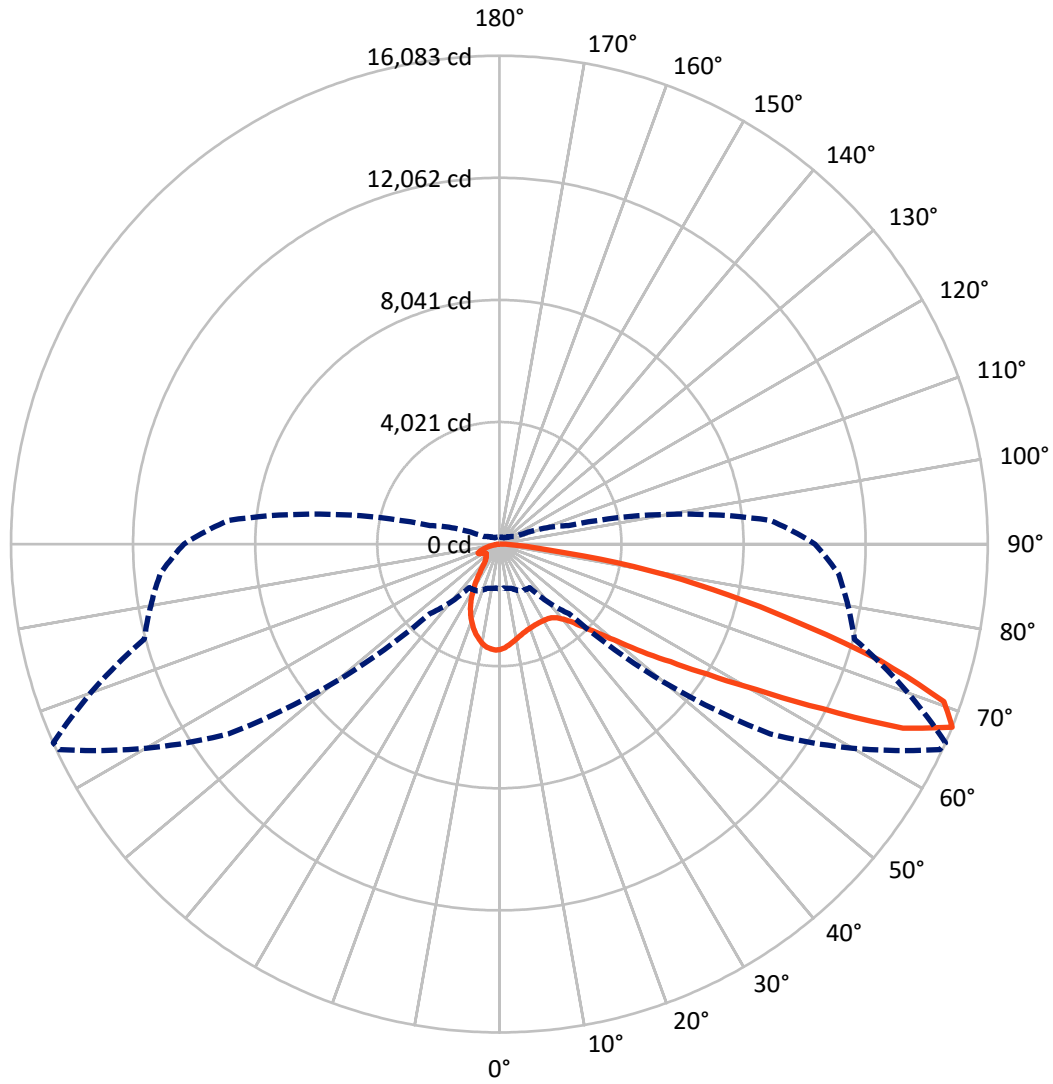
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Short - N/A

REPORT NUMBER: P633742
CATALOG NUMBER: GWS-SA2F-735-U-SL2-W

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3190.6	0.0	3190.6
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	12532.7	0.0	12532.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	15723.3	0.0	15723.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.9	1.9
10°-20°	749.4	4.8
20°-30°	1030.0	6.6
30°-40°	1408.2	9.0
40°-50°	2133.9	13.6
50°-60°	3317.2	21.1
60°-70°	4038.6	25.7
70°-80°	2460.1	15.6
80°-90°	281.0	1.8
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°	15723.3	100.0
0°-180°	15723.3	100.0

Coefficient of Utilization



REPORT NUMBER: P633742

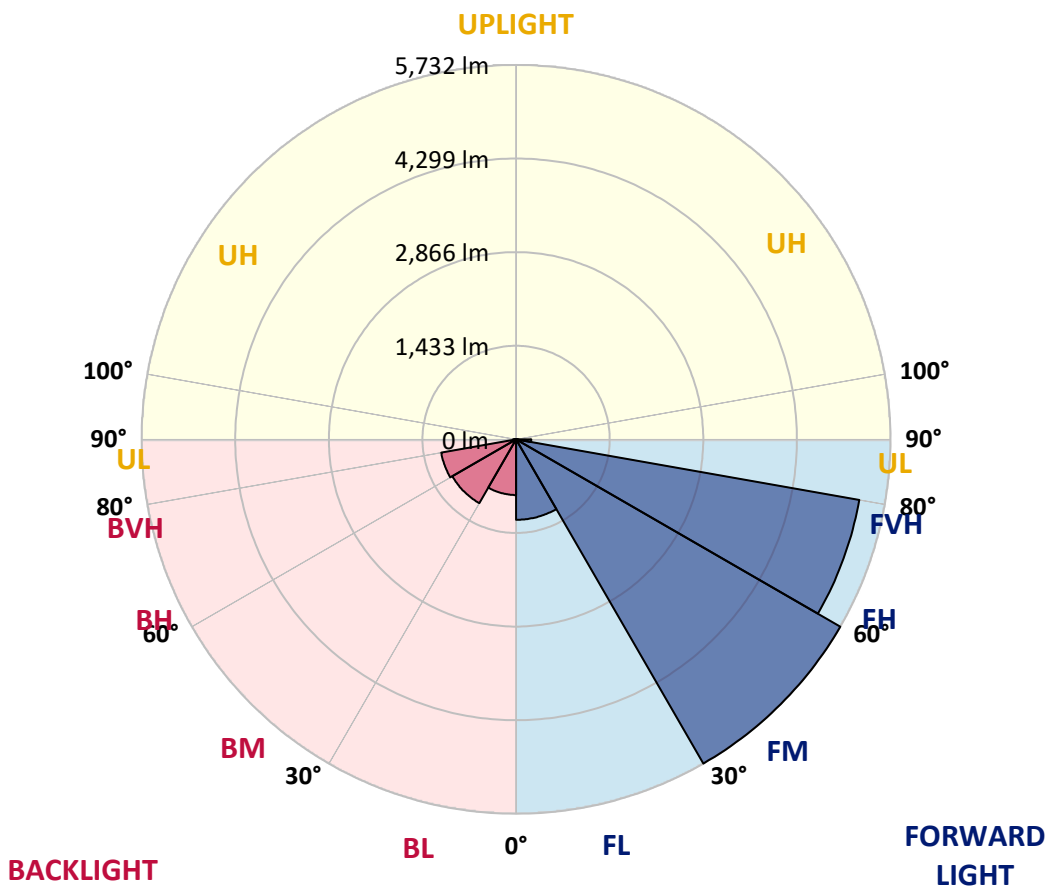
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.0	7.8			
FM (30°-60°)	5731.7	36.5			
FH (60°-80°)	5335.3	33.9			G3/7500
FVH (80°-90°)	233.6	1.5			G3/500
BL (0°-30°)	852.4	5.4	B2/1000		
BM (30°-60°)	1127.5	7.2	B2/2500		
BH (60°-80°)	1163.4	7.4	B3/2500		G3/2500
BVH (80°-90°)	47.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P633742
 CATALOG NUMBER: GWS-SA2F-735-U-SL2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4
2.5°	3254.2	3265.6	3258.8	3302.3	3304.6	3359.7	3390.7	3417.1	3419.3	3453.8	3476.7
5°	3031.6	3038.5	3038.5	3079.8	3107.3	3180.8	3251.9	3327.6	3333.3	3415.9	3479.0
7.5°	2851.6	2858.4	2853.9	2908.9	2944.5	3025.9	3116.5	3232.4	3243.8	3376.9	3487.0
10°	2710.5	2708.2	2719.6	2770.1	2816.0	2913.5	3014.4	3146.3	3163.6	3332.2	3496.2
12.5°	2614.1	2616.4	2623.3	2676.1	2725.4	2821.7	2926.1	3069.5	3087.8	3280.6	3491.6
15°	2568.2	2563.6	2569.4	2617.6	2664.6	2749.5	2857.3	3005.3	3023.6	3234.7	3492.8
17.5°	2557.9	2554.5	2553.3	2587.7	2623.3	2702.4	2805.7	2955.9	2975.4	3204.8	3499.6
20°	2590.0	2585.4	2572.8	2587.7	2602.6	2669.2	2769.0	2920.4	2942.2	3185.3	3513.4
22.5°	2678.4	2670.3	2650.8	2632.5	2613.0	2653.1	2746.0	2894.0	2915.8	3172.7	3527.2
25°	2812.6	2805.7	2785.0	2743.7	2672.6	2665.7	2741.4	2882.5	2904.3	3163.6	3532.9
27.5°	2997.2	2986.9	2966.3	2906.6	2790.8	2712.8	2758.6	2881.4	2902.0	3153.2	3527.2
30°	3216.3	3209.4	3198.0	3125.7	2970.8	2812.6	2797.6	2890.6	2906.6	3147.5	3515.7
32.5°	3438.8	3432.0	3441.1	3406.7	3216.3	2977.7	2882.5	2915.8	2927.3	3146.3	3505.4
35°	3635.0	3643.0	3709.5	3715.3	3528.3	3201.4	3016.7	2974.3	2976.6	3169.3	3510.0
37.5°	3840.3	3871.3	3958.5	4033.0	3877.0	3497.3	3216.3	3084.4	3082.1	3227.8	3538.6
40°	4112.2	4125.9	4237.2	4377.1	4279.6	3903.4	3499.6	3264.5	3248.4	3347.1	3615.5
42.5°	4377.1	4410.4	4588.2	4748.8	4716.7	4361.1	3856.4	3534.0	3505.4	3558.1	3773.8
45°	4714.4	4746.5	4946.1	5152.5	5211.0	4878.4	4312.9	3917.2	3888.5	3875.9	4064.0
47.5°	5051.6	5084.9	5263.8	5562.0	5767.3	5525.3	4907.1	4423.0	4376.0	4326.7	4502.2
50°	5278.7	5317.7	5488.6	5846.5	6328.3	6332.8	5611.3	5086.0	5026.4	4948.4	5119.3
52.5°	5270.7	5295.9	5458.8	5871.7	6732.0	7260.8	6554.2	5930.2	5882.1	5712.3	5861.4
55°	4856.6	4894.4	5058.5	5574.6	6775.6	8140.6	7939.9	6925.9	6839.8	6535.9	6699.9
57.5°	4025.0	4057.1	4222.3	4858.9	6389.0	8591.4	9699.4	8194.5	8076.4	7432.9	7622.1
60°	3038.5	2999.5	3077.5	3635.0	5464.5	8602.8	11252.5	9915.1	9717.8	8391.8	8550.1
62.5°	2280.3	2241.3	2258.5	2415.7	3705.0	7907.7	12138.0	12268.8	11943.0	9474.6	9443.6
65°	1802.0	1780.2	1829.5	1937.4	2159.9	6022.0	12144.9	14814.1	14608.8	10729.5	10360.1
67.5°	1468.2	1454.5	1504.9	1704.5	1751.5	3235.8	10890.1	16002.4	16082.7	12103.6	11210.1
70°	1182.6	1162.0	1241.1	1503.8	1628.8	1958.0	7801.1	15396.8	15526.4	12922.6	10970.3
72.5°	816.7	817.8	858.0	1218.2	1572.6	1690.7	4412.7	12820.5	13101.6	12180.5	9644.4
75°	550.6	555.2	566.6	804.1	1448.7	1640.3	2351.4	9706.3	9904.7	10067.6	7972.0
77.5°	332.6	334.9	361.3	486.3	999.1	1531.3	1593.2	7036.0	7192.0	6636.8	4941.5
80°	192.7	200.7	224.8	325.8	674.5	1150.5	1233.1	4314.0	4490.7	2950.2	1570.3
82.5°	84.9	90.6	122.7	189.3	393.4	978.4	962.4	1704.5	1679.3	822.4	544.8
85°	14.9	18.4	26.4	59.6	144.5	516.2	746.7	752.5	707.7	312.0	226.0
87.5°	0.0	0.0	0.0	0.0	0.0	3.4	112.4	201.9	200.7	88.3	78.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633742
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4	3474.4
2.5°	3491.6	3460.6	3488.2	3491.6	3485.9	3481.3	3446.9	3417.1	3413.6	3381.5	3381.5
5°	3504.2	3475.5	3489.3	3462.9	3421.6	3379.2	3305.8	3255.3	3232.4	3191.1	3191.1
7.5°	3521.4	3491.6	3475.5	3410.2	3313.8	3220.9	3102.8	3004.1	2964.0	2905.5	2903.2
10°	3537.5	3499.6	3444.6	3317.3	3163.6	3015.6	2843.5	2703.6	2608.4	2538.4	2538.4
12.5°	3536.3	3487.0	3378.1	3189.9	2977.7	2763.2	2533.8	2322.8	2196.6	2087.6	2080.7
15°	3534.0	3466.4	3293.2	3042.0	2760.9	2463.9	2151.9	1876.6	1689.6	1582.9	1573.7
17.5°	3531.8	3440.0	3198.0	2873.4	2497.1	2092.2	1680.4	1382.2	1226.2	1160.8	1163.1
20°	3531.8	3410.2	3095.9	2679.5	2193.2	1647.2	1233.1	1016.3	977.3	980.7	984.2
22.5°	3521.4	3373.5	2982.3	2468.4	1854.8	1211.3	909.6	836.2	856.8	889.0	893.5
25°	3497.3	3312.7	2850.4	2234.4	1452.2	882.1	742.1	728.4	766.2	806.4	817.8
27.5°	3459.5	3242.7	2702.4	1960.3	1069.0	708.9	652.7	651.5	681.3	711.2	721.5
30°	3419.3	3164.7	2546.4	1655.2	774.3	617.1	595.3	595.3	610.2	628.6	626.3
32.5°	3372.3	3085.6	2379.0	1337.5	630.9	565.5	558.6	555.2	557.5	564.3	564.3
35°	3332.2	3015.6	2206.9	1001.4	565.5	536.8	529.9	521.9	518.5	513.9	516.2
37.5°	3317.3	2960.5	2029.1	754.8	533.4	516.2	504.7	493.2	485.2	482.9	481.8
40°	3341.3	2937.6	1851.3	621.7	510.4	494.4	481.8	466.8	460.0	460.0	460.0
42.5°	3435.4	2954.8	1670.1	562.1	494.4	476.0	457.7	443.9	441.6	443.9	445.1
45°	3607.5	3021.3	1482.0	532.2	480.6	457.7	435.9	425.6	425.6	427.8	427.8
47.5°	3914.9	3195.7	1296.2	513.9	466.8	442.8	419.8	409.5	408.3	410.6	410.6
50°	4447.1	3510.0	1128.7	501.3	456.5	431.3	408.3	394.6	391.1	390.0	390.0
52.5°	5118.1	4054.8	1022.0	492.1	443.9	418.7	395.7	377.4	370.5	367.1	367.1
55°	5929.1	4780.9	1022.0	485.2	427.8	403.8	377.4	359.0	348.7	344.1	344.1
57.5°	6847.9	5626.3	1198.7	479.5	415.2	386.6	357.9	339.5	328.1	321.2	321.2
60°	7782.7	6519.8	1635.7	471.4	403.8	364.8	336.1	318.9	304.0	295.9	294.8
62.5°	8752.0	7504.0	2211.5	476.0	395.7	344.1	313.1	293.6	281.0	273.0	271.8
65°	9639.8	8441.1	2715.1	511.6	396.9	325.8	286.8	269.6	259.2	248.9	247.8
67.5°	10393.4	8958.4	2361.8	583.8	421.0	304.0	260.4	243.2	234.0	227.1	226.0
70°	9865.7	8169.3	1339.7	628.6	454.2	281.0	230.6	219.1	209.9	205.3	204.2
72.5°	8436.5	6916.7	895.8	555.2	414.1	251.2	203.0	193.9	187.0	181.2	180.1
75°	6834.1	5485.2	684.8	455.4	322.3	204.2	174.4	167.5	160.6	154.9	153.7
77.5°	4043.3	3169.3	504.7	360.2	227.1	159.4	144.5	138.8	131.9	127.3	126.2
80°	1290.4	1101.2	320.0	247.8	150.3	122.7	111.3	106.7	99.8	94.1	92.9
82.5°	492.1	425.6	169.8	126.2	99.8	83.7	74.6	70.0	65.4	59.6	58.5
85°	217.9	204.2	94.1	67.7	53.9	41.3	36.7	34.4	28.7	24.1	22.9
87.5°	76.9	76.9	40.1	19.5	11.5	5.7	3.4	1.1	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)