

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: P633757

Luminaire Tested: GWS-SA2F-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15971 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

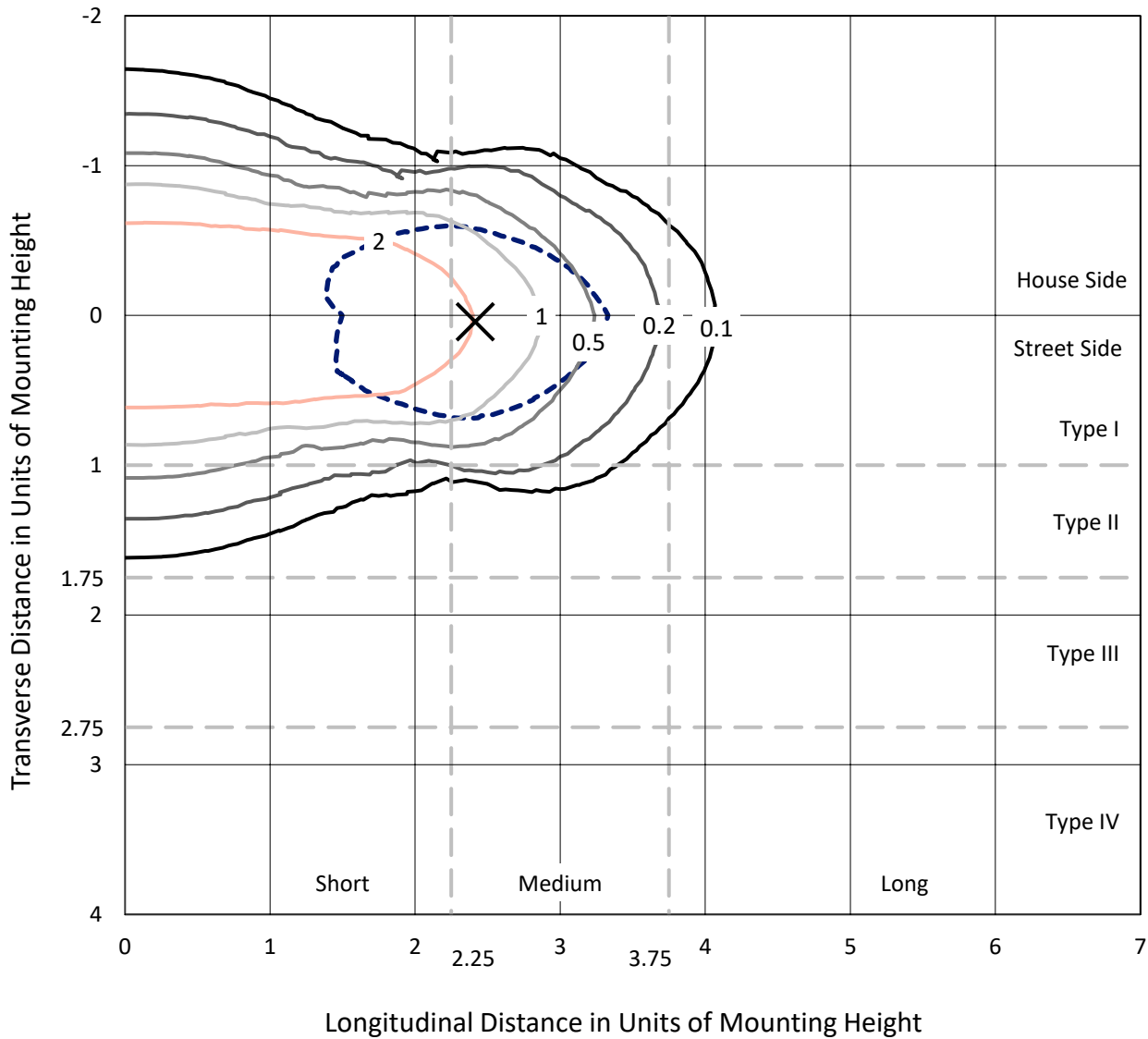
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

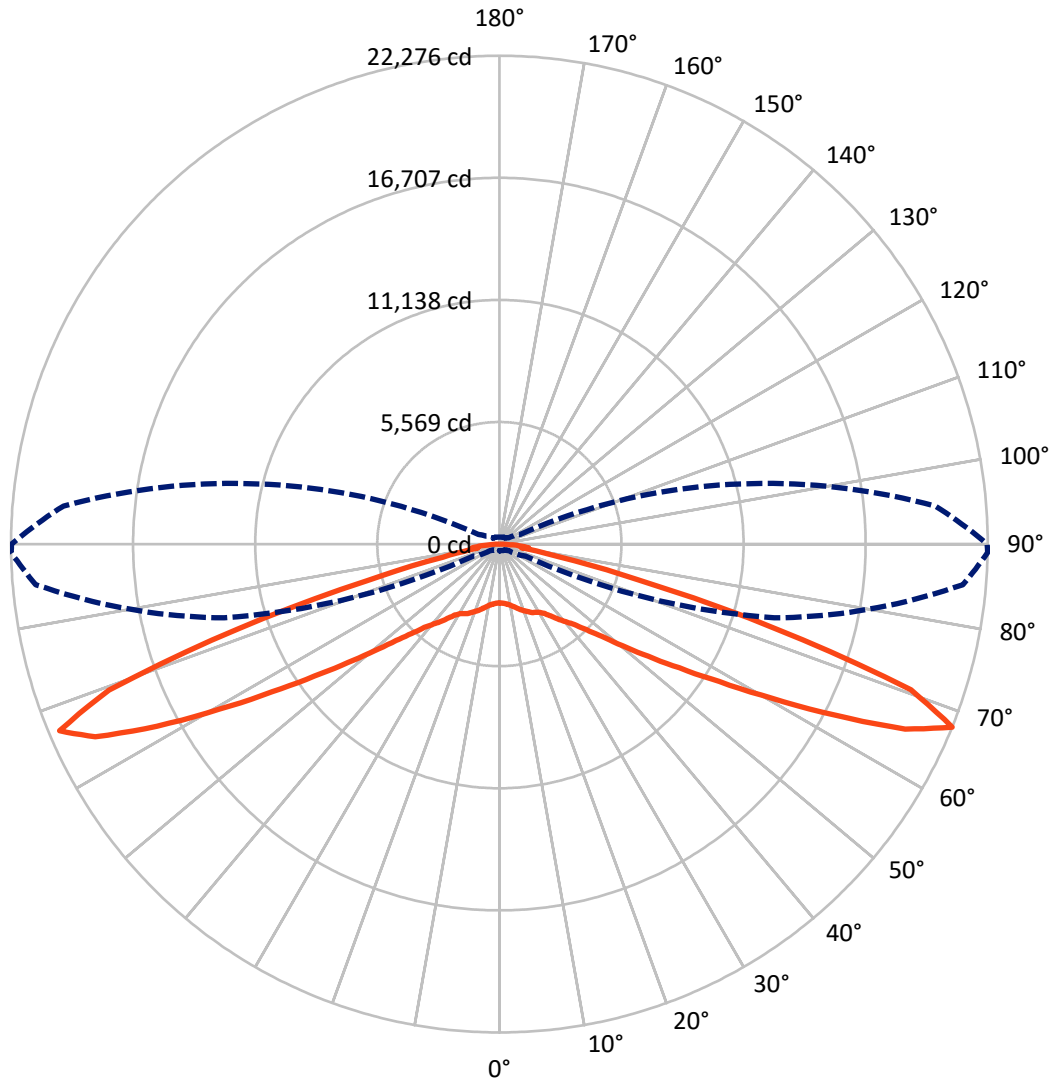
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7915.5	0.0	7915.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8055.5	0.0	8055.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	15971.0	0.0	15971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.9	1.7
10°-20°	875.5	5.5
20°-30°	1480.0	9.3
30°-40°	2031.2	12.7
40°-50°	2590.2	16.2
50°-60°	3249.8	20.3
60°-70°	3919.5	24.5
70°-80°	1418.0	8.9
80°-90°	137.9	0.9
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°	15971.0	100.0
0°-180°	15971.0	100.0

Coefficient of Utilization



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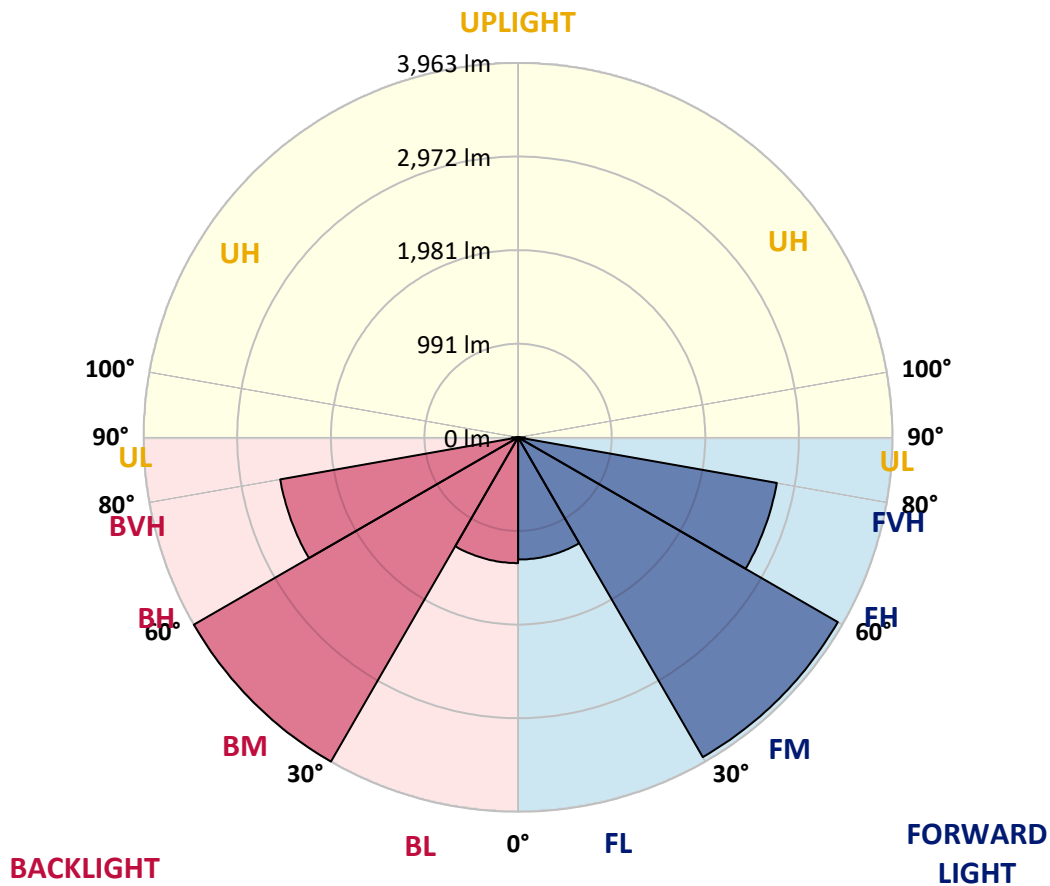
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.5	8.1			
FM (30°-60°)	3908.4	24.5			
FH (60°-80°)	2780.8	17.4			G2/5000
FVH (80°-90°)	72.8	0.5			G1/100
BL (0°-30°)	1330.9	8.3	B3/2500		
BM (30°-60°)	3962.7	24.8	B3/5000		
BH (60°-80°)	2556.7	16.0	B4/5000		G4/5000
BVH (80°-90°)	65.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6
2.5°	2688.6	2686.3	2680.6	2697.8	2694.4	2695.5	2702.4	2697.8	2689.8	2676.0	2695.5
5°	2764.3	2763.2	2750.6	2760.9	2749.4	2741.4	2740.2	2728.8	2719.6	2704.7	2725.3
7.5°	2837.7	2836.6	2826.3	2844.6	2835.5	2826.3	2816.0	2793.0	2771.2	2749.4	2772.4
10°	2894.0	2892.8	2890.5	2916.9	2919.2	2922.6	2918.0	2879.0	2841.2	2814.8	2837.7
12.5°	2926.1	2929.5	2935.2	2983.4	3007.5	3030.4	3036.2	3004.1	2941.0	2903.1	2930.7
15°	2904.3	2911.2	2939.8	3027.0	3093.5	3145.1	3166.9	3140.6	3059.1	2996.0	3027.0
17.5°	2799.9	2805.6	2861.8	2994.9	3141.7	3261.0	3296.6	3280.5	3189.9	3113.0	3142.9
20°	2655.4	2668.0	2728.8	2914.6	3133.7	3341.3	3436.5	3430.8	3332.1	3214.0	3249.5
22.5°	2524.6	2539.5	2603.8	2809.1	3079.8	3361.9	3577.6	3592.5	3461.7	3314.9	3343.6
25°	2377.8	2391.6	2474.1	2684.0	2986.9	3345.9	3698.0	3765.7	3608.5	3430.8	3457.1
27.5°	2227.5	2237.9	2319.3	2543.0	2865.3	3316.1	3793.2	3956.1	3753.1	3511.1	3529.4
30°	2095.6	2109.4	2183.9	2401.9	2732.2	3256.4	3871.2	4159.1	3919.4	3601.7	3616.6
32.5°	1968.3	1979.8	2061.2	2263.1	2591.1	3164.6	3941.2	4397.7	4166.0	3770.3	3770.3
35°	1807.7	1828.4	1920.1	2130.0	2458.1	3043.1	3991.7	4675.3	4503.2	4019.2	4020.3
37.5°	1659.7	1671.2	1767.6	1979.8	2318.1	2905.4	3996.2	4963.2	4929.9	4335.8	4338.1
40°	1491.1	1506.0	1609.3	1819.2	2157.6	2760.9	3952.7	5231.6	5377.3	4661.5	4648.9
42.5°	1320.2	1342.0	1440.7	1646.0	1984.4	2584.3	3836.8	5487.4	5945.0	5038.9	5007.9
45°	1155.1	1168.8	1267.5	1461.3	1785.9	2373.2	3651.0	5732.8	6619.5	5612.4	5567.7
47.5°	969.2	975.0	1077.1	1262.9	1580.6	2138.1	3384.9	5951.9	7360.5	6371.7	6294.9
50°	804.1	812.1	892.4	1051.8	1329.4	1859.3	3053.4	6080.4	8304.5	7407.5	7274.4
52.5°	650.4	658.4	722.6	849.9	1098.9	1541.6	2642.8	6050.6	9262.2	8693.3	8499.5
55°	525.3	531.1	574.7	674.5	864.9	1226.2	2157.6	5783.3	10325.5	10372.6	9955.1
57.5°	443.9	446.2	476.0	536.8	675.6	945.2	1665.5	5152.4	11440.5	12515.2	11829.3
60°	396.9	398.0	411.8	449.6	533.4	721.5	1220.4	4147.7	12595.5	15195.8	14255.3
62.5°	367.0	367.0	378.5	400.3	442.8	555.2	897.0	2978.8	13424.8	18112.7	17177.9
65°	338.4	338.4	346.4	364.8	387.7	453.1	673.3	1921.3	13832.0	20551.3	20343.7
67.5°	301.7	302.8	308.6	328.0	348.7	378.5	510.4	1299.6	12986.6	21225.7	22276.4
70°	267.3	268.4	276.4	289.1	306.3	326.9	399.2	895.8	9452.7	17678.0	19918.1
72.5°	229.4	234.0	239.7	253.5	263.8	278.7	325.8	580.4	5500.0	11371.6	13166.7
75°	188.1	193.8	200.7	214.5	221.4	227.1	268.4	414.1	2646.2	5762.7	6562.1
77.5°	145.7	151.4	159.4	172.1	176.6	183.5	205.3	299.4	1267.5	2554.4	2754.0
80°	97.5	99.8	106.7	121.6	129.6	134.2	151.4	204.2	550.6	1025.4	1016.3
82.5°	59.6	60.8	63.1	72.3	75.7	80.3	98.6	125.0	262.7	1165.4	1336.3
85°	21.8	20.6	19.5	25.2	29.8	34.4	45.9	63.1	114.7	800.6	895.8
87.5°	0.0	0.0	0.0	1.1	2.3	2.3	4.6	9.2	27.5	299.4	205.3
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°	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6	2680.6
2.5°	2689.8	2677.2	2693.2	2704.7	2729.9	2739.1	2741.4	2733.4	2733.4	2719.6	2721.9
5°	2720.7	2712.7	2739.1	2758.6	2795.3	2809.1	2818.2	2812.5	2816.0	2806.8	2809.1
7.5°	2767.8	2760.9	2806.8	2844.6	2882.5	2898.5	2906.6	2902.0	2903.1	2891.7	2895.1
10°	2833.2	2835.5	2890.5	2939.8	2990.3	3006.4	3009.8	2996.0	2984.6	2963.9	2965.1
12.5°	2922.6	2934.1	3012.1	3067.2	3118.8	3141.7	3116.5	3066.0	3019.0	2983.4	2978.8
15°	3020.1	3040.8	3153.2	3223.1	3279.4	3267.9	3193.3	3079.8	2986.9	2934.1	2923.8
17.5°	3137.1	3168.1	3309.2	3392.9	3441.1	3367.7	3211.7	3041.9	2912.3	2841.2	2827.4
20°	3247.2	3296.6	3474.3	3583.3	3589.0	3423.9	3203.6	2965.1	2802.2	2715.0	2696.7
22.5°	3348.2	3411.3	3647.5	3786.3	3711.8	3449.1	3154.3	2856.1	2669.1	2567.0	2551.0
25°	3458.3	3547.8	3849.4	3979.0	3834.5	3438.8	3051.1	2720.7	2508.5	2404.2	2392.7
27.5°	3534.0	3646.4	4052.4	4176.3	3935.5	3380.3	2918.0	2572.8	2361.7	2263.1	2247.0
30°	3621.2	3764.5	4276.1	4390.8	3997.4	3294.3	2775.8	2435.1	2225.2	2118.6	2107.1
32.5°	3779.5	3959.5	4553.7	4617.9	4016.9	3187.6	2639.3	2302.1	2083.0	1976.3	1960.3
35°	4034.1	4245.1	4943.7	4871.4	4002.0	3070.6	2509.7	2146.1	1937.3	1837.5	1821.5
37.5°	4355.3	4617.9	5378.4	5099.7	3960.7	2942.1	2356.0	2015.3	1806.6	1705.6	1696.5
40°	4654.6	4978.1	5865.9	5297.0	3877.0	2783.8	2208.0	1878.8	1665.5	1558.8	1538.2
42.5°	5029.7	5459.9	6430.2	5467.9	3739.3	2594.6	2041.7	1710.2	1488.8	1392.5	1367.3
45°	5599.8	6134.3	7086.3	5631.9	3534.0	2361.7	1833.0	1504.9	1295.0	1196.3	1176.9
47.5°	6310.9	6977.4	7797.5	5729.4	3222.0	2116.3	1596.7	1288.1	1078.2	966.9	957.8
50°	7310.0	8203.5	8560.3	5712.2	2873.3	1824.9	1330.6	1030.0	854.5	774.2	761.6
52.5°	8527.0	9742.9	9385.0	5505.7	2502.8	1493.4	1036.9	808.7	677.9	620.5	610.2
55°	10053.7	11586.1	10253.3	5063.0	2034.8	1143.6	814.4	637.7	548.3	513.9	509.3
57.5°	11944.0	13973.1	11089.5	4317.4	1530.1	872.9	627.4	526.5	484.0	463.4	462.3
60°	14438.8	16506.9	11815.5	3355.1	1095.4	667.6	518.5	470.3	437.0	423.3	422.1
62.5°	17405.0	18807.8	12267.5	2284.9	823.6	532.2	456.5	426.7	407.2	399.2	398.0
65°	20453.8	20262.2	12051.8	1496.9	625.1	451.9	409.5	393.4	376.2	368.2	368.2
67.5°	22254.6	19954.8	10396.7	1039.2	495.5	396.9	369.3	354.4	325.8	318.9	318.9
70°	19711.7	16169.6	6814.5	760.5	401.5	347.5	321.2	300.5	289.1	282.2	281.0
72.5°	13037.1	10521.7	3623.5	527.6	334.9	295.9	271.8	263.8	250.1	243.2	242.0
75°	6488.7	5526.4	1857.0	380.8	278.7	237.4	227.1	223.7	212.2	203.0	200.7
77.5°	2704.7	2460.4	866.0	276.4	212.2	191.6	182.4	182.4	169.8	159.4	154.8
80°	1019.7	908.4	409.5	189.3	157.1	142.2	136.5	131.9	121.6	109.0	102.1
82.5°	1363.8	891.2	200.7	118.1	103.2	91.8	83.7	80.3	74.6	68.8	64.2
85°	883.2	633.2	90.6	60.8	51.6	39.0	34.4	32.1	28.7	25.2	22.9
87.5°	180.1	212.2	27.5	11.5	6.9	3.4	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)