

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: P633812

Luminaire Tested: GWS-SA2F-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633812
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-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16192.9 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

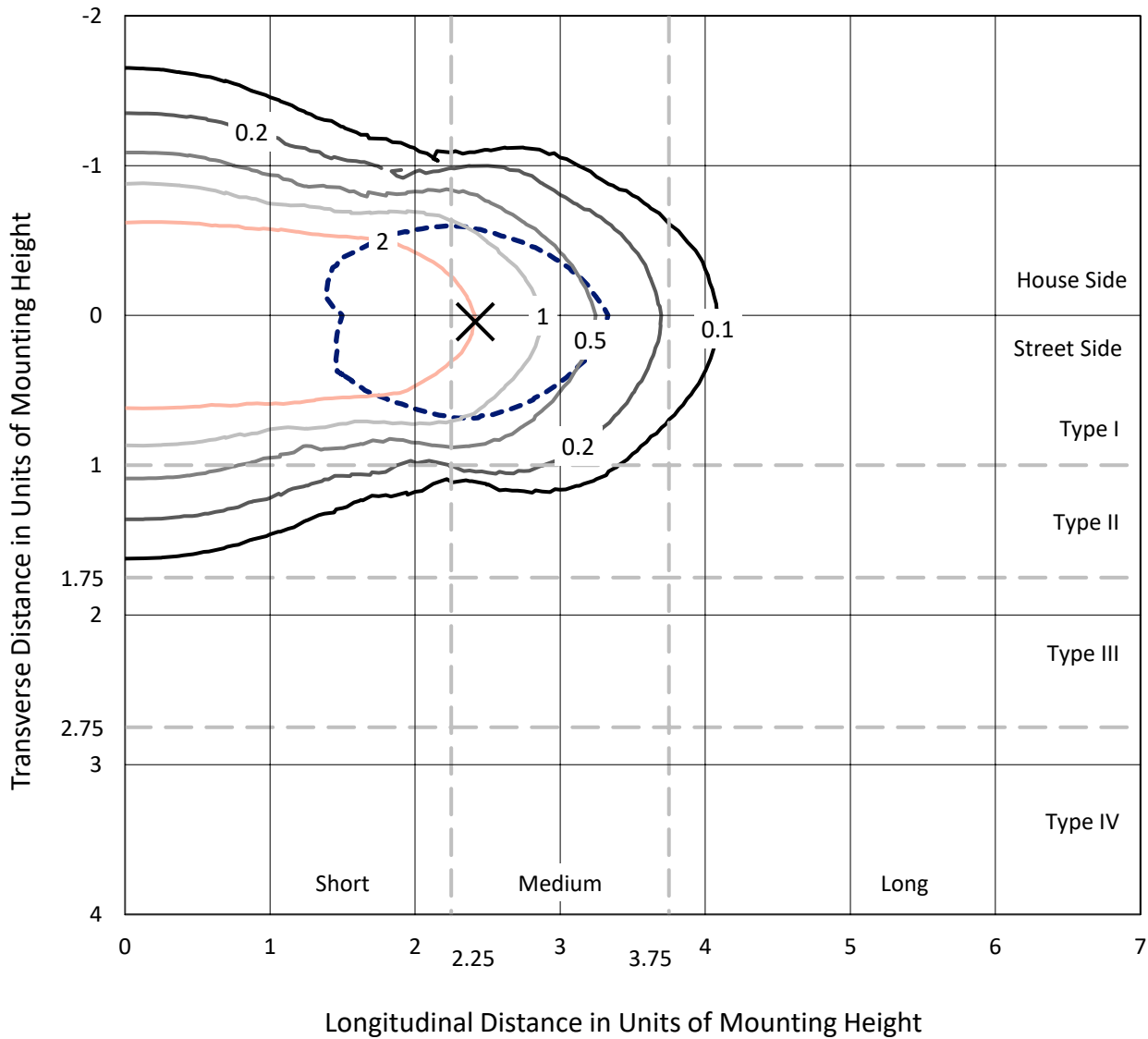
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

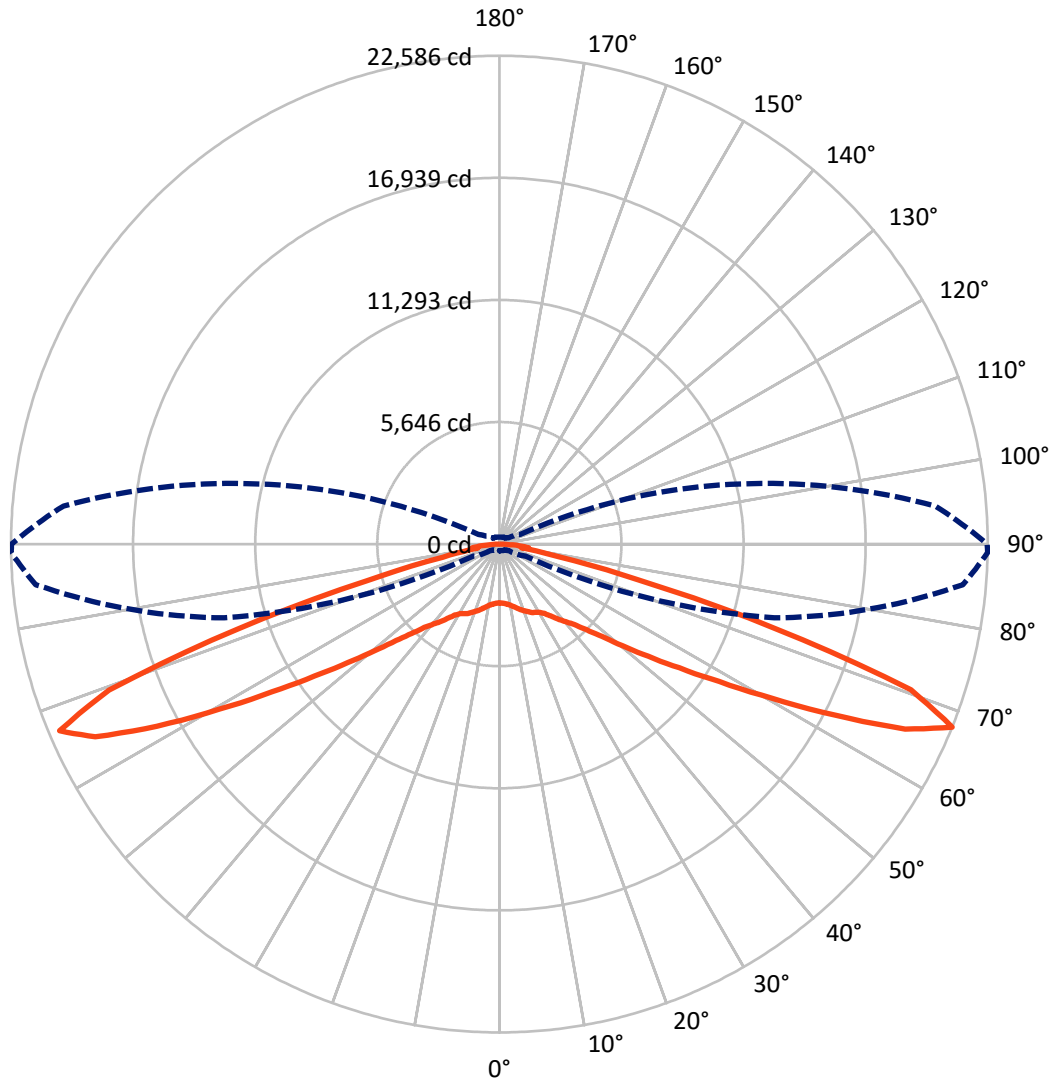
✕ Max cd
 - - - 1/2 Max cd



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	8025.5	0.0	8025.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8167.4	0.0	8167.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	16192.9	0.0	16192.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.6	1.7
10°-20°	887.7	5.5
20°-30°	1500.6	9.3
30°-40°	2059.4	12.7
40°-50°	2626.2	16.2
50°-60°	3294.9	20.3
60°-70°	3974.0	24.5
70°-80°	1437.7	8.9
80°-90°	139.8	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°	16192.9	100.0
0°-180°	16192.9	100.0

Coefficient of Utilization



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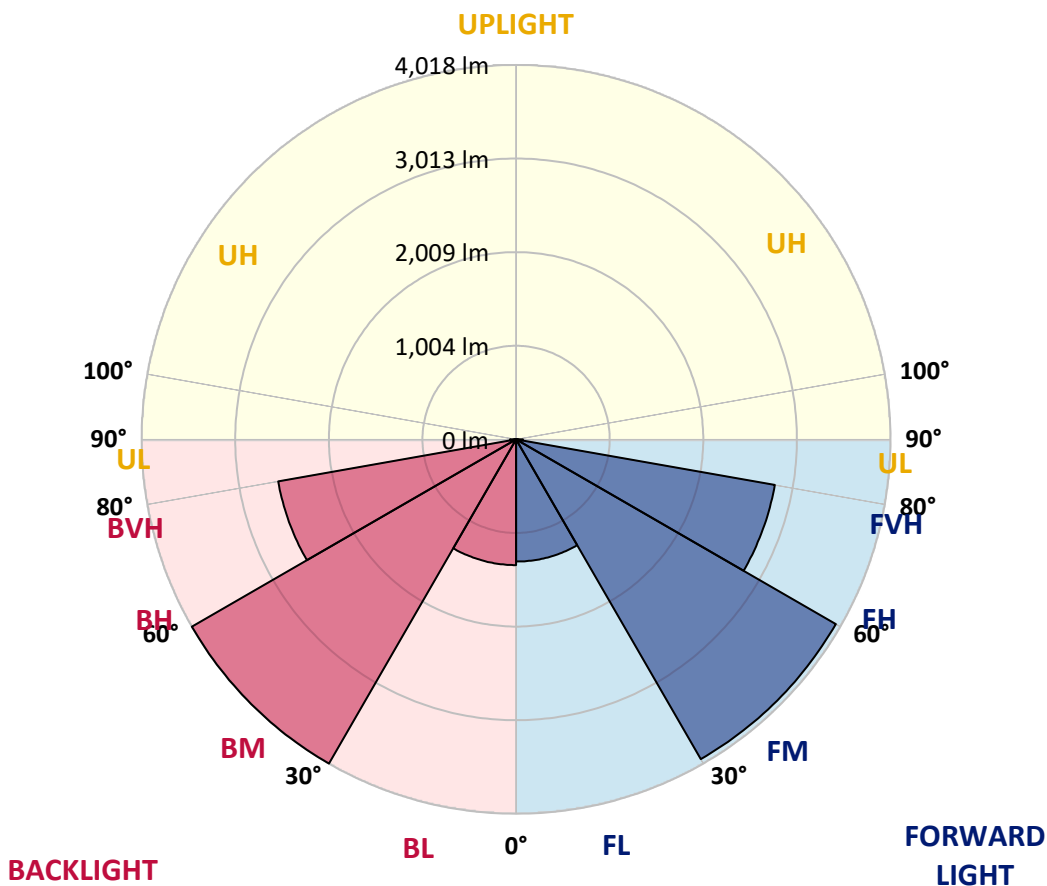
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1311.5	8.1			
FM (30°-60°)	3962.7	24.5			
FH (60°-80°)	2819.4	17.4			G2/5000
FVH (80°-90°)	73.8	0.5			G1/100
BL (0°-30°)	1349.4	8.3	B3/2500		
BM (30°-60°)	4017.8	24.8	B3/5000		
BH (60°-80°)	2592.2	16.0	B4/5000		G4/5000
BVH (80°-90°)	66.0	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°	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8
2.5°	2726.0	2723.7	2717.8	2735.3	2731.8	2733.0	2739.9	2735.3	2727.2	2713.2	2733.0
5°	2802.7	2801.6	2788.8	2799.3	2787.6	2779.5	2778.3	2766.7	2757.4	2742.3	2763.2
7.5°	2877.2	2876.0	2865.5	2884.2	2874.8	2865.5	2855.1	2831.8	2809.7	2787.6	2810.9
10°	2934.2	2933.0	2930.7	2957.4	2959.7	2963.2	2958.6	2919.0	2880.7	2853.9	2877.2
12.5°	2966.7	2970.2	2976.0	3024.9	3049.3	3072.6	3078.4	3045.8	2981.8	2943.5	2971.4
15°	2944.6	2951.6	2980.7	3069.1	3136.5	3188.8	3210.9	3184.2	3101.6	3037.7	3069.1
17.5°	2838.8	2844.6	2901.6	3036.5	3185.4	3306.3	3342.4	3326.1	3234.2	3156.3	3186.5
20°	2692.3	2705.1	2766.7	2955.1	3177.2	3387.7	3484.2	3478.4	3378.4	3258.6	3294.7
22.5°	2559.7	2574.8	2639.9	2848.1	3122.6	3408.6	3627.3	3642.4	3509.8	3361.0	3390.0
25°	2410.8	2424.8	2508.5	2721.3	3028.4	3392.4	3749.4	3818.0	3658.7	3478.4	3505.2
27.5°	2258.5	2268.9	2351.5	2578.3	2905.1	3362.1	3845.9	4011.1	3805.2	3559.8	3578.4
30°	2124.7	2138.7	2214.3	2435.2	2770.2	3301.7	3925.0	4216.9	3973.8	3651.7	3666.8
32.5°	1995.6	2007.3	2089.8	2294.5	2627.1	3208.6	3995.9	4458.8	4223.9	3822.7	3822.7
35°	1832.8	1853.8	1946.8	2159.6	2492.2	3085.3	4047.1	4740.2	4565.8	4075.0	4076.2
37.5°	1682.8	1694.4	1792.1	2007.3	2350.4	2945.8	4051.8	5032.1	4998.4	4396.0	4398.3
40°	1511.9	1527.0	1631.6	1844.5	2187.5	2799.3	4007.6	5304.3	5452.0	4726.3	4713.5
42.5°	1338.6	1360.7	1460.7	1668.9	2011.9	2620.2	3890.1	5563.6	6027.6	5108.9	5077.5
45°	1171.1	1185.1	1285.1	1481.6	1810.7	2406.2	3701.7	5812.5	6711.5	5690.4	5645.0
47.5°	982.7	988.5	1092.0	1280.4	1602.6	2167.8	3431.9	6034.6	7462.7	6460.3	6382.3
50°	815.2	823.4	904.8	1066.4	1347.9	1885.2	3095.8	6164.9	8419.9	7510.4	7375.5
52.5°	659.4	667.5	732.7	861.8	1114.1	1563.0	2679.5	6134.6	9390.9	8814.1	8617.6
55°	532.6	538.5	582.6	683.8	876.9	1243.2	2187.5	5863.7	10469.0	10516.7	10093.4
57.5°	450.1	452.4	482.6	544.3	685.0	958.3	1688.6	5224.0	11599.4	12689.1	11993.7
60°	402.4	403.5	417.5	455.9	540.8	731.5	1237.4	4205.3	12770.5	15407.0	14453.3
62.5°	372.1	372.1	383.8	405.9	448.9	562.9	909.4	3020.2	13611.3	18364.4	17416.6
65°	343.1	343.1	351.2	369.8	393.1	459.4	682.7	1948.0	14024.2	20836.8	20626.3
67.5°	305.9	307.0	312.8	332.6	353.5	383.8	517.5	1317.6	13167.1	21520.7	22585.9
70°	271.0	272.1	280.3	293.1	310.5	331.4	404.7	908.3	9584.0	17923.6	20194.9
72.5°	232.6	237.2	243.1	257.0	267.5	282.6	330.3	588.5	5576.4	11529.6	13349.7
75°	190.7	196.5	203.5	217.5	224.5	230.3	272.1	419.8	2683.0	5842.7	6653.3
77.5°	147.7	153.5	161.7	174.4	179.1	186.1	208.2	303.5	1285.1	2589.9	2792.3
80°	98.9	101.2	108.2	123.3	131.4	136.1	153.5	207.0	558.2	1039.7	1030.4
82.5°	60.5	61.6	64.0	73.3	76.8	81.4	100.0	126.8	266.3	1181.6	1354.9
85°	22.1	20.9	19.8	25.6	30.2	34.9	46.5	64.0	116.3	811.7	908.3
87.5°	0.0	0.0	0.0	1.2	2.3	2.3	4.7	9.3	27.9	303.5	208.2
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°	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8	2717.8
2.5°	2727.2	2714.4	2730.6	2742.3	2767.9	2777.2	2779.5	2771.3	2771.3	2757.4	2759.7
5°	2758.6	2750.4	2777.2	2796.9	2834.1	2848.1	2857.4	2851.6	2855.1	2845.8	2848.1
7.5°	2806.2	2799.3	2845.8	2884.2	2922.5	2938.8	2947.0	2942.3	2943.5	2931.8	2935.3
10°	2872.5	2874.8	2930.7	2980.7	3031.8	3048.1	3051.6	3037.7	3026.0	3005.1	3006.3
12.5°	2963.2	2974.9	3053.9	3109.8	3162.1	3185.4	3159.8	3108.6	3060.9	3024.9	3020.2
15°	3062.1	3083.0	3197.0	3267.9	3324.9	3313.3	3237.7	3122.6	3028.4	2974.9	2964.4
17.5°	3180.7	3212.1	3355.2	3440.0	3488.9	3414.5	3256.3	3084.2	2952.8	2880.7	2866.7
20°	3292.4	3342.4	3522.6	3633.1	3638.9	3471.4	3248.2	3006.3	2841.1	2752.7	2734.1
22.5°	3394.7	3458.7	3698.2	3838.9	3763.4	3497.0	3198.2	2895.8	2706.2	2602.7	2586.4
25°	3506.3	3597.0	3902.9	4034.3	3887.8	3486.6	3093.5	2758.6	2543.4	2437.6	2425.9
27.5°	3583.1	3697.1	4108.8	4234.4	3990.1	3427.3	2958.6	2608.5	2394.5	2294.5	2278.2
30°	3671.5	3816.8	4335.5	4451.8	4052.9	3340.0	2814.4	2469.0	2256.2	2148.0	2136.4
32.5°	3832.0	4014.6	4617.0	4682.1	4072.7	3231.9	2676.0	2334.1	2111.9	2003.8	1987.5
35°	4090.1	4304.1	5012.4	4939.1	4057.6	3113.3	2544.6	2175.9	1964.2	1863.1	1846.8
37.5°	4415.8	4682.1	5453.1	5170.5	4015.7	2983.0	2388.7	2043.3	1831.7	1729.3	1720.0
40°	4719.3	5047.3	5947.4	5370.6	3930.8	2822.5	2238.7	1904.9	1688.6	1580.5	1559.5
42.5°	5099.6	5535.7	6519.6	5543.9	3791.3	2630.6	2070.1	1734.0	1509.5	1411.8	1386.3
45°	5677.6	6219.5	7184.8	5710.2	3583.1	2394.5	1858.4	1525.8	1313.0	1213.0	1193.2
47.5°	6398.6	7074.3	7905.8	5809.0	3266.8	2145.7	1618.8	1306.0	1093.2	980.4	971.1
50°	7411.6	8317.5	8679.2	5791.6	2913.2	1850.3	1349.0	1044.3	866.4	785.0	772.2
52.5°	8645.5	9878.2	9515.4	5582.2	2537.6	1514.2	1051.3	819.9	687.3	629.2	618.7
55°	10193.4	11747.1	10395.7	5133.3	2063.1	1159.5	825.7	646.6	555.9	521.0	516.4
57.5°	12109.9	14167.2	11243.5	4377.4	1551.4	885.0	636.1	533.8	490.8	469.8	468.7
60°	14639.4	16736.2	11979.7	3401.7	1110.6	676.8	525.7	476.8	443.1	429.1	428.0
62.5°	17646.8	19069.1	12437.9	2316.6	835.0	539.6	462.9	432.6	412.9	404.7	403.5
65°	20738.0	20543.8	12219.3	1517.7	633.8	458.2	415.2	398.9	381.5	373.3	373.3
67.5°	22563.8	20232.1	10541.1	1053.6	502.4	402.4	374.5	359.4	330.3	323.3	323.3
70°	19985.5	16394.3	6909.2	771.0	407.0	352.4	325.6	304.7	293.1	286.1	284.9
72.5°	13218.3	10667.9	3673.8	535.0	339.6	300.0	275.6	267.5	253.5	246.5	245.4
75°	6578.9	5603.2	1882.8	386.1	282.6	240.7	230.3	226.8	215.1	205.8	203.5
77.5°	2742.3	2494.6	878.0	280.3	215.1	194.2	184.9	184.9	172.1	161.7	157.0
80°	1033.9	921.1	415.2	191.9	159.3	144.2	138.4	133.7	123.3	110.5	103.5
82.5°	1382.8	903.6	203.5	119.8	104.7	93.0	84.9	81.4	75.6	69.8	65.1
85°	895.5	642.0	91.9	61.6	52.3	39.5	34.9	32.6	29.1	25.6	23.3
87.5°	182.6	215.1	27.9	11.6	7.0	3.5	3.5	1.2	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)