

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: P641952

Luminaire Tested: GWS-SA6B-830-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641952
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-SA6B-830-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16788.5 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

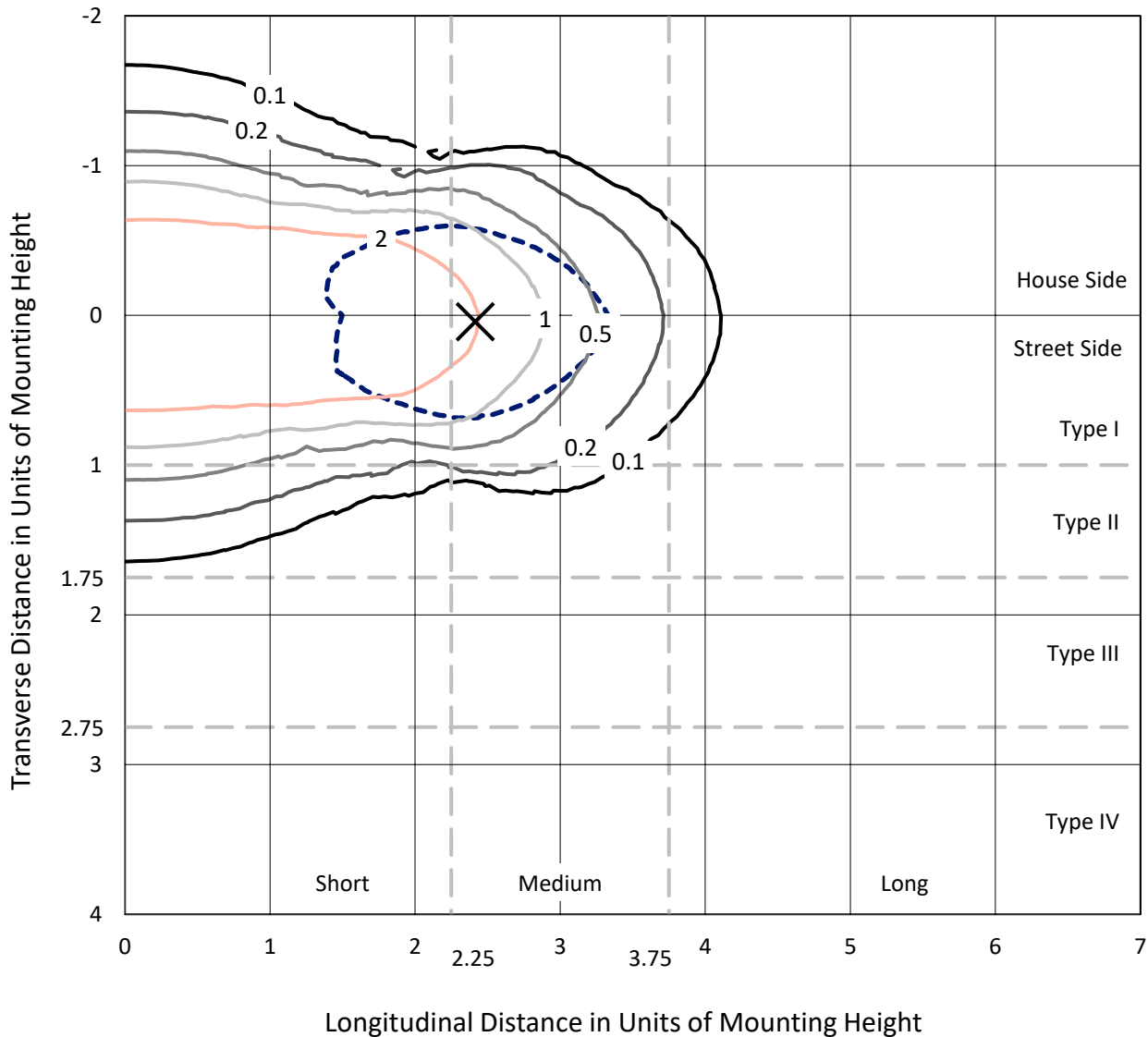
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

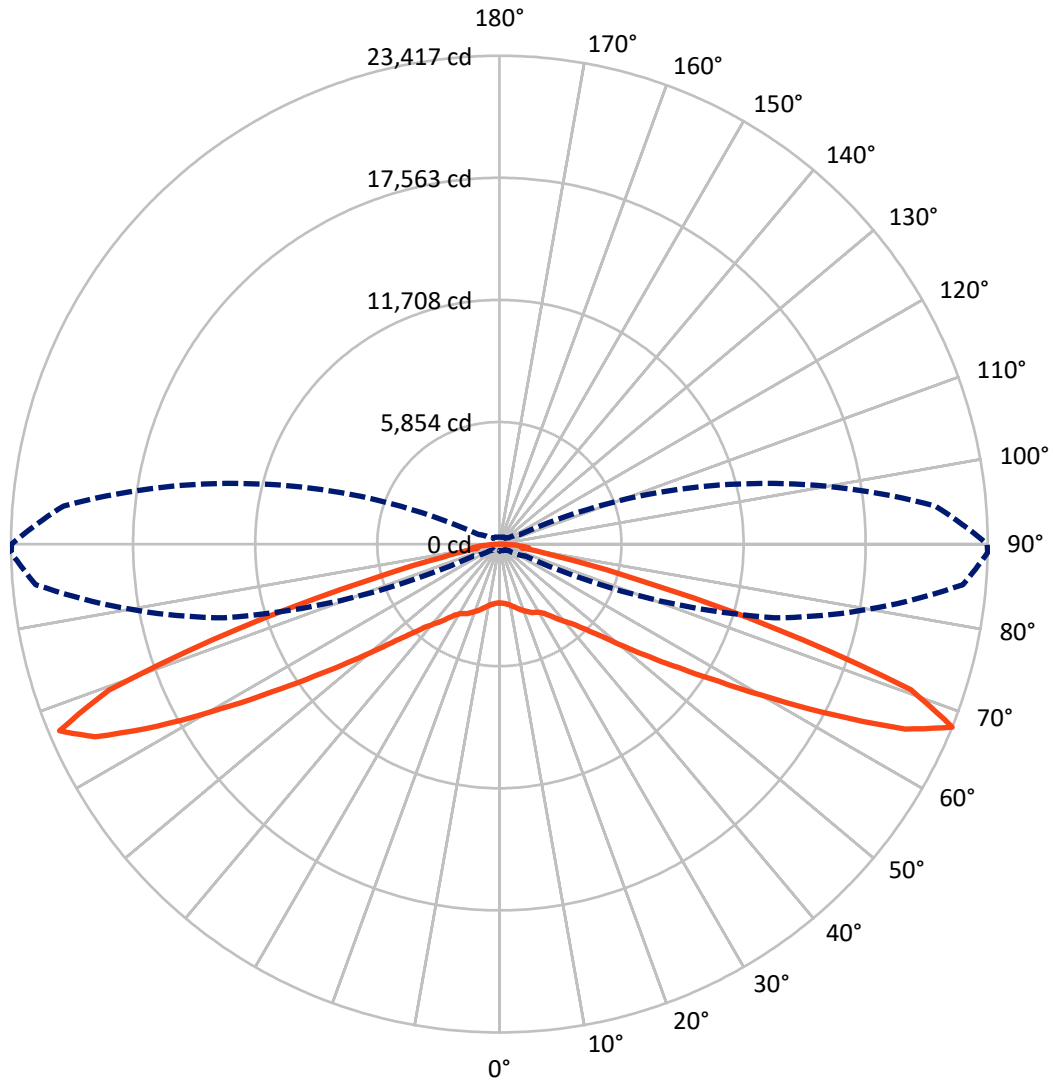
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	8320.7	0.0	8320.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8467.8	0.0	8467.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	16788.5	0.0	16788.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.6	1.7
10°-20°	920.3	5.5
20°-30°	1555.8	9.3
30°-40°	2135.1	12.7
40°-50°	2722.8	16.2
50°-60°	3416.1	20.3
60°-70°	4120.1	24.5
70°-80°	1490.5	8.9
80°-90°	144.9	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°	16788.5	100.0
0°-180°	16788.5	100.0

Coefficient of Utilization



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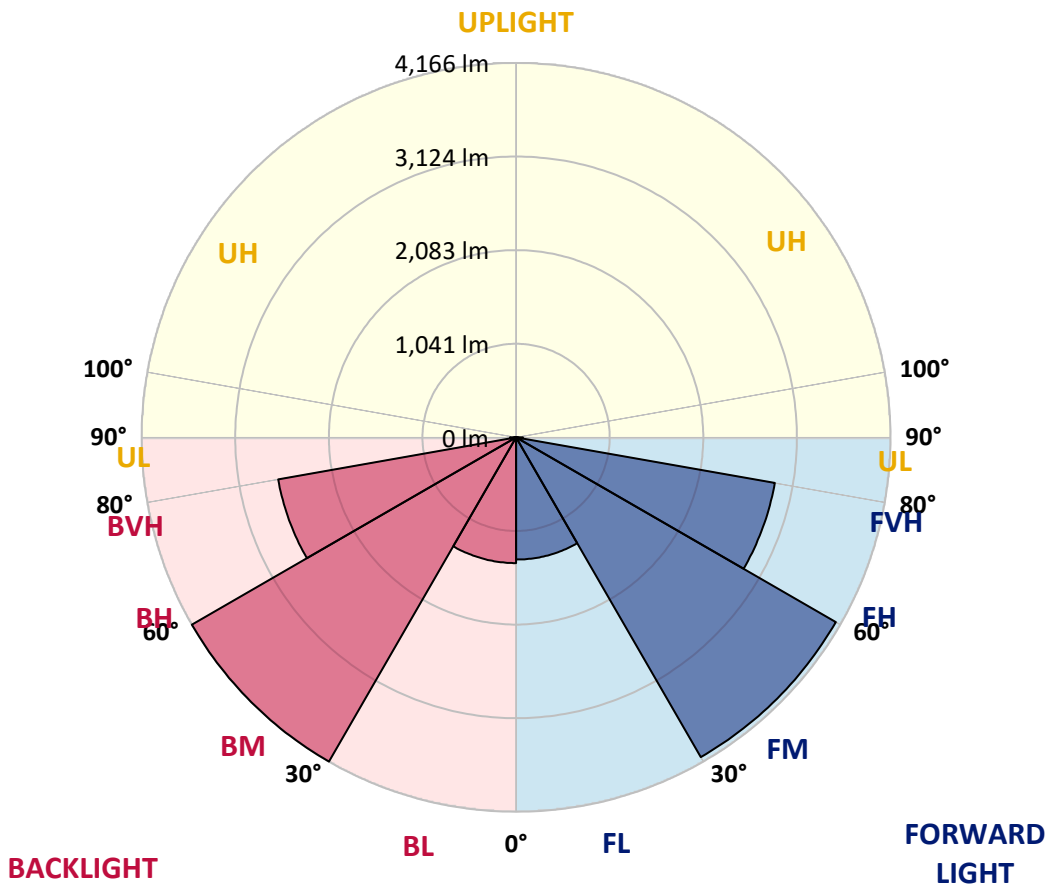
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.7	8.1			
FM (30°-60°)	4108.5	24.5			
FH (60°-80°)	2923.1	17.4			G2/5000
FVH (80°-90°)	76.5	0.5			G1/100
BL (0°-30°)	1399.1	8.3	B3/2500		
BM (30°-60°)	4165.6	24.8	B3/5000		
BH (60°-80°)	2687.6	16.0	B4/5000		G4/5000
BVH (80°-90°)	68.5	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°	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8
2.5°	2826.3	2823.8	2817.8	2835.9	2832.3	2833.5	2840.7	2835.9	2827.5	2813.0	2833.5
5°	2905.8	2904.6	2891.4	2902.2	2890.2	2881.7	2880.5	2868.5	2858.8	2843.1	2864.8
7.5°	2983.0	2981.8	2970.9	2990.2	2980.6	2970.9	2960.1	2936.0	2913.1	2890.2	2914.3
10°	3042.1	3040.9	3038.5	3066.2	3068.6	3072.2	3067.4	3026.4	2986.6	2958.9	2983.0
12.5°	3075.8	3079.5	3085.5	3136.1	3161.5	3185.6	3191.6	3157.8	3091.5	3051.7	3080.7
15°	3052.9	3060.2	3090.3	3181.9	3251.9	3306.1	3329.0	3301.3	3215.7	3149.4	3181.9
17.5°	2943.2	2949.2	3008.3	3148.2	3302.5	3427.9	3465.3	3448.4	3353.2	3272.4	3303.7
20°	2791.3	2804.6	2868.5	3063.8	3294.1	3512.3	3612.4	3606.4	3502.7	3378.5	3415.9
22.5°	2653.8	2669.5	2737.0	2952.9	3237.4	3534.0	3760.7	3776.4	3638.9	3484.6	3514.7
25°	2499.5	2514.0	2600.8	2821.4	3139.7	3517.1	3887.3	3958.4	3793.3	3606.4	3634.1
27.5°	2341.5	2352.4	2438.0	2673.1	3011.9	3485.8	3987.4	4158.6	3945.2	3690.8	3710.1
30°	2202.9	2217.4	2295.7	2524.8	2872.1	3423.1	4069.4	4372.0	4120.0	3786.0	3801.7
32.5°	2069.0	2081.1	2166.7	2378.9	2723.8	3326.6	4142.9	4622.8	4379.2	3963.3	3963.3
35°	1900.2	1921.9	2018.4	2239.1	2583.9	3198.8	4196.0	4914.6	4733.7	4224.9	4226.1
37.5°	1744.7	1756.8	1858.0	2081.1	2436.8	3054.1	4200.8	5217.2	5182.3	4557.7	4560.1
40°	1567.5	1583.1	1691.7	1912.3	2268.0	2902.2	4155.0	5499.4	5652.5	4900.1	4886.9
42.5°	1387.8	1410.7	1514.4	1730.2	2085.9	2716.5	4033.2	5768.3	6249.4	5296.8	5264.3
45°	1214.2	1228.6	1332.3	1536.1	1877.3	2494.7	3837.9	6026.3	6958.3	5899.7	5852.7
47.5°	1018.9	1024.9	1132.2	1327.5	1661.5	2247.5	3558.1	6256.6	7737.2	6697.9	6617.1
50°	845.2	853.7	938.1	1105.7	1397.5	1954.5	3209.7	6391.6	8729.6	7786.7	7646.8
52.5°	683.7	692.1	759.6	893.5	1155.1	1620.5	2778.0	6360.3	9736.4	9138.3	8934.5
55°	552.2	558.3	604.1	709.0	909.1	1288.9	2268.0	6079.3	10854.1	10903.5	10464.6
57.5°	466.6	469.0	500.4	564.3	710.2	993.5	1750.7	5416.2	12026.1	13155.8	12434.8
60°	417.2	418.4	432.9	472.7	560.7	758.4	1282.9	4360.0	13240.2	15973.6	14984.9
62.5°	385.8	385.8	397.9	420.8	465.4	583.6	942.9	3131.3	14112.0	19039.8	18057.2
65°	355.7	355.7	364.1	383.4	407.5	476.3	707.8	2019.6	14540.0	21603.2	21385.0
67.5°	317.1	318.3	324.3	344.8	366.5	397.9	536.6	1366.1	13651.4	22312.2	23416.7
70°	280.9	282.1	290.6	303.8	321.9	343.6	419.6	941.7	9936.5	18582.9	20937.7
72.5°	241.1	246.0	252.0	266.5	277.3	293.0	342.4	610.1	5781.5	11953.7	13840.7
75°	197.7	203.8	211.0	225.5	232.7	238.7	282.1	435.3	2781.6	6057.6	6898.0
77.5°	153.1	159.2	167.6	180.9	185.7	192.9	215.8	314.7	1332.3	2685.2	2895.0
80°	102.5	104.9	112.1	127.8	136.2	141.1	159.2	214.6	578.8	1077.9	1068.3
82.5°	62.7	63.9	66.3	76.0	79.6	84.4	103.7	131.4	276.1	1225.0	1404.7
85°	22.9	21.7	20.5	26.5	31.3	36.2	48.2	66.3	120.6	841.6	941.7
87.5°	0.0	0.0	0.0	1.2	2.4	2.4	4.8	9.6	28.9	314.7	215.8
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°	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8	2817.8
2.5°	2827.5	2814.2	2831.1	2843.1	2869.7	2879.3	2881.7	2873.3	2873.3	2858.8	2861.2
5°	2860.0	2851.6	2879.3	2899.8	2938.4	2952.9	2962.5	2956.5	2960.1	2950.4	2952.9
7.5°	2909.5	2902.2	2950.4	2990.2	3030.0	3046.9	3055.3	3050.5	3051.7	3039.7	3043.3
10°	2978.2	2980.6	3038.5	3090.3	3143.4	3160.2	3163.9	3149.4	3137.3	3115.6	3116.8
12.5°	3072.2	3084.3	3166.3	3224.1	3278.4	3302.5	3276.0	3222.9	3173.5	3136.1	3131.3
15°	3174.7	3196.4	3314.6	3388.1	3447.2	3435.2	3356.8	3237.4	3139.7	3084.3	3073.4
17.5°	3297.7	3330.3	3478.6	3566.6	3617.2	3540.1	3376.1	3197.6	3061.4	2986.6	2972.1
20°	3413.5	3465.3	3652.2	3766.7	3772.8	3599.1	3367.6	3116.8	2945.6	2854.0	2834.7
22.5°	3519.6	3585.9	3834.3	3980.1	3901.8	3625.7	3315.8	3002.3	2805.8	2698.4	2681.6
25°	3635.3	3729.4	4046.5	4182.7	4030.8	3614.8	3207.3	2860.0	2637.0	2527.2	2515.2
27.5°	3714.9	3833.0	4259.9	4390.1	4136.9	3553.3	3067.4	2704.5	2482.6	2378.9	2362.0
30°	3806.5	3957.2	4495.0	4615.6	4202.0	3462.9	2917.9	2559.8	2339.1	2227.0	2214.9
32.5°	3972.9	4162.2	4786.8	4854.3	4222.5	3350.8	2774.4	2419.9	2189.6	2077.5	2060.6
35°	4240.6	4462.4	5196.7	5120.8	4206.8	3227.8	2638.2	2255.9	2036.5	1931.6	1914.7
37.5°	4578.2	4854.3	5653.7	5360.7	4163.4	3092.7	2476.6	2118.5	1899.0	1792.9	1783.3
40°	4892.9	5232.9	6166.2	5568.1	4075.4	2926.3	2321.0	1975.0	1750.7	1638.6	1616.9
42.5°	5287.2	5739.3	6759.4	5747.8	3930.7	2727.4	2146.2	1797.8	1565.1	1463.8	1437.2
45°	5886.4	6448.3	7449.1	5920.2	3714.9	2482.6	1926.8	1581.9	1361.3	1257.6	1237.1
47.5°	6634.0	7334.5	8196.6	6022.7	3386.9	2224.6	1678.4	1354.0	1133.4	1016.4	1006.8
50°	7684.2	8623.5	8998.4	6004.6	3020.4	1918.3	1398.7	1082.8	898.3	813.9	800.6
52.5°	8963.5	10241.6	9865.4	5787.6	2630.9	1569.9	1090.0	850.0	712.6	652.3	641.5
55°	10568.3	12179.2	10778.1	5322.1	2139.0	1202.1	856.1	670.4	576.3	540.2	535.3
57.5°	12555.4	14688.3	11657.1	4538.4	1608.5	917.6	659.5	553.4	508.8	487.1	485.9
60°	15177.9	17351.8	12420.3	3526.8	1151.5	701.7	545.0	494.4	459.4	444.9	443.7
62.5°	18295.9	19770.5	12895.4	2401.8	865.7	559.5	479.9	448.5	428.0	419.6	418.4
65°	21500.8	21299.4	12668.7	1573.5	657.1	475.1	430.4	413.6	395.5	387.0	387.0
67.5°	23393.8	20976.3	10928.8	1092.4	520.9	417.2	388.2	372.6	342.4	335.2	335.2
70°	20720.6	16997.3	7163.3	799.4	422.0	365.3	337.6	315.9	303.8	296.6	295.4
72.5°	13704.4	11060.3	3808.9	554.6	352.1	311.1	285.8	277.3	262.9	255.6	254.4
75°	6820.9	5809.3	1952.1	400.3	293.0	249.6	238.7	235.1	223.1	213.4	211.0
77.5°	2843.1	2586.3	910.3	290.6	223.1	201.4	191.7	191.7	178.4	167.6	162.8
80°	1071.9	954.9	430.4	198.9	165.2	149.5	143.5	138.7	127.8	114.5	107.3
82.5°	1433.6	936.9	211.0	124.2	108.5	96.5	88.0	84.4	78.4	72.3	67.5
85°	928.4	665.6	95.3	63.9	54.3	41.0	36.2	33.8	30.1	26.5	24.1
87.5°	189.3	223.1	28.9	12.1	7.2	3.6	3.6	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)