

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: P639257

Luminaire Tested: GWS-SA5B-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639257
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-SA5B-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17723.4 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

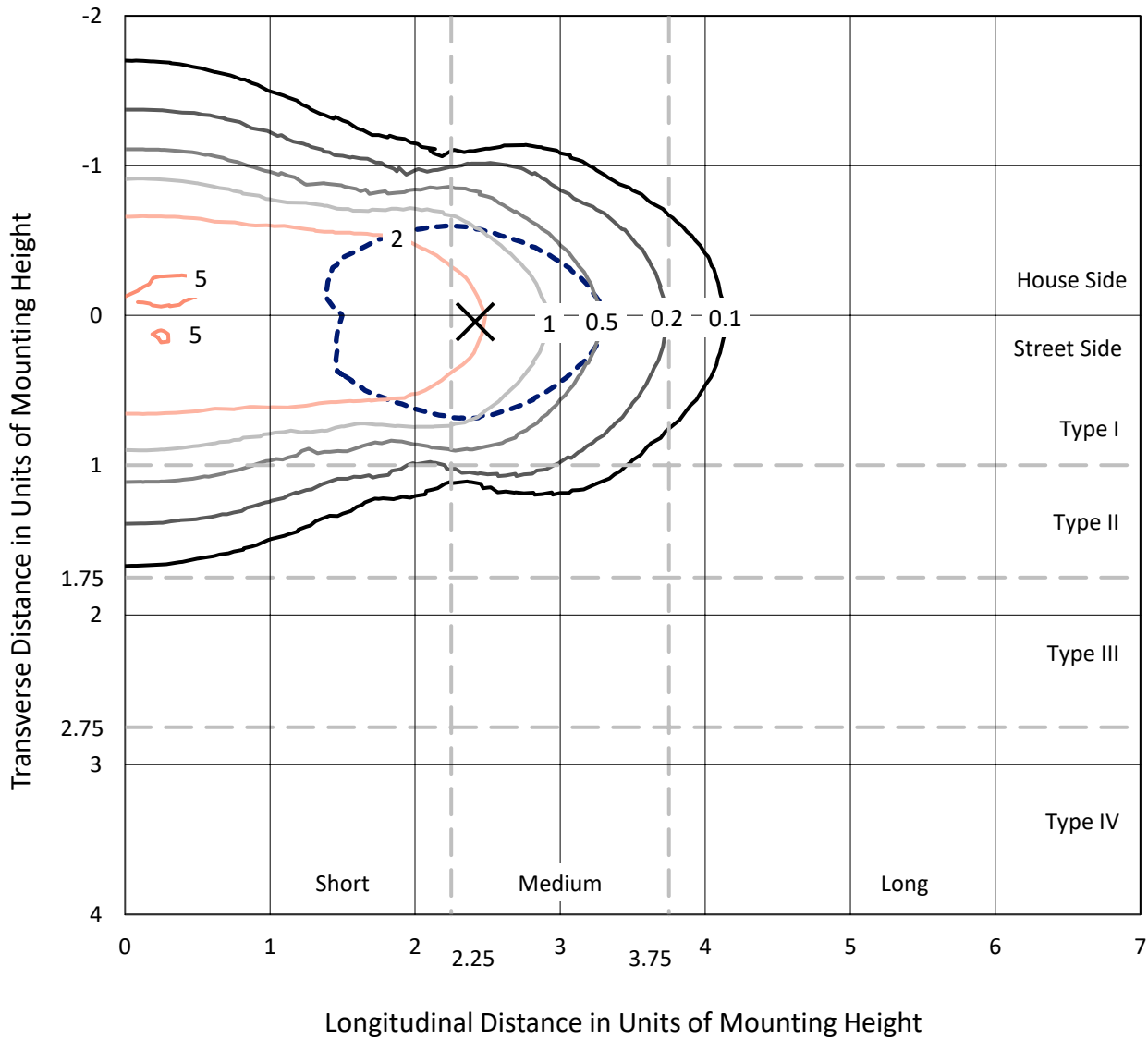
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

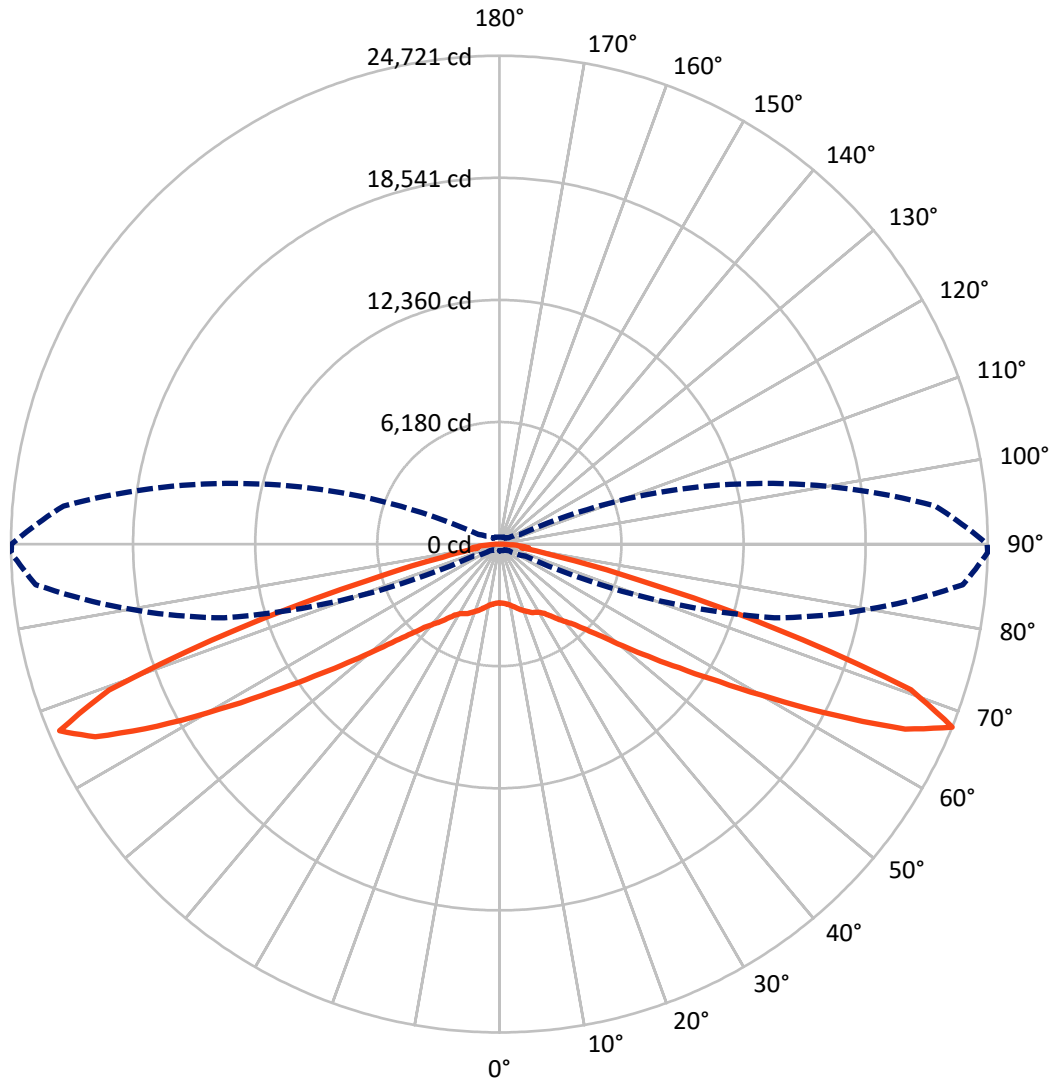
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	8784.0	0.0	8784.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8939.4	0.0	8939.4
	% Fixture	50.4	0.0	50.4
Total	Lumens	17723.4	0.0	17723.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.4	1.7
10°-20°	971.6	5.5
20°-30°	1642.4	9.3
30°-40°	2254.0	12.7
40°-50°	2874.4	16.2
50°-60°	3606.4	20.3
60°-70°	4349.6	24.5
70°-80°	1573.6	8.9
80°-90°	153.0	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°	17723.4	100.0
0°-180°	17723.4	100.0

Coefficient of Utilization



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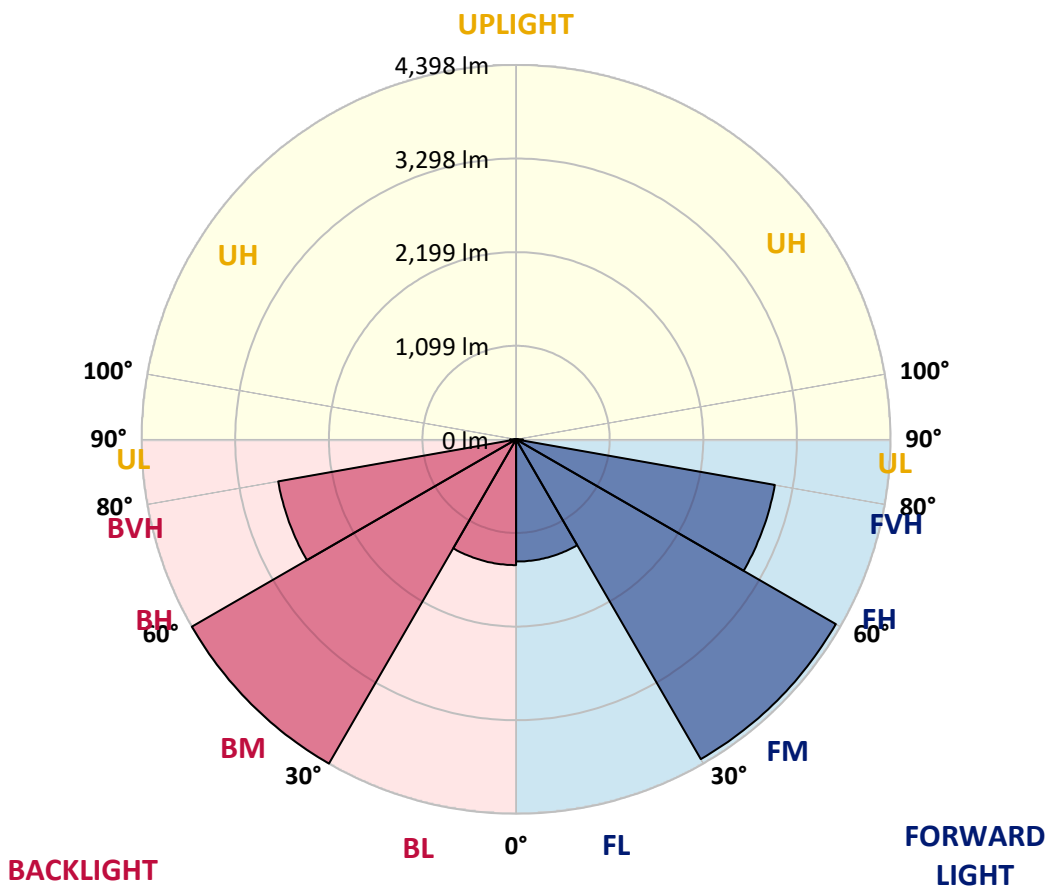
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1435.5	8.1			
FM (30°-60°)	4337.3	24.5			
FH (60°-80°)	3085.9	17.4			G2/5000
FVH (80°-90°)	80.7	0.5			G1/100
BL (0°-30°)	1477.0	8.3	B3/2500		
BM (30°-60°)	4397.5	24.8	B3/5000		
BH (60°-80°)	2837.2	16.0	B4/5000		G4/5000
BVH (80°-90°)	72.3	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°	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7
2.5°	2983.6	2981.1	2974.7	2993.8	2990.0	2991.3	2998.9	2993.8	2984.9	2969.6	2991.3
5°	3067.7	3066.4	3052.4	3063.8	3051.1	3042.2	3040.9	3028.2	3018.0	3001.5	3024.4
7.5°	3149.1	3147.8	3136.4	3156.8	3146.6	3136.4	3124.9	3099.5	3075.3	3051.1	3076.6
10°	3211.5	3210.2	3207.7	3236.9	3239.5	3243.3	3238.2	3194.9	3152.9	3123.7	3149.1
12.5°	3247.1	3250.9	3257.3	3310.8	3337.5	3363.0	3369.3	3333.7	3263.7	3221.7	3252.2
15°	3222.9	3230.6	3262.4	3359.1	3433.0	3490.2	3514.4	3485.2	3394.8	3324.8	3359.1
17.5°	3107.1	3113.5	3175.8	3323.5	3486.4	3618.8	3658.3	3640.4	3539.9	3454.6	3487.7
20°	2946.7	2960.7	3028.2	3234.4	3477.5	3707.9	3813.6	3807.2	3697.7	3566.6	3606.1
22.5°	2801.6	2818.2	2889.4	3117.3	3417.7	3730.8	3970.1	3986.7	3841.6	3678.6	3710.5
25°	2638.7	2654.0	2745.6	2978.5	3314.6	3713.0	4103.8	4178.9	4004.5	3807.2	3836.5
27.5°	2471.9	2483.4	2573.8	2822.0	3179.7	3679.9	4209.4	4390.2	4164.9	3896.3	3916.7
30°	2325.6	2340.8	2423.6	2665.4	3032.0	3613.7	4296.0	4615.5	4349.4	3996.9	4013.4
32.5°	2184.3	2197.0	2287.4	2511.4	2875.4	3511.9	4373.6	4880.2	4623.1	4184.0	4184.0
35°	2006.1	2029.0	2130.8	2363.7	2727.8	3377.0	4429.6	5188.3	4997.3	4460.2	4461.5
37.5°	1841.9	1854.6	1961.5	2197.0	2572.5	3224.2	4434.7	5507.8	5470.9	4811.5	4814.0
40°	1654.7	1671.3	1785.9	2018.8	2394.3	3063.8	4386.4	5805.6	5967.3	5173.0	5159.0
42.5°	1465.1	1489.3	1598.7	1826.6	2202.1	2867.8	4257.8	6089.5	6597.4	5591.8	5557.4
45°	1281.8	1297.1	1406.5	1621.7	1981.9	2633.6	4051.6	6361.9	7345.8	6228.2	6178.6
47.5°	1075.6	1082.0	1195.2	1401.4	1754.0	2372.7	3756.3	6605.0	8168.1	7070.9	6985.6
50°	892.3	901.2	990.3	1167.2	1475.3	2063.3	3388.4	6747.6	9215.7	8220.3	8072.6
52.5°	721.7	730.6	801.9	943.2	1219.4	1710.8	2932.7	6714.5	10278.5	9647.2	9432.1
55°	583.0	589.3	637.7	748.5	959.8	1360.7	2394.3	6417.9	11458.5	11510.7	11047.4
57.5°	492.6	495.2	528.2	595.7	749.7	1048.9	1848.2	5717.8	12695.7	13888.4	13127.3
60°	440.4	441.7	457.0	499.0	591.9	800.6	1354.3	4602.7	13977.5	16863.2	15819.4
62.5°	407.3	407.3	420.1	444.2	491.3	616.1	995.4	3305.7	14897.8	20100.1	19062.7
65°	375.5	375.5	384.4	404.8	430.2	502.8	747.2	2132.1	15349.7	22806.3	22575.9
67.5°	334.8	336.0	342.4	364.0	387.0	420.1	566.4	1442.2	14411.6	23554.7	24720.7
70°	296.6	297.9	306.8	320.8	339.9	362.8	443.0	994.1	10489.8	19617.7	22103.6
72.5°	254.6	259.7	266.0	281.3	292.8	309.3	361.5	644.1	6103.5	12619.4	14611.4
75°	208.8	215.1	222.8	238.0	245.7	252.0	297.9	459.5	2936.5	6395.0	7282.2
77.5°	161.7	168.0	176.9	190.9	196.0	203.7	227.8	332.2	1406.5	2834.7	3056.2
80°	108.2	110.7	118.4	134.9	143.8	148.9	168.0	226.6	611.0	1138.0	1127.8
82.5°	66.2	67.5	70.0	80.2	84.0	89.1	109.5	138.7	291.5	1293.3	1482.9
85°	24.2	22.9	21.6	28.0	33.1	38.2	50.9	70.0	127.3	888.5	994.1
87.5°	0.0	0.0	0.0	1.3	2.5	2.5	5.1	10.2	30.5	332.2	227.8
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°	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7	2974.7
2.5°	2984.9	2970.9	2988.7	3001.5	3029.5	3039.6	3042.2	3033.3	3033.3	3018.0	3020.6
5°	3019.3	3010.4	3039.6	3061.3	3102.0	3117.3	3127.5	3121.1	3124.9	3114.7	3117.3
7.5°	3071.5	3063.8	3114.7	3156.8	3198.8	3216.6	3225.5	3220.4	3221.7	3208.9	3212.8
10°	3144.0	3146.6	3207.7	3262.4	3318.4	3336.2	3340.0	3324.8	3312.0	3289.1	3290.4
12.5°	3243.3	3256.0	3342.6	3403.7	3461.0	3486.4	3458.4	3402.4	3350.2	3310.8	3305.7
15°	3351.5	3374.4	3499.2	3576.8	3639.2	3626.4	3543.7	3417.7	3314.6	3256.0	3244.6
17.5°	3481.3	3515.7	3672.3	3765.2	3818.7	3737.2	3564.1	3375.7	3231.9	3152.9	3137.7
20°	3603.5	3658.3	3855.6	3976.5	3982.9	3799.6	3555.2	3290.4	3109.7	3012.9	2992.6
22.5°	3715.5	3785.6	4047.8	4201.8	4119.1	3827.6	3500.4	3169.5	2962.0	2848.7	2830.9
25°	3837.7	3937.0	4271.8	4415.6	4255.3	3816.1	3385.9	3019.3	2783.8	2668.0	2655.2
27.5°	3921.8	4046.5	4497.1	4634.6	4367.3	3751.2	3238.2	2855.1	2620.9	2511.4	2493.6
30°	4018.5	4177.6	4745.3	4872.6	4436.0	3655.7	3080.4	2702.3	2469.4	2351.0	2338.3
32.5°	4194.2	4394.0	5053.3	5124.6	4457.6	3537.3	2928.9	2554.7	2311.6	2193.2	2175.4
35°	4476.7	4710.9	5486.1	5405.9	4441.1	3407.5	2785.1	2381.6	2149.9	2039.2	2021.3
37.5°	4833.1	5124.6	5968.6	5659.2	4395.3	3264.9	2614.5	2236.5	2004.8	1892.8	1882.6
40°	5165.4	5524.3	6509.5	5878.2	4302.3	3089.3	2450.3	2085.0	1848.2	1729.8	1706.9
42.5°	5581.6	6058.9	7135.8	6067.8	4149.6	2879.3	2265.7	1897.9	1652.2	1545.3	1517.3
45°	6214.2	6807.4	7863.9	6249.9	3921.8	2620.9	2034.1	1670.0	1437.1	1327.6	1306.0
47.5°	7003.4	7743.0	8653.1	6358.1	3575.5	2348.5	1771.9	1429.4	1196.5	1073.0	1062.9
50°	8112.1	9103.7	9499.5	6339.0	3188.6	2025.2	1476.5	1143.0	948.3	859.2	845.2
52.5°	9462.6	10811.9	10414.7	6109.8	2777.4	1657.3	1150.7	897.4	752.3	688.6	677.2
55°	11156.8	12857.4	11378.3	5618.5	2258.1	1269.1	903.7	707.7	608.4	570.3	565.2
57.5°	13254.5	15506.3	12306.2	4791.1	1698.0	968.7	696.3	584.3	537.2	514.2	513.0
60°	16023.1	18318.1	13112.0	3723.2	1215.6	740.8	575.3	521.9	485.0	469.7	468.4
62.5°	19314.7	20871.5	13613.5	2535.6	913.9	590.6	506.6	473.5	451.9	443.0	441.7
65°	22698.1	22485.5	13374.2	1661.1	693.7	501.5	454.4	436.6	417.5	408.6	408.6
67.5°	24696.5	22144.4	11537.4	1153.2	549.9	440.4	409.9	393.3	361.5	353.9	353.9
70°	21874.5	17943.8	7562.2	843.9	445.5	385.7	356.4	333.5	320.8	313.1	311.9
72.5°	14467.6	11676.2	4021.0	585.5	371.7	328.4	301.7	292.8	277.5	269.9	268.6
75°	7200.7	6132.8	2060.8	422.6	309.3	263.5	252.0	248.2	235.5	225.3	222.8
77.5°	3001.5	2730.3	961.0	306.8	235.5	212.6	202.4	202.4	188.4	176.9	171.8
80°	1131.6	1008.1	454.4	210.0	174.4	157.8	151.5	146.4	134.9	120.9	113.3
82.5°	1513.5	989.0	222.8	131.1	114.6	101.8	92.9	89.1	82.7	76.4	71.3
85°	980.1	702.6	100.6	67.5	57.3	43.3	38.2	35.6	31.8	28.0	25.5
87.5°	199.8	235.5	30.5	12.7	7.6	3.8	3.8	1.3	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)