

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: P639532

Luminaire Tested: GWS-SA5C-722-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639532
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-SA5C-722-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17508.1 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

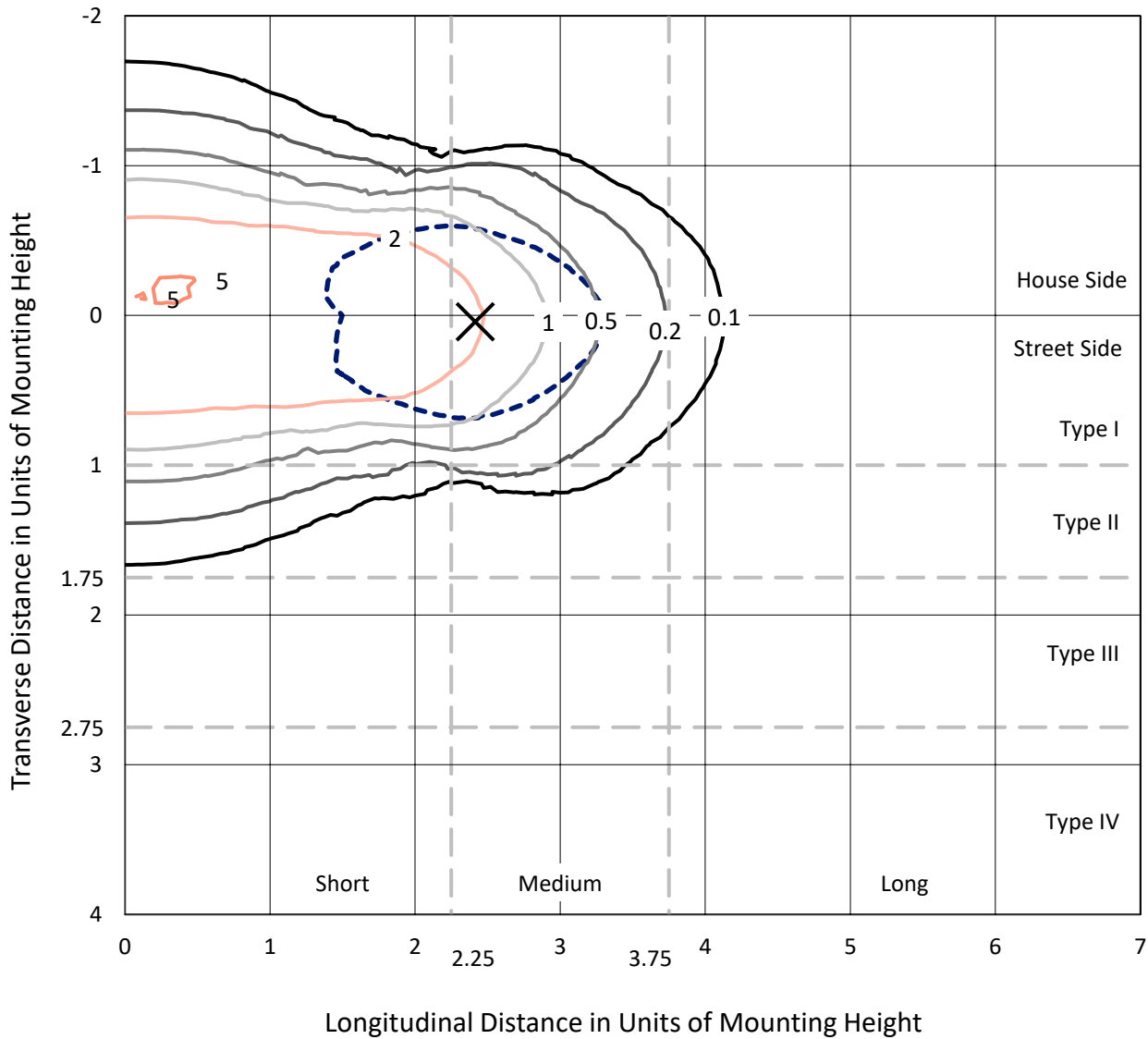
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

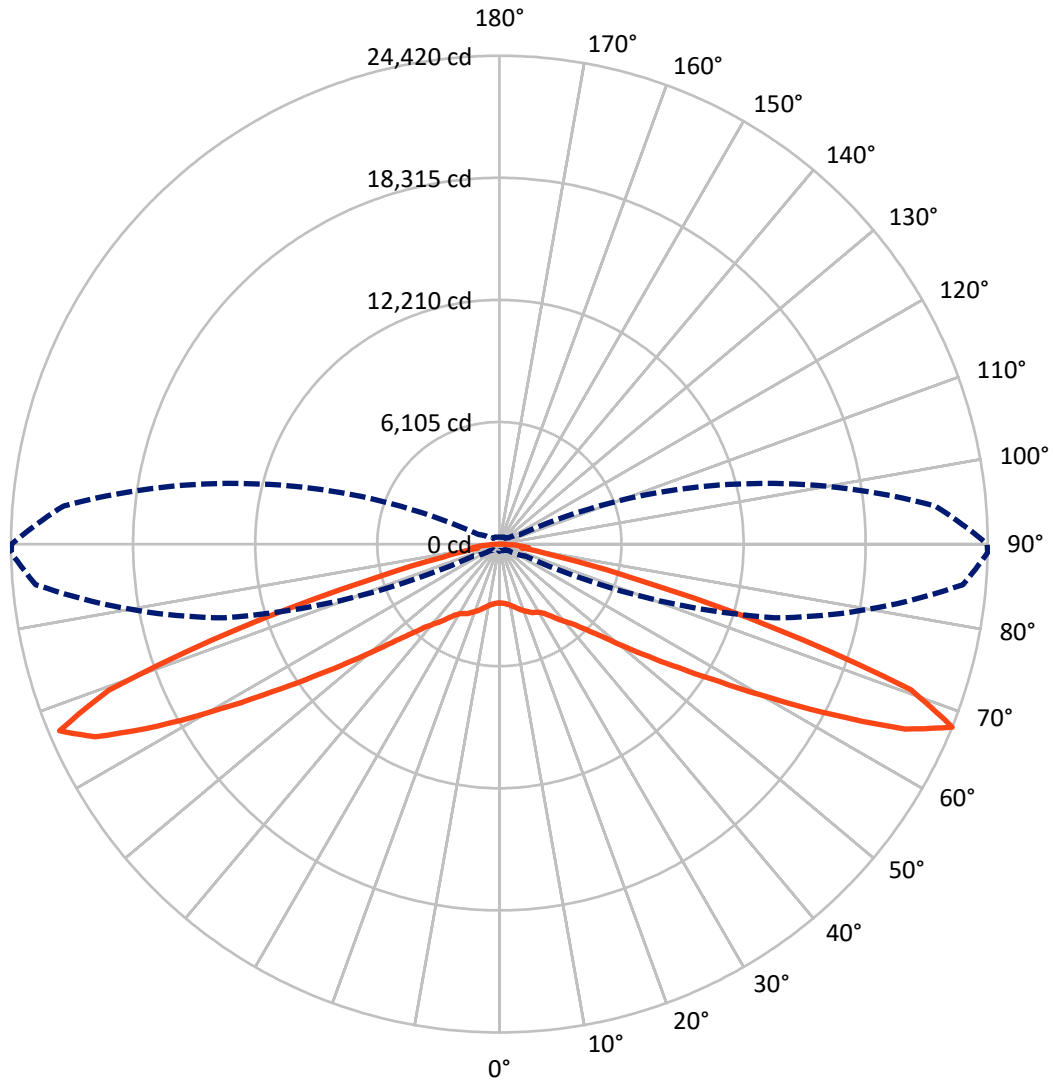
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	8677.3	0.0	8677.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8830.8	0.0	8830.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	17508.1	0.0	17508.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.8	1.7
10°-20°	959.8	5.5
20°-30°	1622.5	9.3
30°-40°	2226.7	12.7
40°-50°	2839.5	16.2
50°-60°	3562.6	20.3
60°-70°	4296.7	24.5
70°-80°	1554.4	8.9
80°-90°	151.2	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°	17508.1	100.0
0°-180°	17508.1	100.0

Coefficient of Utilization



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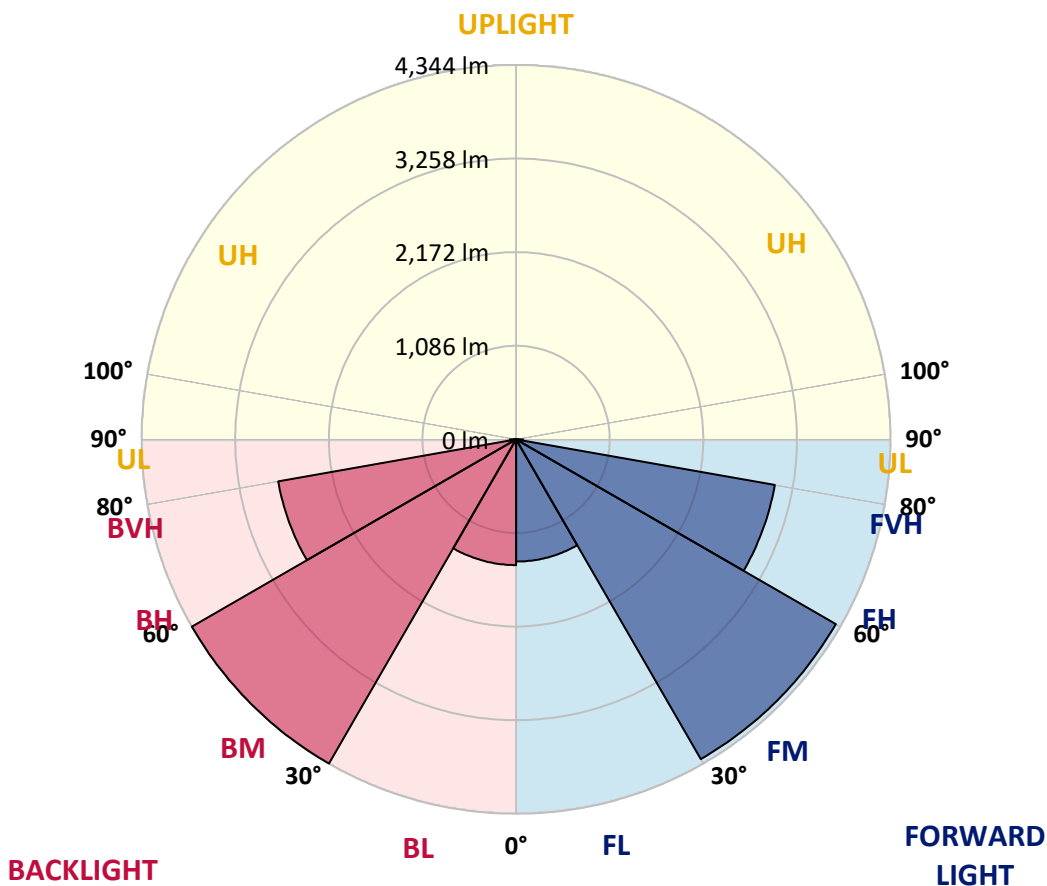
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.0	8.1			
FM (30°-60°)	4284.6	24.5			
FH (60°-80°)	3048.4	17.4			G2/5000
FVH (80°-90°)	79.8	0.5			G1/100
BL (0°-30°)	1459.0	8.3	B3/2500		
BM (30°-60°)	4344.1	24.8	B3/5000		
BH (60°-80°)	2802.8	16.0	B4/5000		G4/5000
BVH (80°-90°)	71.4	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°	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6
2.5°	2947.4	2944.9	2938.6	2957.5	2953.7	2954.9	2962.5	2957.5	2948.7	2933.6	2954.9
5°	3030.4	3029.1	3015.3	3026.6	3014.0	3005.2	3004.0	2991.4	2981.3	2965.0	2987.6
7.5°	3110.9	3109.6	3098.3	3118.4	3108.3	3098.3	3087.0	3061.8	3037.9	3014.0	3039.2
10°	3172.5	3171.2	3168.7	3197.6	3200.1	3203.9	3198.9	3156.1	3114.6	3085.7	3110.9
12.5°	3207.7	3211.5	3217.7	3270.6	3297.0	3322.1	3328.4	3293.2	3224.0	3182.5	3212.7
15°	3183.8	3191.3	3222.8	3318.3	3391.3	3447.8	3471.7	3442.8	3353.5	3284.4	3318.3
17.5°	3069.4	3075.7	3137.3	3283.1	3444.1	3574.8	3613.8	3596.2	3496.9	3412.6	3445.3
20°	2910.9	2924.8	2991.4	3195.1	3435.3	3662.9	3767.2	3760.9	3652.8	3523.3	3562.3
22.5°	2767.6	2783.9	2854.3	3079.4	3376.2	3685.5	3921.9	3938.2	3794.9	3633.9	3665.4
25°	2606.6	2621.7	2712.3	2942.4	3274.3	3667.9	4053.9	4128.1	3955.8	3760.9	3789.9
27.5°	2441.9	2453.2	2542.5	2787.7	3141.0	3635.2	4158.3	4336.8	4114.3	3849.0	3869.1
30°	2297.3	2312.4	2394.1	2633.0	2995.2	3569.8	4243.8	4559.4	4296.6	3948.3	3964.6
32.5°	2157.7	2170.3	2259.6	2480.9	2840.5	3469.2	4320.5	4821.0	4567.0	4133.1	4133.1
35°	1981.7	2004.3	2104.9	2335.0	2694.7	3335.9	4375.8	5125.2	4936.6	4406.0	4407.3
37.5°	1819.5	1832.1	1937.7	2170.3	2541.2	3185.0	4380.9	5440.9	5404.4	4753.1	4755.6
40°	1634.6	1651.0	1764.2	1994.3	2365.2	3026.6	4333.1	5735.1	5894.8	5110.2	5096.3
42.5°	1447.3	1471.2	1579.3	1804.4	2175.3	2833.0	4206.1	6015.5	6517.2	5523.9	5489.9
45°	1266.2	1281.3	1389.5	1602.0	1957.8	2601.6	4002.4	6284.6	7256.6	6152.6	6103.5
47.5°	1062.5	1068.8	1180.7	1384.4	1732.7	2343.8	3710.7	6524.8	8068.9	6985.0	6900.7
50°	881.5	890.3	978.3	1153.1	1457.4	2038.3	3347.3	6665.6	9103.7	8120.4	7974.6
52.5°	713.0	721.8	792.2	931.7	1204.6	1690.0	2897.1	6632.9	10153.7	9530.0	9317.5
55°	575.9	582.2	630.0	739.4	948.1	1344.2	2365.2	6339.9	11319.3	11370.9	10913.2
57.5°	486.6	489.1	521.8	588.5	740.6	1036.1	1825.8	5648.3	12541.5	13719.7	12967.8
60°	435.1	436.3	451.4	492.9	584.7	790.9	1337.9	4546.8	13807.7	16658.3	15627.2
62.5°	402.4	402.4	414.9	438.8	485.4	608.6	983.3	3265.5	14716.9	19855.9	18831.1
65°	370.9	370.9	379.7	399.9	425.0	496.7	738.1	2106.2	15163.2	22529.2	22301.6
67.5°	330.7	332.0	338.2	359.6	382.3	414.9	559.6	1424.7	14236.5	23268.6	24420.4
70°	293.0	294.2	303.0	316.9	335.7	358.4	437.6	982.0	10362.4	19379.4	21835.1
72.5°	251.5	256.5	262.8	277.9	289.2	305.6	357.1	636.3	6029.3	12466.1	14433.9
75°	206.2	212.5	220.0	235.1	242.7	249.0	294.2	453.9	2900.9	6317.3	7193.7
77.5°	159.7	166.0	174.8	188.6	193.6	201.2	225.1	328.2	1389.5	2800.3	3019.1
80°	106.9	109.4	116.9	133.3	142.1	147.1	166.0	223.8	603.6	1124.1	1114.1
82.5°	65.4	66.6	69.2	79.2	83.0	88.0	108.1	137.1	287.9	1277.5	1464.9
85°	23.9	22.6	21.4	27.7	32.7	37.7	50.3	69.2	125.7	877.7	982.0
87.5°	0.0	0.0	0.0	1.3	2.5	2.5	5.0	10.1	30.2	328.2	225.1
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°	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6	2938.6
2.5°	2948.7	2934.8	2952.4	2965.0	2992.7	3002.7	3005.2	2996.4	2996.4	2981.3	2983.9
5°	2982.6	2973.8	3002.7	3024.1	3064.3	3079.4	3089.5	3083.2	3087.0	3076.9	3079.4
7.5°	3034.2	3026.6	3076.9	3118.4	3159.9	3177.5	3186.3	3181.3	3182.5	3170.0	3173.7
10°	3105.8	3108.3	3168.7	3222.8	3278.1	3295.7	3299.5	3284.4	3271.8	3249.2	3250.4
12.5°	3203.9	3216.5	3302.0	3362.3	3418.9	3444.1	3416.4	3361.1	3309.5	3270.6	3265.5
15°	3310.8	3333.4	3456.7	3533.4	3595.0	3582.4	3500.7	3376.2	3274.3	3216.5	3205.2
17.5°	3439.0	3473.0	3627.7	3719.5	3772.3	3691.8	3520.8	3334.7	3192.6	3114.6	3099.5
20°	3559.8	3613.8	3808.7	3928.2	3934.5	3753.4	3512.0	3250.4	3071.9	2976.3	2956.2
22.5°	3670.4	3739.6	3998.6	4150.7	4069.0	3781.1	3457.9	3131.0	2926.0	2814.1	2796.5
25°	3791.1	3889.2	4219.9	4362.0	4203.6	3769.7	3344.7	2982.6	2750.0	2635.6	2623.0
27.5°	3874.1	3997.3	4442.5	4578.3	4314.2	3705.6	3198.9	2820.4	2589.0	2480.9	2463.3
30°	3969.7	4126.9	4687.7	4813.4	4382.1	3611.3	3043.0	2669.5	2439.4	2322.5	2309.9
32.5°	4143.2	4340.6	4992.0	5062.4	4403.5	3494.4	2893.3	2523.6	2283.5	2166.5	2148.9
35°	4422.4	4653.7	5419.5	5340.3	4387.1	3366.1	2751.2	2352.6	2123.8	2014.4	1996.8
37.5°	4774.4	5062.4	5896.0	5590.5	4341.9	3225.3	2582.7	2209.3	1980.4	1869.8	1859.7
40°	5102.6	5457.2	6430.5	5806.8	4250.1	3051.8	2420.5	2059.7	1825.8	1708.8	1686.2
42.5°	5513.8	5985.3	7049.1	5994.1	4099.2	2844.3	2238.2	1874.8	1632.1	1526.5	1498.8
45°	6138.7	6724.7	7768.3	6173.9	3874.1	2589.0	2009.4	1649.7	1419.6	1311.5	1290.1
47.5°	6918.3	7648.9	8547.9	6280.8	3532.1	2319.9	1750.3	1412.1	1182.0	1060.0	1049.9
50°	8013.5	8993.1	9384.1	6262.0	3149.8	2000.6	1458.6	1129.2	936.8	848.8	834.9
52.5°	9347.7	10680.5	10288.2	6035.6	2743.7	1637.2	1136.7	886.5	743.1	680.3	668.9
55°	11021.3	12701.2	11240.1	5550.3	2230.7	1253.6	892.8	699.1	601.0	563.3	558.3
57.5°	13093.5	15317.9	12156.7	4732.9	1677.4	956.9	687.8	577.2	530.6	508.0	506.7
60°	15828.4	18095.5	12952.7	3678.0	1200.8	731.8	568.4	515.5	479.1	464.0	462.7
62.5°	19080.1	20617.9	13448.1	2504.8	902.8	583.4	500.5	467.8	446.4	437.6	436.3
65°	22422.3	22212.3	13211.7	1640.9	685.3	495.4	448.9	431.3	412.4	403.6	403.6
67.5°	24396.5	21875.4	11397.3	1139.2	543.2	435.1	404.9	388.5	357.1	349.6	349.6
70°	21608.8	17725.9	7470.3	833.7	440.1	381.0	352.1	329.4	316.9	309.3	308.1
72.5°	14291.9	11534.3	3972.2	578.4	367.2	324.4	298.0	289.2	274.1	266.6	265.3
75°	7113.2	6058.3	2035.8	417.5	305.6	260.3	249.0	245.2	232.6	222.6	220.0
77.5°	2965.0	2697.2	949.4	303.0	232.6	210.0	199.9	199.9	186.1	174.8	169.8
80°	1117.8	995.9	448.9	207.5	172.3	155.9	149.6	144.6	133.3	119.5	111.9
82.5°	1495.1	977.0	220.0	129.5	113.2	100.6	91.8	88.0	81.7	75.4	70.4
85°	968.2	694.1	99.3	66.6	56.6	42.8	37.7	35.2	31.4	27.7	25.1
87.5°	197.4	232.6	30.2	12.6	7.5	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)