

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: P637222

Luminaire Tested: GWS-SA4C-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637222
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-SA4C-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19110.6 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B4 - U0 - G4

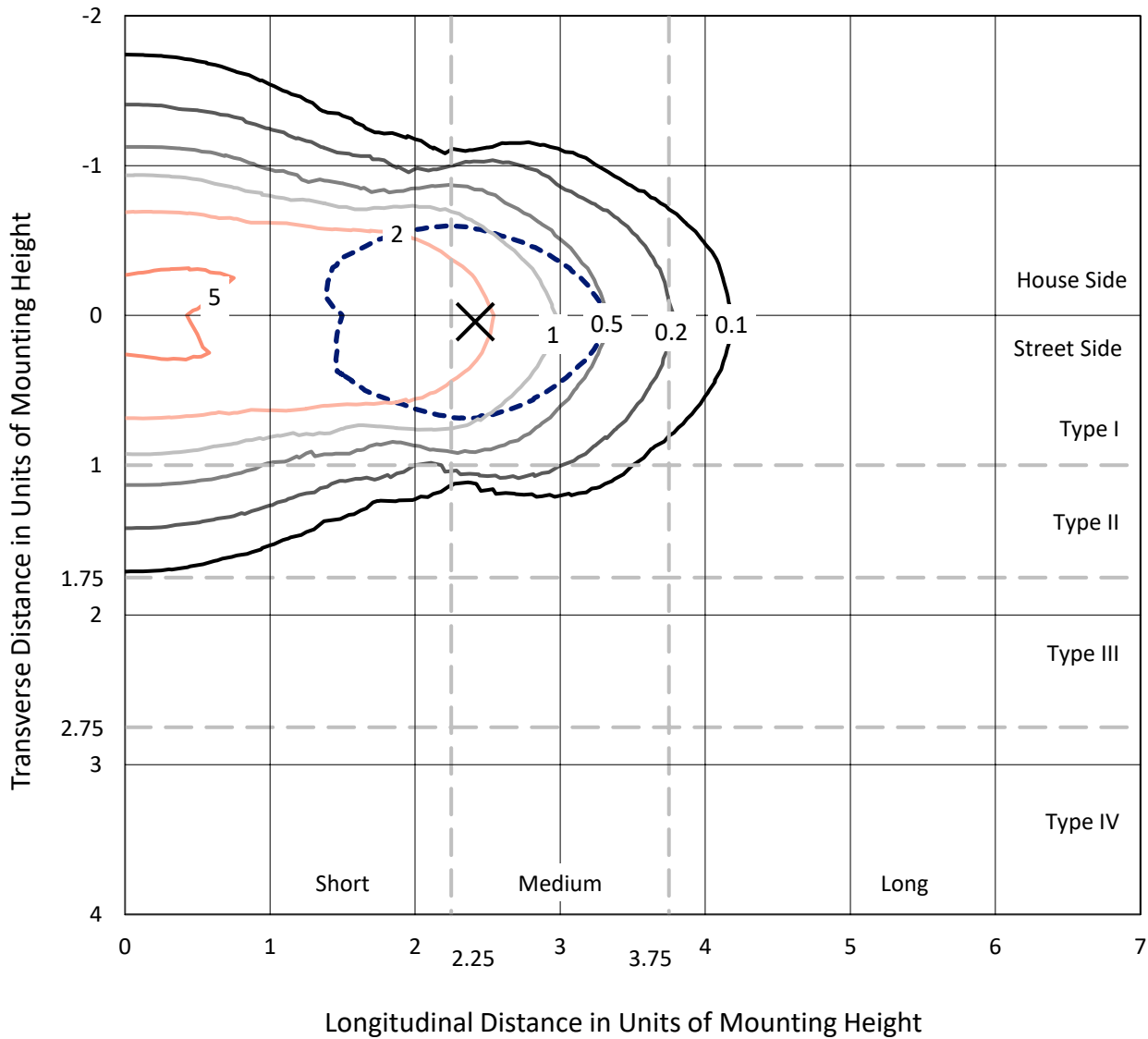
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

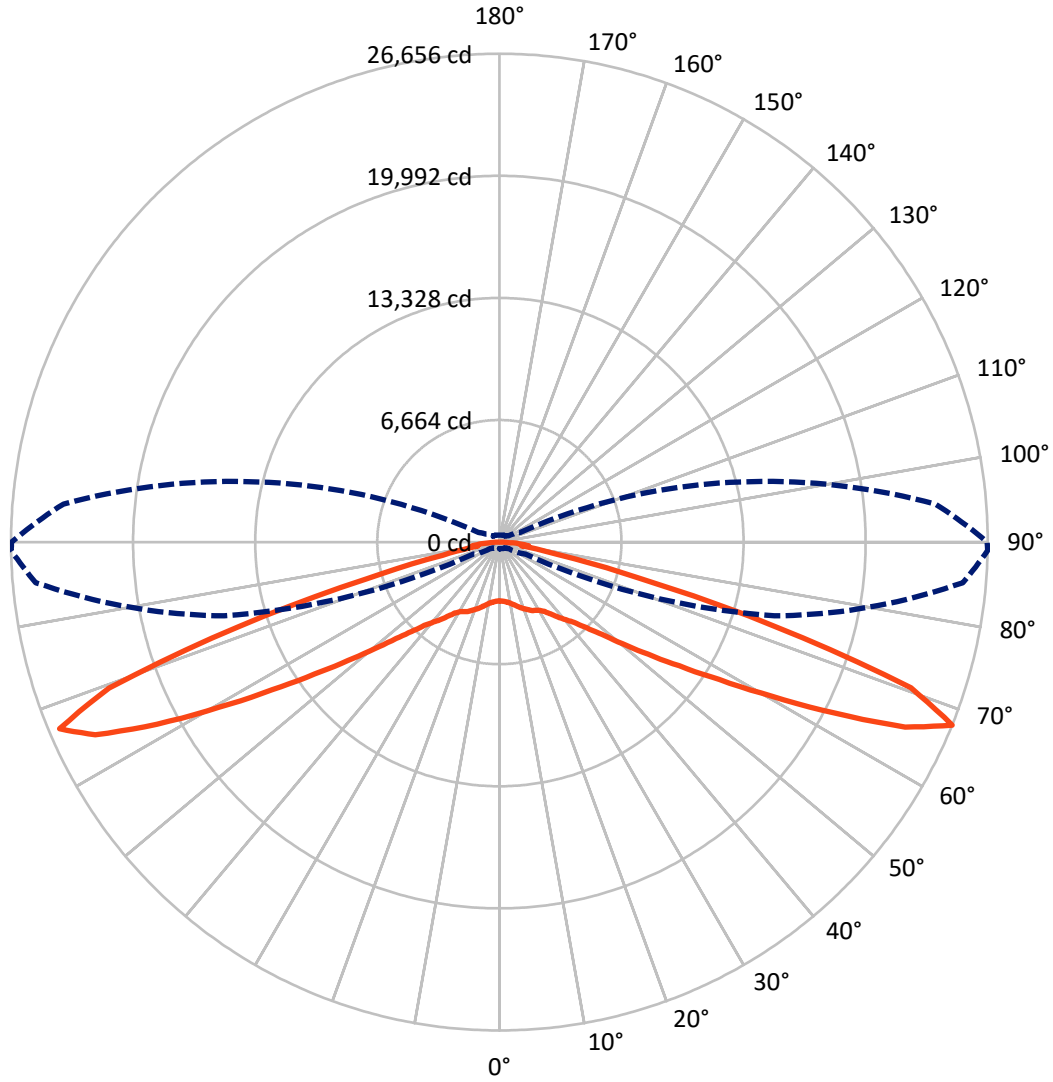
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	9471.5	0.0	9471.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	9639.1	0.0	9639.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	19110.6	0.0	19110.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.7	1.7
10°-20°	1047.6	5.5
20°-30°	1771.0	9.3
30°-40°	2430.5	12.7
40°-50°	3099.4	16.2
50°-60°	3888.6	20.3
60°-70°	4690.0	24.5
70°-80°	1696.7	8.9
80°-90°	165.0	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°	19110.6	100.0
0°-180°	19110.6	100.0

Coefficient of Utilization



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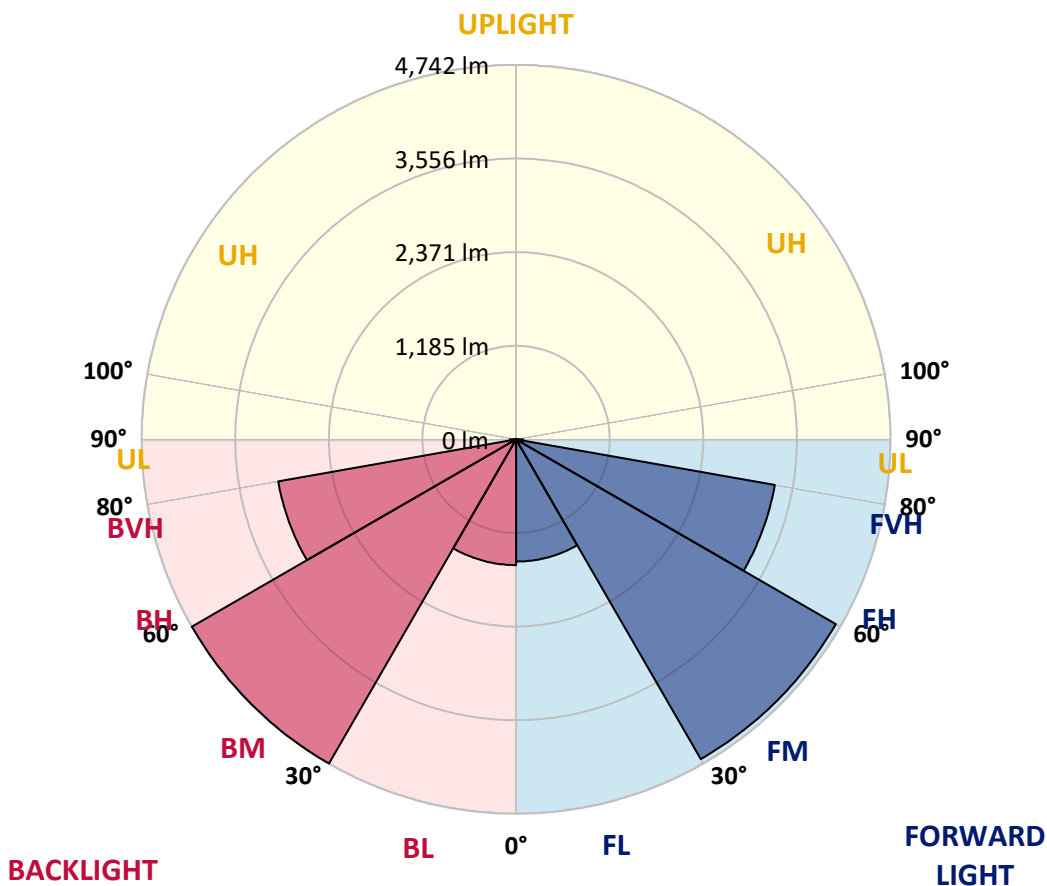
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.8	8.1			
FM (30°-60°)	4676.7	24.5			
FH (60°-80°)	3327.4	17.4			G2/5000
FVH (80°-90°)	87.1	0.5			G1/100
BL (0°-30°)	1592.6	8.3	B3/2500		
BM (30°-60°)	4741.7	24.8	B3/5000		
BH (60°-80°)	3059.3	16.0	B4/5000		G4/5000
BVH (80°-90°)	77.9	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°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	3217.2	3214.4	3207.6	3228.1	3224.0	3225.4	3233.6	3228.1	3218.5	3202.1	3225.4
5°	3307.8	3306.4	3291.3	3303.6	3289.9	3280.3	3278.9	3265.2	3254.2	3236.4	3261.1
7.5°	3395.6	3394.2	3381.9	3403.8	3392.8	3381.9	3369.5	3342.1	3316.0	3289.9	3317.4
10°	3462.8	3461.5	3458.7	3490.3	3493.0	3497.2	3491.7	3445.0	3399.7	3368.1	3395.6
12.5°	3501.3	3505.4	3512.3	3569.9	3598.7	3626.2	3633.0	3594.6	3519.1	3473.8	3506.8
15°	3475.2	3483.4	3517.7	3622.1	3701.7	3763.4	3789.5	3757.9	3660.5	3585.0	3622.1
17.5°	3350.3	3357.2	3424.4	3583.6	3759.3	3902.1	3944.6	3925.4	3817.0	3725.0	3760.7
20°	3177.4	3192.5	3265.2	3487.6	3749.7	3998.1	4112.0	4105.2	3987.1	3845.8	3888.3
22.5°	3020.9	3038.7	3115.6	3361.3	3685.2	4022.8	4280.9	4298.7	4142.2	3966.6	4000.9
25°	2845.2	2861.7	2960.5	3211.7	3574.0	4003.6	4425.0	4506.0	4317.9	4105.2	4136.8
27.5°	2665.4	2677.8	2775.2	3042.9	3428.5	3967.9	4538.9	4733.8	4490.9	4201.3	4223.2
30°	2507.6	2524.0	2613.3	2874.0	3269.3	3896.6	4632.2	4976.7	4689.9	4309.7	4327.5
32.5°	2355.2	2369.0	2466.4	2708.0	3100.5	3786.8	4716.0	5262.2	4985.0	4511.4	4511.4
35°	2163.1	2187.8	2297.6	2548.8	2941.3	3641.3	4776.3	5594.4	5388.5	4809.3	4810.7
37.5°	1986.0	1999.7	2115.0	2369.0	2773.8	3476.6	4781.8	5938.9	5899.1	5188.1	5190.8
40°	1784.3	1802.1	1925.6	2176.8	2581.7	3303.6	4729.7	6260.0	6434.3	5577.9	5562.8
42.5°	1579.8	1605.8	1723.9	1969.6	2374.4	3092.3	4591.1	6566.1	7113.7	6029.4	5992.4
45°	1382.1	1398.6	1516.6	1748.6	2137.0	2839.7	4368.7	6859.8	7920.8	6715.7	6662.2
47.5°	1159.8	1166.6	1288.8	1511.1	1891.3	2558.4	4050.3	7122.0	8807.4	7624.3	7532.3
50°	962.1	971.7	1067.8	1258.6	1590.7	2224.8	3653.6	7275.7	9937.0	8863.7	8704.5
52.5°	778.2	787.8	864.7	1017.0	1314.9	1844.7	3162.3	7240.0	11083.0	10402.3	10170.3
55°	628.6	635.5	687.6	807.0	1034.9	1467.2	2581.7	6920.2	12355.4	12411.6	11912.0
57.5°	531.2	533.9	569.6	642.3	808.4	1130.9	1992.9	6165.3	13689.4	14975.5	14154.7
60°	474.9	476.3	492.7	538.0	638.2	863.3	1460.4	4963.0	15071.6	18183.0	17057.6
62.5°	439.2	439.2	452.9	479.0	529.8	664.3	1073.3	3564.4	16063.9	21673.3	20554.7
65°	404.9	404.9	414.5	436.5	463.9	542.1	805.7	2299.0	16551.1	24591.3	24342.9
67.5°	361.0	362.3	369.2	392.5	417.2	452.9	610.8	1555.1	15539.6	25398.3	26655.6
70°	319.8	321.2	330.8	345.9	366.5	391.2	477.6	1071.9	11310.9	21153.2	23833.7
72.5°	274.5	280.0	286.9	303.3	315.7	333.5	389.8	694.5	6581.2	13607.1	15755.1
75°	225.1	232.0	240.2	256.7	264.9	271.8	321.2	495.5	3166.4	6895.5	7852.1
77.5°	174.3	181.2	190.8	205.9	211.4	219.6	245.7	358.2	1516.6	3056.6	3295.4
80°	116.7	119.4	127.6	145.5	155.1	160.6	181.2	244.3	658.8	1227.0	1216.0
82.5°	71.4	72.7	75.5	86.5	90.6	96.1	118.0	149.6	314.3	1394.5	1599.0
85°	26.1	24.7	23.3	30.2	35.7	41.2	54.9	75.5	137.3	958.0	1071.9
87.5°	0.0	0.0	0.0	1.4	2.7	2.7	5.5	11.0	32.9	358.2	245.7
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°	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6	3207.6
2.5°	3218.5	3203.4	3222.7	3236.4	3266.6	3277.6	3280.3	3270.7	3270.7	3254.2	3257.0
5°	3255.6	3246.0	3277.6	3300.9	3344.8	3361.3	3372.3	3365.4	3369.5	3358.5	3361.3
7.5°	3311.9	3303.6	3358.5	3403.8	3449.1	3468.3	3477.9	3472.5	3473.8	3460.1	3464.2
10°	3390.1	3392.8	3458.7	3517.7	3578.1	3597.4	3601.5	3585.0	3571.3	3546.6	3547.9
12.5°	3497.2	3510.9	3604.2	3670.1	3731.9	3759.3	3729.1	3668.7	3612.5	3569.9	3564.4
15°	3613.8	3638.5	3773.0	3856.8	3924.0	3910.3	3821.1	3685.2	3574.0	3510.9	3498.5
17.5°	3753.8	3790.9	3959.7	4059.9	4117.5	4029.7	3843.0	3639.9	3484.8	3399.7	3383.2
20°	3885.6	3944.6	4157.3	4287.7	4294.6	4096.9	3833.4	3547.9	3353.0	3248.7	3226.8
22.5°	4006.4	4081.9	4364.6	4530.7	4441.4	4127.1	3774.4	3417.6	3193.8	3071.7	3052.5
25°	4138.1	4245.2	4606.1	4761.2	4588.3	4114.8	3650.9	3255.6	3001.7	2876.8	2863.1
27.5°	4228.7	4363.2	4849.1	4997.3	4709.1	4044.8	3491.7	3078.5	2826.0	2708.0	2688.8
30°	4333.0	4504.6	5116.7	5254.0	4783.2	3941.9	3321.5	2913.8	2662.7	2535.0	2521.3
32.5°	4522.4	4737.9	5448.9	5525.7	4806.5	3814.2	3158.1	2754.6	2492.5	2364.8	2345.6
35°	4827.1	5079.7	5915.5	5829.1	4788.7	3674.2	3003.1	2568.0	2318.2	2198.8	2179.5
37.5°	5211.4	5525.7	6435.7	6102.2	4739.3	3520.5	2819.1	2411.5	2161.7	2040.9	2029.9
40°	5569.7	5956.7	7019.0	6338.3	4639.1	3331.1	2642.1	2248.2	1992.9	1865.2	1840.5
42.5°	6018.5	6533.2	7694.3	6542.8	4474.4	3104.6	2443.1	2046.4	1781.5	1666.2	1636.0
45°	6700.6	7340.2	8479.4	6739.0	4228.7	2826.0	2193.3	1800.7	1549.6	1431.5	1408.2
47.5°	7551.6	8349.0	9330.3	6855.7	3855.4	2532.3	1910.5	1541.3	1290.2	1157.0	1146.0
50°	8747.0	9816.2	10243.1	6835.1	3438.1	2183.7	1592.1	1232.5	1022.5	926.4	911.3
52.5°	10203.3	11658.1	11229.9	6588.1	2994.8	1787.0	1240.8	967.6	811.2	742.5	730.2
55°	12030.1	13863.7	12268.9	6058.3	2434.8	1368.4	974.5	763.1	656.1	614.9	609.4
57.5°	14292.0	16719.9	13269.4	5166.1	1830.9	1044.5	750.8	630.0	579.2	554.5	553.1
60°	17277.2	19751.8	14138.2	4014.6	1310.7	798.8	620.4	562.7	522.9	506.5	505.1
62.5°	20826.5	22505.1	14679.0	2734.0	985.5	636.8	546.3	510.6	487.2	477.6	476.3
65°	24474.6	24245.4	14421.0	1791.1	748.0	540.8	490.0	470.8	450.2	440.6	440.6
67.5°	26629.5	23877.6	12440.4	1243.5	592.9	474.9	441.9	424.1	389.8	381.6	381.6
70°	23586.6	19348.3	8154.1	910.0	480.4	415.9	384.3	359.6	345.9	337.6	336.3
72.5°	15600.0	12590.1	4335.8	631.4	400.8	354.1	325.3	315.7	299.2	291.0	289.6
75°	7764.3	6612.8	2222.1	455.7	333.5	284.1	271.8	267.6	253.9	242.9	240.2
77.5°	3236.4	2944.0	1036.2	330.8	253.9	229.2	218.2	218.2	203.1	190.8	185.3
80°	1220.2	1087.0	490.0	226.5	188.0	170.2	163.3	157.8	145.5	130.4	122.2
82.5°	1631.9	1066.4	240.2	141.4	123.5	109.8	100.2	96.1	89.2	82.4	76.9
85°	1056.8	757.6	108.4	72.7	61.8	46.7	41.2	38.4	34.3	30.2	27.5
87.5°	215.5	253.9	32.9	13.7	8.2	4.1	4.1	1.4	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)