

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: P639242

Luminaire Tested: GWS-SA5B-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17448.4 lumens
Efficiency: N/A
Efficacy: 150.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

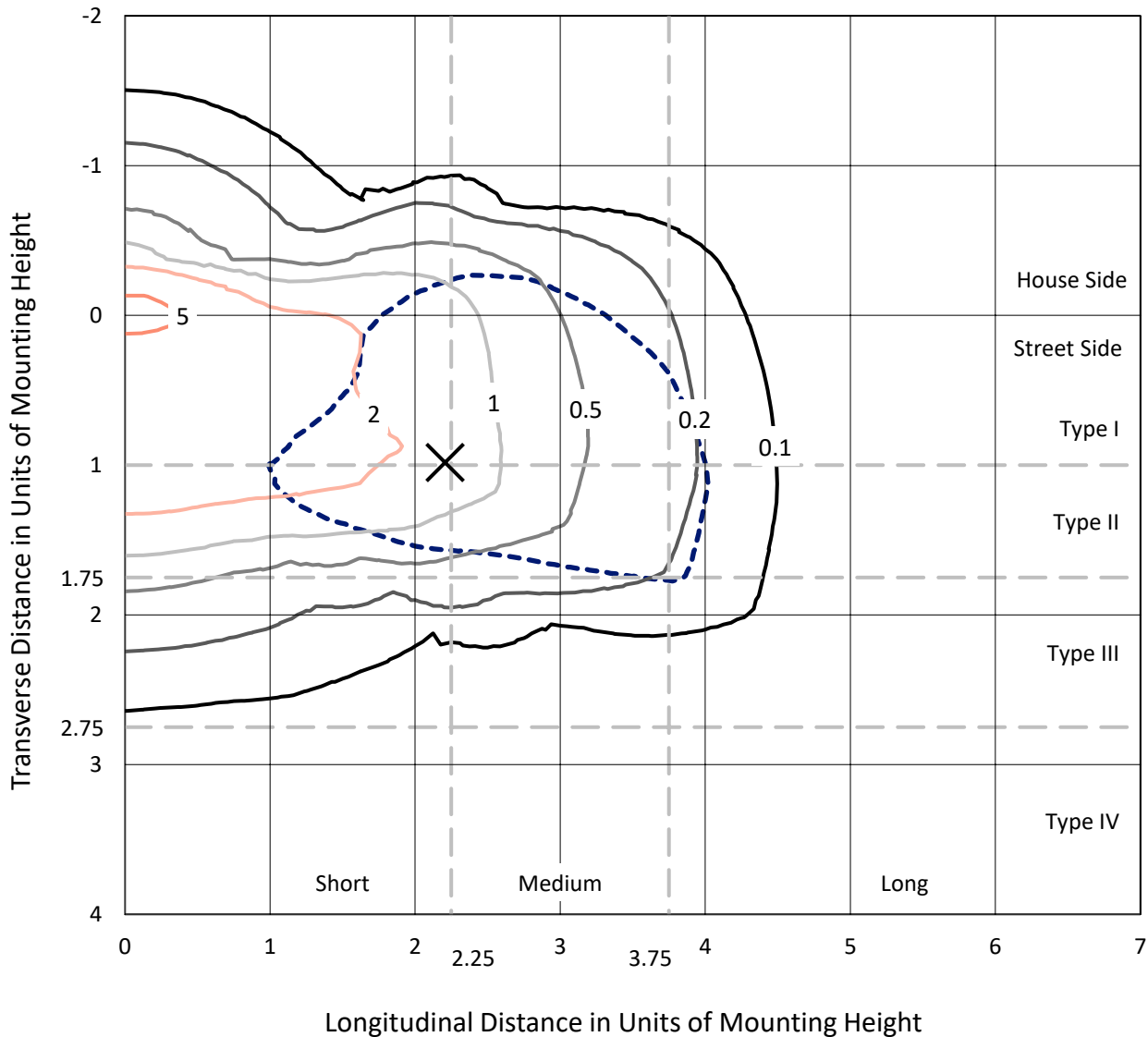
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

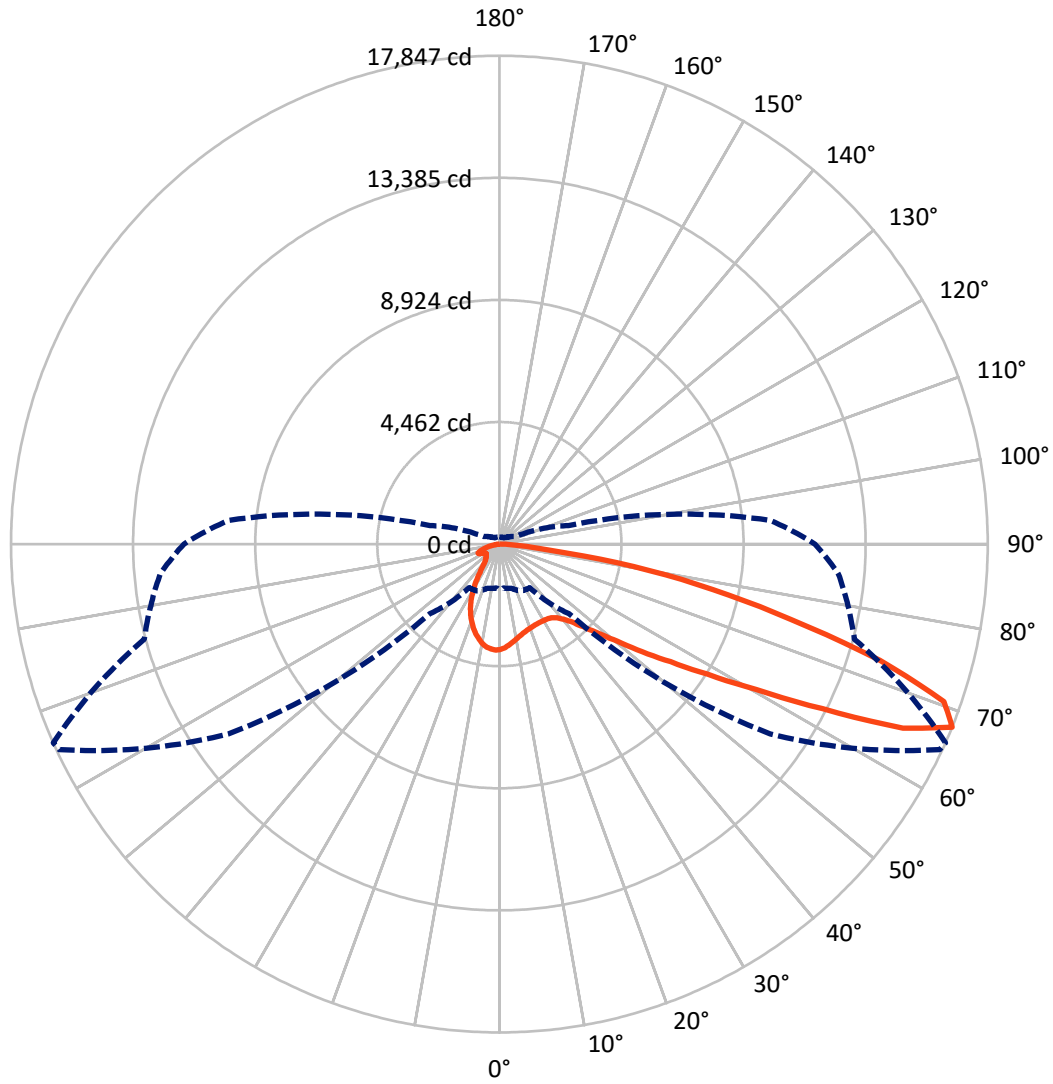
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3540.7	0.0	3540.7
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13907.7	0.0	13907.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	17448.4	0.0	17448.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.4	1.9
10°-20°	831.6	4.8
20°-30°	1143.1	6.6
30°-40°	1562.8	9.0
40°-50°	2368.0	13.6
50°-60°	3681.1	21.1
60°-70°	4481.7	25.7
70°-80°	2730.0	15.6
80°-90°	311.8	1.8
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°	17448.4	100.0
0°-180°	17448.4	100.0

Coefficient of Utilization



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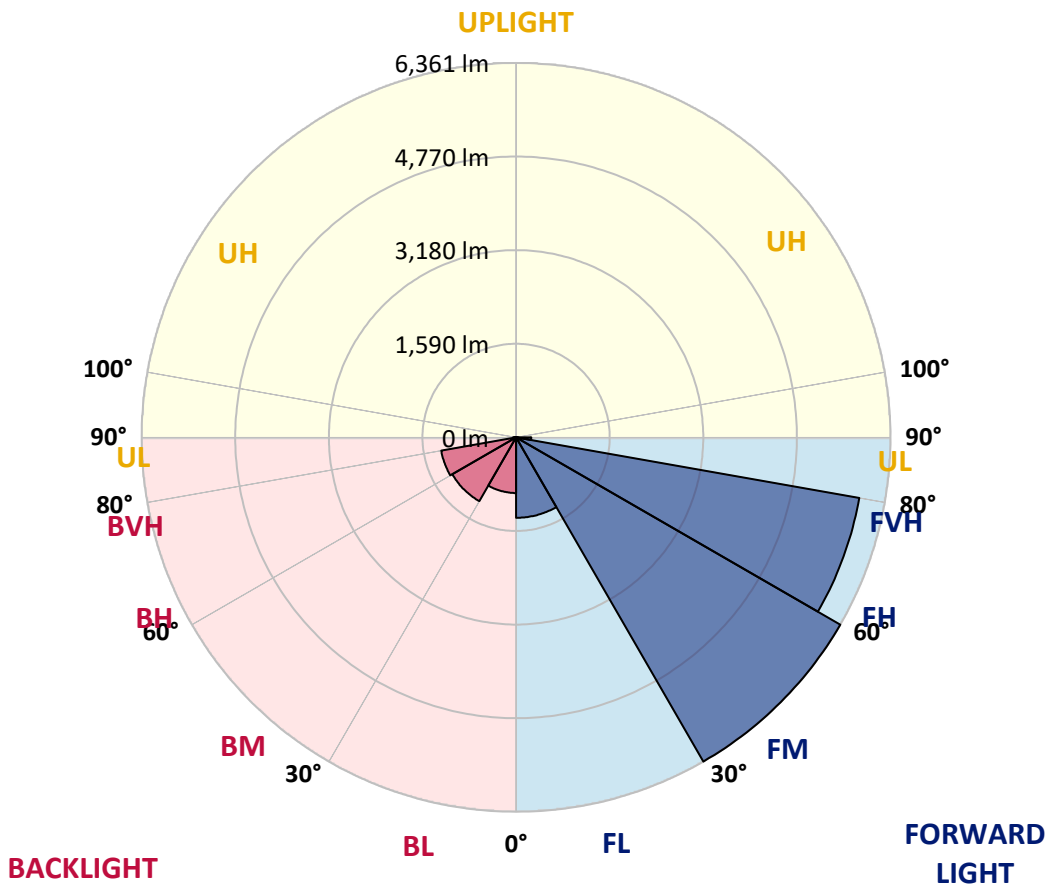
CATALOG NUMBER: GWS-SA5B-740-U-SL2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1367.2	7.8			
FM (30°-60°)	6360.6	36.5			
FH (60°-80°)	5920.7	33.9			G3/7500
FVH (80°-90°)	259.3	1.5			G3/500
BL (0°-30°)	945.9	5.4	B2/1000		
BM (30°-60°)	1251.2	7.2	B2/2500		
BH (60°-80°)	1291.0	7.4	B3/2500		G3/2500
BVH (80°-90°)	52.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6
2.5°	3611.2	3623.9	3616.3	3664.7	3667.2	3728.3	3762.7	3792.0	3794.5	3832.7	3858.1
5°	3364.3	3371.9	3371.9	3417.7	3448.3	3529.7	3608.7	3692.7	3699.0	3790.7	3860.7
7.5°	3164.4	3172.1	3167.0	3228.1	3267.5	3357.9	3458.5	3587.0	3599.7	3747.4	3869.6
10°	3007.9	3005.3	3018.0	3074.0	3125.0	3233.2	3345.2	3491.6	3510.6	3697.8	3879.8
12.5°	2900.9	2903.5	2911.1	2969.7	3024.4	3131.3	3247.2	3406.3	3426.6	3640.5	3874.7
15°	2850.0	2844.9	2851.3	2904.7	2956.9	3051.1	3170.8	3335.0	3355.4	3589.6	3876.0
17.5°	2838.6	2834.7	2833.5	2871.7	2911.1	2998.9	3113.5	3280.3	3301.9	3556.5	3883.6
20°	2874.2	2869.1	2855.1	2871.7	2888.2	2962.0	3072.8	3240.8	3265.0	3534.8	3898.9
22.5°	2972.2	2963.3	2941.7	2921.3	2899.7	2944.2	3047.3	3211.5	3235.7	3520.8	3914.2
25°	3121.1	3113.5	3090.6	3044.8	2965.8	2958.2	3042.2	3198.8	3223.0	3510.6	3920.5
27.5°	3326.1	3314.6	3291.7	3225.5	3097.0	3010.4	3061.3	3197.5	3220.4	3499.2	3914.2
30°	3569.2	3561.6	3548.8	3468.6	3296.8	3121.1	3104.6	3207.7	3225.5	3492.8	3901.4
32.5°	3816.1	3808.5	3818.7	3780.5	3569.2	3304.4	3198.8	3235.7	3248.4	3491.6	3890.0
35°	4033.8	4042.7	4116.5	4122.9	3915.4	3552.7	3347.7	3300.6	3303.2	3517.0	3895.1
37.5°	4261.7	4296.0	4392.8	4475.5	4302.4	3881.1	3569.2	3422.8	3420.3	3581.9	3926.9
40°	4563.3	4578.6	4702.1	4857.4	4749.2	4331.7	3883.6	3622.7	3604.8	3714.3	4012.2
42.5°	4857.4	4894.3	5091.6	5269.8	5234.1	4839.5	4279.5	3921.8	3890.0	3948.5	4187.8
45°	5231.6	5267.2	5488.7	5717.8	5782.8	5413.6	4786.1	4346.9	4315.1	4301.1	4509.9
47.5°	5605.8	5642.7	5841.3	6172.3	6400.1	6131.5	5445.4	4908.3	4856.1	4801.4	4996.1
50°	5857.9	5901.1	6090.8	6487.9	7022.6	7027.7	6227.0	5644.0	5577.8	5491.3	5680.9
52.5°	5849.0	5877.0	6057.7	6516.0	7470.6	8057.4	7273.3	6580.9	6527.4	6339.0	6504.5
55°	5389.4	5431.4	5613.5	6186.3	7519.0	9033.7	8811.0	7685.7	7590.3	7253.0	7435.0
57.5°	4466.6	4502.2	4685.5	5392.0	7090.0	9534.0	10763.6	9093.6	8962.5	8248.4	8458.4
60°	3371.9	3328.6	3415.2	4033.8	6064.1	9546.7	12487.1	11002.9	10784.0	9312.5	9488.2
62.5°	2530.5	2487.2	2506.3	2680.7	4111.5	8775.3	13469.8	13614.9	13253.4	10514.1	10479.8
65°	1999.7	1975.5	2030.3	2149.9	2396.9	6682.7	13477.4	16439.4	16211.6	11906.7	11496.8
67.5°	1629.3	1614.0	1670.0	1891.5	1943.7	3590.8	12084.9	17758.2	17847.3	13431.6	12440.0
70°	1312.4	1289.4	1377.3	1668.8	1807.5	2172.8	8657.0	17086.1	17229.9	14340.4	12174.0
72.5°	906.3	907.6	952.1	1351.8	1745.1	1876.2	4896.8	14227.2	14539.0	13516.9	10702.5
75°	611.0	616.1	628.8	892.3	1607.7	1820.2	2609.4	10771.2	10991.5	11172.2	8846.6
77.5°	369.1	371.7	401.0	539.7	1108.7	1699.3	1768.1	7807.9	7981.1	7365.0	5483.6
80°	213.8	222.8	249.5	361.5	748.5	1276.7	1368.4	4787.4	4983.4	3273.9	1742.6
82.5°	94.2	100.6	136.2	210.0	436.6	1085.8	1068.0	1891.5	1863.5	912.7	604.6
85°	16.5	20.4	29.3	66.2	160.4	572.8	828.7	835.0	785.4	346.2	250.8
87.5°	0.0	0.0	0.0	0.0	0.0	3.8	124.7	224.0	222.8	98.0	86.6
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°	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6	3855.6
2.5°	3874.7	3840.3	3870.9	3874.7	3868.3	3863.2	3825.1	3792.0	3788.1	3752.5	3752.5
5°	3888.7	3856.9	3872.1	3842.9	3797.0	3750.0	3668.5	3612.5	3587.0	3541.2	3541.2
7.5°	3907.8	3874.7	3856.9	3784.3	3677.4	3574.3	3443.2	3333.7	3289.2	3224.2	3221.7
10°	3925.6	3883.6	3822.5	3681.2	3510.6	3346.4	3155.5	3000.2	2894.6	2816.9	2816.9
12.5°	3924.3	3869.6	3748.7	3539.9	3304.4	3066.4	2811.8	2577.6	2437.6	2316.7	2309.0
15°	3921.8	3846.7	3654.5	3375.7	3063.9	2734.2	2388.0	2082.5	1875.0	1756.6	1746.4
17.5°	3919.2	3817.4	3548.8	3188.6	2771.1	2321.8	1864.8	1533.8	1360.7	1288.2	1290.7
20°	3919.2	3784.3	3435.5	2973.5	2433.8	1827.9	1368.4	1127.8	1084.5	1088.3	1092.1
22.5°	3907.8	3743.6	3309.5	2739.3	2058.3	1344.2	1009.4	927.9	950.9	986.5	991.6
25°	3881.1	3676.1	3163.1	2479.6	1611.5	978.9	823.6	808.3	850.3	894.8	907.6
27.5°	3839.1	3598.5	2998.9	2175.4	1186.3	786.6	724.3	723.0	756.1	789.2	800.7
30°	3794.5	3511.9	2825.8	1836.8	859.2	684.8	660.6	660.6	677.2	697.5	695.0
32.5°	3742.3	3424.1	2640.0	1484.2	700.1	627.5	619.9	616.1	618.6	626.3	626.3
35°	3697.8	3346.4	2449.1	1111.2	627.5	595.7	588.1	579.2	575.3	570.3	572.8
37.5°	3681.2	3285.3	2251.8	837.6	591.9	572.8	560.1	547.3	538.4	535.9	534.6
40°	3707.9	3259.9	2054.5	689.9	566.4	548.6	534.6	518.1	510.4	510.4	510.4
42.5°	3812.3	3279.0	1853.3	623.7	548.6	528.3	507.9	492.6	490.1	492.6	493.9
45°	4003.3	3352.8	1644.6	590.6	533.3	507.9	483.7	472.2	472.2	474.8	474.8
47.5°	4344.4	3546.3	1438.4	570.3	518.1	491.3	465.9	454.4	453.2	455.7	455.7
50°	4935.0	3895.1	1252.5	556.3	506.6	478.6	453.2	437.9	434.1	432.8	432.8
52.5°	5679.7	4499.7	1134.2	546.1	492.6	464.6	439.1	418.8	411.1	407.3	407.3
55°	6579.6	5305.4	1134.2	538.4	474.8	448.1	418.8	398.4	387.0	381.9	381.9
57.5°	7599.2	6243.6	1330.2	532.1	460.8	429.0	397.1	376.8	364.0	356.4	356.4
60°	8636.6	7235.1	1815.1	523.2	448.1	404.8	373.0	353.9	337.3	328.4	327.1
62.5°	9712.2	8327.3	2454.1	528.3	439.1	381.9	347.5	325.9	311.9	302.9	301.7
65°	10697.4	9367.2	3012.9	567.7	440.4	361.5	318.2	299.1	287.7	276.2	274.9
67.5°	11533.7	9941.3	2620.9	647.9	467.2	337.3	288.9	269.9	259.7	252.0	250.8
70°	10948.2	9065.6	1486.7	697.5	504.1	311.9	255.9	243.1	232.9	227.8	226.6
72.5°	9362.1	7675.6	994.1	616.1	459.5	278.8	225.3	215.1	207.5	201.1	199.8
75°	7583.9	6087.0	759.9	505.3	357.7	226.6	193.5	185.8	178.2	171.8	170.6
77.5°	4487.0	3517.0	560.1	399.7	252.0	176.9	160.4	154.0	146.4	141.3	140.0
80°	1432.0	1222.0	355.1	274.9	166.7	136.2	123.5	118.4	110.7	104.4	103.1
82.5°	546.1	472.2	188.4	140.0	110.7	92.9	82.7	77.6	72.6	66.2	64.9
85°	241.9	226.6	104.4	75.1	59.8	45.8	40.7	38.2	31.8	26.7	25.5
87.5°	85.3	85.3	44.6	21.6	12.7	6.4	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)