

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: P641998

Luminaire Tested: GWS-SA6C-722-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-722-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20087 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

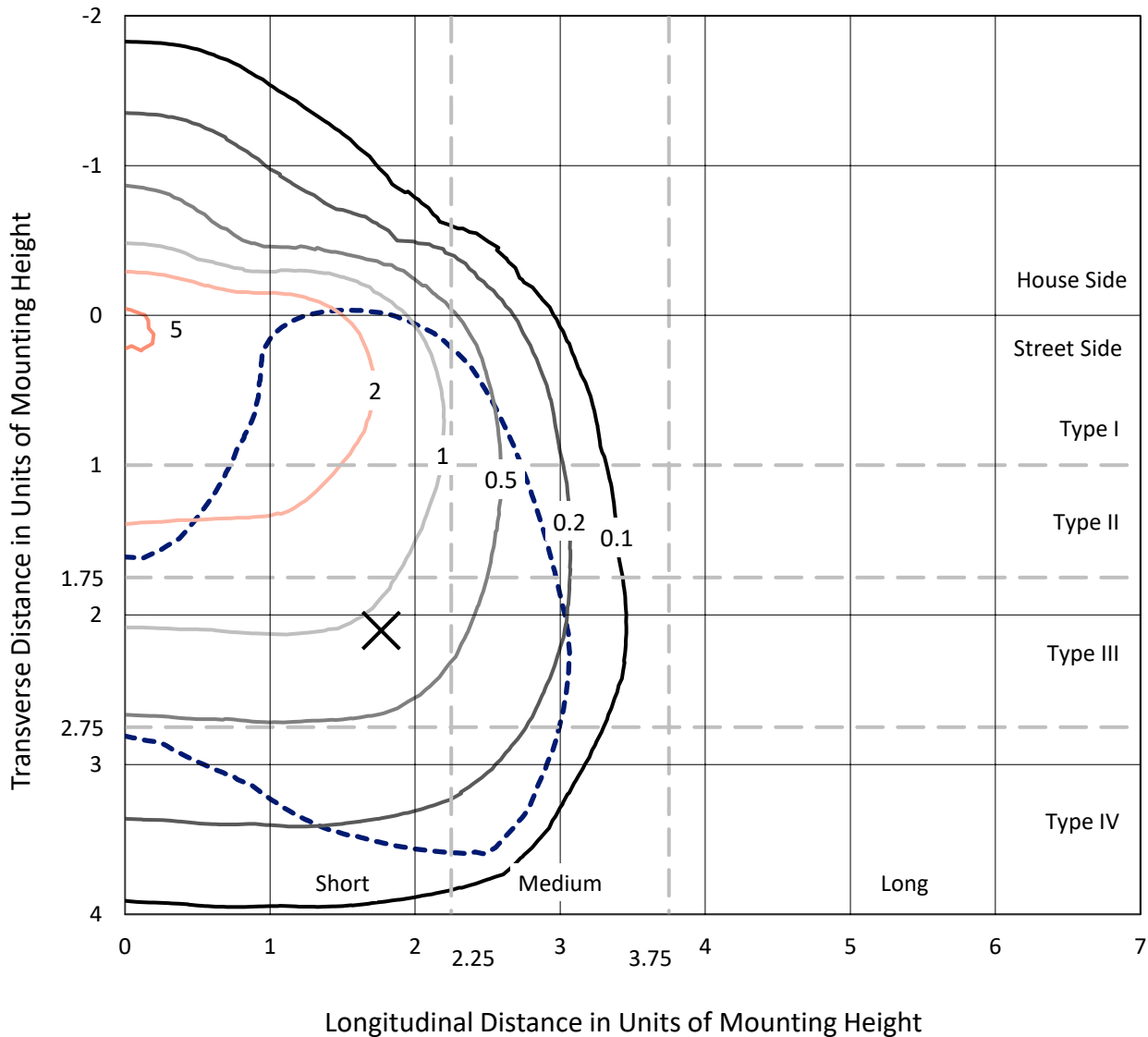
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

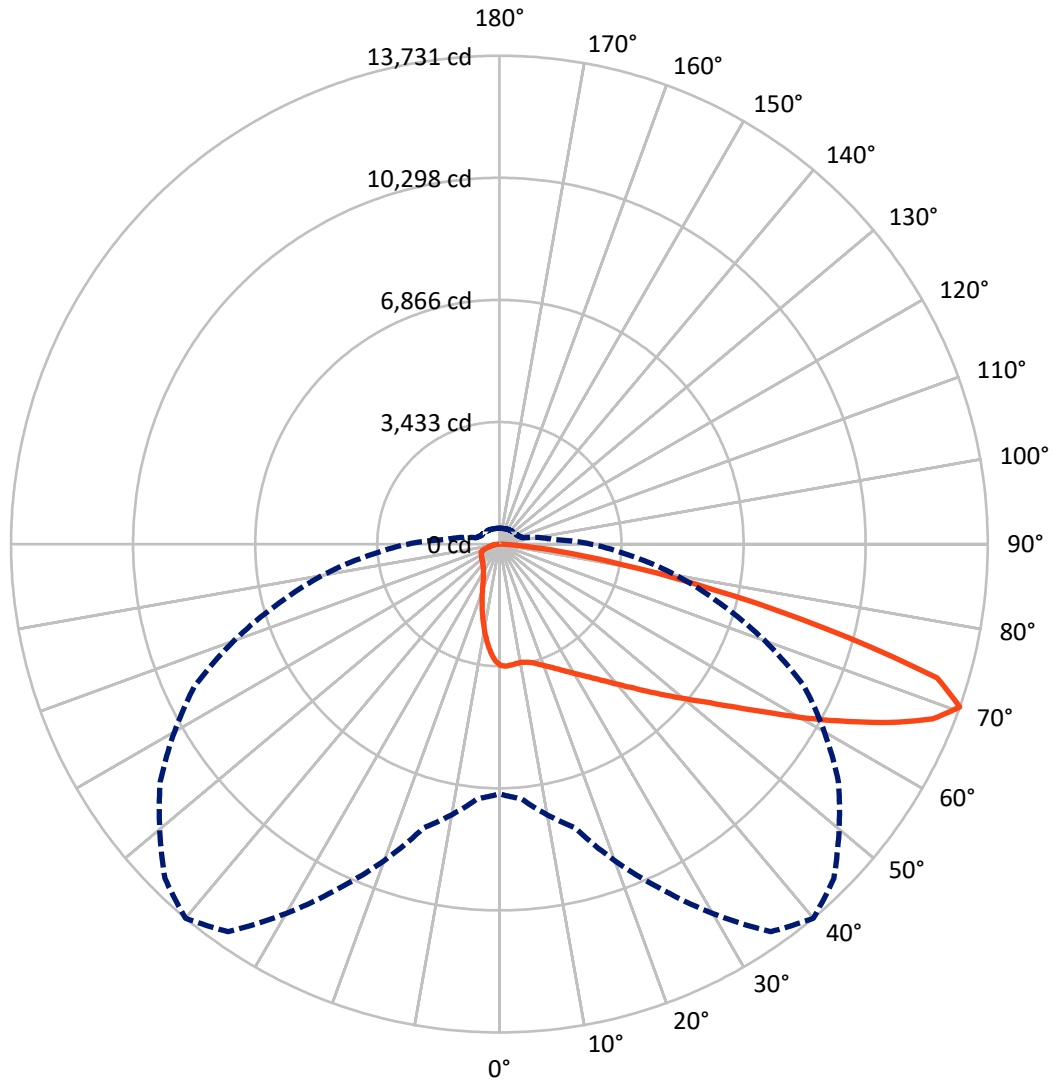
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3093.9	0.0	3093.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	16993.1	0.0	16993.1
	% Fixture	84.6	0.0	84.6
Total	Lumens	20087.0	0.0	20087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.3	1.5
10°-20°	785.5	3.9
20°-30°	1233.3	6.1
30°-40°	1854.3	9.2
40°-50°	2862.2	14.2
50°-60°	4250.5	21.2
60°-70°	5357.7	26.7
70°-80°	3098.3	15.4
80°-90°	343.9	1.7
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°	20087.0	100.0
0°-180°	20087.0	100.0

Coefficient of Utilization



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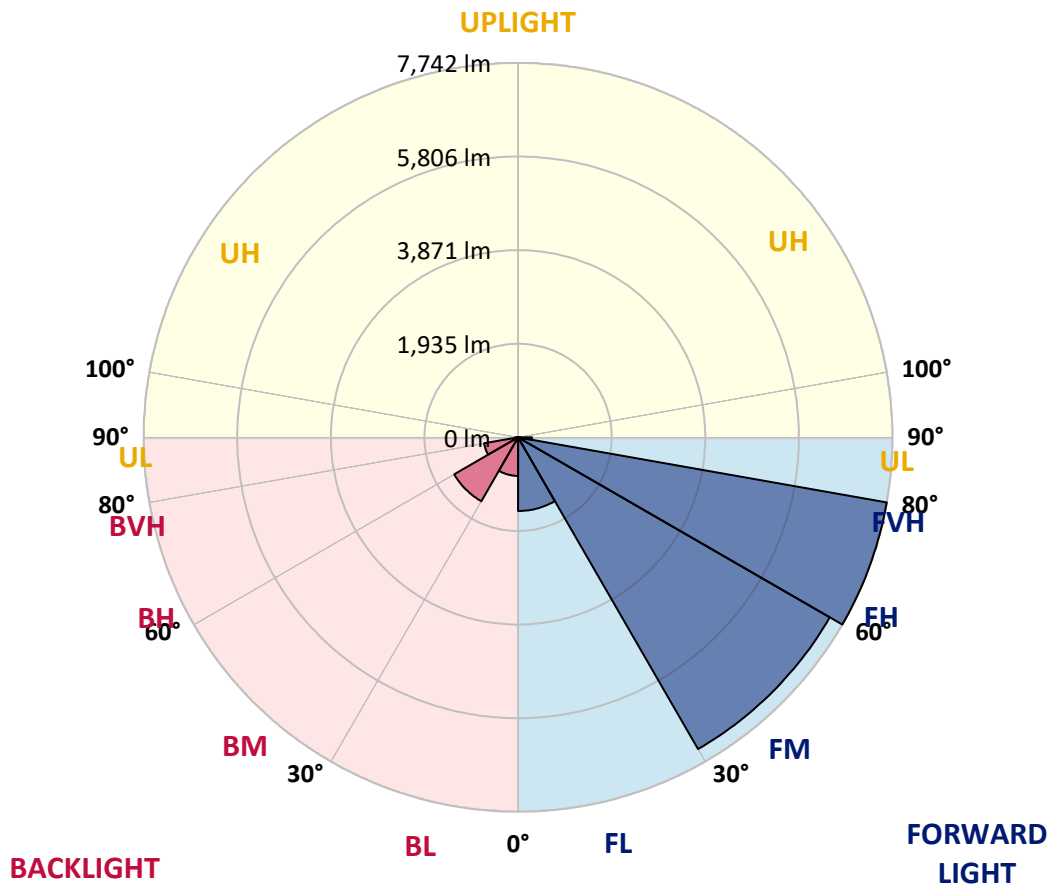
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1522.7	7.6			
FM (30°-60°)	7442.0	37.0			
FH (60°-80°)	7742.0	38.5			G4/12000
FVH (80°-90°)	286.4	1.4			G3/500
BL (0°-30°)	797.3	4.0	B2/1000		
BM (30°-60°)	1525.0	7.6	B2/2500		
BH (60°-80°)	714.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	57.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0
2.5°	3432.0	3438.0	3442.5	3448.5	3445.5	3436.5	3444.0	3444.0	3427.5	3409.5	3393.0
5°	3436.5	3444.0	3442.5	3441.0	3429.0	3414.0	3414.0	3405.0	3376.5	3348.0	3321.0
7.5°	3427.5	3426.0	3424.5	3420.0	3406.5	3390.0	3387.0	3369.0	3331.5	3292.6	3253.6
10°	3387.0	3385.5	3390.0	3400.5	3397.5	3382.5	3382.5	3366.0	3322.5	3274.6	3223.6
12.5°	3354.0	3354.0	3372.0	3400.5	3411.0	3405.0	3406.5	3394.5	3345.0	3288.1	3228.1
15°	3358.5	3360.0	3399.0	3445.5	3465.0	3460.5	3462.0	3448.5	3393.0	3336.0	3255.1
17.5°	3388.5	3396.0	3463.5	3528.0	3553.4	3547.4	3536.9	3514.5	3451.5	3387.0	3288.1
20°	3451.5	3463.5	3550.4	3631.4	3661.4	3647.9	3629.9	3584.9	3516.0	3445.5	3324.0
22.5°	3575.9	3583.4	3679.4	3758.9	3782.8	3766.3	3730.4	3665.9	3586.4	3513.0	3367.5
25°	3751.4	3760.3	3851.8	3925.3	3919.3	3899.8	3850.3	3770.8	3676.4	3598.4	3430.5
27.5°	3959.8	3974.8	4064.7	4123.2	4084.2	4055.7	4000.2	3904.3	3797.8	3727.4	3526.5
30°	4187.7	4193.7	4270.1	4328.6	4268.6	4229.6	4162.2	4058.7	3962.8	3910.3	3670.4
32.5°	4408.1	4414.1	4480.0	4513.0	4450.0	4421.6	4363.1	4253.6	4186.2	4157.7	3884.8
35°	4640.5	4639.0	4692.9	4721.4	4657.0	4645.0	4585.0	4501.0	4489.0	4526.5	4198.2
37.5°	4872.9	4859.4	4887.9	4925.3	4889.4	4901.3	4862.4	4833.9	4880.4	4977.8	4615.0
40°	5058.8	5058.8	5088.8	5135.2	5147.2	5199.7	5177.2	5214.7	5364.6	5597.0	5130.7
42.5°	5223.7	5225.2	5288.2	5360.1	5447.1	5528.1	5546.1	5643.5	5953.9	6318.2	5778.5
45°	5396.1	5397.6	5483.1	5588.0	5772.5	5926.9	5962.9	6181.8	6625.6	7069.4	6481.7
47.5°	5595.5	5579.1	5697.5	5872.9	6135.3	6357.2	6450.2	6760.5	7321.3	7867.0	7144.4
50°	5820.4	5786.0	5917.9	6220.8	6544.6	6849.0	7004.9	7360.3	8068.0	8603.2	7768.1
52.5°	6073.8	6054.3	6192.3	6561.1	7055.9	7406.7	7618.2	8084.5	8793.6	9336.4	8262.9
55°	6388.7	6342.2	6541.6	7010.9	7655.6	8102.4	8352.8	8801.1	9586.8	10002.1	8640.7
57.5°	6733.5	6682.6	6949.4	7573.2	8435.3	8925.6	9238.9	9607.8	10333.5	10511.9	8862.6
60°	7105.4	7088.9	7405.2	8232.9	9364.9	9934.6	10161.0	10495.4	10982.7	10807.3	8807.1
62.5°	7445.7	7439.7	7900.0	8948.1	10350.0	10976.7	11156.6	11245.1	11450.5	10787.8	8366.3
65°	7804.1	7855.1	8477.3	9777.2	11479.0	12093.7	12168.7	11943.8	11607.9	10276.5	7463.7
67.5°	7849.1	7948.0	8840.1	10553.9	12549.5	13129.7	13069.8	12209.1	11143.1	8853.6	5850.4
70°	7019.9	7192.3	8261.4	10672.3	13303.7	13731.0	13297.7	11637.9	9456.3	6414.2	3679.4
72.5°	5865.4	6013.9	6958.4	9101.0	12330.6	12874.8	12288.6	9850.7	6682.6	3679.4	1874.2
75°	4565.5	4737.9	5609.0	7234.3	9231.4	9448.9	9155.0	6870.0	3673.4	1517.3	851.6
77.5°	2785.8	2910.2	3587.9	4901.3	6459.2	6133.8	5198.2	3851.8	1611.8	727.2	526.3
80°	1232.5	1308.9	1767.7	2632.8	3731.9	3528.0	2781.3	1644.8	881.6	461.8	367.3
82.5°	661.2	710.7	871.1	1042.0	1638.8	1713.7	1389.9	947.6	473.8	263.9	209.9
85°	290.9	319.4	395.8	377.8	538.3	529.3	533.8	650.7	226.4	121.4	136.4
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	16.5	87.0	22.5	36.0	31.5
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°	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0	3411.0
2.5°	3375.0	3348.0	3340.5	3331.5	3315.0	3286.6	3265.6	3241.6	3231.1	3219.1	3220.6
5°	3291.1	3258.1	3226.6	3186.1	3135.1	3078.1	3039.2	2994.2	2970.2	2947.7	2953.7
7.5°	3219.1	3168.1	3103.6	3018.2	2926.7	2824.8	2742.3	2677.8	2634.3	2604.4	2619.4
10°	3174.1	3114.1	3001.7	2862.2	2707.8	2551.9	2433.4	2322.5	2253.5	2199.5	2196.5
12.5°	3165.1	3087.1	2923.7	2721.3	2497.9	2289.5	2115.6	1965.6	1874.2	1806.7	1832.2
15°	3174.1	3075.2	2856.2	2590.9	2309.0	2027.1	1811.2	1638.8	1529.3	1467.9	1463.4
17.5°	3184.6	3063.2	2779.8	2449.9	2111.1	1788.7	1538.3	1355.4	1243.0	1181.5	1183.0
20°	3193.6	3045.2	2689.8	2295.5	1910.2	1566.8	1307.4	1133.5	1033.0	988.1	995.6
22.5°	3208.6	3027.2	2593.9	2130.6	1704.8	1352.4	1124.5	983.6	923.6	893.6	895.1
25°	3237.1	3016.7	2494.9	1950.6	1502.3	1181.5	998.6	904.1	866.6	848.6	847.1
27.5°	3295.6	3025.7	2391.5	1776.7	1319.4	1051.0	917.6	856.1	830.6	818.6	817.1
30°	3393.0	3061.7	2301.5	1599.8	1162.0	949.1	862.1	824.6	809.6	799.1	797.6
32.5°	3541.4	3129.1	2204.0	1434.9	1034.5	874.1	818.6	799.1	788.7	782.7	782.7
35°	3766.3	3252.1	2108.1	1290.9	935.6	815.6	784.2	776.7	767.7	764.7	767.7
37.5°	4090.2	3448.5	2021.1	1165.0	865.1	770.7	746.7	749.7	742.2	746.7	751.2
40°	4501.0	3710.9	1947.6	1061.5	812.6	737.7	713.7	724.2	719.7	724.2	731.7
42.5°	5021.3	4036.2	1892.2	980.6	775.2	710.7	688.2	698.7	695.7	701.7	709.2
45°	5601.5	4465.0	1866.7	923.6	748.2	691.2	667.2	674.7	671.7	676.2	683.7
47.5°	6157.8	4854.9	1889.2	890.6	725.7	674.7	649.2	652.2	650.7	649.2	653.7
50°	6637.6	5165.2	1953.6	880.1	710.7	658.2	634.2	635.7	631.2	622.2	625.2
52.5°	7028.9	5414.1	1992.6	880.1	703.2	640.2	617.7	619.2	610.2	598.2	599.7
55°	7286.8	5514.6	1961.1	878.6	700.2	625.2	601.2	602.7	593.7	578.7	580.2
57.5°	7360.3	5417.1	1829.2	862.1	697.2	613.2	584.7	587.7	581.7	565.3	565.3
60°	7154.9	5060.3	1587.8	824.6	689.7	605.7	572.7	577.2	574.2	557.8	557.8
62.5°	6616.6	4426.1	1299.9	767.7	668.7	596.7	562.3	571.2	578.7	569.7	568.3
65°	5609.0	3545.9	1057.0	704.7	641.7	581.7	547.3	569.7	586.2	598.2	598.2
67.5°	4208.7	2538.4	862.1	638.7	601.2	551.8	527.8	548.8	560.8	568.3	572.7
70°	2565.4	1493.3	679.2	562.3	542.8	506.8	488.8	467.8	451.3	448.3	449.8
72.5°	1254.9	854.6	551.8	478.3	463.3	430.3	389.8	380.8	373.3	368.8	367.3
75°	691.2	595.2	455.8	397.3	370.3	329.9	320.9	305.9	302.9	296.9	298.4
77.5°	488.8	469.3	376.3	322.4	281.9	260.9	265.4	254.9	254.9	250.4	248.9
80°	367.3	368.8	289.4	235.4	208.4	200.9	205.4	205.4	202.4	200.9	199.4
82.5°	232.4	262.4	194.9	151.4	148.4	149.9	148.4	146.9	149.9	145.4	143.9
85°	160.4	188.9	118.4	90.0	90.0	88.5	91.5	90.0	93.0	88.5	88.5
87.5°	36.0	84.0	43.5	27.0	28.5	27.0	28.5	30.0	33.0	34.5	34.5
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)