

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: P643506

Luminaire Tested: GWS-SA6F-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32141.4 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

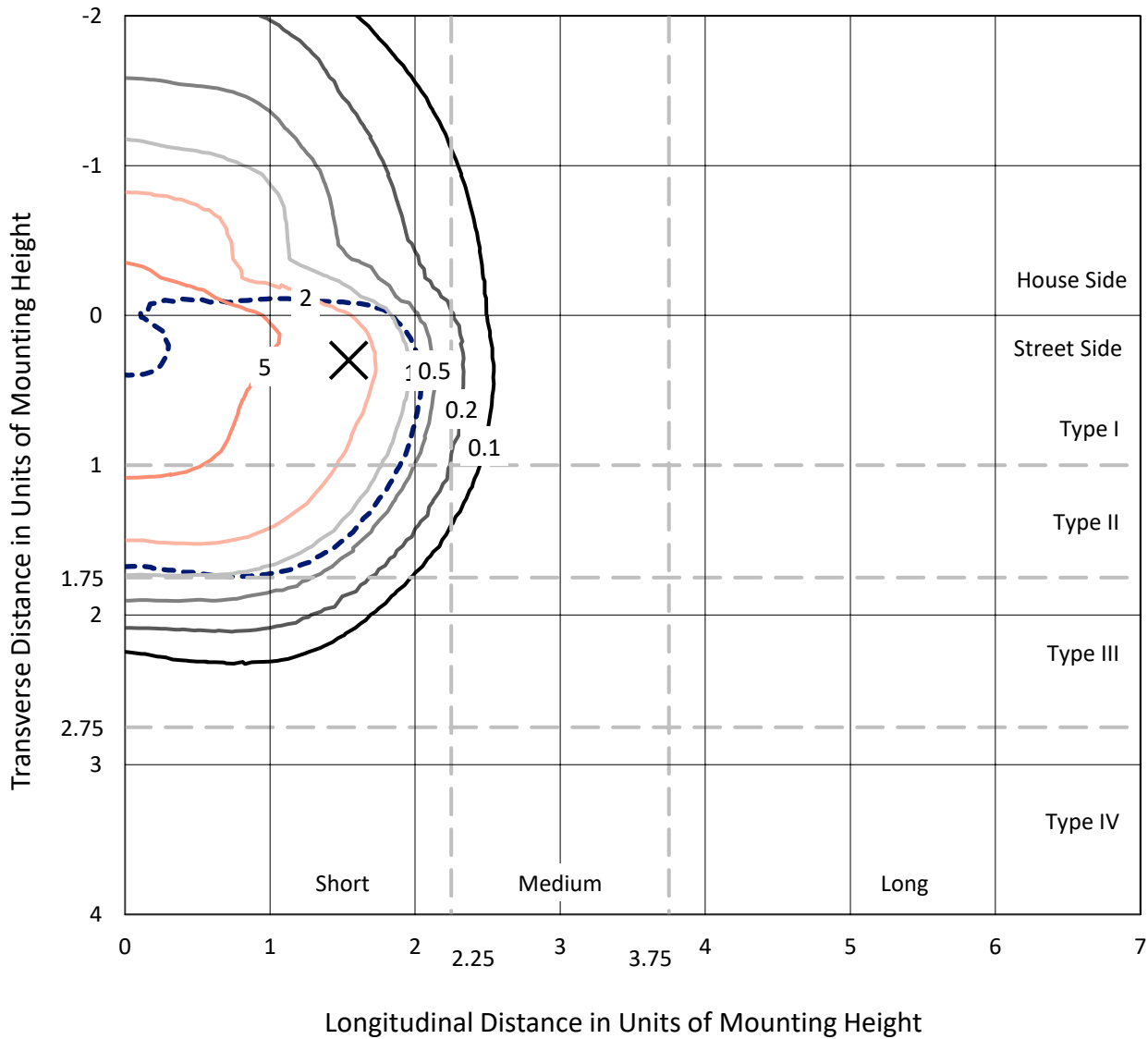
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P643506
 CATALOG NUMBER: GWS-SA6F-722-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

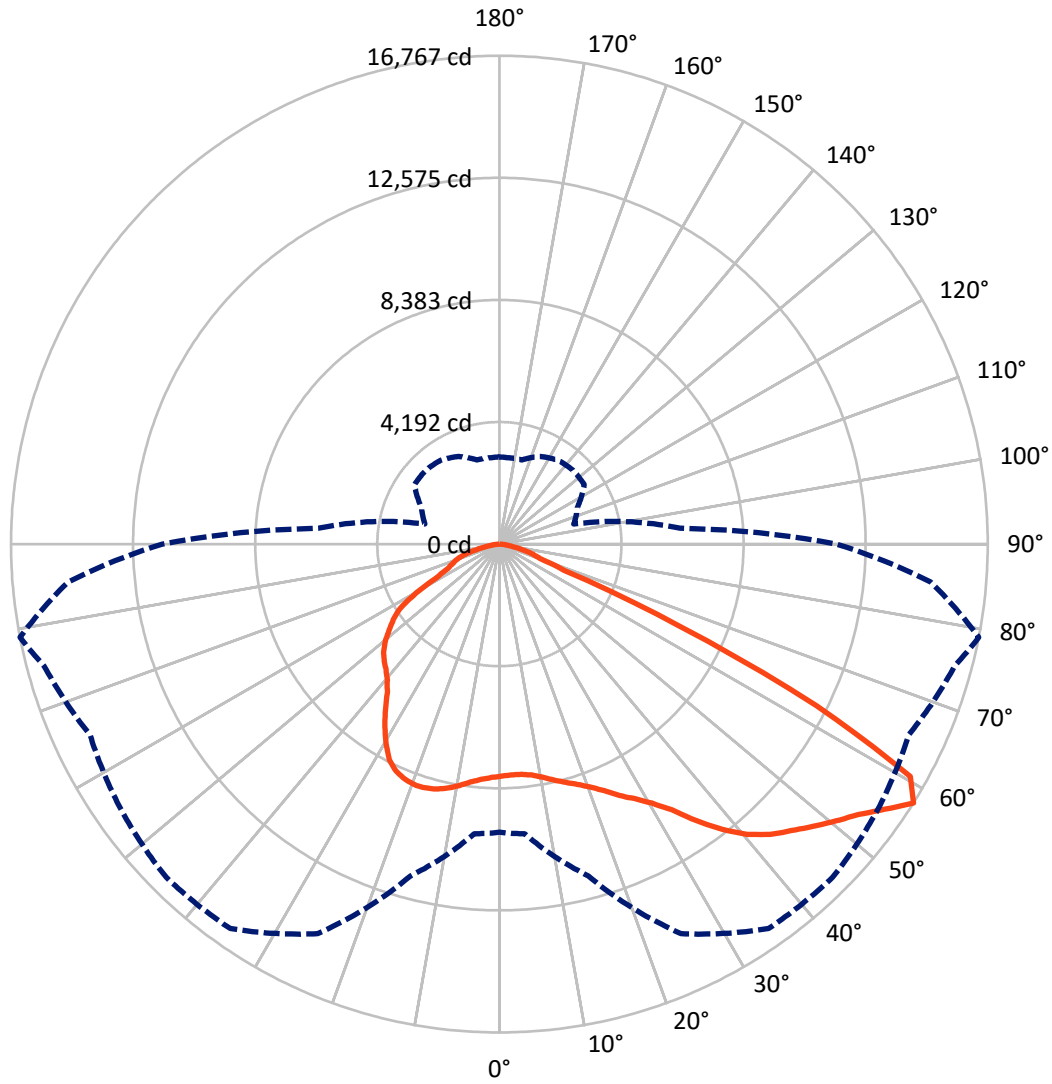
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

REPORT NUMBER: P643506
CATALOG NUMBER: GWS-SA6F-722-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA6F-722-U-T3R-W-GRSWH

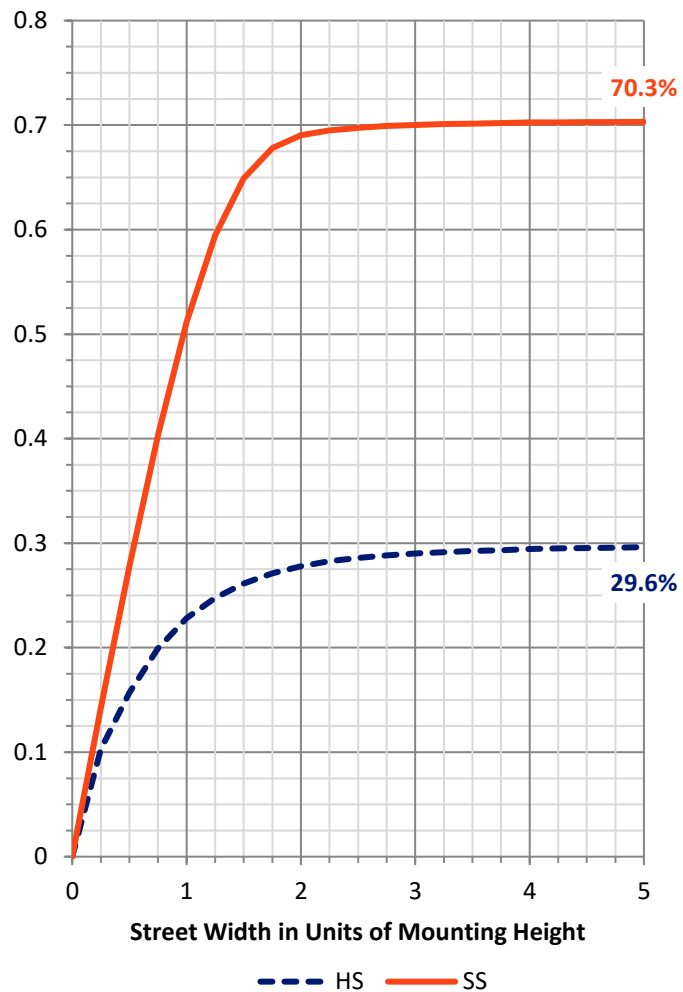
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9554.2	0.0	9554.2
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	22587.2	0.0	22587.2
	% Fixture	70.3	0.0	70.3
Total	Lumens	32141.4	0.0	32141.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	737.7	2.3
10°-20°	2050.0	6.4
20°-30°	3474.8	10.8
30°-40°	5318.6	16.5
40°-50°	7091.9	22.1
50°-60°	8190.5	25.5
60°-70°	4256.1	13.2
70°-80°	904.7	2.8
80°-90°	117.2	0.4
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°	32141.4	100.0
0°-180°	32141.4	100.0

Coefficient of Utilization



REPORT NUMBER: P643506

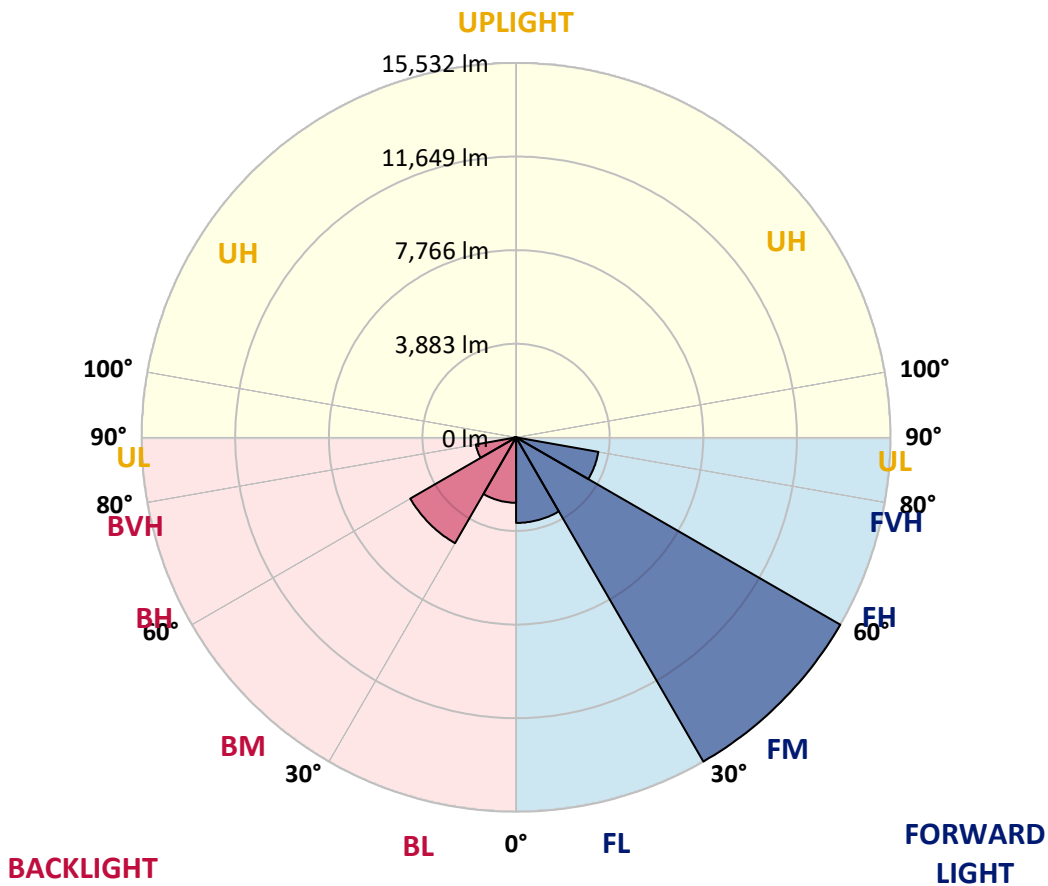
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3549.1	11.0			
FM (30°-60°)	15531.6	48.3			
FH (60°-80°)	3465.6	10.8			G2/5000
FVH (80°-90°)	40.8	0.1			G1/100
BL (0°-30°)	2713.3	8.4	B4/5000		
BM (30°-60°)	5069.4	15.8	B4/8500		
BH (60°-80°)	1695.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	76.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





REPORT NUMBER: P643506

CATALOG NUMBER: GWS-SA6F-722-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4
2.5°	7602.7	7587.0	7592.2	7613.2	7692.1	7749.9	7810.3	7865.5	7918.1	7933.8	7947.0
5°	7332.0	7303.1	7311.0	7345.2	7437.2	7534.4	7642.1	7773.5	7899.7	7941.7	7996.9
7.5°	7140.2	7134.9	7148.1	7200.6	7297.9	7389.9	7529.1	7715.7	7933.8	8004.8	8102.0
10°	6885.3	6874.8	6927.3	7035.1	7195.4	7342.6	7508.1	7728.9	8033.7	8138.8	8288.6
12.5°	6682.9	6677.7	6732.9	6882.7	7087.6	7321.5	7550.2	7797.2	8167.7	8312.3	8496.2
15°	6801.2	6777.5	6780.2	6885.3	7069.2	7345.2	7655.3	7920.7	8301.8	8485.7	8722.2
17.5°	7145.5	7103.4	7071.9	7090.3	7195.4	7481.8	7815.6	8086.3	8456.8	8672.3	8961.4
20°	7621.1	7597.5	7510.7	7452.9	7476.6	7728.9	8067.9	8320.2	8659.2	8900.9	9211.0
22.5°	8259.7	8201.9	8083.6	7991.7	7920.7	8117.8	8430.5	8648.7	8940.4	9192.6	9515.9
25°	9050.7	8966.6	8780.1	8635.5	8483.1	8685.4	8964.0	9129.6	9326.7	9560.6	9868.0
27.5°	9857.5	9786.6	9579.0	9384.5	9195.3	9321.4	9652.5	9747.1	9726.1	9896.9	10159.7
30°	10716.9	10627.5	10430.4	10220.2	9975.8	10057.2	10354.2	10401.5	10178.1	10320.0	10498.7
32.5°	11623.5	11536.8	11366.0	11121.6	10845.6	10877.2	10958.6	11003.3	10790.5	10871.9	11008.6
35°	12545.9	12464.5	12291.0	12049.2	11846.9	11655.1	11450.1	11628.8	11505.3	11662.9	11652.4
37.5°	13389.5	13308.0	13200.3	13013.7	12666.8	12288.4	11815.4	12036.1	12228.0	12427.7	12393.5
40°	13959.8	13904.6	13930.9	13902.0	13455.2	12706.2	11994.1	12235.8	12758.8	13100.4	13082.0
42.5°	14451.2	14396.0	14548.5	14658.8	14133.2	13092.6	12080.8	12312.0	13097.8	13631.3	13605.0
45°	14669.3	14653.6	14905.9	15255.4	14753.4	13502.5	12304.2	12469.7	13355.4	14038.6	13938.8
47.5°	14409.2	14464.4	14961.0	15552.3	15268.5	13988.7	12761.4	12803.5	13691.7	14480.1	14198.9
50°	13891.5	14012.3	14682.5	15560.2	15644.3	14537.9	13394.8	13289.7	14143.7	14950.5	14335.6
52.5°	13137.2	13263.4	14356.6	15499.8	15859.8	15173.9	14238.4	14088.6	14714.0	15420.9	14359.2
55°	11405.4	11576.2	13610.3	15363.1	16070.0	15752.1	15189.7	14884.8	15449.8	16067.4	14593.1
57.5°	9894.3	9983.7	11791.7	14756.1	16112.1	16177.8	15867.7	15505.0	16180.4	16766.5	14855.9
60°	7261.1	7282.1	8908.8	12209.6	14821.8	15930.8	15812.5	15273.8	15833.5	16206.7	13652.3
62.5°	4102.3	4104.9	5403.1	8149.3	11071.6	12984.8	13058.4	12582.7	12112.3	12222.7	9502.7
65°	1540.0	1684.5	2467.7	4005.0	6383.3	7665.8	7970.6	8081.0	7297.9	6811.7	5095.6
67.5°	1030.2	1064.3	1440.1	2060.3	2840.8	3279.7	3668.6	3679.2	2691.0	2399.3	2007.8
70°	785.8	819.9	1132.7	1474.3	1440.1	1329.8	1437.5	1398.1	1445.4	1484.8	1526.9
72.5°	586.0	620.2	877.7	1040.7	864.6	851.5	964.5	1072.2	1172.1	1214.1	1279.8
75°	388.9	415.2	591.3	557.1	478.3	565.0	704.3	812.0	869.9	919.8	969.7
77.5°	247.0	265.4	315.4	254.9	265.4	331.1	410.0	507.2	562.4	612.3	638.6
80°	113.0	110.4	107.7	120.9	149.8	194.5	247.0	304.8	346.9	367.9	383.7
82.5°	44.7	49.9	55.2	65.7	81.5	105.1	139.3	178.7	212.9	218.1	231.3
85°	18.4	21.0	23.7	28.9	36.8	47.3	57.8	81.5	102.5	110.4	118.3
87.5°	0.0	0.0	0.0	0.0	2.6	5.3	7.9	13.1	23.7	26.3	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P643506

CATALOG NUMBER: GWS-SA6F-722-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4	7965.4
2.5°	8017.9	7983.8	8041.6	8081.0	8117.8	8078.4	8065.2	8031.1	8025.8	8025.8	8044.2
5°	8091.5	8067.9	8128.3	8152.0	8149.3	8062.6	8010.1	7941.7	7907.6	7907.6	7912.8
7.5°	8222.9	8209.8	8243.9	8207.2	8123.1	7947.0	7773.5	7629.0	7531.8	7481.8	7497.6
10°	8441.0	8425.3	8396.4	8259.7	8017.9	7652.7	7297.9	7035.1	6877.4	6788.1	6793.3
12.5°	8653.9	8627.6	8525.1	8222.9	7726.2	7145.5	6680.3	6386.0	6212.5	6107.4	6083.8
15°	8887.8	8819.5	8598.7	8033.7	7250.6	6525.3	6039.1	5721.1	5534.5	5471.4	5468.8
17.5°	9111.2	8990.3	8590.8	7697.3	6680.3	5876.1	5387.3	5190.2	5158.7	5187.6	5195.5
20°	9337.2	9142.7	8504.1	7232.2	6002.3	5229.7	4977.4	5058.8	5177.1	5255.9	5274.3
22.5°	9571.1	9268.9	8307.0	6633.0	5287.5	4793.4	4898.5	5077.2	5224.4	5329.5	5340.0
25°	9833.9	9387.1	8012.7	5899.8	4714.6	4672.5	4880.1	5069.4	5227.0	5347.9	5368.9
27.5°	9983.7	9389.7	7600.1	5145.6	4451.8	4625.2	4835.5	5014.2	5171.8	5303.2	5326.9
30°	10130.8	9318.8	6945.7	4533.3	4375.6	4570.0	4759.3	4924.8	5074.6	5203.4	5232.3
32.5°	10338.4	9253.1	6191.5	4181.1	4330.9	4517.5	4672.5	4819.7	4935.3	4993.1	5008.9
35°	10596.0	9169.0	5390.0	4028.7	4302.0	4475.4	4612.1	4690.9	4541.1	4509.6	4543.8
37.5°	10956.0	9090.2	4591.1	3963.0	4283.6	4459.7	4580.6	4378.2	4194.2	4120.7	4146.9
40°	11345.0	9045.5	4049.7	3910.4	4291.5	4475.4	4449.2	4149.6	3884.1	3729.1	3723.8
42.5°	11676.1	8977.2	3702.8	3876.3	4312.5	4535.9	4270.5	3947.2	3553.0	3461.0	3463.7
45°	11899.5	8803.7	3518.9	3839.5	4330.9	4549.0	4186.4	3668.6	3387.5	3329.6	3327.0
47.5°	11991.4	8488.3	3400.6	3781.7	4328.3	4441.3	4015.5	3553.0	3271.8	3256.1	3266.6
50°	11931.0	7970.6	3279.7	3668.6	4265.2	4328.3	3818.4	3450.5	3193.0	3279.7	3342.8
52.5°	11707.6	7300.5	3135.2	3513.6	4152.2	4199.5	3718.6	3387.5	3135.2	3250.8	3300.7
55°	11649.8	6756.5	2951.2	3311.2	3984.0	3970.9	3613.5	3355.9	3095.8	3051.1	3059.0
57.5°	11573.6	6225.7	2646.4	2948.6	3558.3	3579.3	3513.6	3319.1	2993.3	2980.1	2993.3
60°	10054.6	4772.4	2359.9	2543.9	2922.3	3035.3	3400.6	3250.8	2827.7	2772.5	2769.9
62.5°	6567.3	2890.8	2099.7	2218.0	2380.9	2512.3	3101.0	3053.7	2646.4	2612.2	2635.9
65°	3532.0	2060.3	1910.5	1981.5	2070.8	2170.7	2570.2	2720.0	2391.5	2270.6	2273.2
67.5°	1805.4	1752.9	1768.6	1818.6	1886.9	1936.8	2073.5	2204.9	2039.3	1936.8	1934.2
70°	1545.2	1587.3	1610.9	1639.9	1684.5	1676.6	1689.8	1713.4	1700.3	1650.4	1647.7
72.5°	1316.6	1382.3	1387.6	1392.8	1408.6	1371.8	1348.1	1308.7	1311.4	1319.2	1321.9
75°	1001.3	1064.3	1080.1	1072.2	1088.0	1040.7	1009.1	969.7	922.4	914.5	919.8
77.5°	651.7	701.7	725.3	720.1	727.9	691.2	675.4	633.3	578.2	557.1	557.1
80°	394.2	423.1	441.5	446.8	454.6	428.4	402.1	365.3	341.6	318.0	318.0
82.5°	239.1	257.5	270.7	270.7	278.6	249.7	228.6	202.4	191.8	170.8	170.8
85°	120.9	134.0	139.3	136.7	131.4	107.7	99.9	86.7	81.5	71.0	71.0
87.5°	28.9	36.8	36.8	26.3	26.3	13.1	7.9	2.6	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)