

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: P638193

Luminaire Tested: GWS-SA4E-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638193
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31071.4 lumens
Efficiency: N/A
Efficacy: 153.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

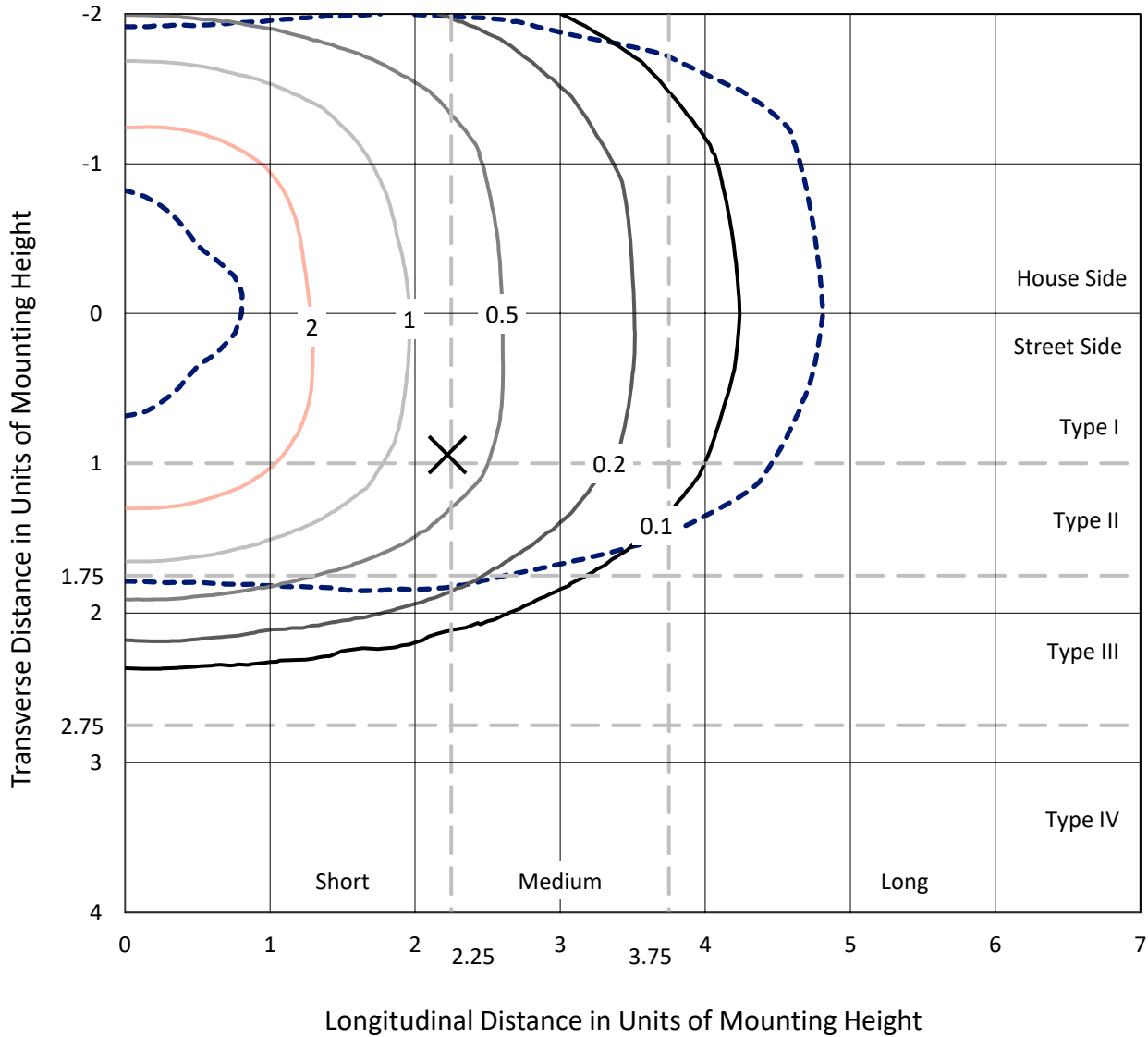
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

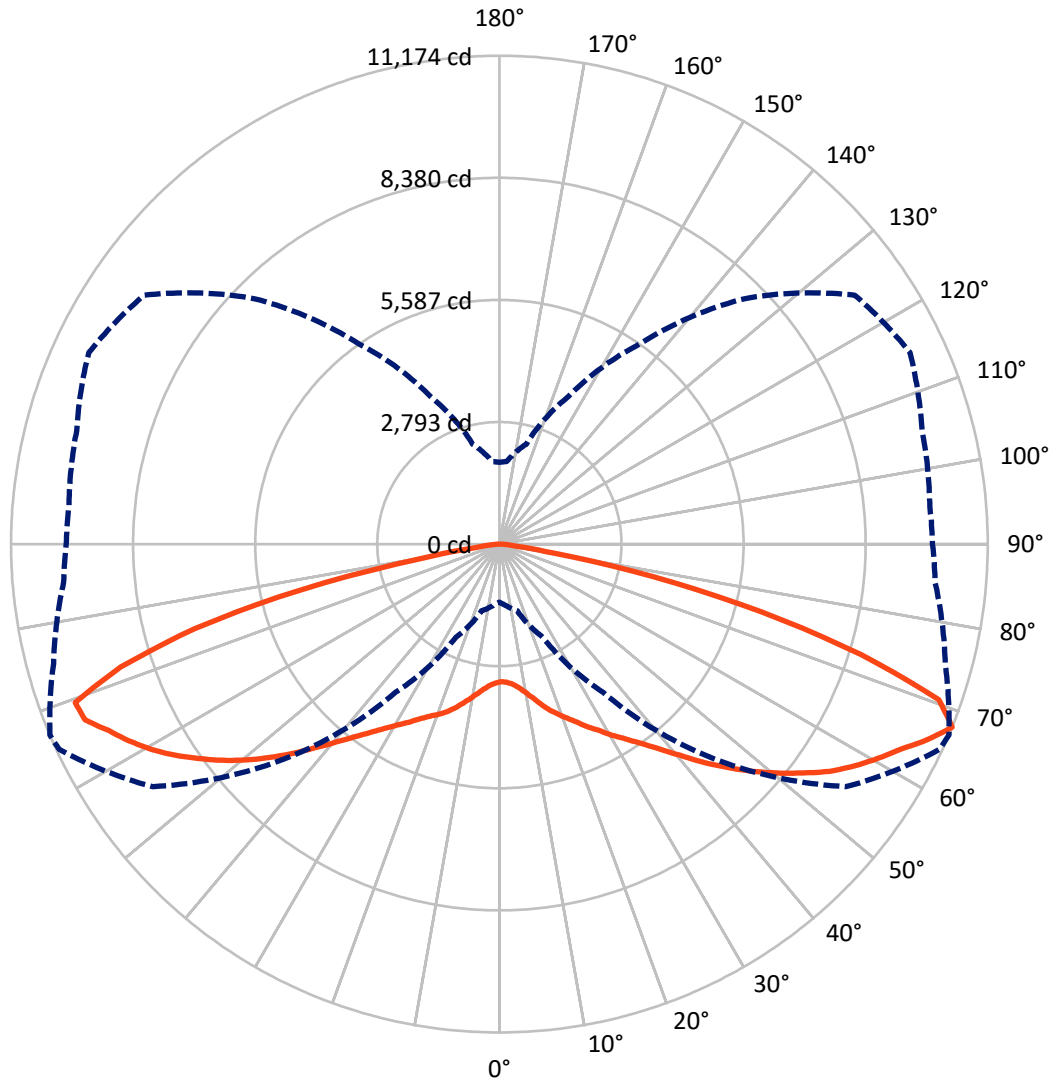
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15364.2	0.0	15364.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	15707.2	0.0	15707.2
	% Fixture	50.6	0.0	50.6
Total	Lumens	31071.4	0.0	31071.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.7	1.0
10°-20°	1042.8	3.4
20°-30°	2046.0	6.6
30°-40°	3485.7	11.2
40°-50°	5597.4	18.0
50°-60°	7605.7	24.5
60°-70°	7275.4	23.4
70°-80°	3459.0	11.1
80°-90°	250.7	0.8
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°	31071.4	100.0
0°-180°	31071.4	100.0

Coefficient of Utilization



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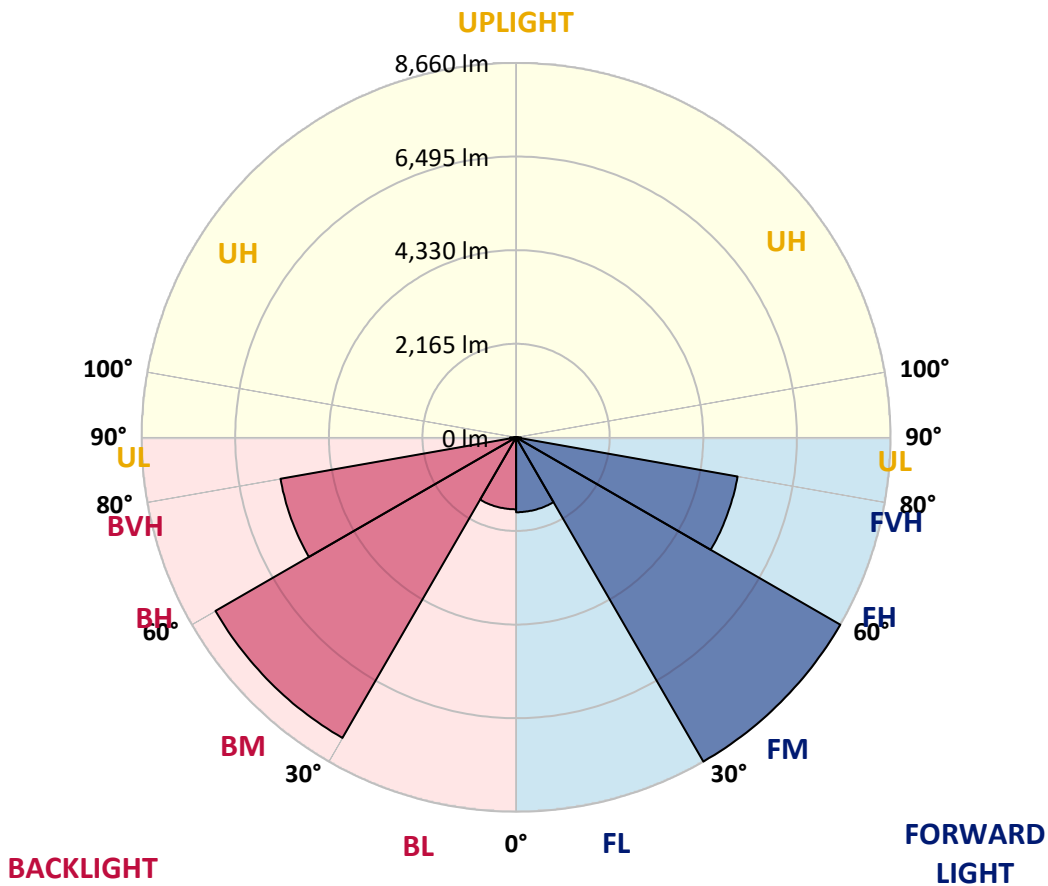
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1732.5	5.6			
FM (30°-60°)	8659.9	27.9			
FH (60°-80°)	5202.2	16.7			G3/7500
FVH (80°-90°)	112.7	0.4			G2/225
BL (0°-30°)	1665.1	5.4	B3/2500		
BM (30°-60°)	8029.0	25.8	B4/8500		
BH (60°-80°)	5532.2	17.8	B5		G5
BVH (80°-90°)	138.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2
2.5°	3081.2	3085.6	3092.1	3105.0	3118.0	3137.5	3157.0	3154.8	3163.5	3170.0	3176.4
5°	3063.9	3068.3	3079.1	3096.4	3115.9	3148.3	3189.4	3206.7	3219.7	3243.5	3265.2
7.5°	3100.7	3109.4	3124.5	3148.3	3178.6	3219.7	3276.0	3306.3	3325.7	3369.0	3405.8
10°	3150.5	3161.3	3191.6	3237.0	3282.5	3345.2	3416.6	3462.1	3475.0	3531.3	3600.5
12.5°	3198.1	3211.1	3260.8	3343.1	3425.3	3509.7	3594.1	3650.3	3654.6	3730.4	3808.3
15°	3273.8	3284.6	3351.7	3457.7	3583.2	3700.1	3803.9	3842.9	3860.2	3914.3	4011.7
17.5°	3440.4	3453.4	3540.0	3654.6	3786.6	3910.0	4013.8	4046.3	4046.3	4091.7	4171.8
20°	3620.0	3633.0	3747.7	3894.8	4054.9	4180.4	4260.5	4230.2	4219.4	4232.4	4288.6
22.5°	3821.3	3845.1	3955.4	4126.3	4323.3	4476.9	4518.0	4427.1	4396.8	4366.5	4379.5
25°	4078.7	4106.9	4215.1	4396.8	4589.4	4751.7	4775.5	4634.8	4617.5	4511.5	4472.6
27.5°	4375.2	4396.8	4531.0	4710.6	4890.2	5026.5	5052.5	4879.3	4820.9	4673.8	4582.9
30°	4758.2	4777.7	4894.5	5071.9	5227.7	5322.9	5355.4	5117.4	5071.9	4846.9	4706.2
32.5°	5175.8	5184.4	5303.5	5474.4	5612.9	5703.8	5658.3	5381.3	5314.3	5061.1	4868.5
35°	5654.0	5654.0	5807.6	5946.1	6056.5	6082.4	5995.9	5680.0	5602.1	5327.3	5087.1
37.5°	6123.5	6136.5	6279.3	6443.8	6541.1	6536.8	6378.9	6032.6	5943.9	5645.3	5379.2
40°	6632.0	6660.1	6803.0	6986.9	7079.9	7066.9	6824.6	6439.4	6348.6	5995.9	5736.2
42.5°	7099.4	7144.8	7311.5	7499.7	7601.4	7592.7	7339.6	6906.8	6818.1	6420.0	6160.3
45°	7471.6	7519.2	7726.9	7988.7	8151.0	8135.9	7880.5	7391.5	7283.3	6865.7	6580.1
47.5°	7798.3	7848.1	8079.6	8356.6	8614.1	8640.0	8406.3	7880.5	7765.8	7343.9	7021.5
50°	8049.3	8073.1	8332.8	8635.7	8934.3	9079.3	8875.9	8371.7	8233.2	7815.6	7452.1
52.5°	8029.8	8062.3	8382.5	8793.6	9193.9	9432.0	9291.3	8834.8	8700.6	8246.2	7891.3
55°	7633.9	7666.3	8047.1	8646.5	9338.9	9689.5	9674.3	9276.2	9178.8	8685.5	8347.9
57.5°	7056.1	7127.5	7506.2	8153.2	9148.5	9895.0	9955.6	9678.6	9576.9	9116.1	8800.1
60°	6021.8	6117.0	6554.1	7393.7	8538.3	9825.8	10256.4	10018.4	9955.6	9516.4	9209.1
62.5°	4375.2	4444.4	5026.5	6127.9	7633.9	9332.4	10509.5	10368.9	10321.3	9875.5	9579.1
65°	2620.4	2778.3	3245.7	4334.1	6158.1	8402.0	10371.1	10827.6	10777.8	10245.6	9895.0
67.5°	1326.4	1397.8	1581.7	2349.9	4141.5	6952.3	9676.5	11113.2	11173.8	10561.5	10007.5
70°	822.2	841.7	893.6	1159.8	2068.6	4567.8	7913.0	10368.9	10665.3	10511.7	9715.4
72.5°	660.0	664.3	672.9	722.7	993.2	2135.7	5002.7	8120.7	8655.2	9817.1	9297.8
75°	547.4	549.6	551.8	566.9	618.8	872.0	2434.3	5580.4	6205.8	8343.6	8620.5
77.5°	439.2	428.4	437.1	443.6	456.6	486.9	839.6	2977.4	3611.4	5476.6	6666.6
80°	285.6	281.3	298.6	305.1	318.1	337.6	447.9	1010.5	1226.9	1992.9	2120.5
82.5°	153.6	145.0	181.8	175.3	181.8	196.9	264.0	370.0	415.4	601.5	508.5
85°	47.6	47.6	49.8	58.4	71.4	69.2	114.7	181.8	201.2	257.5	190.4
87.5°	8.7	8.7	8.7	8.7	8.7	10.8	23.8	36.8	49.8	88.7	67.1
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°	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2	3146.2
2.5°	3189.4	3170.0	3180.8	3187.3	3185.1	3180.8	3159.1	3154.8	3144.0	3126.7	3122.4
5°	3284.6	3263.0	3265.2	3258.7	3237.0	3208.9	3161.3	3137.5	3118.0	3096.4	3094.2
7.5°	3433.9	3410.1	3403.6	3373.4	3312.8	3247.9	3172.1	3128.8	3096.4	3068.3	3063.9
10°	3624.4	3600.5	3578.9	3507.5	3408.0	3321.4	3221.9	3159.1	3111.5	3076.9	3070.4
12.5°	3836.4	3816.9	3762.8	3659.0	3540.0	3438.3	3336.6	3258.7	3189.4	3137.5	3131.0
15°	4072.3	4029.0	3946.8	3812.6	3700.1	3617.9	3494.5	3388.5	3278.1	3208.9	3193.8
17.5°	4236.7	4199.9	4102.5	3972.7	3884.0	3812.6	3667.6	3516.2	3366.9	3265.2	3243.5
20°	4353.5	4314.6	4204.2	4109.0	4080.9	4020.3	3851.5	3676.3	3503.2	3377.7	3349.5
22.5°	4437.9	4396.8	4284.3	4236.7	4275.7	4264.8	4100.4	3901.3	3695.8	3546.5	3511.8
25°	4518.0	4479.0	4379.5	4396.8	4500.7	4533.1	4355.7	4124.2	3890.5	3715.2	3674.1
27.5°	4593.7	4544.0	4498.5	4593.7	4740.9	4801.5	4613.2	4351.4	4098.2	3918.6	3886.2
30°	4710.6	4652.2	4645.7	4784.1	5017.8	5069.8	4862.0	4600.2	4349.2	4167.5	4126.3
32.5°	4857.7	4803.6	4807.9	5015.7	5286.1	5329.4	5152.0	4907.5	4656.5	4474.7	4418.5
35°	5056.8	4989.7	5026.5	5281.8	5554.5	5634.5	5491.7	5288.3	5043.8	4857.7	4795.0
37.5°	5331.6	5234.2	5309.9	5578.3	5853.1	5972.1	5861.7	5710.2	5467.9	5279.7	5221.2
40°	5682.1	5602.1	5632.3	5928.8	6212.2	6355.1	6285.8	6136.5	5896.3	5699.4	5632.3
42.5°	6097.6	6017.5	6006.7	6322.6	6606.1	6822.4	6755.4	6619.0	6370.2	6145.2	6080.3
45°	6504.4	6430.8	6445.9	6768.3	7086.4	7322.3	7255.2	7095.1	6824.6	6564.9	6513.0
47.5°	6928.5	6867.9	6880.9	7222.7	7573.3	7809.1	7724.7	7530.0	7214.1	6937.1	6874.4
50°	7363.4	7294.1	7313.6	7672.8	8051.5	8274.3	8144.5	7856.7	7508.4	7237.9	7183.8
52.5°	7796.1	7713.9	7763.7	8103.4	8495.0	8672.5	8432.3	8083.9	7746.4	7478.1	7417.5
55°	8293.8	8207.3	8153.2	8516.7	8904.0	8977.6	8648.7	8241.9	7841.6	7536.5	7499.7
57.5°	8748.2	8674.6	8572.9	8936.5	9222.1	9168.0	8815.3	8198.6	7610.1	7218.4	7166.5
60°	9155.0	9092.3	9003.5	9313.0	9442.8	9321.6	8681.1	7685.8	7038.8	6629.9	6606.1
62.5°	9529.3	9462.3	9380.0	9644.0	9626.7	9345.4	8070.9	6898.2	6032.6	5593.4	5554.5
65°	9825.8	9765.2	9741.4	9949.1	9921.0	8880.2	7121.0	5608.5	4407.6	3912.1	3897.0
67.5°	9910.2	9886.4	10014.0	10366.7	9927.5	7945.4	5584.7	3719.6	2367.2	1897.6	1869.5
70°	9594.3	9592.1	9957.8	10461.9	9027.3	6069.4	3295.5	1676.9	1190.1	1055.9	1038.6
72.5°	9183.1	9176.6	9466.6	9025.2	6694.8	3321.4	1387.0	898.0	744.3	707.6	707.6
75°	8508.0	8490.7	8709.3	6865.7	3765.0	1250.7	735.7	616.7	584.2	577.7	577.7
77.5°	6935.0	6790.0	6445.9	4243.2	1313.4	614.5	486.9	484.7	465.2	463.1	463.1
80°	2280.6	2280.6	2650.6	1618.5	579.9	378.7	344.0	361.4	341.9	328.9	326.7
82.5°	372.2	512.8	729.2	463.1	313.7	235.9	212.1	225.0	235.9	188.2	188.2
85°	147.1	192.6	281.3	216.4	145.0	95.2	101.7	112.5	99.5	86.6	84.4
87.5°	56.3	69.2	99.5	51.9	30.3	17.3	10.8	10.8	8.7	8.7	8.7
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)