

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: P642593

Luminaire Tested: GWS-SA6D-730-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642593
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-SA6D-730-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33579.7 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

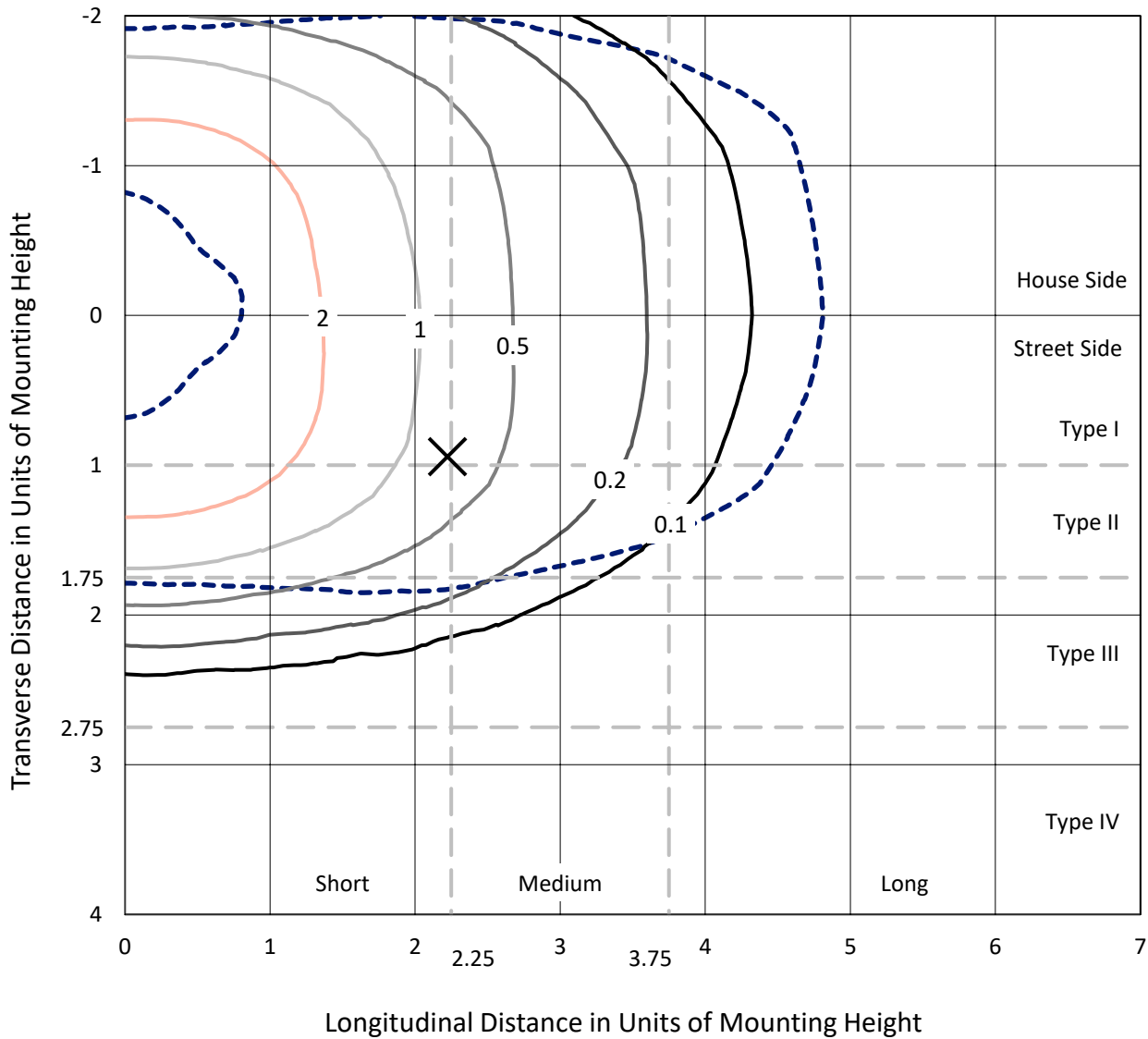
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

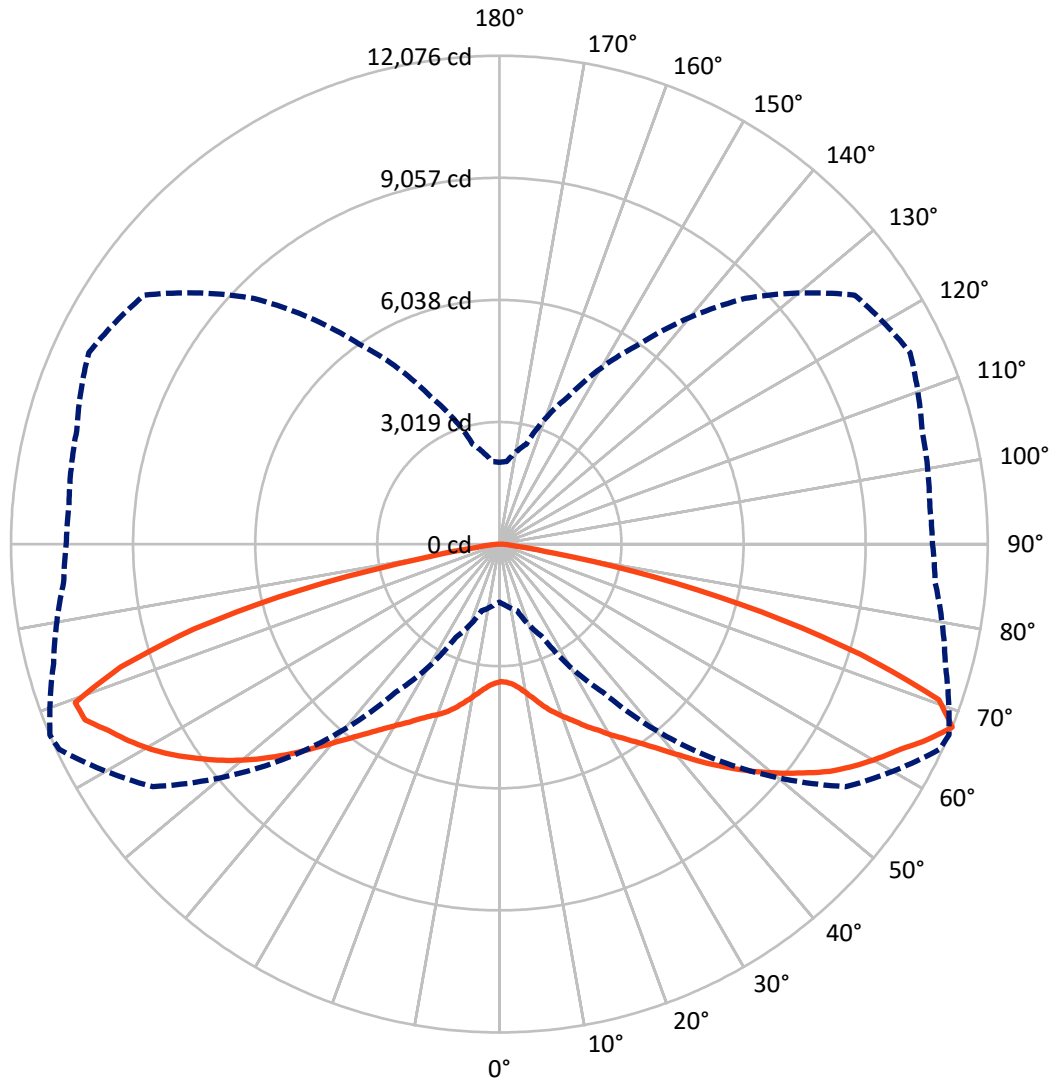
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.4 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	16604.5	0.0	16604.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	16975.1	0.0	16975.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	33579.7	0.0	33579.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.0
10°-20°	1127.0	3.4
20°-30°	2211.2	6.6
30°-40°	3767.1	11.2
40°-50°	6049.3	18.0
50°-60°	8219.7	24.5
60°-70°	7862.7	23.4
70°-80°	3738.2	11.1
80°-90°	270.9	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°	33579.7	100.0
0°-180°	33579.7	100.0

Coefficient of Utilization



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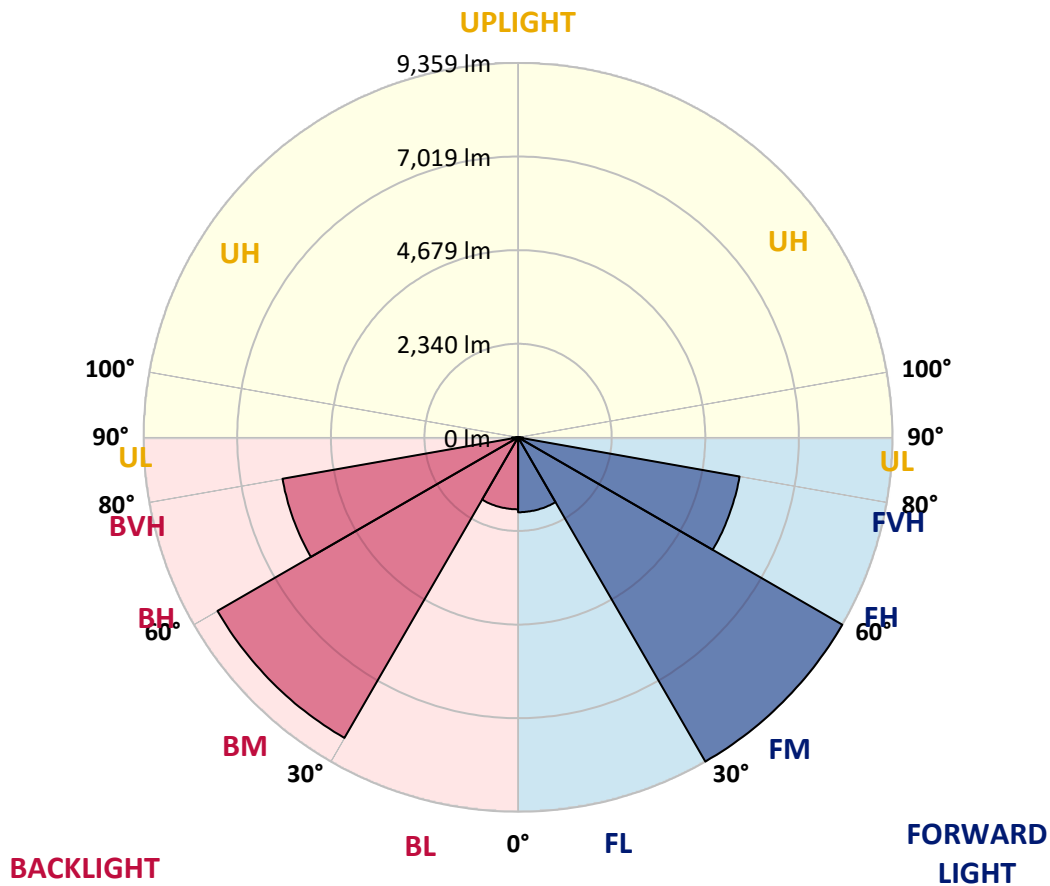
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1872.3	5.6			
FM (30°-60°)	9358.9	27.9			
FH (60°-80°)	5622.1	16.7			G3/7500
FVH (80°-90°)	121.8	0.4			G2/225
BL (0°-30°)	1799.5	5.4	B3/2500		
BM (30°-60°)	8677.1	25.8	B5		
BH (60°-80°)	5978.8	17.8	B5		G5
BVH (80°-90°)	149.1	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°	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1
2.5°	3330.0	3334.7	3341.7	3355.7	3369.7	3390.8	3411.8	3409.5	3418.8	3425.9	3432.9
5°	3311.3	3315.9	3327.6	3346.3	3367.4	3402.5	3446.9	3465.6	3479.6	3505.4	3528.7
7.5°	3351.0	3360.4	3376.7	3402.5	3435.2	3479.6	3540.4	3573.2	3594.2	3641.0	3680.7
10°	3404.8	3416.5	3449.2	3498.3	3547.5	3615.3	3692.4	3741.5	3755.6	3816.4	3891.2
12.5°	3456.3	3470.3	3524.1	3612.9	3701.8	3793.0	3884.2	3945.0	3949.7	4031.5	4115.7
15°	3538.1	3549.8	3622.3	3736.9	3872.5	3998.8	4111.0	4153.1	4171.8	4230.3	4335.5
17.5°	3718.2	3732.2	3825.7	3949.7	4092.3	4225.6	4337.9	4372.9	4372.9	4422.0	4508.6
20°	3912.3	3926.3	4050.2	4209.2	4382.3	4517.9	4604.4	4571.7	4560.0	4574.0	4634.8
22.5°	4129.7	4155.5	4274.7	4459.5	4672.3	4838.3	4882.7	4784.5	4751.8	4719.0	4733.1
25°	4408.0	4438.4	4555.3	4751.8	4959.9	5135.3	5161.0	5009.0	4990.3	4875.7	4833.6
27.5°	4728.4	4751.8	4896.8	5090.8	5284.9	5432.3	5460.3	5273.2	5210.1	5051.1	4952.9
30°	5142.3	5163.3	5289.6	5481.4	5649.7	5752.6	5787.7	5530.5	5481.4	5238.2	5086.2
32.5°	5593.6	5603.0	5731.6	5916.3	6066.0	6164.2	6115.1	5815.8	5743.3	5469.7	5261.6
35°	6110.4	6110.4	6276.4	6426.1	6545.4	6573.4	6479.9	6138.5	6054.3	5757.3	5497.7
37.5°	6617.9	6631.9	6786.2	6964.0	7069.2	7064.5	6893.8	6519.6	6423.8	6101.1	5813.4
40°	7167.4	7197.8	7352.1	7550.9	7651.5	7637.4	7375.5	6959.3	6861.1	6479.9	6199.3
42.5°	7672.5	7721.6	7901.7	8105.1	8215.0	8205.7	7932.1	7464.4	7368.5	6938.2	6657.6
45°	8074.7	8126.2	8350.7	8633.6	8809.0	8792.6	8516.7	7988.2	7871.3	7420.0	7111.3
47.5°	8427.8	8481.6	8731.8	9031.2	9309.4	9337.5	9084.9	8516.7	8392.8	7936.8	7588.3
50°	8699.1	8724.8	9005.4	9332.8	9655.5	9812.2	9592.4	9047.5	8897.9	8446.5	8053.7
52.5°	8678.1	8713.1	9059.2	9503.5	9936.1	10193.4	10041.4	9548.0	9403.0	8911.9	8528.4
55°	8250.1	8285.2	8696.8	9344.5	10092.8	10471.7	10455.3	10025.0	9919.8	9386.6	9021.8
57.5°	7625.7	7702.9	8112.1	8811.3	9887.0	10693.8	10759.3	10460.0	10350.1	9852.0	9510.5
60°	6508.0	6610.8	7083.2	7990.5	9227.6	10619.0	11084.3	10827.1	10759.3	10284.6	9952.5
62.5°	4728.4	4803.2	5432.3	6622.5	8250.1	10085.8	11357.9	11205.9	11154.5	10672.8	10352.4
65°	2831.9	3002.6	3507.7	4684.0	6655.3	9080.3	11208.3	11701.7	11647.9	11072.6	10693.8
67.5°	1433.5	1510.7	1709.4	2539.6	4475.8	7513.5	10457.6	12010.4	12075.8	11414.1	10815.4
70°	888.6	909.7	965.8	1253.4	2235.6	4936.5	8551.8	11205.9	11526.3	11360.3	10499.7
72.5°	713.2	717.9	727.3	781.0	1073.4	2308.1	5406.5	8776.3	9353.9	10609.6	10048.4
75°	591.6	594.0	596.3	612.7	668.8	942.4	2630.8	6030.9	6706.7	9017.1	9316.5
77.5°	474.7	463.0	472.4	479.4	493.4	526.2	907.3	3217.7	3902.9	5918.7	7204.8
80°	308.7	304.0	322.7	329.7	343.8	364.8	484.1	1092.1	1325.9	2153.7	2291.7
82.5°	166.0	156.7	196.4	189.4	196.4	212.8	285.3	399.9	449.0	650.1	549.5
85°	51.4	51.4	53.8	63.1	77.2	74.8	123.9	196.4	217.5	278.3	205.8
87.5°	9.4	9.4	9.4	9.4	9.4	11.7	25.7	39.8	53.8	95.9	72.5
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°	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1	3400.1
2.5°	3446.9	3425.9	3437.5	3444.6	3442.2	3437.5	3414.2	3409.5	3397.8	3379.1	3374.4
5°	3549.8	3526.4	3528.7	3521.7	3498.3	3467.9	3416.5	3390.8	3369.7	3346.3	3344.0
7.5°	3711.1	3685.4	3678.4	3645.7	3580.2	3510.0	3428.2	3381.4	3346.3	3315.9	3311.3
10°	3916.9	3891.2	3867.8	3790.7	3683.1	3589.5	3482.0	3414.2	3362.7	3325.3	3318.3
12.5°	4146.1	4125.1	4066.6	3954.3	3825.7	3715.8	3605.9	3521.7	3446.9	3390.8	3383.8
15°	4401.0	4354.2	4265.4	4120.4	3998.8	3909.9	3776.6	3662.0	3542.8	3467.9	3451.6
17.5°	4578.7	4539.0	4433.7	4293.4	4197.5	4120.4	3963.7	3800.0	3638.7	3528.7	3505.4
20°	4705.0	4662.9	4543.6	4440.7	4410.3	4344.9	4162.5	3973.1	3786.0	3650.3	3619.9
22.5°	4796.2	4751.8	4630.2	4578.7	4620.8	4609.1	4431.4	4216.3	3994.1	3832.7	3795.3
25°	4882.7	4840.6	4733.1	4751.8	4864.0	4899.1	4707.3	4457.1	4204.6	4015.1	3970.7
27.5°	4964.6	4910.8	4861.7	4964.6	5123.6	5189.1	4985.6	4702.7	4429.1	4235.0	4199.9
30°	5090.8	5027.7	5020.7	5170.4	5422.9	5479.0	5254.5	4971.6	4700.3	4503.9	4459.5
32.5°	5249.9	5191.4	5196.1	5420.6	5712.9	5759.6	5567.9	5303.6	5032.4	4836.0	4775.2
35°	5465.0	5392.5	5432.3	5708.2	6002.8	6089.4	5935.0	5715.2	5451.0	5249.9	5182.0
37.5°	5762.0	5656.8	5738.6	6028.6	6325.6	6454.2	6334.9	6171.2	5909.3	5705.9	5642.7
40°	6140.8	6054.3	6087.0	6407.4	6713.7	6868.1	6793.2	6631.9	6372.3	6159.5	6087.0
42.5°	6589.8	6503.3	6491.6	6833.0	7139.3	7373.2	7300.7	7153.4	6884.4	6641.2	6571.1
45°	7029.4	6949.9	6966.3	7314.7	7658.5	7913.4	7840.9	7667.8	7375.5	7094.9	7038.8
47.5°	7487.8	7422.3	7436.3	7805.8	8184.6	8439.5	8348.3	8137.9	7796.5	7497.1	7429.3
50°	7957.8	7883.0	7904.0	8292.2	8701.4	8942.3	8802.0	8491.0	8114.5	7822.2	7763.7
52.5°	8425.5	8336.6	8390.4	8757.6	9180.8	9372.6	9113.0	8736.5	8371.7	8081.7	8016.3
55°	8963.3	8869.8	8811.3	9204.2	9622.8	9702.3	9346.9	8907.2	8474.6	8144.9	8105.1
57.5°	9454.4	9374.9	9265.0	9657.9	9966.5	9908.1	9526.9	8860.5	8224.4	7801.1	7745.0
60°	9894.1	9826.2	9730.4	10064.8	10205.1	10074.1	9381.9	8306.2	7607.0	7165.1	7139.3
62.5°	10298.6	10226.1	10137.3	10422.5	10403.8	10099.8	8722.5	7455.0	6519.6	6044.9	6002.8
65°	10619.0	10553.5	10527.8	10752.3	10721.9	9597.1	7695.9	6061.3	4763.5	4227.9	4211.6
67.5°	10710.2	10684.5	10822.4	11203.6	10728.9	8586.9	6035.6	4019.8	2558.3	2050.8	2020.4
70°	10368.8	10366.4	10761.6	11306.5	9756.1	6559.4	3561.5	1812.3	1286.2	1141.2	1122.5
72.5°	9924.5	9917.4	10230.8	9753.7	7235.2	3589.5	1499.0	970.5	804.4	764.7	764.7
75°	9194.9	9176.1	9412.3	7420.0	4068.9	1351.6	795.1	666.5	631.4	624.4	624.4
77.5°	7494.8	7338.1	6966.3	4585.7	1419.4	664.1	526.2	523.8	502.8	500.4	500.4
80°	2464.7	2464.7	2864.6	1749.2	626.7	409.2	371.8	390.5	369.5	355.4	353.1
82.5°	402.2	554.2	788.1	500.4	339.1	254.9	229.2	243.2	254.9	203.4	203.4
85°	159.0	208.1	304.0	233.8	156.7	102.9	109.9	121.6	107.6	93.5	91.2
87.5°	60.8	74.8	107.6	56.1	32.7	18.7	11.7	11.7	9.4	9.4	9.4
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)