

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: P642648

Luminaire Tested: GWS-SA6D-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642648
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-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36370.4 lumens
Efficiency: N/A
Efficacy: 148.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

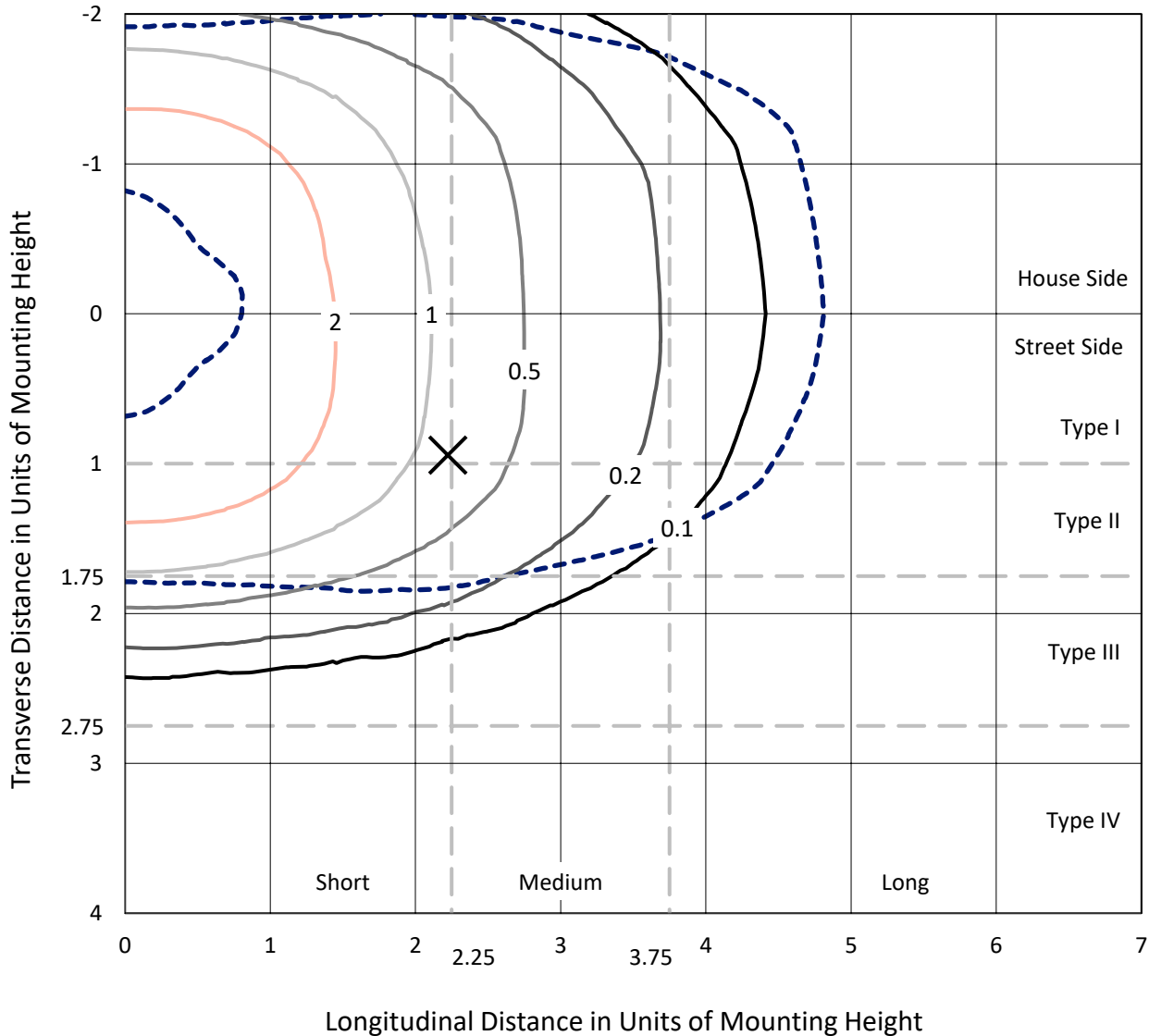
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

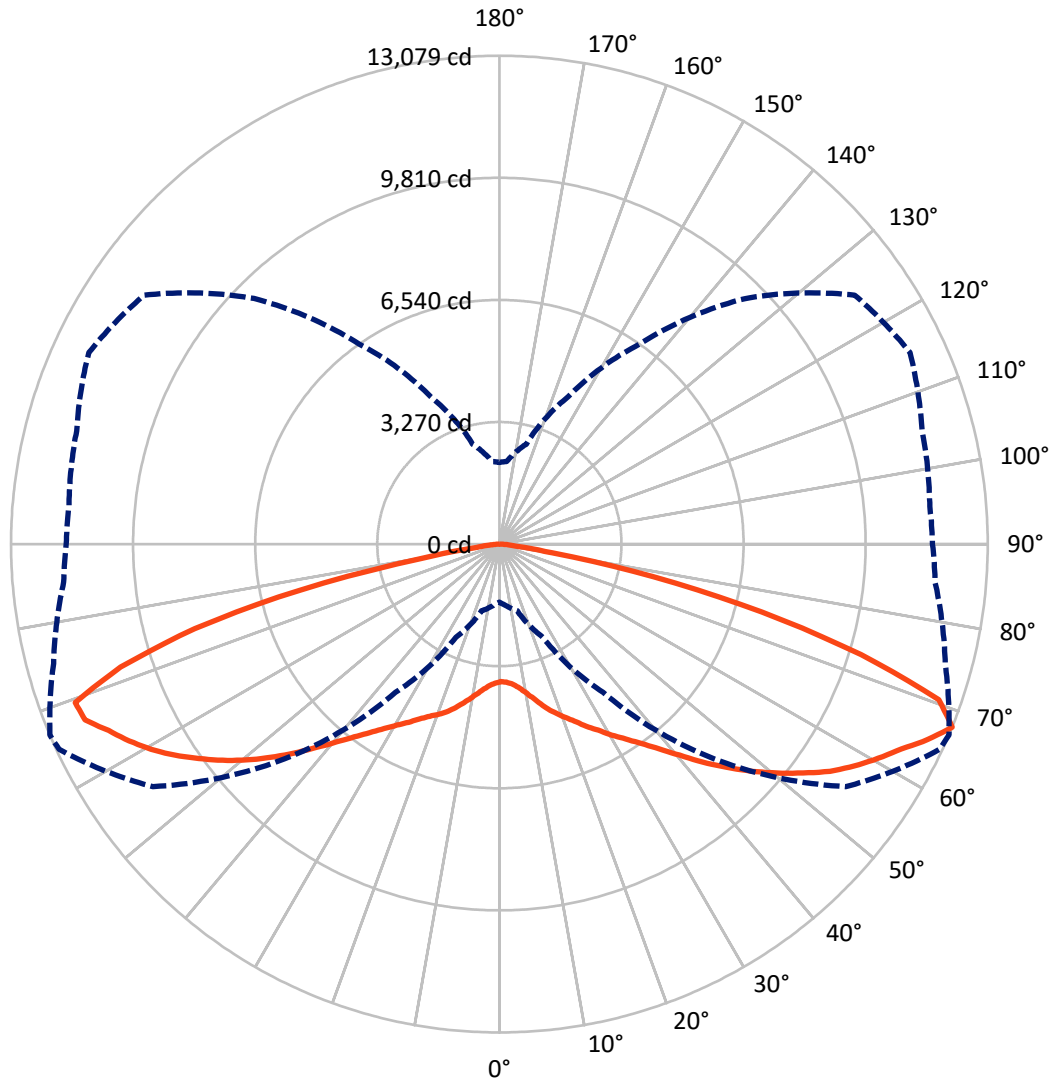
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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	17984.5	0.0	17984.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	18385.9	0.0	18385.9
	% Fixture	50.6	0.0	50.6
Total	Lumens	36370.4	0.0	36370.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.3	1.0
10°-20°	1220.7	3.4
20°-30°	2394.9	6.6
30°-40°	4080.2	11.2
40°-50°	6552.0	18.0
50°-60°	8902.8	24.5
60°-70°	8516.1	23.4
70°-80°	4048.9	11.1
80°-90°	293.4	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°	36370.4	100.0
0°-180°	36370.4	100.0

Coefficient of Utilization



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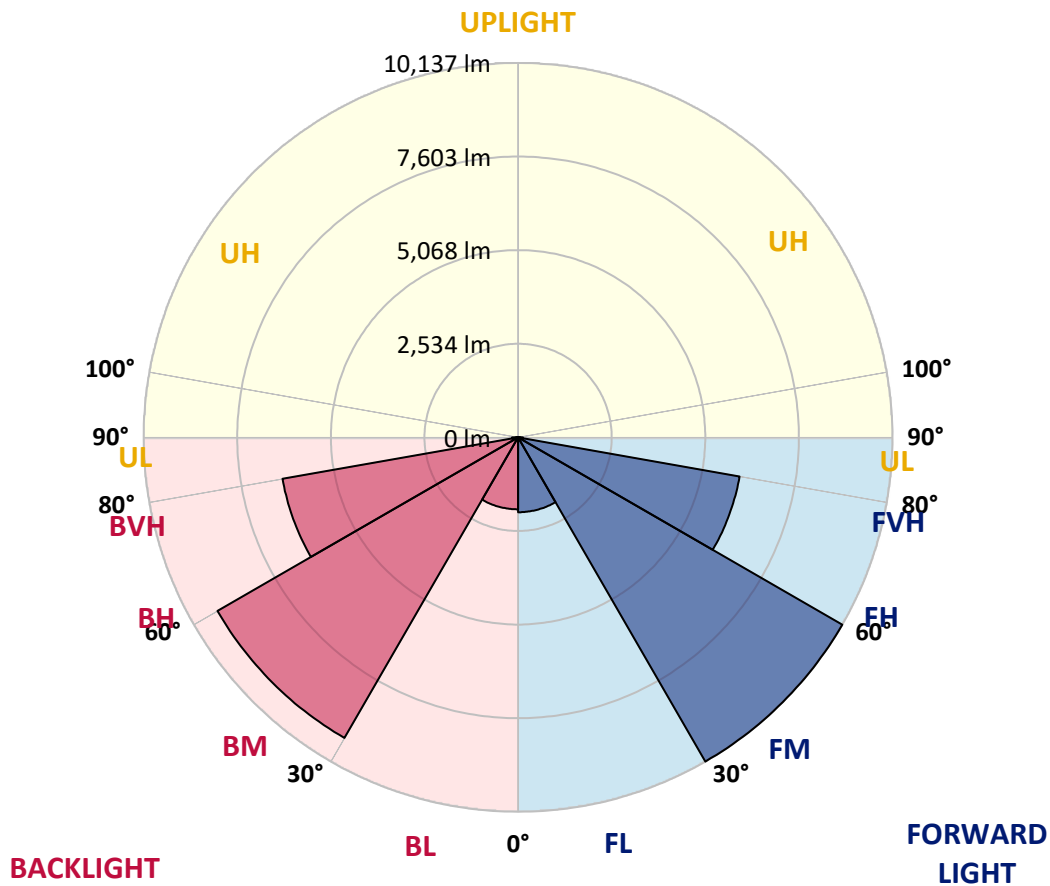
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.9	5.6			
FM (30°-60°)	10136.7	27.9			
FH (60°-80°)	6089.4	16.7			G3/7500
FVH (80°-90°)	131.9	0.4			G2/225
BL (0°-30°)	1949.0	5.4	B3/2500		
BM (30°-60°)	9398.3	25.8	B5		
BH (60°-80°)	6475.7	17.8	B5		G5
BVH (80°-90°)	161.5	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°	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7
2.5°	3606.7	3611.8	3619.4	3634.6	3649.8	3672.6	3695.4	3692.8	3703.0	3710.6	3718.2
5°	3586.5	3591.5	3604.2	3624.5	3647.2	3685.2	3733.4	3753.6	3768.8	3796.7	3822.0
7.5°	3629.5	3639.6	3657.4	3685.2	3720.7	3768.8	3834.7	3870.1	3892.9	3943.6	3986.6
10°	3687.8	3700.4	3735.9	3789.1	3842.3	3915.7	3999.3	4052.5	4067.7	4133.5	4214.6
12.5°	3743.5	3758.7	3816.9	3913.2	4009.4	4108.2	4207.0	4272.9	4277.9	4366.6	4457.7
15°	3832.1	3844.8	3923.3	4047.4	4194.3	4331.1	4452.7	4498.3	4518.5	4581.9	4695.8
17.5°	4027.2	4042.4	4143.7	4277.9	4432.4	4576.8	4698.4	4736.4	4736.4	4789.5	4883.3
20°	4237.4	4252.6	4386.8	4559.1	4746.5	4893.4	4987.1	4951.6	4939.0	4954.2	5020.0
22.5°	4472.9	4500.8	4630.0	4830.1	5060.6	5240.4	5288.5	5182.1	5146.7	5111.2	5126.4
25°	4774.3	4807.3	4933.9	5146.7	5372.1	5562.1	5589.9	5425.3	5405.0	5280.9	5235.3
27.5°	5121.3	5146.7	5303.7	5513.9	5724.2	5883.7	5914.1	5711.5	5643.1	5470.9	5364.5
30°	5569.6	5592.4	5729.2	5936.9	6119.3	6230.7	6268.7	5990.1	5936.9	5673.5	5508.9
32.5°	6058.5	6068.6	6207.9	6408.0	6570.1	6676.5	6623.3	6299.1	6220.6	5924.2	5698.8
35°	6618.2	6618.2	6798.1	6960.2	7089.3	7119.7	7018.4	6648.6	6557.4	6235.8	5954.6
37.5°	7167.9	7183.0	7350.2	7542.7	7656.7	7651.6	7466.7	7061.5	6957.6	6608.1	6296.6
40°	7763.1	7796.0	7963.2	8178.4	8287.4	8272.2	7988.5	7537.6	7431.3	7018.4	6714.5
42.5°	8310.1	8363.3	8558.4	8778.7	8897.8	8887.6	8591.3	8084.7	7980.9	7514.8	7210.9
45°	8745.8	8801.5	9044.7	9351.1	9541.1	9523.4	9224.5	8652.1	8525.4	8036.6	7702.3
47.5°	9128.2	9186.5	9457.5	9781.7	10083.1	10113.5	9840.0	9224.5	9090.3	8596.4	8219.0
50°	9422.1	9449.9	9753.9	10108.4	10458.0	10627.7	10389.6	9799.4	9637.3	9148.5	8723.0
52.5°	9399.3	9437.3	9812.1	10293.3	10761.9	11040.5	10875.9	10341.5	10184.4	9652.5	9237.2
55°	8935.8	8973.7	9419.5	10121.1	10931.6	11341.9	11324.2	10858.2	10744.2	10166.7	9771.6
57.5°	8259.5	8343.1	8786.3	9543.6	10708.7	11582.5	11653.5	11329.3	11210.2	10670.7	10300.9
60°	7048.8	7160.3	7671.9	8654.6	9994.5	11501.5	12005.5	11726.9	11653.5	11139.3	10779.6
62.5°	5121.3	5202.4	5883.7	7172.9	8935.8	10924.0	12301.9	12137.2	12081.5	11559.7	11212.7
65°	3067.2	3252.1	3799.2	5073.2	7208.4	9834.9	12139.8	12674.2	12615.9	11992.9	11582.5
67.5°	1552.6	1636.2	1851.5	2750.6	4847.8	8137.9	11326.7	13008.5	13079.4	12362.6	11714.2
70°	962.5	985.3	1046.1	1357.6	2421.4	5346.8	9262.5	12137.2	12484.2	12304.4	11372.3
72.5°	772.5	777.6	787.7	846.0	1162.6	2499.9	5855.9	9505.6	10131.2	11491.4	10883.5
75°	640.8	643.3	645.9	663.6	724.4	1020.7	2849.4	6532.1	7264.1	9766.5	10090.7
77.5°	514.2	501.5	511.6	519.2	534.4	569.9	982.7	3485.1	4227.3	6410.5	7803.6
80°	334.3	329.3	349.5	357.1	372.3	395.1	524.3	1182.8	1436.1	2332.7	2482.2
82.5°	179.8	169.7	212.8	205.2	212.8	230.5	309.0	433.1	486.3	704.1	595.2
85°	55.7	55.7	58.3	68.4	83.6	81.0	134.2	212.8	235.6	301.4	222.9
87.5°	10.1	10.1	10.1	10.1	10.1	12.7	27.9	43.1	58.3	103.8	78.5
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°	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7	3682.7
2.5°	3733.4	3710.6	3723.2	3730.8	3728.3	3723.2	3697.9	3692.8	3680.2	3659.9	3654.8
5°	3844.8	3819.5	3822.0	3814.4	3789.1	3756.2	3700.4	3672.6	3649.8	3624.5	3621.9
7.5°	4019.6	3991.7	3984.1	3948.7	3877.7	3801.7	3713.1	3662.4	3624.5	3591.5	3586.5
10°	4242.5	4214.6	4189.3	4105.7	3989.2	3887.9	3771.4	3697.9	3642.2	3601.7	3594.1
12.5°	4490.7	4467.9	4404.6	4283.0	4143.7	4024.6	3905.6	3814.4	3733.4	3672.6	3665.0
15°	4766.7	4716.1	4619.8	4462.8	4331.1	4234.9	4090.5	3966.4	3837.2	3756.2	3738.4
17.5°	4959.2	4916.2	4802.2	4650.2	4546.4	4462.8	4293.1	4115.8	3941.1	3822.0	3796.7
20°	5096.0	5050.4	4921.2	4809.8	4776.9	4706.0	4508.4	4303.2	4100.6	3953.7	3920.8
22.5°	5194.8	5146.7	5015.0	4959.2	5004.8	4992.2	4799.7	4566.7	4326.0	4151.3	4110.8
25°	5288.5	5242.9	5126.4	5146.7	5268.2	5306.2	5098.5	4827.5	4554.0	4348.8	4300.7
27.5°	5377.2	5318.9	5265.7	5377.2	5549.4	5620.3	5400.0	5093.5	4797.1	4586.9	4548.9
30°	5513.9	5445.5	5437.9	5600.0	5873.6	5934.4	5691.2	5384.8	5090.9	4878.2	4830.1
32.5°	5686.2	5622.8	5627.9	5871.1	6187.7	6238.3	6030.6	5744.4	5450.6	5237.9	5172.0
35°	5919.2	5840.7	5883.7	6182.6	6501.7	6595.4	6428.3	6190.2	5904.0	5686.2	5612.7
37.5°	6240.8	6126.9	6215.5	6529.6	6851.3	6990.6	6861.4	6684.1	6400.4	6180.1	6111.7
40°	6651.2	6557.4	6592.9	6939.9	7271.7	7438.9	7357.8	7183.0	6901.9	6671.4	6592.9
42.5°	7137.5	7043.7	7031.1	7400.9	7732.7	7985.9	7907.4	7747.9	7456.6	7193.2	7117.2
45°	7613.6	7527.5	7545.2	7922.6	8295.0	8571.0	8492.5	8305.1	7988.5	7684.5	7623.8
47.5°	8110.1	8039.1	8054.3	8454.5	8864.8	9140.9	9042.1	8814.2	8444.4	8120.2	8046.7
50°	8619.2	8538.1	8560.9	8981.3	9424.6	9685.5	9533.5	9196.6	8788.9	8472.2	8408.9
52.5°	9125.7	9029.5	9087.7	9485.4	9943.8	10151.5	9870.4	9462.6	9067.5	8753.4	8682.5
55°	9708.3	9606.9	9543.6	9969.1	10422.5	10508.6	10123.6	9647.5	9178.9	8821.8	8778.7
57.5°	10240.2	10154.0	10035.0	10460.5	10794.8	10731.5	10318.7	9596.8	8907.9	8449.5	8388.7
60°	10716.3	10642.9	10539.0	10901.2	11053.2	10911.3	10161.6	8996.5	8239.2	7760.5	7732.7
62.5°	11154.5	11076.0	10979.7	11288.7	11268.5	10939.2	9447.4	8074.6	7061.5	6547.3	6501.7
65°	11501.5	11430.6	11402.7	11645.9	11612.9	10394.7	8335.5	6565.0	5159.3	4579.3	4561.6
67.5°	11600.3	11572.4	11721.8	12134.7	11620.5	9300.5	6537.2	4353.9	2770.9	2221.3	2188.3
70°	11230.5	11227.9	11656.0	12246.1	10566.9	7104.5	3857.5	1962.9	1393.0	1236.0	1215.7
72.5°	10749.2	10741.6	11081.0	10564.4	7836.5	3887.9	1623.5	1051.1	871.3	828.2	828.2
75°	9959.0	9938.7	10194.6	8036.6	4407.1	1464.0	861.2	721.9	683.9	676.3	676.3
77.5°	8117.7	7948.0	7545.2	4966.8	1537.4	719.3	569.9	567.3	544.6	542.0	542.0
80°	2669.6	2669.6	3102.7	1894.5	678.8	443.2	402.7	423.0	400.2	385.0	382.5
82.5°	435.6	600.3	853.6	542.0	367.3	276.1	248.2	263.4	276.1	220.4	220.4
85°	172.2	225.4	329.3	253.3	169.7	111.4	119.0	131.7	116.5	101.3	98.8
87.5°	65.9	81.0	116.5	60.8	35.5	20.3	12.7	12.7	10.1	10.1	10.1
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)