

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: P637697

Luminaire Tested: GWS-SA4D-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21292 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

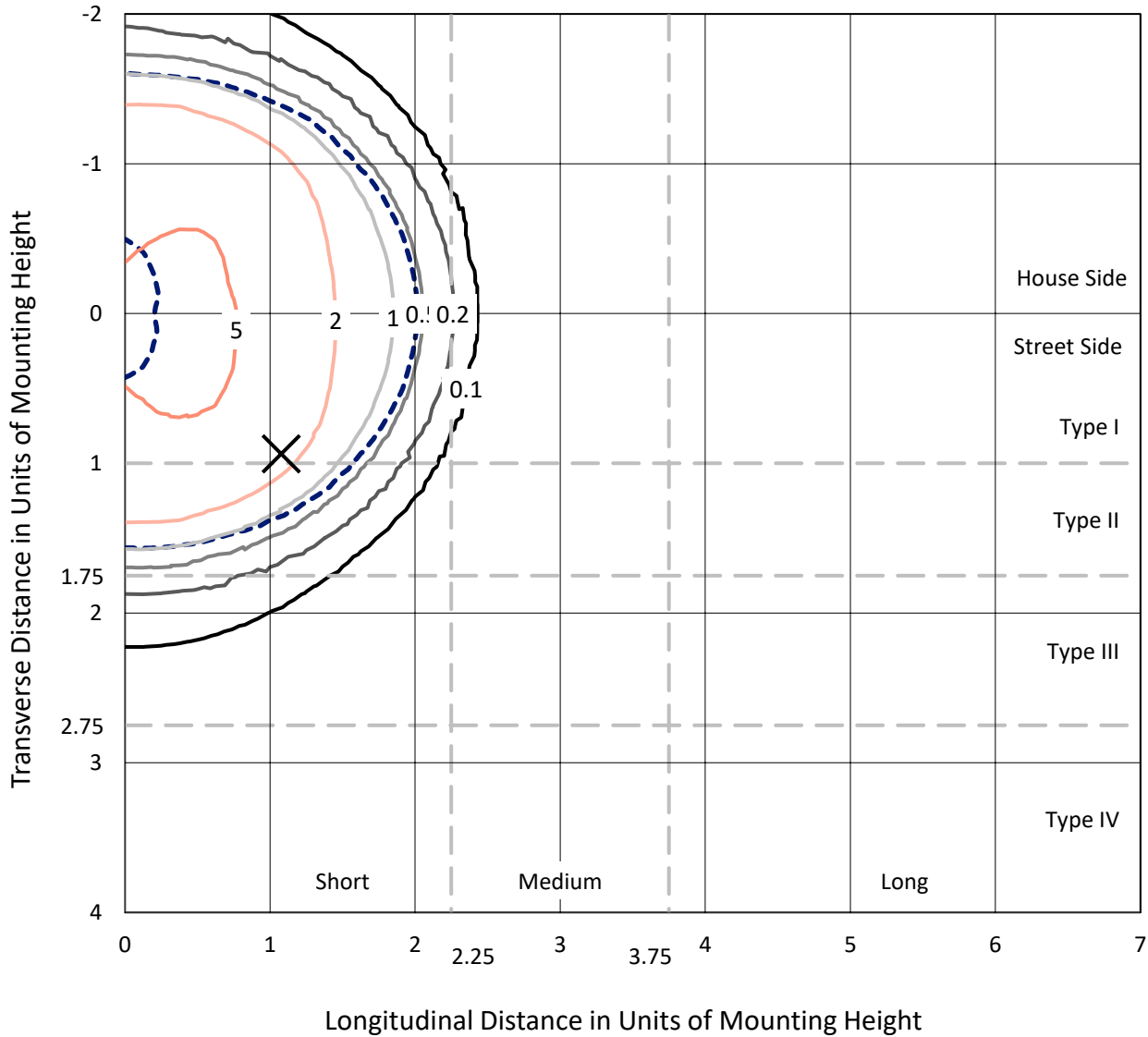
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

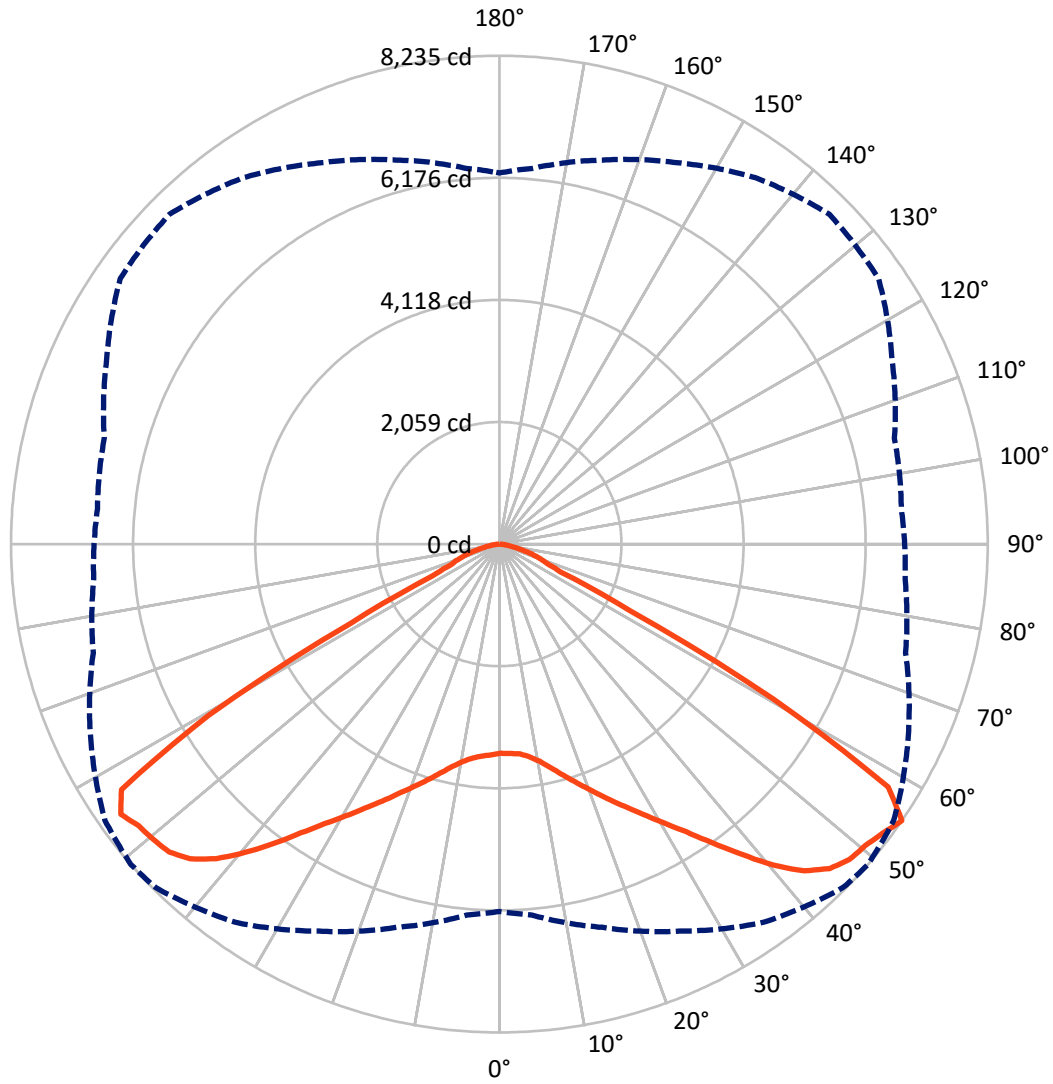
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10541.6	0.0	10541.6
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	10750.5	0.0	10750.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	21292.0	0.0	21292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.1	1.6
10°-20°	1134.9	5.3
20°-30°	2161.7	10.2
30°-40°	3664.5	17.2
40°-50°	5514.8	25.9
50°-60°	6036.5	28.4
60°-70°	1908.8	9.0
70°-80°	458.1	2.2
80°-90°	68.7	0.3
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°	21292.0	100.0
0°-180°	21292.0	100.0

Coefficient of Utilization



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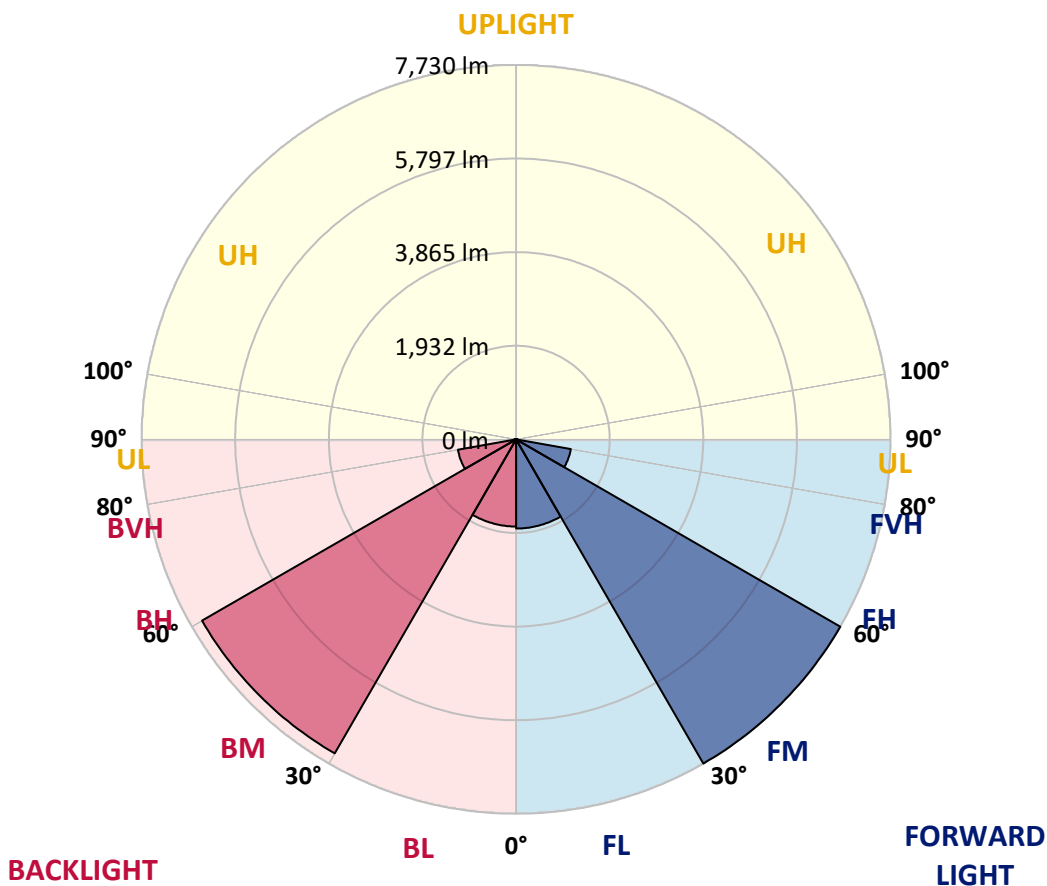
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1840.9	8.6			
FM (30°-60°)	7729.6	36.3			
FH (60°-80°)	1148.1	5.4			G1/1800
FVH (80°-90°)	31.8	0.1			G1/100
BL (0°-30°)	1799.8	8.5	B3/2500		
BM (30°-60°)	7486.2	35.2	B4/8500		
BH (60°-80°)	1218.7	5.7	B3/2500		G1/1800
BVH (80°-90°)	36.9	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1
2.5°	3475.2	3478.7	3485.6	3497.7	3509.8	3527.1	3534.1	3542.7	3541.0	3551.4	3551.4
5°	3457.9	3463.1	3473.5	3490.8	3511.6	3544.5	3553.1	3573.9	3594.7	3620.7	3629.3
7.5°	3478.7	3485.6	3497.7	3525.4	3556.6	3599.9	3617.2	3651.8	3691.6	3738.4	3757.4
10°	3518.5	3527.1	3547.9	3592.9	3643.2	3709.0	3724.5	3767.8	3831.9	3896.0	3934.1
12.5°	3563.5	3577.4	3615.5	3686.5	3760.9	3847.5	3871.7	3925.4	3994.7	4077.8	4129.7
15°	3615.5	3627.6	3686.5	3786.9	3902.9	4017.2	4044.9	4096.8	4174.7	4256.1	4328.9
17.5°	3724.5	3745.3	3814.6	3930.6	4065.7	4200.7	4231.9	4290.8	4353.1	4417.2	4486.4
20°	3873.5	3890.8	3979.1	4122.8	4282.1	4405.0	4436.2	4488.2	4517.6	4550.5	4609.4
22.5°	4022.4	4046.6	4147.0	4316.7	4503.7	4637.1	4661.3	4709.8	4689.0	4678.6	4716.7
25°	4207.6	4240.5	4339.2	4524.5	4715.0	4879.5	4898.5	4940.1	4905.5	4851.8	4850.0
27.5°	4437.9	4467.4	4569.5	4760.0	4948.7	5120.2	5156.5	5211.9	5135.8	5070.0	5023.2
30°	4711.5	4730.6	4843.1	5045.7	5239.6	5402.4	5449.2	5504.6	5447.4	5338.3	5291.6
32.5°	5030.1	5056.1	5186.0	5398.9	5572.1	5734.9	5781.6	5850.9	5788.5	5665.6	5606.7
35°	5412.8	5438.8	5575.6	5807.6	5984.2	6152.2	6185.1	6242.2	6164.3	6022.3	5975.5
37.5°	5828.4	5861.3	6034.4	6254.3	6439.6	6635.3	6637.0	6654.3	6543.5	6366.9	6314.9
40°	6295.9	6339.2	6512.3	6740.9	6964.3	7123.6	7121.8	7073.3	6886.3	6612.8	6533.1
42.5°	6758.2	6792.8	6967.7	7203.2	7426.6	7577.2	7532.2	7414.5	7144.3	6772.1	6666.4
45°	7092.4	7118.4	7301.9	7566.8	7793.7	7887.2	7805.8	7663.8	7298.4	6872.5	6716.6
47.5°	7250.0	7284.6	7469.9	7733.1	7989.3	8043.0	7946.0	7812.7	7388.5	6966.0	6756.5
50°	7165.1	7210.1	7419.7	7663.8	7953.0	8063.8	7994.5	7861.2	7483.7	7057.8	6827.5
52.5°	6945.2	6988.5	7253.4	7549.5	7876.8	8096.7	8095.0	7985.9	7592.8	7083.7	6830.9
55°	6193.7	6278.6	6690.7	7201.5	7783.3	8193.7	8235.2	8119.2	7610.1	7090.7	6867.3
57.5°	4031.0	4179.9	4571.3	5236.2	6403.2	7452.6	7733.1	7760.8	7485.5	7061.2	6874.2
60°	1683.1	1802.5	2112.5	2554.0	3518.5	4766.9	5310.6	5856.1	6514.1	6753.0	6810.2
62.5°	1045.9	1056.2	1087.4	1187.8	1509.9	2119.4	2469.2	2980.0	3958.3	4791.2	5175.6
65°	943.7	948.9	955.8	948.9	964.5	1038.9	1132.4	1310.8	1709.0	2122.9	2614.6
67.5°	831.1	838.1	843.3	838.1	843.3	846.7	857.1	872.7	945.4	1004.3	1049.3
70°	671.8	682.2	690.9	687.4	708.2	708.2	718.6	730.7	767.1	810.4	841.5
72.5°	512.5	503.9	514.3	517.7	536.8	547.2	562.8	576.6	618.2	644.1	684.0
75°	332.5	323.8	339.4	348.0	374.0	387.9	401.7	415.6	445.0	462.3	500.4
77.5°	180.1	178.3	193.9	206.1	233.8	251.1	261.5	271.9	296.1	301.3	325.5
80°	103.9	103.9	114.3	122.9	140.3	159.3	169.7	178.3	195.7	200.9	211.2
82.5°	57.1	57.1	62.3	67.5	81.4	91.8	100.4	107.4	122.9	128.1	133.3
85°	27.7	26.0	29.4	32.9	38.1	43.3	48.5	51.9	64.1	67.5	74.5
87.5°	3.5	3.5	3.5	5.2	6.9	10.4	12.1	12.1	19.0	22.5	26.0
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°	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1	3527.1
2.5°	3561.8	3539.3	3553.1	3558.3	3558.3	3553.1	3530.6	3523.7	3513.3	3497.7	3497.7
5°	3641.4	3624.1	3627.6	3618.9	3598.1	3572.2	3530.6	3509.8	3492.5	3473.5	3471.7
7.5°	3778.2	3755.7	3752.2	3719.3	3663.9	3608.5	3546.2	3508.1	3482.1	3457.9	3456.2
10°	3956.6	3935.8	3909.8	3844.0	3762.6	3681.3	3596.4	3544.5	3506.4	3471.7	3470.0
12.5°	4155.7	4131.5	4083.0	3986.0	3883.8	3804.2	3707.2	3627.6	3570.4	3523.7	3515.0
15°	4372.1	4337.5	4254.4	4140.1	4039.7	3954.8	3850.9	3736.7	3650.1	3575.6	3567.0
17.5°	4538.4	4493.3	4403.3	4296.0	4212.8	4128.0	3992.9	3849.2	3724.5	3631.0	3617.2
20°	4652.7	4616.3	4514.1	4434.5	4386.0	4311.5	4154.0	3991.2	3850.9	3733.2	3726.3
22.5°	4758.3	4715.0	4614.6	4567.8	4567.8	4517.6	4366.9	4174.7	4010.2	3873.5	3856.1
25°	4877.8	4831.0	4754.8	4749.6	4773.9	4751.3	4569.5	4363.5	4171.3	4017.2	3989.5
27.5°	5044.0	4992.0	4947.0	4978.2	5012.8	4988.6	4786.0	4547.0	4344.4	4188.6	4164.4
30°	5308.9	5244.8	5203.3	5241.4	5308.9	5237.9	5018.0	4765.2	4560.9	4389.5	4377.3
32.5°	5617.1	5544.4	5501.1	5561.7	5622.3	5511.5	5293.3	5050.9	4836.2	4656.1	4635.3
35°	5987.7	5895.9	5831.8	5913.2	5975.5	5866.5	5650.0	5419.7	5180.8	4993.8	4966.1
37.5°	6316.7	6205.8	6162.6	6276.8	6359.9	6289.0	6053.5	5837.0	5575.6	5371.2	5359.1
40°	6555.6	6446.5	6415.4	6604.1	6749.5	6732.2	6521.0	6273.4	6027.5	5792.0	5769.5
42.5°	6659.5	6583.3	6590.2	6844.8	7069.9	7180.7	6992.0	6727.0	6489.8	6245.7	6230.1
45°	6682.0	6635.3	6690.7	7009.3	7305.4	7532.2	7371.2	7149.5	6881.1	6645.7	6638.7
47.5°	6706.3	6680.3	6765.1	7102.8	7454.3	7717.5	7627.4	7398.9	7127.0	6896.7	6879.4
50°	6763.4	6753.0	6848.2	7168.6	7525.3	7767.7	7665.5	7438.7	7159.9	6933.1	6891.5
52.5°	6780.7	6763.4	6900.2	7270.7	7643.0	7766.0	7546.1	7250.0	6969.5	6716.6	6673.4
55°	6834.4	6803.2	6896.7	7308.8	7805.8	7866.4	7539.1	7095.9	6704.5	6359.9	6257.8
57.5°	6848.2	6813.6	6874.2	7246.5	7629.2	7575.5	6626.6	5726.2	4988.6	4605.9	4649.2
60°	6773.8	6784.2	6680.3	6638.7	6119.3	5402.4	4057.0	3243.2	2547.1	2252.7	2316.8
62.5°	5156.5	5199.8	4844.9	4212.8	3239.7	2567.9	1698.6	1319.4	1116.8	1064.9	1073.6
65°	2602.5	2661.4	2292.6	1896.0	1409.5	1139.4	985.2	954.1	943.7	931.6	931.6
67.5°	1030.3	1047.6	1033.7	967.9	900.4	876.2	869.2	865.8	853.6	846.7	848.5
70°	827.7	841.5	820.8	779.2	751.5	749.8	746.3	739.4	730.7	730.7	735.9
72.5°	675.3	689.2	659.7	633.7	613.0	597.4	588.7	583.5	571.4	571.4	576.6
75°	497.0	505.6	481.4	477.9	455.4	439.8	426.0	419.0	403.4	396.5	401.7
77.5°	330.7	329.0	316.9	316.9	308.2	289.2	273.6	258.0	237.2	223.4	226.8
80°	214.7	214.7	209.5	209.5	200.9	185.3	166.2	150.6	138.5	128.1	128.1
82.5°	136.8	135.1	133.3	131.6	128.1	112.6	98.7	88.3	79.7	72.7	74.5
85°	76.2	76.2	72.7	72.7	65.8	57.1	50.2	43.3	38.1	36.4	36.4
87.5°	26.0	26.0	24.2	24.2	20.8	15.6	12.1	10.4	8.7	6.9	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)