

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: P639677

Luminaire Tested: GWS-SA5C-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639677
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-SA5C-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20703.9 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

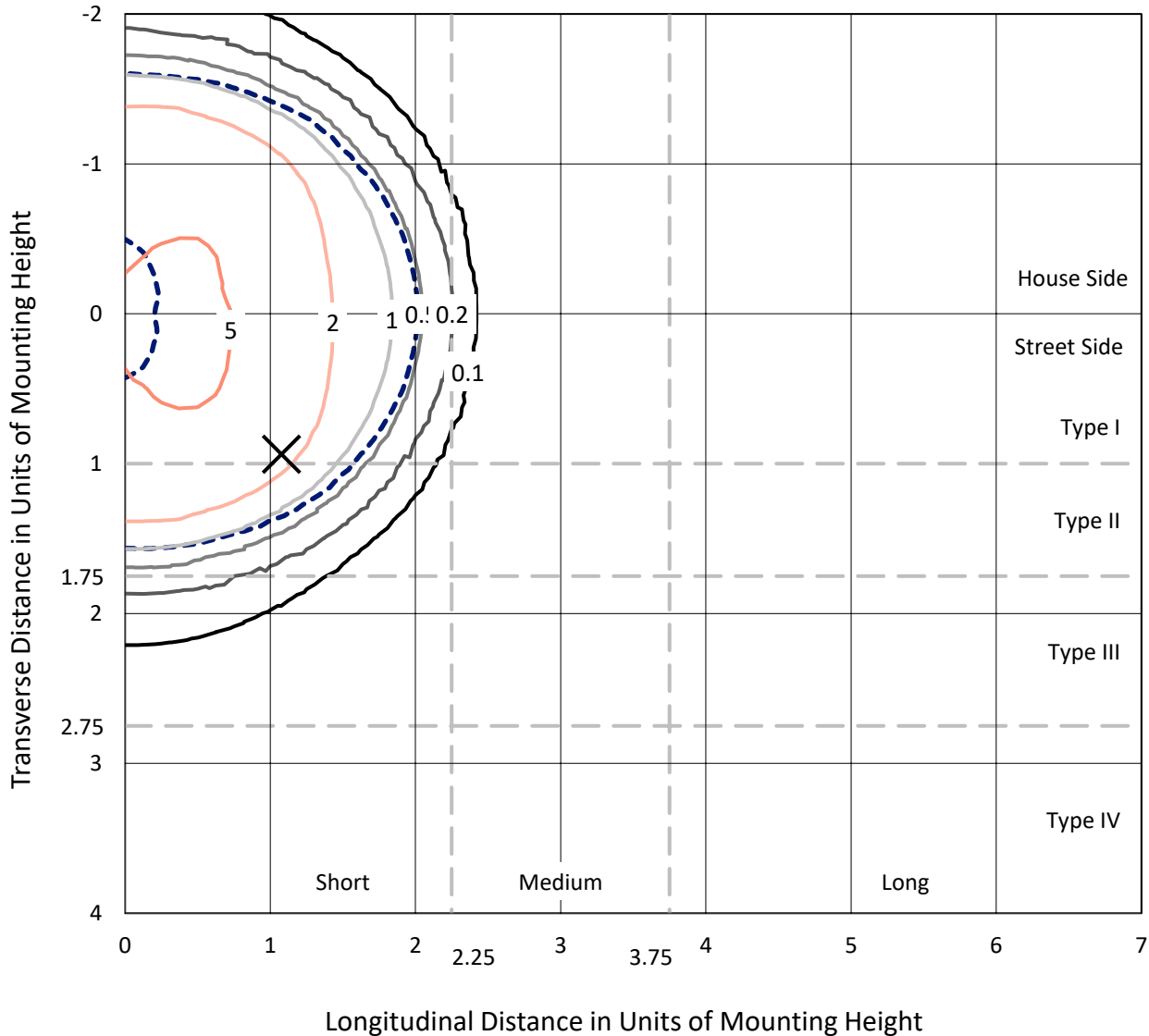
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P639677
 CATALOG NUMBER: GWS-SA5C-735-U-RW-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

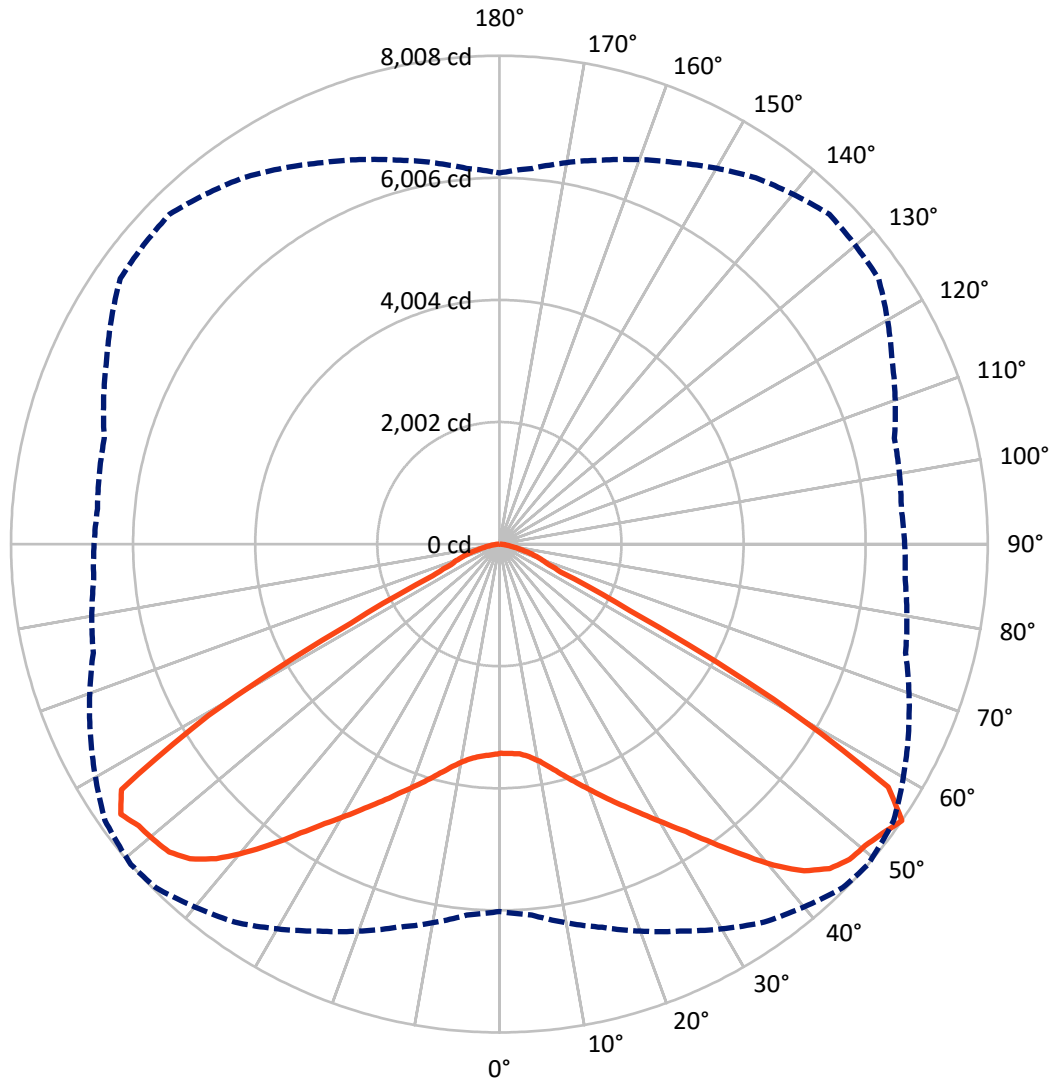
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type V - Short - N/A

REPORT NUMBER: P639677
CATALOG NUMBER: GWS-SA5C-735-U-RW-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P639677

CATALOG NUMBER: GWS-SA5C-735-U-RW-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10250.4	0.0	10250.4
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	10453.5	0.0	10453.5
	% Fixture	50.5	0.0	50.5
Total	Lumens	20703.9	0.0	20703.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.6	1.6
10°-20°	1103.6	5.3
20°-30°	2102.0	10.2
30°-40°	3563.3	17.2
40°-50°	5362.5	25.9
50°-60°	5869.7	28.4
60°-70°	1856.0	9.0
70°-80°	445.5	2.2
80°-90°	66.9	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°	20703.9	100.0
0°-180°	20703.9	100.0

Coefficient of Utilization



REPORT NUMBER: P639677

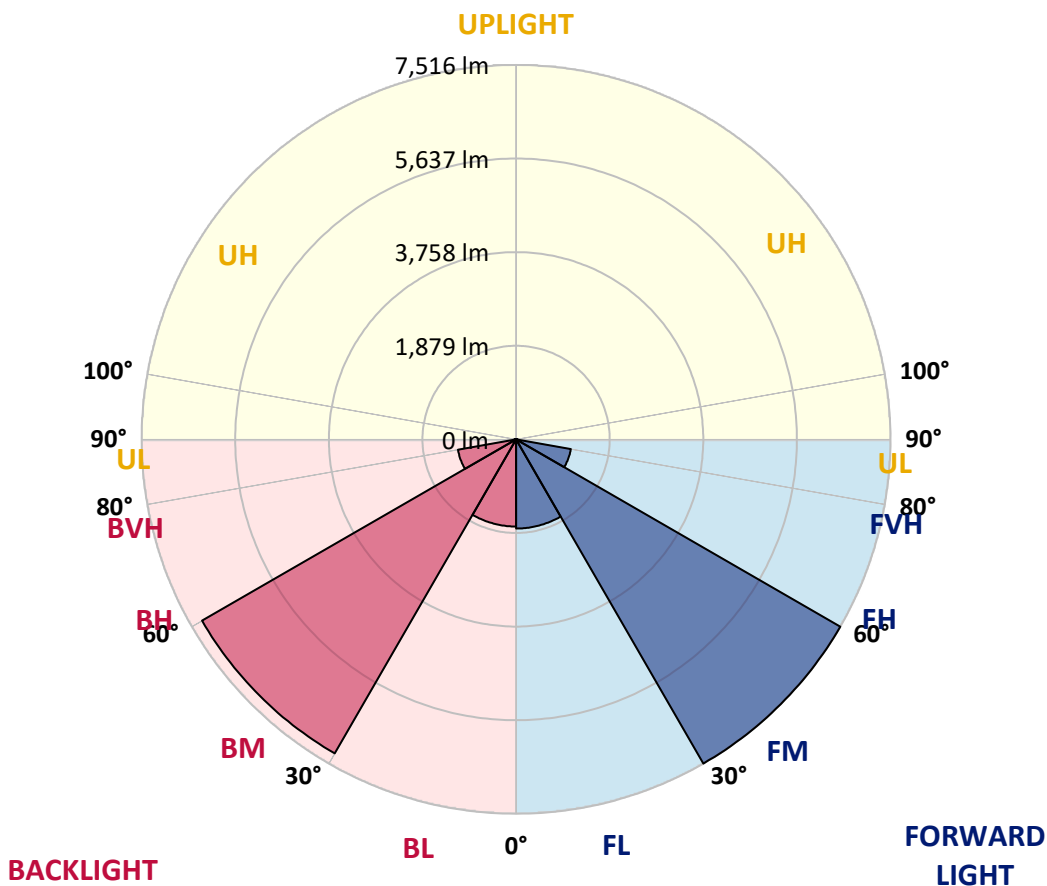
CATALOG NUMBER: GWS-SA5C-735-U-RW-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1790.0	8.6			
FM (30°-60°)	7516.1	36.3			
FH (60°-80°)	1116.4	5.4			G1/1800
FVH (80°-90°)	30.9	0.1			G1/100
BL (0°-30°)	1750.0	8.5	B3/2500		
BM (30°-60°)	7279.4	35.2	B4/8500		
BH (60°-80°)	1185.1	5.7	B3/2500		G1/1800
BVH (80°-90°)	35.9	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





REPORT NUMBER: P639677

CATALOG NUMBER: GWS-SA5C-735-U-RW-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7
2.5°	3379.2	3382.6	3389.3	3401.1	3412.9	3429.7	3436.5	3444.9	3443.2	3453.3	3453.3
5°	3362.4	3367.4	3377.5	3394.4	3414.6	3446.6	3455.0	3475.2	3495.4	3520.6	3529.1
7.5°	3382.6	3389.3	3401.1	3428.0	3458.3	3500.4	3517.3	3551.0	3589.7	3635.1	3653.7
10°	3421.3	3429.7	3449.9	3493.7	3542.5	3606.5	3621.7	3663.8	3726.1	3788.4	3825.4
12.5°	3465.1	3478.6	3515.6	3584.6	3657.0	3741.2	3764.8	3817.0	3884.3	3965.1	4015.7
15°	3515.6	3527.4	3584.6	3682.3	3795.1	3906.2	3933.2	3983.7	4059.4	4138.6	4209.3
17.5°	3621.7	3641.9	3709.2	3822.0	3953.4	4084.7	4115.0	4172.2	4232.9	4295.2	4362.5
20°	3766.5	3783.3	3869.2	4008.9	4163.8	4283.4	4313.7	4364.2	4392.8	4424.8	4482.0
22.5°	3911.3	3934.8	4032.5	4197.5	4379.3	4509.0	4532.6	4579.7	4559.5	4549.4	4586.4
25°	4091.4	4123.4	4219.4	4399.5	4584.8	4744.7	4763.2	4803.6	4770.0	4717.8	4716.1
27.5°	4315.4	4344.0	4443.3	4628.5	4812.1	4978.7	5014.1	5068.0	4993.9	4929.9	4884.5
30°	4581.4	4599.9	4709.3	4906.3	5094.9	5253.2	5298.6	5352.5	5297.0	5190.9	5145.4
32.5°	4891.2	4916.4	5042.7	5249.8	5418.2	5576.5	5621.9	5689.3	5628.7	5509.1	5451.9
35°	5263.3	5288.5	5421.6	5647.2	5818.9	5982.2	6014.2	6069.8	5994.0	5856.0	5810.5
37.5°	5667.4	5699.4	5867.7	6081.6	6261.7	6452.0	6453.7	6470.5	6362.8	6191.0	6140.5
40°	6122.0	6164.1	6332.5	6554.7	6771.9	6926.8	6925.1	6878.0	6696.1	6430.1	6352.7
42.5°	6571.5	6605.2	6775.3	7004.3	7221.5	7367.9	7324.2	7209.7	6947.0	6585.0	6482.3
45°	6896.5	6921.8	7100.2	7357.8	7578.4	7669.3	7590.2	7452.1	7096.9	6682.7	6531.1
47.5°	7049.7	7083.4	7263.5	7519.5	7768.7	7820.9	7726.6	7596.9	7184.4	6773.6	6569.9
50°	6967.2	7011.0	7214.7	7452.1	7733.3	7841.1	7773.7	7644.1	7277.0	6862.8	6638.9
52.5°	6753.4	6795.5	7053.1	7341.0	7659.2	7873.0	7871.4	7765.3	7383.1	6888.1	6642.3
55°	6022.6	6105.1	6505.9	7002.6	7568.3	7967.3	8007.7	7894.9	7399.9	6894.8	6677.6
57.5°	3919.7	4064.5	4445.0	5091.6	6226.4	7246.7	7519.5	7546.4	7278.7	6866.2	6684.3
60°	1636.6	1752.7	2054.1	2483.5	3421.3	4635.3	5164.0	5694.3	6334.1	6566.5	6622.0
62.5°	1017.0	1027.1	1057.4	1155.0	1468.2	2060.9	2401.0	2897.7	3849.0	4658.8	5032.6
65°	917.6	922.7	929.4	922.7	937.8	1010.2	1101.1	1274.6	1661.8	2064.2	2542.4
67.5°	808.2	814.9	820.0	814.9	820.0	823.3	833.4	848.6	919.3	976.6	1020.3
70°	653.3	663.4	671.8	668.4	688.6	688.6	698.7	710.5	745.9	788.0	818.3
72.5°	498.4	490.0	500.1	503.4	522.0	532.1	547.2	560.7	601.1	626.3	665.1
75°	323.3	314.9	330.0	338.4	363.7	377.2	390.6	404.1	432.7	449.6	486.6
77.5°	175.1	173.4	188.6	200.4	227.3	244.1	254.2	264.3	287.9	293.0	316.5
80°	101.0	101.0	111.1	119.5	136.4	154.9	165.0	173.4	190.3	195.3	205.4
82.5°	55.6	55.6	60.6	65.7	79.1	89.2	97.7	104.4	119.5	124.6	129.6
85°	26.9	25.3	28.6	32.0	37.0	42.1	47.1	50.5	62.3	65.7	72.4
87.5°	3.4	3.4	3.4	5.1	6.7	10.1	11.8	11.8	18.5	21.9	25.3
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: P639677

CATALOG NUMBER: GWS-SA5C-735-U-RW-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7	3429.7
2.5°	3463.4	3441.5	3455.0	3460.0	3460.0	3455.0	3433.1	3426.4	3416.3	3401.1	3401.1
5°	3540.9	3524.0	3527.4	3519.0	3498.8	3473.5	3433.1	3412.9	3396.1	3377.5	3375.8
7.5°	3673.9	3652.0	3648.6	3616.6	3562.7	3508.9	3448.2	3411.2	3386.0	3362.4	3360.7
10°	3847.3	3827.1	3801.8	3737.8	3658.7	3579.6	3497.1	3446.6	3409.5	3375.8	3374.2
12.5°	4040.9	4017.3	3970.2	3875.9	3776.6	3699.1	3604.8	3527.4	3471.8	3426.4	3417.9
15°	4251.4	4217.7	4136.9	4025.8	3928.1	3845.6	3744.6	3633.5	3549.3	3476.9	3468.5
17.5°	4413.0	4369.2	4281.7	4177.3	4096.5	4014.0	3882.6	3742.9	3621.7	3530.7	3517.3
20°	4524.1	4488.8	4389.4	4312.0	4264.8	4192.4	4039.2	3881.0	3744.6	3630.1	3623.4
22.5°	4626.8	4584.8	4487.1	4441.6	4441.6	4392.8	4246.3	4059.4	3899.5	3766.5	3749.6
25°	4743.0	4697.6	4623.5	4618.4	4642.0	4620.1	4443.3	4243.0	4056.1	3906.2	3879.3
27.5°	4904.7	4854.1	4810.4	4840.7	4874.4	4850.8	4653.8	4421.4	4224.4	4072.9	4049.3
30°	5162.3	5100.0	5059.6	5096.6	5162.3	5093.2	4879.4	4633.6	4434.9	4268.2	4256.4
32.5°	5462.0	5391.3	5349.2	5408.1	5467.0	5359.3	5147.1	4911.4	4702.6	4527.5	4507.3
35°	5822.3	5733.0	5670.8	5749.9	5810.5	5704.4	5494.0	5270.0	5037.7	4855.8	4828.9
37.5°	6142.2	6034.4	5992.3	6103.5	6184.3	6115.3	5886.3	5675.8	5421.6	5222.9	5211.1
40°	6374.5	6268.5	6238.2	6421.7	6563.1	6546.3	6340.9	6100.1	5861.0	5632.0	5610.1
42.5°	6475.6	6401.5	6408.2	6655.7	6874.6	6982.4	6798.8	6541.2	6310.6	6073.2	6058.0
45°	6497.5	6452.0	6505.9	6815.7	7103.6	7324.2	7167.6	6952.1	6691.1	6462.1	6455.4
47.5°	6521.0	6495.8	6578.3	6906.6	7248.4	7504.3	7416.8	7194.5	6930.2	6706.2	6689.4
50°	6576.6	6566.5	6659.1	6970.6	7317.4	7553.1	7453.8	7233.2	6962.2	6741.6	6701.2
52.5°	6593.4	6576.6	6709.6	7069.9	7431.9	7551.5	7337.6	7049.7	6777.0	6531.1	6489.0
55°	6645.6	6615.3	6706.2	7107.0	7590.2	7649.1	7330.9	6899.9	6519.3	6184.3	6084.9
57.5°	6659.1	6625.4	6684.3	7046.3	7418.4	7366.3	6443.6	5568.0	4850.8	4478.7	4520.8
60°	6586.7	6596.8	6495.8	6455.4	5950.2	5253.2	3944.9	3153.6	2476.7	2190.5	2252.8
62.5°	5014.1	5056.2	4711.0	4096.5	3150.2	2496.9	1651.7	1283.0	1086.0	1035.5	1043.9
65°	2530.6	2587.9	2229.2	1843.7	1370.5	1107.9	958.0	927.7	917.6	905.8	905.8
67.5°	1001.8	1018.6	1005.2	941.2	875.5	852.0	845.2	841.9	830.1	823.3	825.0
70°	804.8	818.3	798.1	757.7	730.7	729.0	725.7	718.9	710.5	710.5	715.6
72.5°	656.6	670.1	641.5	616.2	596.0	580.9	572.5	567.4	555.6	555.6	560.7
75°	483.2	491.6	468.1	464.7	442.8	427.7	414.2	407.5	392.3	385.6	390.6
77.5°	321.6	319.9	308.1	308.1	299.7	281.2	266.0	250.9	230.7	217.2	220.6
80°	208.8	208.8	203.7	203.7	195.3	180.2	161.6	146.5	134.7	124.6	124.6
82.5°	133.0	131.3	129.6	128.0	124.6	109.4	96.0	85.9	77.5	70.7	72.4
85°	74.1	74.1	70.7	70.7	64.0	55.6	48.8	42.1	37.0	35.4	35.4
87.5°	25.3	25.3	23.6	23.6	20.2	15.2	11.8	10.1	8.4	6.7	8.4
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)