

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: P633348

Luminaire Tested: GWS-SA2E-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-750-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13540.3 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

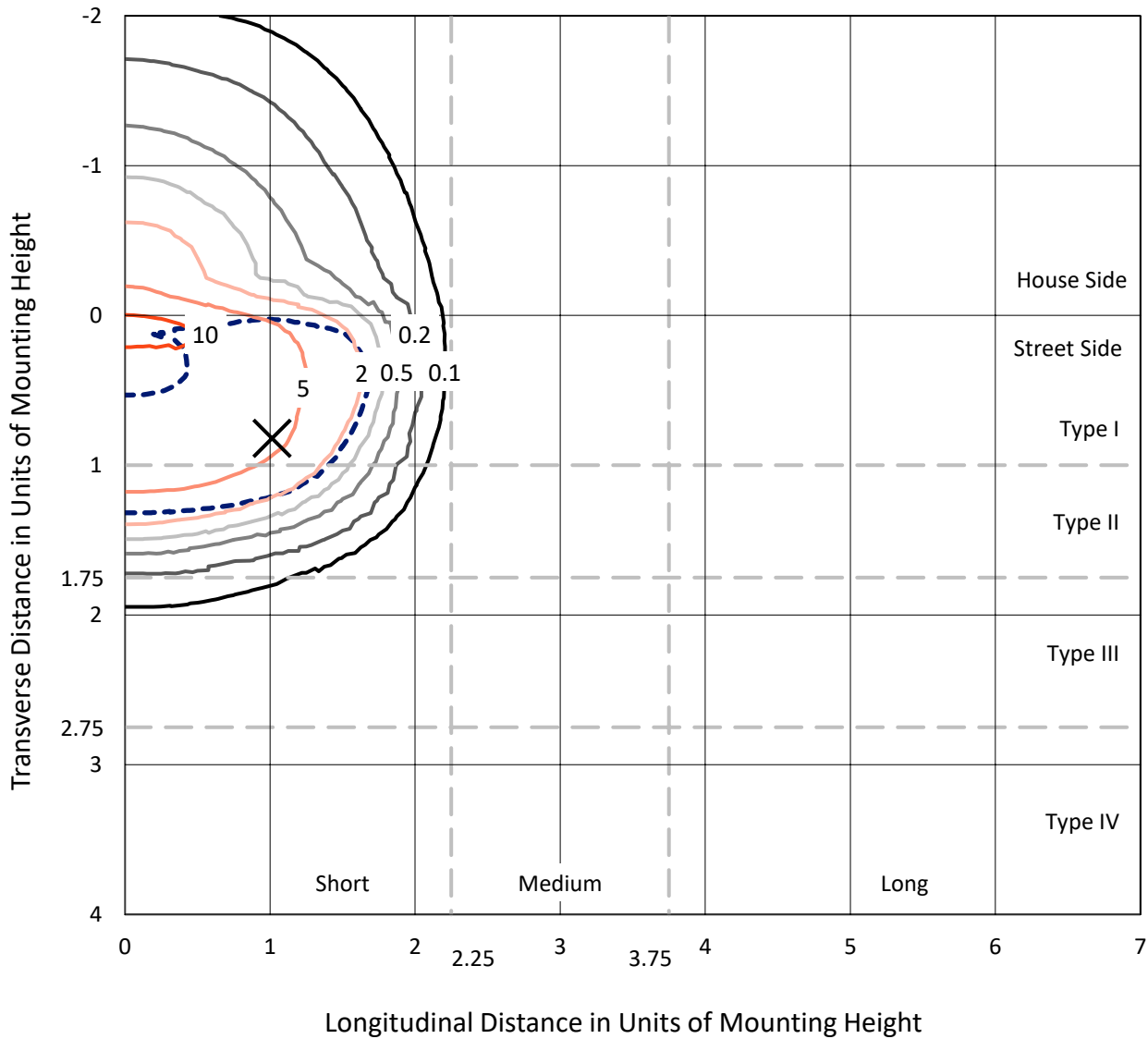
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

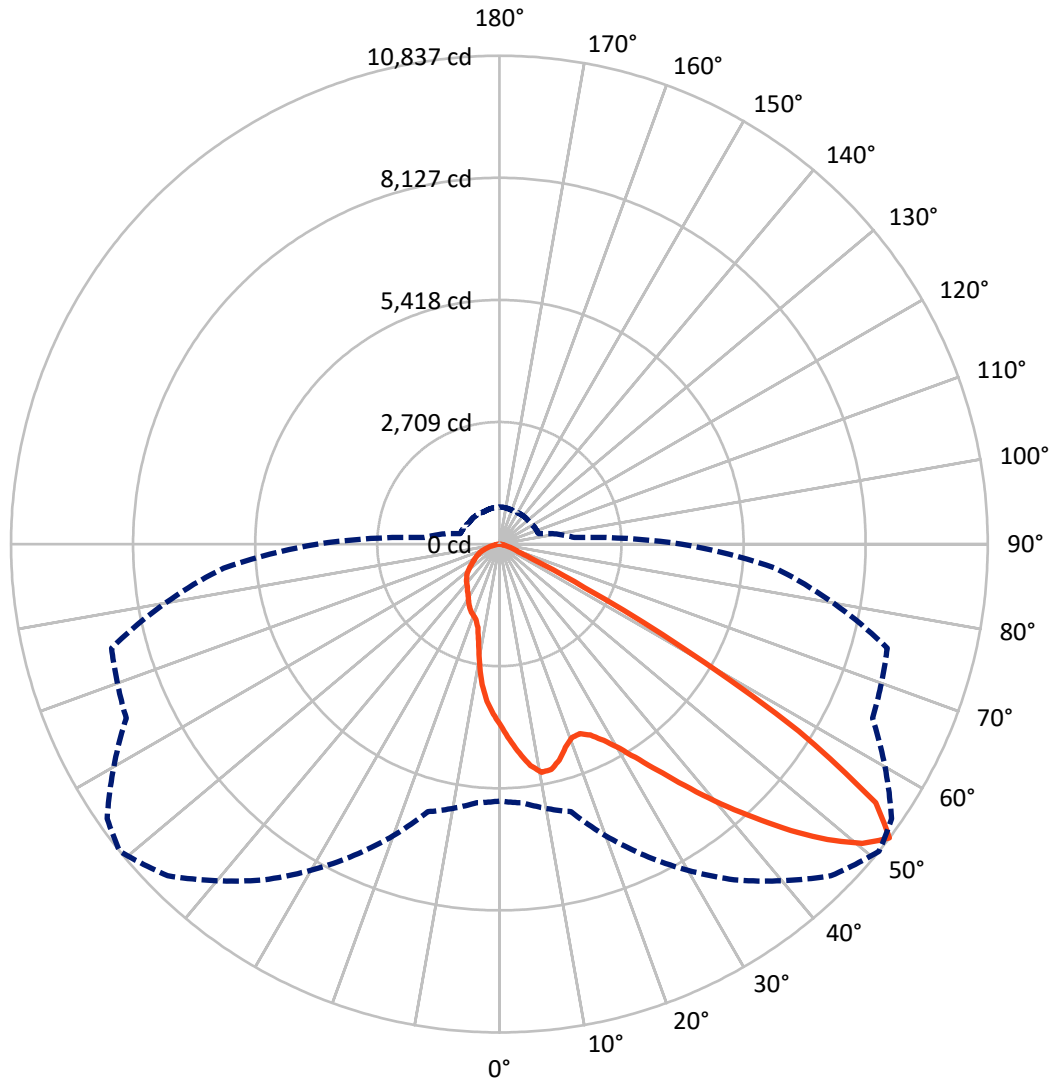
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2638.2	0.0	2638.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	10902.1	0.0	10902.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	13540.3	0.0	13540.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.2	2.8
10°-20°	977.5	7.2
20°-30°	1589.4	11.7
30°-40°	2518.8	18.6
40°-50°	3798.9	28.1
50°-60°	3286.4	24.3
60°-70°	745.0	5.5
70°-80°	219.7	1.6
80°-90°	28.3	0.2
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°	13540.3	100.0
0°-180°	13540.3	100.0

Coefficient of Utilization



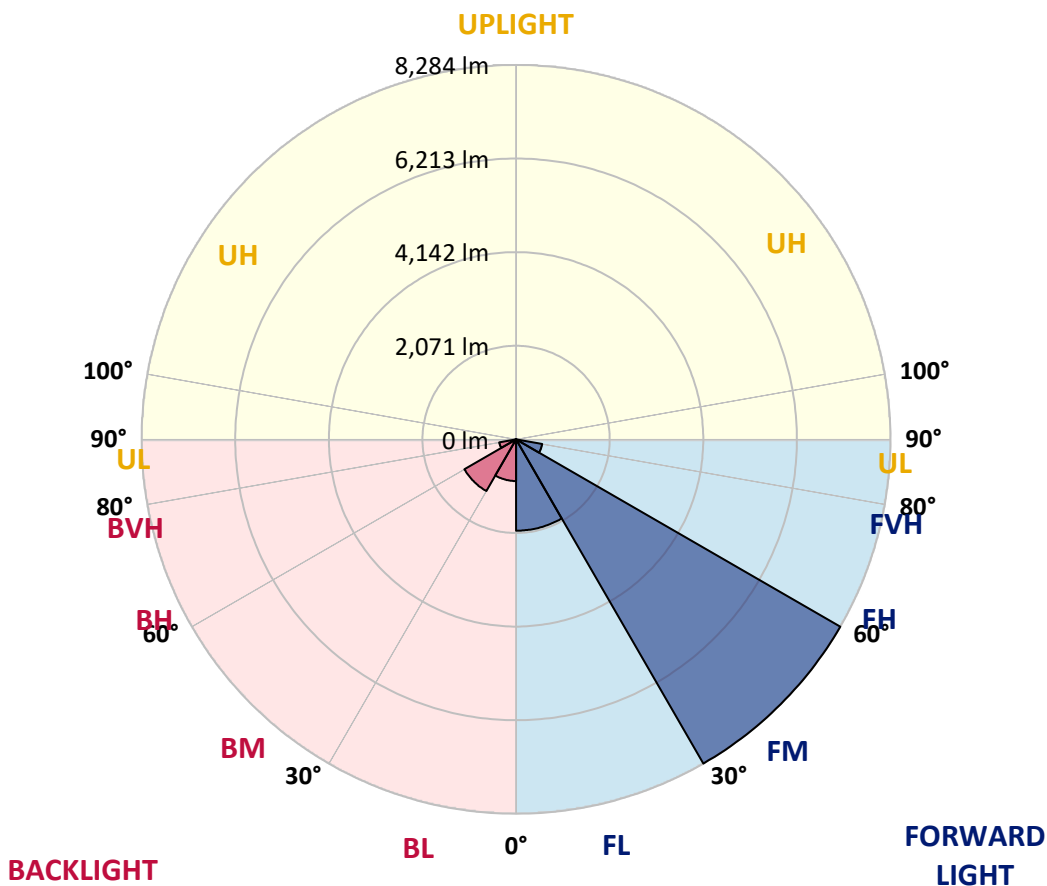
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.9	14.9			
FM (30°-60°)	8284.2	61.2			
FH (60°-80°)	586.3	4.3			G0/660
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	922.2	6.8	B2/1000		
BM (30°-60°)	1320.0	9.7	B2/2500		
BH (60°-80°)	378.4	2.8	B1/500		G1/500
BVH (80°-90°)	17.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6
2.5°	4492.8	4518.5	4478.9	4463.9	4439.3	4396.5	4347.3	4333.4	4227.4	4157.9	4079.8
5°	4944.3	4958.2	4926.1	4894.0	4833.0	4757.1	4661.8	4641.5	4448.9	4289.5	4123.6
7.5°	5044.9	5039.5	5067.3	5085.5	5078.0	5048.1	4963.6	4924.0	4693.9	4441.4	4196.4
10°	4646.9	4616.9	4719.6	4841.6	4988.2	5157.2	5147.6	5144.4	4944.3	4645.8	4289.5
12.5°	4119.4	4104.4	4187.8	4340.8	4618.0	4992.5	5132.6	5241.8	5170.1	4840.5	4393.3
15°	3817.6	3812.3	3869.0	3979.2	4199.6	4672.5	4972.1	5188.3	5363.7	5049.2	4503.5
17.5°	3763.1	3766.3	3785.5	3848.7	4007.0	4396.5	4743.1	5044.9	5514.6	5278.1	4641.5
20°	3922.5	3943.9	3910.7	3920.3	4005.9	4297.0	4586.9	4900.4	5610.9	5508.2	4790.2
22.5°	4276.6	4269.2	4196.4	4153.6	4154.7	4358.0	4569.8	4833.0	5674.0	5731.8	4925.0
25°	4677.9	4669.3	4582.7	4487.4	4427.5	4523.8	4692.9	4904.7	5730.7	5936.2	5033.1
27.5°	5151.9	5125.1	5028.8	4906.9	4774.2	4815.9	4930.4	5098.4	5818.5	6137.3	5104.8
30°	5610.9	5641.9	5503.9	5359.4	5219.3	5193.6	5259.9	5411.9	5997.1	6372.7	5190.4
32.5°	6219.7	6209.0	6056.0	5867.7	5667.6	5648.3	5700.8	5839.9	6318.1	6698.0	5320.9
35°	6956.9	6959.0	6741.8	6487.2	6202.6	6151.2	6239.0	6373.8	6796.4	7138.8	5527.4
37.5°	7723.0	7719.8	7530.4	7241.5	6853.1	6780.4	6880.9	6981.5	7394.5	7739.0	5848.4
40°	8260.1	8281.5	8192.7	8040.8	7672.7	7495.1	7583.9	7653.4	8045.1	8445.2	6271.1
42.5°	8565.1	8597.2	8616.4	8707.4	8513.7	8324.3	8292.2	8328.6	8626.0	9101.1	6668.0
45°	8630.3	8673.1	8813.3	9150.3	9225.2	9171.7	9066.9	8979.1	9059.4	9566.5	6928.0
47.5°	8342.5	8417.4	8717.0	9306.5	9744.2	9912.1	9795.5	9661.8	9309.8	9686.4	6901.3
50°	7201.9	7289.7	7964.8	8987.7	9818.0	10430.0	10440.7	10242.8	9279.8	9340.8	6565.3
52.5°	5701.8	5761.8	6148.0	7619.2	9093.6	10408.6	10836.6	10624.7	9135.3	8908.5	6144.8
55°	3407.8	3504.1	3864.7	5026.7	7084.2	9225.2	10136.8	10239.6	9064.7	8545.8	5858.1
57.5°	1150.2	1197.3	1541.8	2220.2	4175.0	6754.7	7832.1	8249.4	8229.1	7991.6	5298.5
60°	547.8	558.5	628.1	842.1	1671.3	3529.8	4636.2	5117.6	5556.3	5600.2	3296.6
62.5°	417.3	423.7	459.0	505.0	671.9	1487.2	2124.9	2493.0	2663.1	2285.4	1200.5
65°	348.8	354.2	380.9	409.8	456.9	644.1	815.3	940.5	847.4	660.2	572.4
67.5°	291.0	295.3	315.6	346.7	378.8	431.2	452.6	465.4	487.9	547.8	526.4
70°	227.9	232.2	253.6	280.3	311.4	324.2	344.5	357.4	402.3	479.3	477.2
72.5°	175.5	180.8	192.6	209.7	235.4	248.2	270.7	285.7	311.4	373.4	399.1
75°	128.4	131.6	142.3	147.7	150.9	147.7	170.1	187.2	221.5	245.0	251.4
77.5°	52.4	58.8	56.7	56.7	67.4	81.3	93.1	103.8	127.3	141.2	142.3
80°	21.4	23.5	27.8	31.0	37.4	48.1	55.6	59.9	70.6	79.2	85.6
82.5°	12.8	13.9	16.0	17.1	21.4	27.8	32.1	35.3	43.9	52.4	55.6
85°	6.4	6.4	7.5	8.6	10.7	12.8	15.0	17.1	22.5	27.8	31.0
87.5°	1.1	1.1	1.1	2.1	3.2	4.3	5.3	6.4	7.5	8.6	10.7
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°	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6	4031.6
2.5°	4033.8	3976.0	3908.6	3855.1	3793.0	3747.0	3681.7	3641.1	3602.6	3570.5	3546.9
5°	4038.0	3940.7	3800.5	3676.4	3548.0	3426.0	3300.8	3199.2	3108.2	3032.3	3025.9
7.5°	4062.7	3922.5	3703.1	3485.9	3235.6	2993.8	2751.9	2555.1	2405.3	2327.2	2311.1
10°	4104.4	3920.3	3603.6	3257.0	2830.1	2440.6	2153.8	2004.0	1917.4	1886.3	1875.6
12.5°	4148.2	3915.0	3476.3	2933.8	2341.1	1999.8	1842.5	1824.3	1840.3	1842.5	1841.4
15°	4201.7	3911.8	3315.8	2555.1	1983.7	1795.4	1806.1	1844.6	1882.1	1890.6	1890.6
17.5°	4267.0	3904.3	3097.5	2184.9	1760.1	1755.8	1812.5	1863.9	1899.2	1905.6	1905.6
20°	4335.5	3885.0	2829.0	1883.1	1669.1	1731.2	1792.2	1831.8	1856.4	1864.9	1866.0
22.5°	4382.6	3833.7	2519.8	1659.5	1612.4	1684.1	1728.0	1768.6	1768.6	1747.3	1740.8
25°	4392.2	3723.5	2184.9	1506.5	1545.0	1611.4	1656.3	1632.8	1588.9	1571.8	1570.7
27.5°	4356.9	3563.0	1854.2	1397.4	1463.7	1530.0	1522.6	1488.3	1469.1	1451.9	1458.4
30°	4314.1	3370.4	1567.5	1307.5	1369.6	1434.8	1409.1	1397.4	1383.5	1364.2	1368.5
32.5°	4285.2	3155.3	1347.1	1237.9	1306.4	1317.1	1335.3	1334.2	1321.4	1285.0	1282.9
35°	4293.8	2938.1	1199.4	1181.2	1254.0	1249.7	1284.0	1277.5	1188.7	1138.4	1135.2
37.5°	4362.2	2729.5	1112.8	1136.3	1170.5	1197.3	1227.2	1150.2	1119.2	1087.1	1089.2
40°	4492.8	2535.8	1065.7	1111.7	1120.3	1159.8	1090.3	1089.2	1075.3	1046.4	1045.4
42.5°	4640.4	2372.1	1033.6	1099.9	1088.2	1095.6	1021.8	1030.4	1029.3	1011.1	1005.8
45°	4730.3	2221.2	1007.9	1056.1	1059.3	984.4	961.9	971.5	976.9	967.2	966.2
47.5°	4637.2	2047.9	981.2	988.6	1016.5	934.1	906.3	907.3	917.0	918.0	913.7
50°	4376.2	1854.2	949.1	930.9	912.7	881.7	856.0	850.6	860.3	869.9	873.1
52.5°	4039.1	1669.1	895.6	867.7	824.9	824.9	813.2	796.1	808.9	821.7	826.0
55°	3792.0	1532.2	819.6	788.6	741.5	757.5	755.4	740.4	757.5	767.2	770.4
57.5°	3285.9	1231.5	721.2	711.5	671.9	691.2	695.5	676.2	667.7	669.8	673.0
60°	1950.5	795.0	650.5	649.5	614.2	636.6	649.5	630.2	604.5	607.7	612.0
62.5°	875.2	607.7	561.7	557.5	556.4	585.3	599.2	581.0	544.6	547.8	552.1
65°	551.0	525.4	487.9	487.9	505.0	529.6	540.3	525.4	483.6	478.3	482.6
67.5°	511.4	489.0	450.5	443.0	451.5	471.9	472.9	444.0	419.4	415.1	415.1
70°	459.0	441.9	404.4	389.5	386.3	385.2	382.0	374.5	358.4	354.2	356.3
72.5°	379.8	368.1	344.5	328.5	319.9	318.8	306.0	299.6	285.7	283.5	282.5
75°	251.4	254.7	254.7	252.5	245.0	241.8	227.9	221.5	205.4	199.0	197.9
77.5°	148.7	151.9	156.2	157.3	156.2	156.2	143.4	135.9	119.8	111.3	109.1
80°	90.9	93.1	95.2	98.4	94.2	90.9	79.2	71.7	64.2	58.8	57.8
82.5°	58.8	61.0	62.1	64.2	62.1	57.8	48.1	43.9	38.5	34.2	33.2
85°	33.2	34.2	36.4	36.4	33.2	30.0	24.6	21.4	18.2	16.0	16.0
87.5°	11.8	11.8	11.8	12.8	10.7	9.6	6.4	4.3	3.2	3.2	3.2
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)