

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: P632853

Luminaire Tested: GWS-SA2D-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632853
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-SA2D-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: 10835.3 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

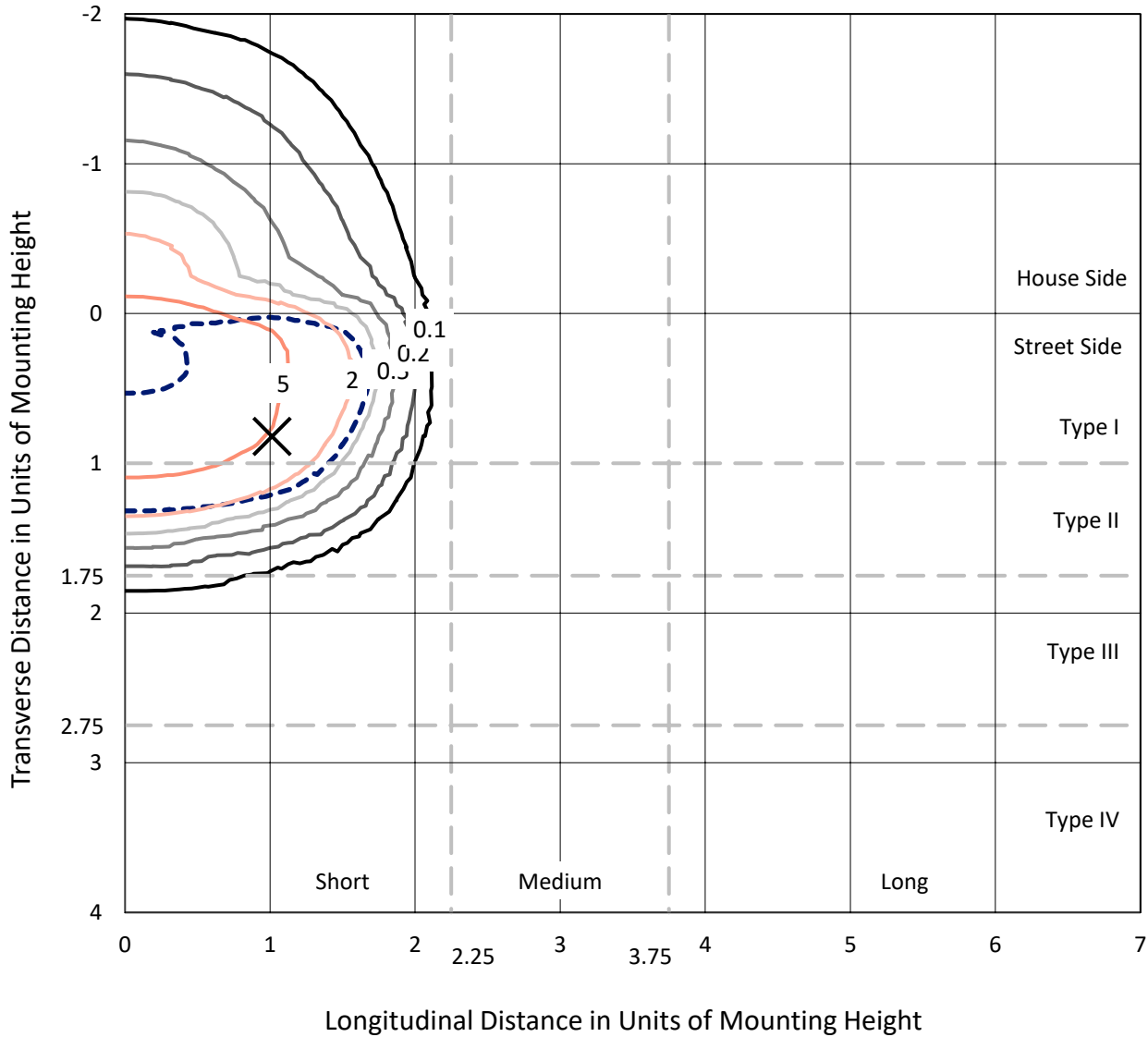
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

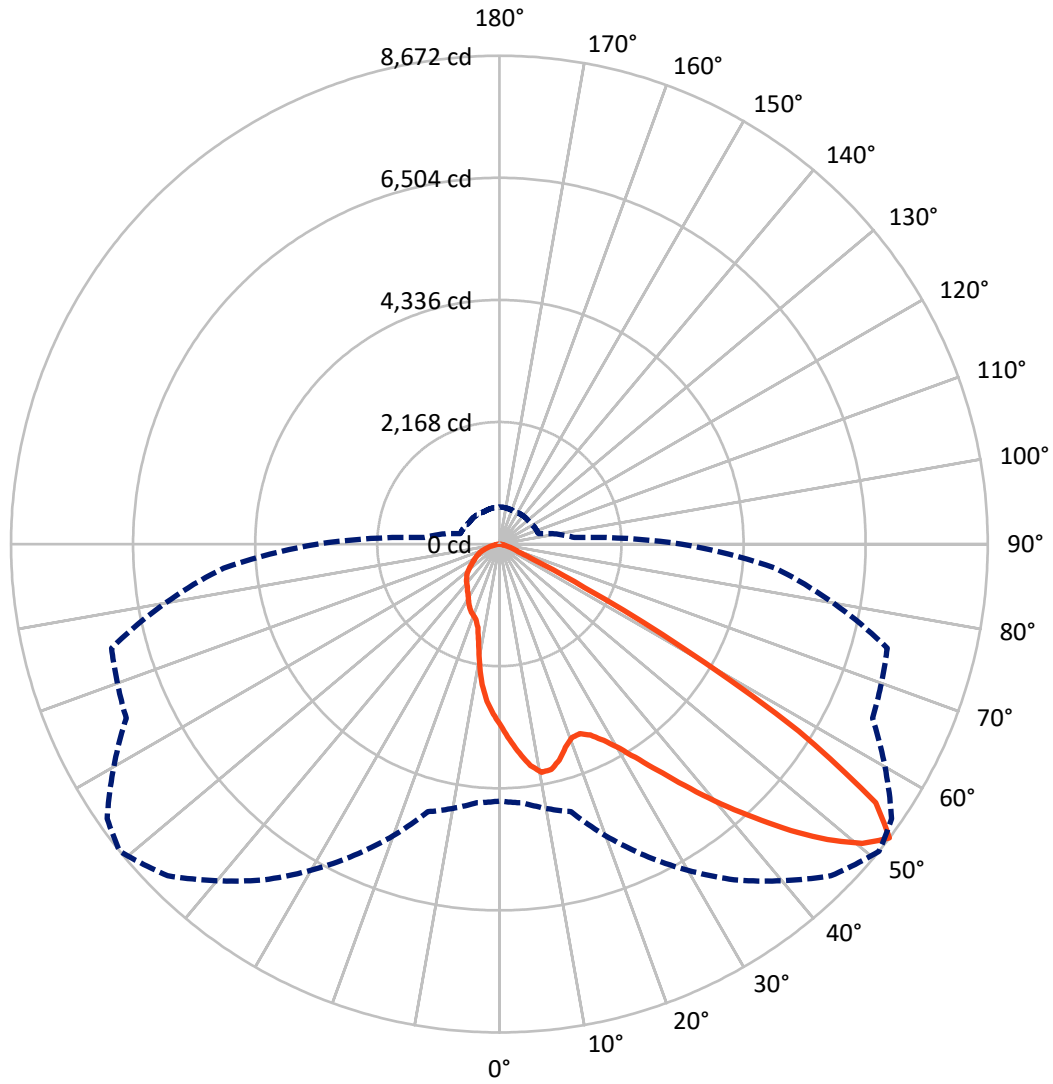
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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	2111.2	0.0	2111.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8724.1	0.0	8724.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	10835.3	0.0	10835.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	2.8
10°-20°	782.2	7.2
20°-30°	1271.9	11.7
30°-40°	2015.6	18.6
40°-50°	3040.0	28.1
50°-60°	2629.8	24.3
60°-70°	596.2	5.5
70°-80°	175.8	1.6
80°-90°	22.6	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°	10835.3	100.0
0°-180°	10835.3	100.0

Coefficient of Utilization



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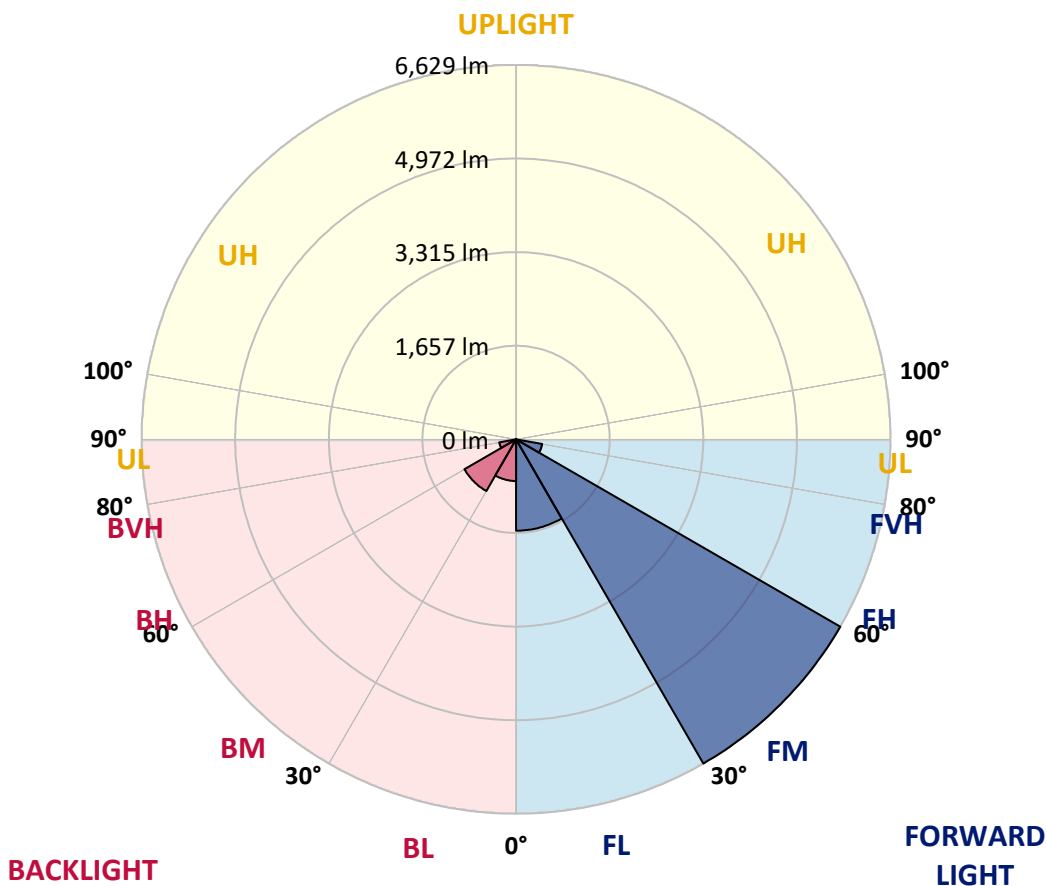
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1617.2	14.9			
FM (30°-60°)	6629.2	61.2			
FH (60°-80°)	469.2	4.3			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	738.0	6.8	B2/1000		
BM (30°-60°)	1056.3	9.7	B2/2500		
BH (60°-80°)	302.8	2.8	B1/500		G1/500
BVH (80°-90°)	14.1	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°	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2
2.5°	3595.2	3615.8	3584.1	3572.1	3552.4	3518.2	3478.8	3467.7	3382.9	3327.2	3264.7
5°	3956.6	3967.7	3942.0	3916.3	3867.5	3806.7	3730.5	3714.3	3560.1	3432.6	3299.8
7.5°	4037.0	4032.8	4055.0	4069.6	4063.6	4039.6	3972.0	3940.3	3756.2	3554.1	3358.1
10°	3718.5	3694.6	3776.8	3874.4	3991.7	4126.9	4119.2	4116.7	3956.6	3717.7	3432.6
12.5°	3296.4	3284.4	3351.2	3473.7	3695.4	3995.1	4107.3	4194.6	4137.2	3873.5	3515.6
15°	3055.0	3050.7	3096.1	3184.3	3360.6	3739.1	3978.8	4151.8	4292.2	4040.5	3603.8
17.5°	3011.3	3013.9	3029.3	3079.8	3206.5	3518.2	3795.6	4037.0	4412.9	4223.7	3714.3
20°	3138.9	3156.0	3129.5	3137.2	3205.7	3438.6	3670.6	3921.5	4490.0	4407.8	3833.3
22.5°	3422.3	3416.3	3358.1	3323.8	3324.7	3487.4	3656.9	3867.5	4540.5	4586.7	3941.1
25°	3743.4	3736.5	3667.2	3591.0	3543.0	3620.1	3755.3	3924.9	4585.9	4750.3	4027.6
27.5°	4122.7	4101.3	4024.2	3926.6	3820.4	3853.8	3945.4	4079.9	4656.1	4911.2	4085.0
30°	4490.0	4514.8	4404.4	4288.8	4176.6	4156.1	4209.1	4330.7	4799.1	5099.6	4153.5
32.5°	4977.2	4968.6	4846.2	4695.5	4535.4	4519.9	4561.9	4673.2	5055.9	5359.9	4257.9
35°	5567.1	5568.8	5395.0	5191.2	4963.5	4922.4	4992.6	5100.5	5438.7	5712.7	4423.2
37.5°	6180.1	6177.6	6026.0	5794.8	5484.0	5425.8	5506.3	5586.8	5917.3	6193.0	4680.1
40°	6610.0	6627.1	6556.0	6434.4	6139.9	5997.8	6068.8	6124.5	6437.9	6758.1	5018.3
42.5°	6854.0	6879.7	6895.1	6967.9	6812.9	6661.3	6635.6	6664.8	6902.8	7282.9	5335.9
45°	6906.2	6940.5	7052.6	7322.3	7382.3	7339.5	7255.5	7185.3	7249.6	7655.4	5544.0
47.5°	6675.9	6735.8	6975.6	7447.3	7797.5	7932.0	7838.6	7731.6	7449.9	7751.3	5522.6
50°	5763.2	5833.4	6373.6	7192.2	7856.6	8346.4	8354.9	8196.5	7425.9	7474.7	5253.7
52.5°	4562.8	4610.7	4919.8	6097.1	7277.0	8329.2	8671.7	8502.2	7310.3	7128.8	4917.2
55°	2727.0	2804.1	3092.6	4022.5	5669.0	7382.3	8111.8	8194.0	7253.8	6838.6	4687.8
57.5°	920.4	958.1	1233.8	1776.6	3340.9	5405.3	6267.5	6601.4	6585.1	6395.1	4240.0
60°	438.4	446.9	502.6	673.8	1337.4	2824.6	3710.0	4095.3	4446.3	4481.4	2638.0
62.5°	333.9	339.1	367.3	404.1	537.7	1190.1	1700.4	1995.0	2131.1	1828.9	960.7
65°	279.1	283.4	304.8	327.9	365.6	515.4	652.4	752.6	678.1	528.3	458.1
67.5°	232.9	236.3	252.6	277.4	303.1	345.1	362.2	372.5	390.4	438.4	421.3
70°	182.4	185.8	202.9	224.3	249.2	259.4	275.7	286.0	321.9	383.6	381.9
72.5°	140.4	144.7	154.1	167.8	188.4	198.6	216.6	228.6	249.2	298.8	319.4
75°	102.7	105.3	113.9	118.2	120.7	118.2	136.1	149.8	177.2	196.1	201.2
77.5°	42.0	47.1	45.4	45.4	53.9	65.1	74.5	83.1	101.9	113.0	113.9
80°	17.1	18.8	22.3	24.8	30.0	38.5	44.5	47.9	56.5	63.4	68.5
82.5°	10.3	11.1	12.8	13.7	17.1	22.3	25.7	28.3	35.1	42.0	44.5
85°	5.1	5.1	6.0	6.8	8.6	10.3	12.0	13.7	18.0	22.3	24.8
87.5°	0.9	0.9	0.9	1.7	2.6	3.4	4.3	5.1	6.0	6.8	8.6
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°	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2	3226.2
2.5°	3227.9	3181.7	3127.7	3084.9	3035.3	2998.5	2946.2	2913.7	2882.9	2857.2	2838.3
5°	3231.3	3153.4	3041.3	2941.9	2839.2	2741.6	2641.4	2560.1	2487.3	2426.5	2421.4
7.5°	3251.0	3138.9	2963.4	2789.5	2589.2	2395.7	2202.2	2044.6	1924.8	1862.3	1849.4
10°	3284.4	3137.2	2883.7	2606.3	2264.7	1953.0	1723.6	1603.7	1534.3	1509.5	1500.9
12.5°	3319.5	3132.9	2781.8	2347.7	1873.4	1600.3	1474.4	1459.8	1472.7	1474.4	1473.5
15°	3362.3	3130.3	2653.4	2044.6	1587.4	1436.7	1445.3	1476.1	1506.1	1512.9	1512.9
17.5°	3414.6	3124.3	2478.7	1748.4	1408.5	1405.0	1450.4	1491.5	1519.8	1524.9	1524.9
20°	3469.4	3108.9	2263.8	1506.9	1335.7	1385.4	1434.2	1465.8	1485.5	1492.4	1493.2
22.5°	3507.0	3067.8	2016.4	1328.0	1290.3	1347.7	1382.8	1415.3	1415.3	1398.2	1393.1
25°	3514.8	2979.6	1748.4	1205.5	1236.4	1289.5	1325.4	1306.6	1271.5	1257.8	1256.9
27.5°	3486.5	2851.2	1483.8	1118.2	1171.3	1224.4	1218.4	1191.0	1175.6	1161.9	1167.0
30°	3452.2	2697.1	1254.4	1046.3	1096.0	1148.2	1127.6	1118.2	1107.1	1091.7	1095.1
32.5°	3429.1	2525.0	1078.0	990.6	1045.4	1054.0	1068.6	1067.7	1057.4	1028.3	1026.6
35°	3436.0	2351.2	959.8	945.3	1003.5	1000.1	1027.5	1022.3	951.3	911.0	908.4
37.5°	3490.8	2184.2	890.5	909.3	936.7	958.1	982.1	920.4	895.6	869.9	871.6
40°	3595.2	2029.2	852.8	889.6	896.5	928.1	872.5	871.6	860.5	837.4	836.5
42.5°	3713.4	1898.2	827.1	880.2	870.8	876.8	817.7	824.5	823.7	809.1	804.8
45°	3785.3	1777.5	806.6	845.1	847.7	787.7	769.7	777.4	781.7	774.0	773.2
47.5°	3710.8	1638.8	785.1	791.1	813.4	747.5	725.2	726.1	733.8	734.6	731.2
50°	3501.9	1483.8	759.5	744.9	730.3	705.5	685.0	680.7	688.4	696.1	698.7
52.5°	3232.2	1335.7	716.7	694.4	660.1	660.1	650.7	637.0	647.3	657.6	661.0
55°	3034.4	1226.1	655.9	631.0	593.4	606.2	604.5	592.5	606.2	613.9	616.5
57.5°	2629.4	985.5	577.1	569.4	537.7	553.1	556.5	541.1	534.3	536.0	538.6
60°	1560.9	636.2	520.6	519.7	491.5	509.4	519.7	504.3	483.8	486.3	489.8
62.5°	700.4	486.3	449.5	446.1	445.2	468.3	479.5	464.9	435.8	438.4	441.8
65°	440.9	420.4	390.4	390.4	404.1	423.8	432.4	420.4	387.0	382.7	386.2
67.5°	409.3	391.3	360.5	354.5	361.3	377.6	378.4	355.3	335.6	332.2	332.2
70°	367.3	353.6	323.6	311.7	309.1	308.2	305.7	299.7	286.8	283.4	285.1
72.5°	304.0	294.5	275.7	262.9	256.0	255.2	244.9	239.7	228.6	226.9	226.0
75°	201.2	203.8	203.8	202.1	196.1	193.5	182.4	177.2	164.4	159.3	158.4
77.5°	119.0	121.6	125.0	125.9	125.0	125.0	114.7	108.7	95.9	89.0	87.3
80°	72.8	74.5	76.2	78.8	75.3	72.8	63.4	57.4	51.4	47.1	46.2
82.5°	47.1	48.8	49.7	51.4	49.7	46.2	38.5	35.1	30.8	27.4	26.5
85°	26.5	27.4	29.1	29.1	26.5	24.0	19.7	17.1	14.6	12.8	12.8
87.5°	9.4	9.4	9.4	10.3	8.6	7.7	5.1	3.4	2.6	2.6	2.6
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)