

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: P632908

Luminaire Tested: GWS-SA2D-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632908
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10686.8 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

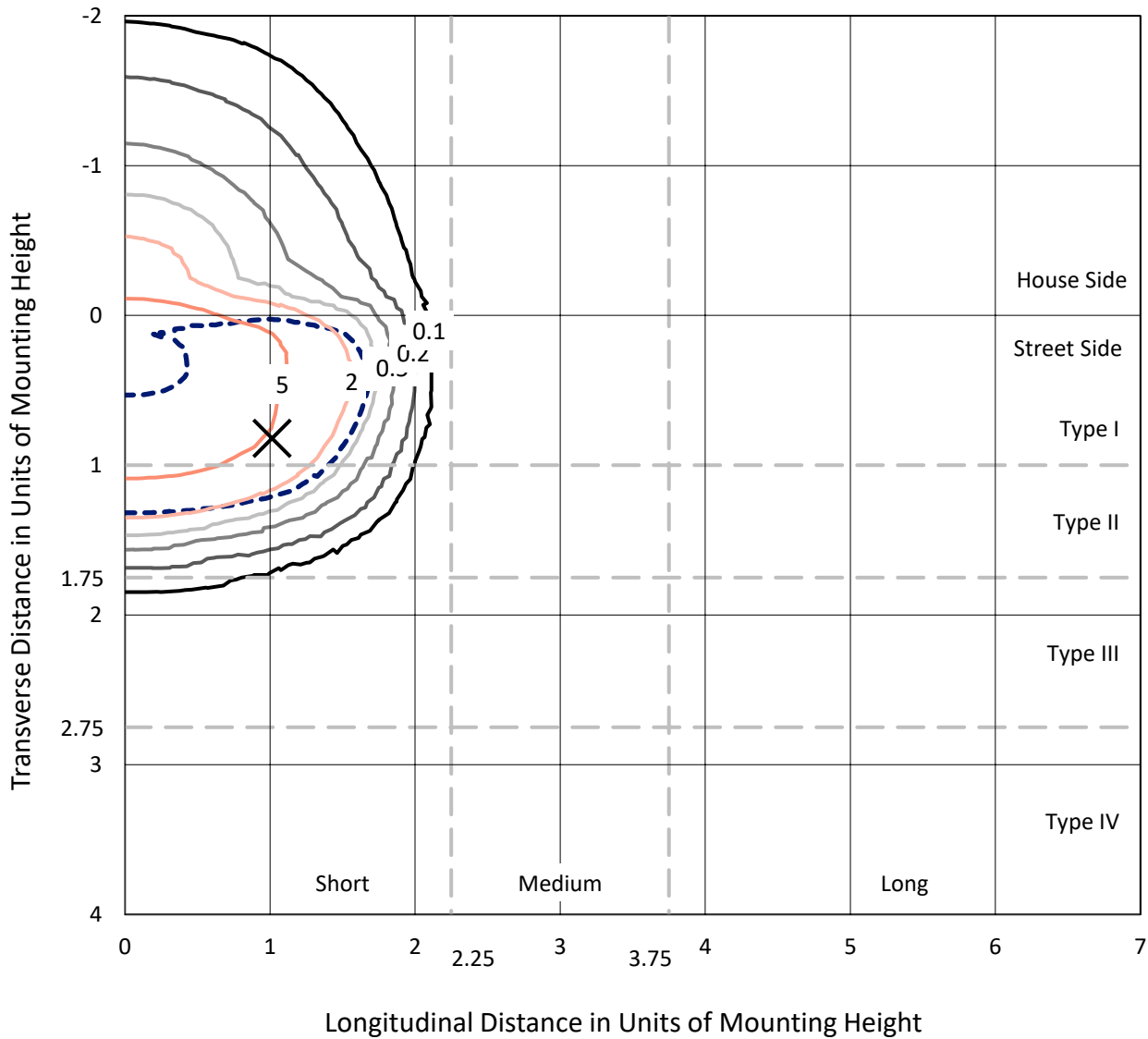
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

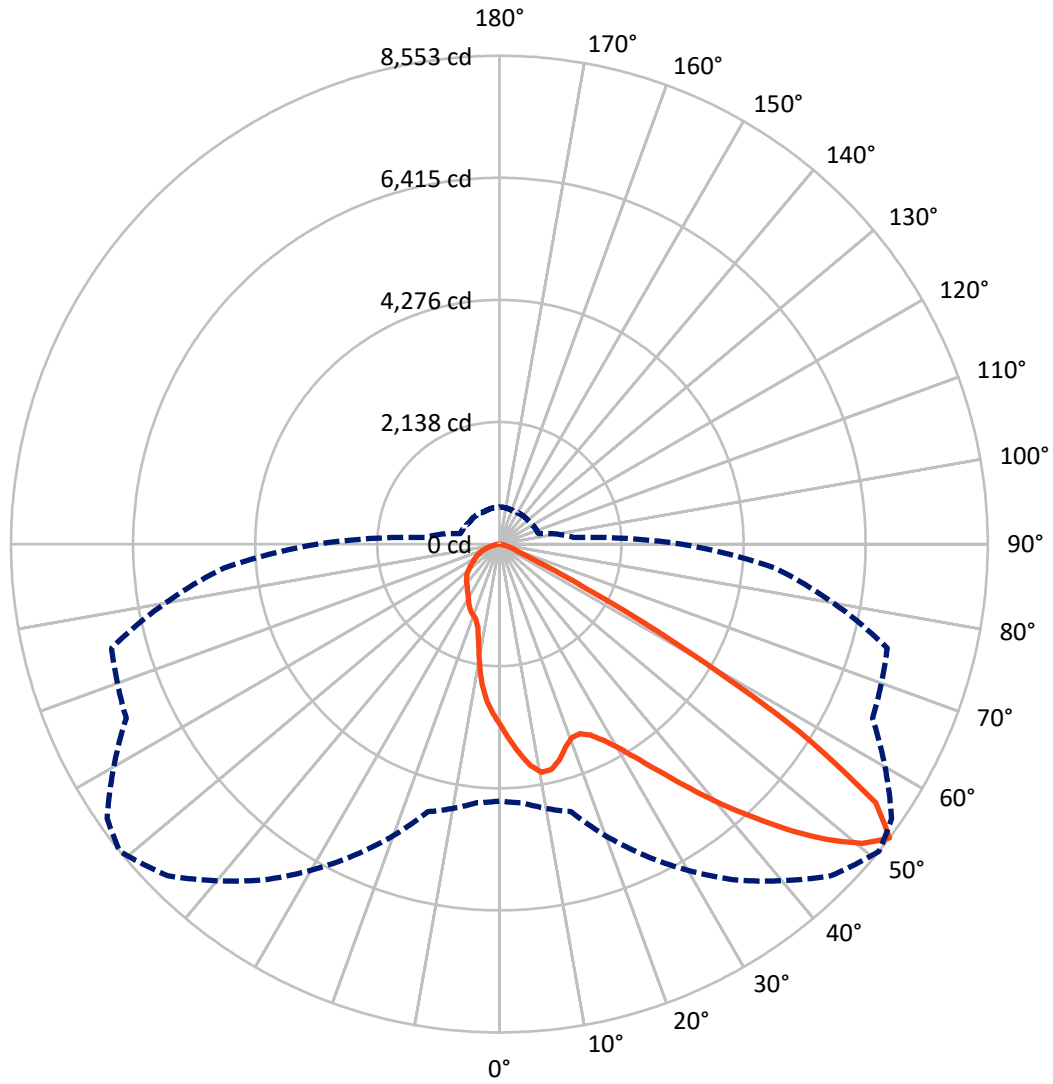
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	2082.2	0.0	2082.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	8604.6	0.0	8604.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	10686.8	0.0	10686.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.9	2.8
10°-20°	771.5	7.2
20°-30°	1254.4	11.7
30°-40°	1988.0	18.6
40°-50°	2998.3	28.1
50°-60°	2593.8	24.3
60°-70°	588.0	5.5
70°-80°	173.4	1.6
80°-90°	22.3	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°	10686.8	100.0
0°-180°	10686.8	100.0

Coefficient of Utilization



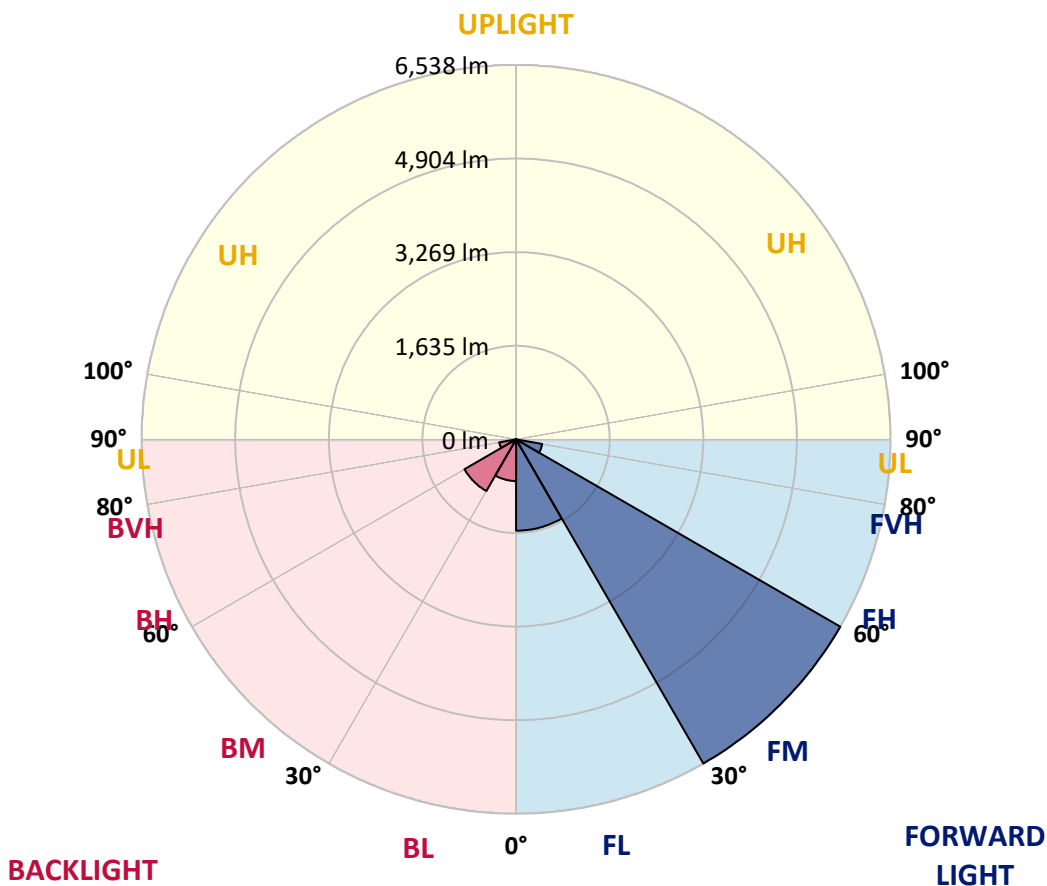
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.0	14.9			
FM (30°-60°)	6538.3	61.2			
FH (60°-80°)	462.8	4.3			G0/660
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	727.9	6.8	B2/1000		
BM (30°-60°)	1041.8	9.7	B2/2500		
BH (60°-80°)	298.7	2.8	B1/500		G1/500
BVH (80°-90°)	13.9	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°	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0
2.5°	3546.0	3566.2	3535.0	3523.2	3503.7	3470.0	3431.1	3420.1	3336.5	3281.6	3220.0
5°	3902.3	3913.3	3888.0	3862.6	3814.5	3754.5	3679.4	3663.3	3511.3	3385.5	3254.6
7.5°	3981.7	3977.5	3999.4	4013.8	4007.9	3984.2	3917.5	3886.3	3704.7	3505.4	3312.0
10°	3667.6	3643.9	3725.0	3821.3	3937.0	4070.4	4062.8	4060.3	3902.3	3666.7	3385.5
12.5°	3251.2	3239.4	3305.3	3426.0	3644.8	3940.3	4051.0	4137.1	4080.5	3820.4	3467.4
15°	3013.1	3008.9	3053.6	3140.6	3314.6	3687.8	3924.3	4094.9	4233.4	3985.1	3554.4
17.5°	2970.0	2972.6	2987.8	3037.6	3162.6	3470.0	3743.6	3981.7	4352.4	4165.8	3663.3
20°	3095.9	3112.7	3086.6	3094.2	3161.7	3391.4	3620.3	3867.7	4428.4	4347.4	3780.7
22.5°	3375.4	3369.5	3312.0	3278.3	3279.1	3439.6	3606.8	3814.5	4478.3	4523.9	3887.1
25°	3692.1	3685.3	3616.9	3541.7	3494.5	3570.5	3703.9	3871.1	4523.0	4685.2	3972.4
27.5°	4066.2	4045.1	3969.0	3872.8	3768.1	3801.0	3891.4	4023.9	4592.3	4843.9	4029.0
30°	4428.4	4452.9	4344.0	4230.0	4119.4	4099.1	4151.5	4271.4	4733.3	5029.7	4096.6
32.5°	4909.0	4900.5	4779.7	4631.1	4473.2	4458.0	4499.4	4609.2	4986.6	5286.4	4199.6
35°	5490.8	5492.5	5321.1	5120.1	4895.4	4854.9	4924.2	5030.6	5364.1	5634.4	4362.6
37.5°	6095.4	6092.9	5943.4	5715.4	5408.9	5351.5	5430.8	5510.2	5836.2	6108.1	4615.9
40°	6519.4	6536.3	6466.2	6346.3	6055.8	5915.6	5985.7	6040.6	6349.6	6665.5	4949.5
42.5°	6760.0	6785.4	6800.6	6872.4	6719.5	6570.0	6544.7	6573.4	6808.2	7183.1	5262.8
45°	6811.6	6845.3	6956.0	7222.0	7281.1	7238.9	7156.1	7086.9	7150.2	7550.5	5468.0
47.5°	6584.4	6643.5	6880.0	7345.3	7690.7	7823.2	7731.2	7625.6	7347.8	7645.1	5446.9
50°	5684.2	5753.4	6286.3	7093.6	7748.9	8232.0	8240.4	8084.2	7324.2	7372.3	5181.7
52.5°	4500.2	4547.5	4852.4	6013.5	7177.2	8215.1	8552.9	8385.7	7210.2	7031.1	4849.8
55°	2689.7	2765.7	3050.3	3967.4	5591.3	7281.1	8000.6	8081.7	7154.4	6744.8	4623.5
57.5°	907.8	945.0	1216.9	1752.3	3295.2	5331.2	6181.6	6510.9	6494.9	6307.4	4181.9
60°	432.4	440.8	495.7	664.6	1319.1	2785.9	3659.1	4039.1	4385.4	4420.0	2601.8
62.5°	329.3	334.4	362.3	398.6	530.3	1173.8	1677.1	1967.6	2101.9	1803.8	947.5
65°	275.3	279.5	300.6	323.4	360.6	508.4	643.5	742.3	668.8	521.0	451.8
67.5°	229.7	233.1	249.1	273.6	298.9	340.3	357.2	367.3	385.1	432.4	415.5
70°	179.9	183.3	200.1	221.3	245.7	255.9	271.9	282.1	317.5	378.3	376.6
72.5°	138.5	142.7	152.0	165.5	185.8	195.9	213.7	225.5	245.7	294.7	315.0
75°	101.3	103.9	112.3	116.5	119.1	116.5	134.3	147.8	174.8	193.4	198.5
77.5°	41.4	46.4	44.8	44.8	53.2	64.2	73.5	81.9	100.5	111.5	112.3
80°	16.9	18.6	22.0	24.5	29.6	38.0	43.9	47.3	55.7	62.5	67.6
82.5°	10.1	11.0	12.7	13.5	16.9	22.0	25.3	27.9	34.6	41.4	43.9
85°	5.1	5.1	5.9	6.8	8.4	10.1	11.8	13.5	17.7	22.0	24.5
87.5°	0.8	0.8	0.8	1.7	2.5	3.4	4.2	5.1	5.9	6.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0	3182.0
2.5°	3183.7	3138.1	3084.9	3042.7	2993.7	2957.4	2905.8	2873.8	2843.4	2818.0	2799.4
5°	3187.1	3110.2	2999.6	2901.6	2800.3	2704.0	2605.2	2525.0	2453.2	2393.3	2388.2
7.5°	3206.5	3095.9	2922.7	2751.3	2553.7	2362.8	2172.0	2016.6	1898.4	1836.7	1824.1
10°	3239.4	3094.2	2844.2	2570.6	2233.6	1926.3	1699.9	1581.7	1513.3	1488.8	1480.4
12.5°	3274.0	3089.9	2743.7	2315.6	1847.7	1578.3	1454.2	1439.8	1452.5	1454.2	1453.3
15°	3316.3	3087.4	2617.0	2016.6	1565.7	1417.0	1425.5	1455.9	1485.4	1492.2	1492.2
17.5°	3367.8	3081.5	2444.8	1724.4	1389.2	1385.8	1430.5	1471.1	1498.9	1504.0	1504.0
20°	3421.8	3066.3	2232.8	1486.3	1317.4	1366.4	1414.5	1445.7	1465.2	1471.9	1472.8
22.5°	3459.0	3025.8	1988.7	1309.8	1272.6	1329.2	1363.8	1395.9	1395.9	1379.0	1374.0
25°	3466.6	2938.8	1724.4	1189.0	1219.4	1271.8	1307.3	1288.7	1254.1	1240.5	1239.7
27.5°	3438.7	2812.1	1463.5	1102.9	1155.2	1207.6	1201.7	1174.7	1159.5	1146.0	1151.0
30°	3404.9	2660.1	1237.2	1032.0	1080.9	1132.4	1112.2	1102.9	1091.9	1076.7	1080.1
32.5°	3382.1	2490.4	1063.2	977.1	1031.1	1039.6	1053.9	1053.1	1042.9	1014.2	1012.5
35°	3388.9	2318.9	946.7	932.3	989.7	986.4	1013.4	1008.3	938.2	898.5	896.0
37.5°	3442.9	2154.3	878.3	896.8	923.9	945.0	968.6	907.8	883.3	858.0	859.7
40°	3546.0	2001.4	841.1	877.4	884.2	915.4	860.5	859.7	848.7	825.9	825.1
42.5°	3662.5	1872.2	815.8	868.1	858.8	864.7	806.5	813.2	812.4	798.0	793.8
45°	3733.4	1753.1	795.5	833.5	836.0	776.9	759.2	766.8	771.0	763.4	762.6
47.5°	3660.0	1616.3	774.4	780.3	802.3	737.2	715.3	716.1	723.7	724.6	721.2
50°	3453.9	1463.5	749.1	734.7	720.3	695.8	675.6	671.4	679.0	686.6	689.1
52.5°	3187.9	1317.4	706.8	684.9	651.1	651.1	641.8	628.3	638.4	648.6	651.9
55°	2992.8	1209.3	646.9	622.4	585.2	597.9	596.2	584.4	597.9	605.5	608.0
57.5°	2593.4	972.0	569.2	561.6	530.3	545.5	548.9	533.7	527.0	528.6	531.2
60°	1539.5	627.4	513.4	512.6	484.7	502.5	512.6	497.4	477.1	479.7	483.0
62.5°	690.8	479.7	443.4	440.0	439.1	461.9	472.9	458.6	429.8	432.4	435.8
65°	434.9	414.6	385.1	385.1	398.6	418.0	426.5	414.6	381.7	377.5	380.9
67.5°	403.7	385.9	355.5	349.6	356.4	372.4	373.3	350.5	331.0	327.7	327.7
70°	362.3	348.8	319.2	307.4	304.9	304.0	301.5	295.6	282.9	279.5	281.2
72.5°	299.8	290.5	271.9	259.3	252.5	251.7	241.5	236.5	225.5	223.8	222.9
75°	198.5	201.0	201.0	199.3	193.4	190.9	179.9	174.8	162.1	157.1	156.2
77.5°	117.4	119.9	123.3	124.1	123.3	123.3	113.2	107.2	94.6	87.8	86.1
80°	71.8	73.5	75.2	77.7	74.3	71.8	62.5	56.6	50.7	46.4	45.6
82.5°	46.4	48.1	49.0	50.7	49.0	45.6	38.0	34.6	30.4	27.0	26.2
85°	26.2	27.0	28.7	28.7	26.2	23.6	19.4	16.9	14.4	12.7	12.7
87.5°	9.3	9.3	9.3	10.1	8.4	7.6	5.1	3.4	2.5	2.5	2.5
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)