

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: P632413

Luminaire Tested: GWS-SA2C-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632413
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-SA2C-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: 8471.1 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

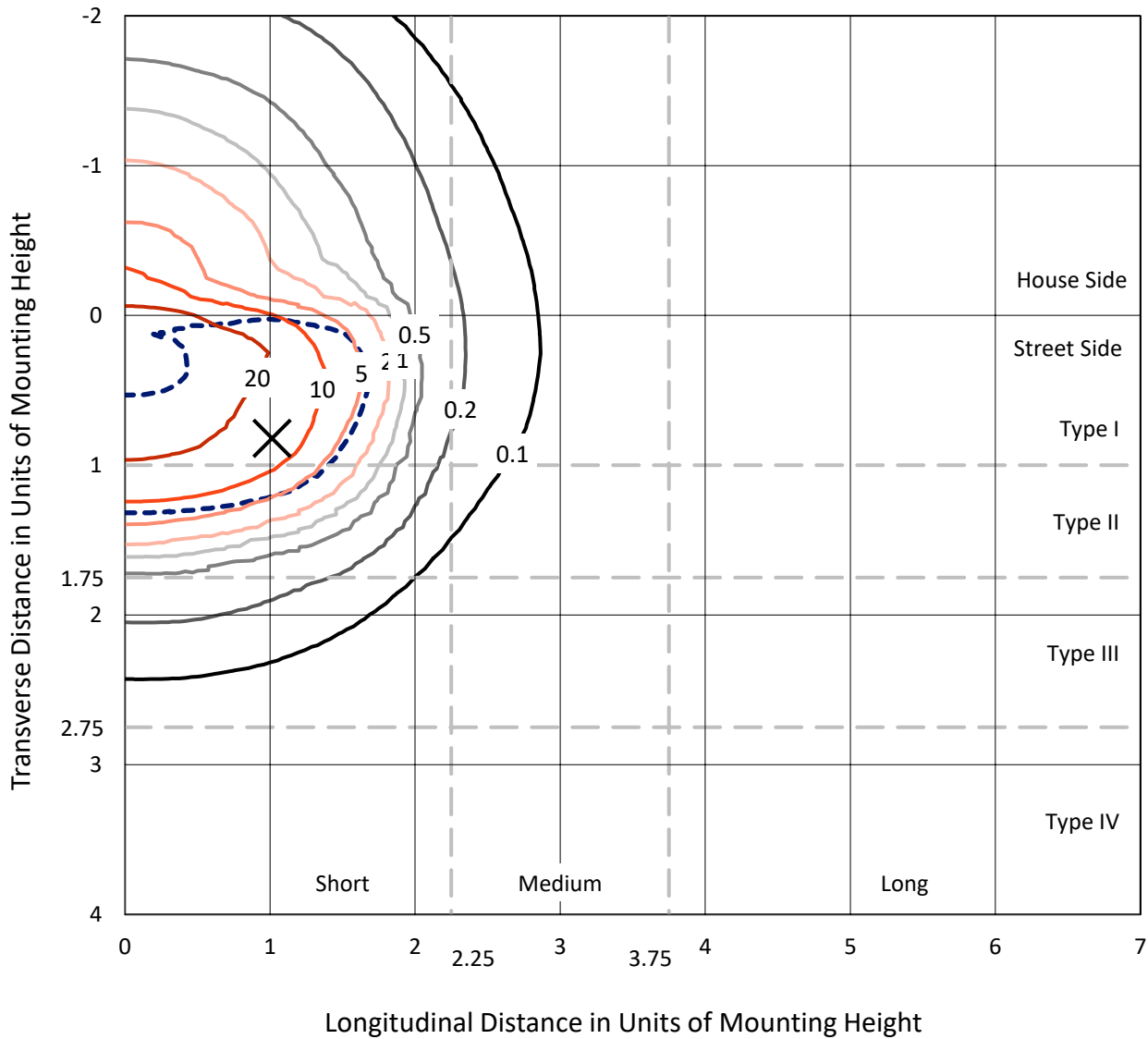
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

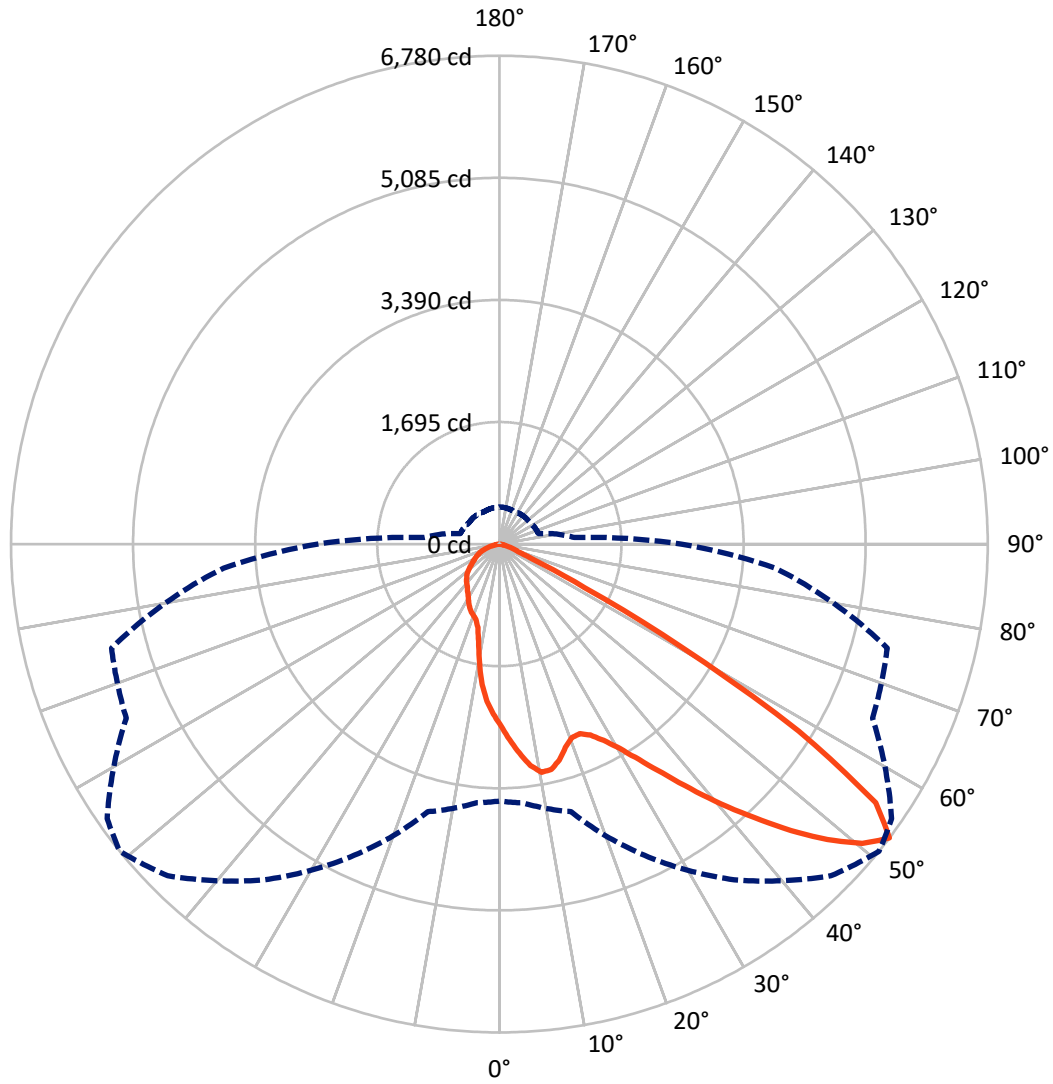
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.8 fc
 Type II - Short - N/A

REPORT NUMBER: P632413
CATALOG NUMBER: GWS-SA2C-760-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA2C-760-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1650.5	0.0	1650.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6820.6	0.0	6820.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	8471.1	0.0	8471.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	2.8
10°-20°	611.6	7.2
20°-30°	994.4	11.7
30°-40°	1575.8	18.6
40°-50°	2376.7	28.1
50°-60°	2056.0	24.3
60°-70°	466.1	5.5
70°-80°	137.4	1.6
80°-90°	17.7	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°	8471.1	100.0
0°-180°	8471.1	100.0

Coefficient of Utilization



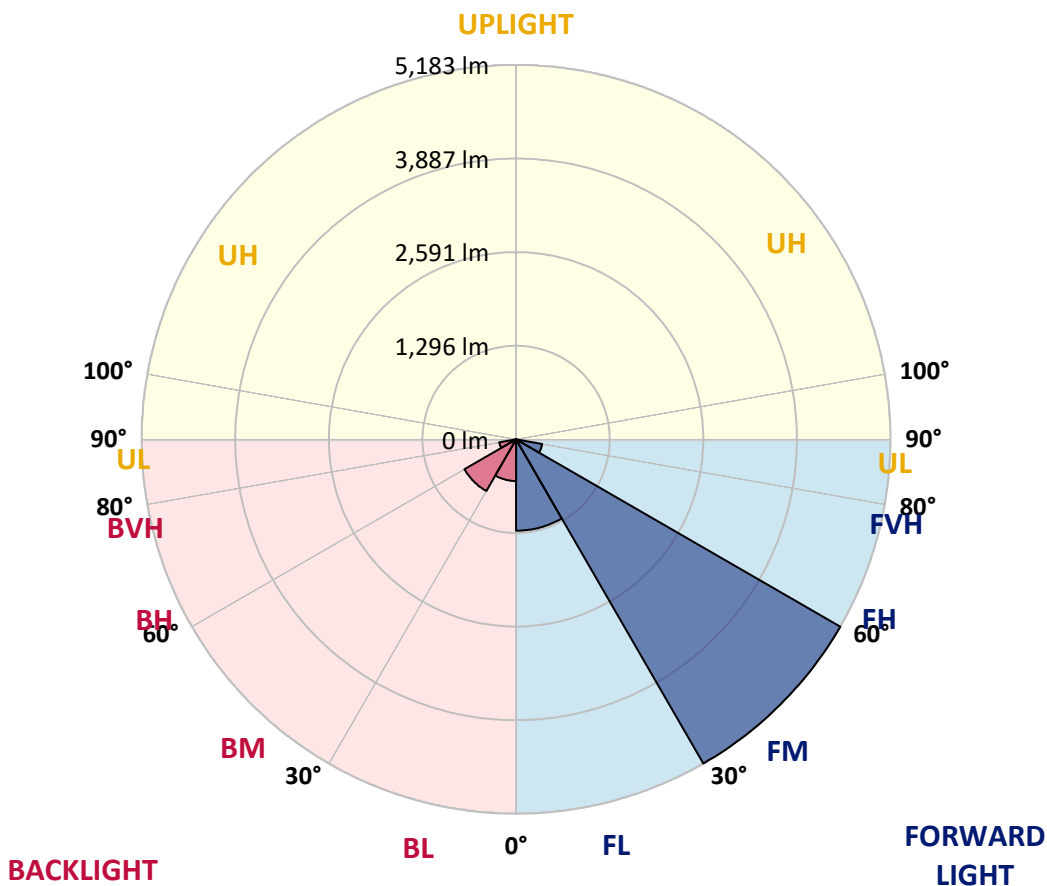
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1264.3	14.9			
FM (30°-60°)	5182.7	61.2			
FH (60°-80°)	366.8	4.3			G0/660
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	577.0	6.8	B2/1000		
BM (30°-60°)	825.8	9.7	B1/1000		
BH (60°-80°)	236.7	2.8	B1/500		G1/500
BVH (80°-90°)	11.0	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





REPORT NUMBER: P632413

CATALOG NUMBER: GWS-SA2C-760-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3
2.5°	2810.8	2826.8	2802.1	2792.7	2777.3	2750.5	2719.7	2711.0	2644.8	2601.3	2552.4
5°	3093.3	3102.0	3081.9	3061.8	3023.6	2976.1	2916.5	2903.8	2783.3	2683.6	2579.8
7.5°	3156.2	3152.8	3170.2	3181.6	3176.9	3158.2	3105.3	3080.5	2936.6	2778.6	2625.4
10°	2907.2	2888.4	2952.7	3029.0	3120.7	3226.5	3220.4	3218.4	3093.3	2906.5	2683.6
12.5°	2577.2	2567.8	2620.0	2715.7	2889.1	3123.4	3211.1	3279.4	3234.5	3028.3	2748.5
15°	2388.4	2385.0	2420.5	2489.5	2627.4	2923.2	3110.7	3245.9	3355.7	3158.9	2817.5
17.5°	2354.3	2356.3	2368.3	2407.8	2506.9	2750.5	2967.4	3156.2	3450.0	3302.1	2903.8
20°	2454.0	2467.4	2446.6	2452.7	2506.2	2688.3	2869.7	3065.8	3510.3	3446.0	2996.9
22.5°	2675.6	2670.9	2625.4	2598.6	2599.2	2726.4	2859.0	3023.6	3549.8	3585.9	3081.2
25°	2926.6	2921.2	2867.0	2807.4	2769.9	2830.2	2936.0	3068.5	3585.3	3713.8	3148.8
27.5°	3223.1	3206.4	3146.1	3069.8	2986.8	3012.9	3084.6	3189.7	3640.2	3839.6	3193.7
30°	3510.3	3529.7	3443.4	3353.0	3265.3	3249.2	3290.7	3385.8	3751.9	3986.9	3247.2
32.5°	3891.2	3884.5	3788.8	3670.9	3545.8	3533.7	3566.5	3653.5	3952.8	4190.4	3328.9
35°	4352.4	4353.7	4217.8	4058.5	3880.5	3848.3	3903.2	3987.6	4252.0	4466.2	3458.1
37.5°	4831.7	4829.7	4711.2	4530.4	4287.5	4241.9	4304.9	4367.8	4626.2	4841.7	3658.9
40°	5167.7	5181.1	5125.5	5030.5	4800.2	4689.1	4744.7	4788.2	5033.2	5283.5	3923.3
42.5°	5358.5	5378.6	5390.6	5447.5	5326.4	5207.9	5187.8	5210.5	5396.6	5693.8	4171.7
45°	5399.3	5426.1	5513.8	5724.6	5771.5	5738.0	5672.4	5617.5	5667.7	5985.0	4334.3
47.5°	5219.2	5266.1	5453.5	5822.4	6096.2	6201.2	6128.3	6044.6	5824.4	6060.0	4317.6
50°	4505.7	4560.6	4983.0	5622.9	6142.3	6525.2	6531.9	6408.1	5805.6	5843.8	4107.4
52.5°	3567.2	3604.7	3846.3	4766.7	5689.2	6511.8	6779.6	6647.1	5715.3	5573.4	3844.3
55°	2132.0	2192.3	2417.8	3144.8	4432.0	5771.5	6341.8	6406.1	5671.1	5346.4	3664.9
57.5°	719.6	749.0	964.6	1389.0	2612.0	4225.9	4899.9	5161.0	5148.3	4999.7	3314.8
60°	342.7	349.4	392.9	526.8	1045.6	2208.3	2900.5	3201.7	3476.2	3503.6	2062.4
62.5°	261.1	265.1	287.2	316.0	420.4	930.5	1329.4	1559.7	1666.1	1429.8	751.1
65°	218.2	221.6	238.3	256.4	285.8	403.0	510.1	588.4	530.2	413.0	358.1
67.5°	182.1	184.8	197.5	216.9	237.0	269.8	283.2	291.2	305.2	342.7	329.3
70°	142.6	145.3	158.6	175.4	194.8	202.8	215.5	223.6	251.7	299.9	298.5
72.5°	109.8	113.1	120.5	131.2	147.3	155.3	169.4	178.7	194.8	233.6	249.7
75°	80.3	82.3	89.0	92.4	94.4	92.4	106.4	117.1	138.6	153.3	157.3
77.5°	32.8	36.8	35.5	35.5	42.2	50.9	58.2	64.9	79.7	88.4	89.0
80°	13.4	14.7	17.4	19.4	23.4	30.1	34.8	37.5	44.2	49.5	53.6
82.5°	8.0	8.7	10.0	10.7	13.4	17.4	20.1	22.1	27.4	32.8	34.8
85°	4.0	4.0	4.7	5.4	6.7	8.0	9.4	10.7	14.1	17.4	19.4
87.5°	0.7	0.7	0.7	1.3	2.0	2.7	3.3	4.0	4.7	5.4	6.7
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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CATALOG NUMBER: GWS-SA2C-760-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3	2522.3
2.5°	2523.6	2487.5	2445.3	2411.8	2373.0	2344.2	2303.4	2277.9	2253.8	2233.8	2219.0
5°	2526.3	2465.4	2377.7	2300.0	2219.7	2143.4	2065.1	2001.5	1944.6	1897.1	1893.0
7.5°	2541.7	2454.0	2316.8	2180.9	2024.2	1873.0	1721.7	1598.5	1504.8	1455.9	1445.9
10°	2567.8	2452.7	2254.5	2037.6	1770.5	1526.9	1347.5	1253.8	1199.6	1180.1	1173.4
12.5°	2595.2	2449.3	2174.9	1835.5	1464.6	1251.1	1152.7	1141.3	1151.4	1152.7	1152.0
15°	2628.7	2447.3	2074.4	1598.5	1241.1	1123.2	1129.9	1154.0	1177.5	1182.8	1182.8
17.5°	2669.5	2442.6	1937.9	1366.9	1101.1	1098.5	1134.0	1166.1	1188.2	1192.2	1192.2
20°	2712.4	2430.6	1769.9	1178.1	1044.3	1083.1	1121.2	1146.0	1161.4	1166.8	1167.4
22.5°	2741.8	2398.4	1576.4	1038.2	1008.8	1053.6	1081.1	1106.5	1106.5	1093.1	1089.1
25°	2747.9	2329.5	1366.9	942.5	966.6	1008.1	1036.2	1021.5	994.0	983.3	982.7
27.5°	2725.8	2229.1	1160.1	874.2	915.7	957.2	952.5	931.1	919.1	908.4	912.4
30°	2699.0	2108.6	980.7	818.0	856.8	897.7	881.6	874.2	865.5	853.5	856.2
32.5°	2680.9	1974.0	842.8	774.5	817.3	824.0	835.4	834.7	826.7	803.9	802.6
35°	2686.3	1838.2	750.4	739.0	784.5	781.8	803.3	799.3	743.7	712.2	710.2
37.5°	2729.1	1707.6	696.2	710.9	732.3	749.0	767.8	719.6	700.2	680.1	681.4
40°	2810.8	1586.5	666.7	695.5	700.9	725.6	682.1	681.4	672.7	654.7	654.0
42.5°	2903.2	1484.0	646.6	688.1	680.8	685.5	639.3	644.6	644.0	632.6	629.2
45°	2959.4	1389.7	630.6	660.7	662.7	615.8	601.8	607.8	611.2	605.1	604.5
47.5°	2901.1	1281.2	613.8	618.5	635.9	584.4	567.0	567.6	573.7	574.3	571.7
50°	2737.8	1160.1	593.8	582.4	571.0	551.6	535.5	532.2	538.2	544.2	546.2
52.5°	2527.0	1044.3	560.3	542.9	516.1	516.1	508.7	498.0	506.1	514.1	516.8
55°	2372.3	958.6	512.8	493.3	463.9	473.9	472.6	463.2	473.9	480.0	482.0
57.5°	2055.7	770.5	451.2	445.1	420.4	432.4	435.1	423.1	417.7	419.0	421.0
60°	1220.3	497.4	407.0	406.3	384.2	398.3	406.3	394.3	378.2	380.2	382.9
62.5°	547.6	380.2	351.4	348.8	348.1	366.2	374.9	363.5	340.7	342.7	345.4
65°	344.7	328.7	305.2	305.2	316.0	331.3	338.0	328.7	302.6	299.2	301.9
67.5°	320.0	305.9	281.8	277.1	282.5	295.2	295.9	277.8	262.4	259.7	259.7
70°	287.2	276.5	253.0	243.7	241.7	241.0	239.0	234.3	224.2	221.6	222.9
72.5°	237.6	230.3	215.5	205.5	200.1	199.5	191.4	187.4	178.7	177.4	176.7
75°	157.3	159.3	159.3	158.0	153.3	151.3	142.6	138.6	128.5	124.5	123.8
77.5°	93.0	95.1	97.7	98.4	97.7	97.7	89.7	85.0	75.0	69.6	68.3
80°	56.9	58.2	59.6	61.6	58.9	56.9	49.5	44.8	40.2	36.8	36.1
82.5°	36.8	38.2	38.8	40.2	38.8	36.1	30.1	27.4	24.1	21.4	20.8
85°	20.8	21.4	22.8	22.8	20.8	18.7	15.4	13.4	11.4	10.0	10.0
87.5°	7.4	7.4	7.4	8.0	6.7	6.0	4.0	2.7	2.0	2.0	2.0
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)