

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: P632248

Luminaire Tested: GWS-SA2C-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632248
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8281.3 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

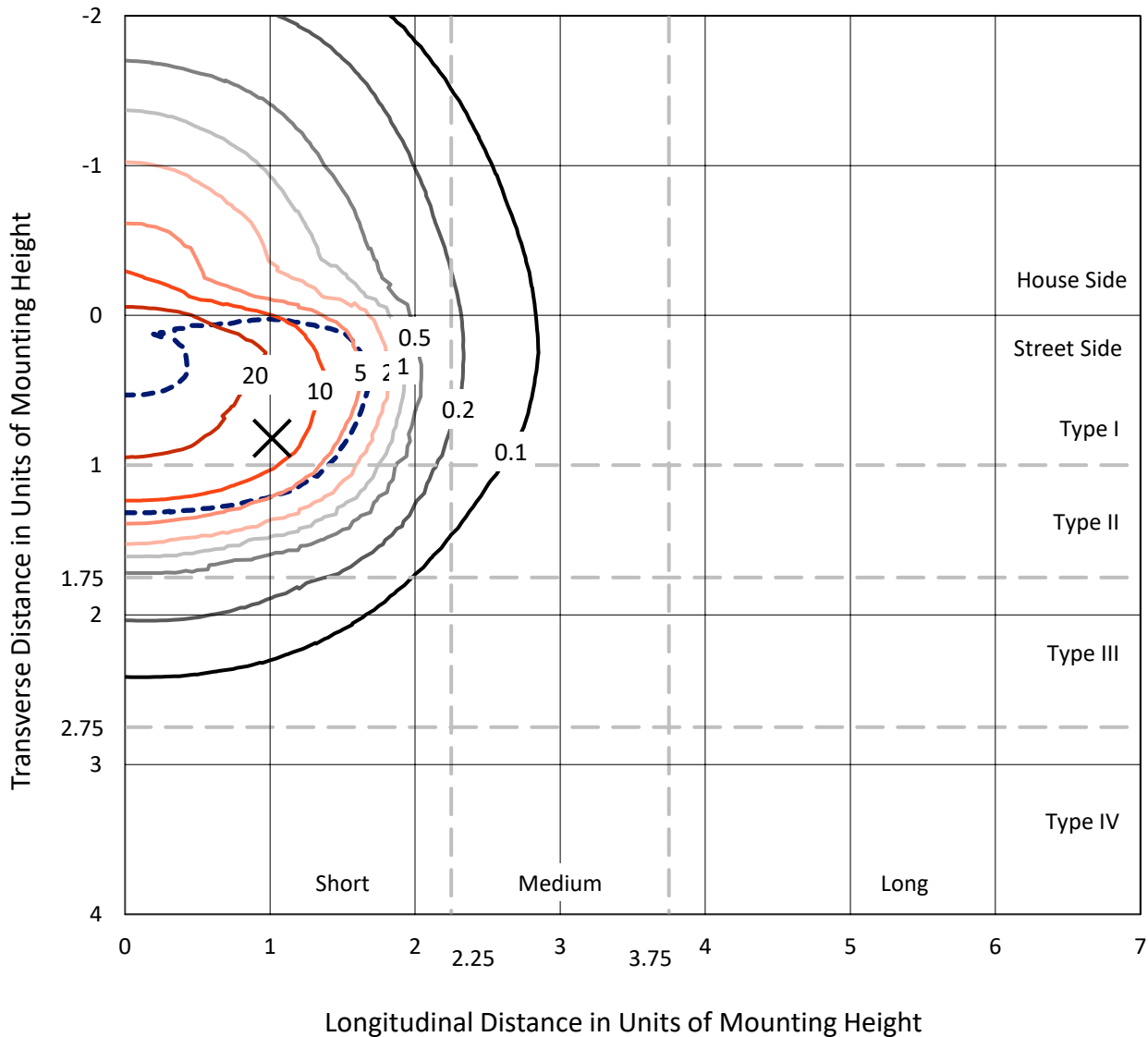
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632248
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Iso-Footcandle Lines of Horizontal Illumination

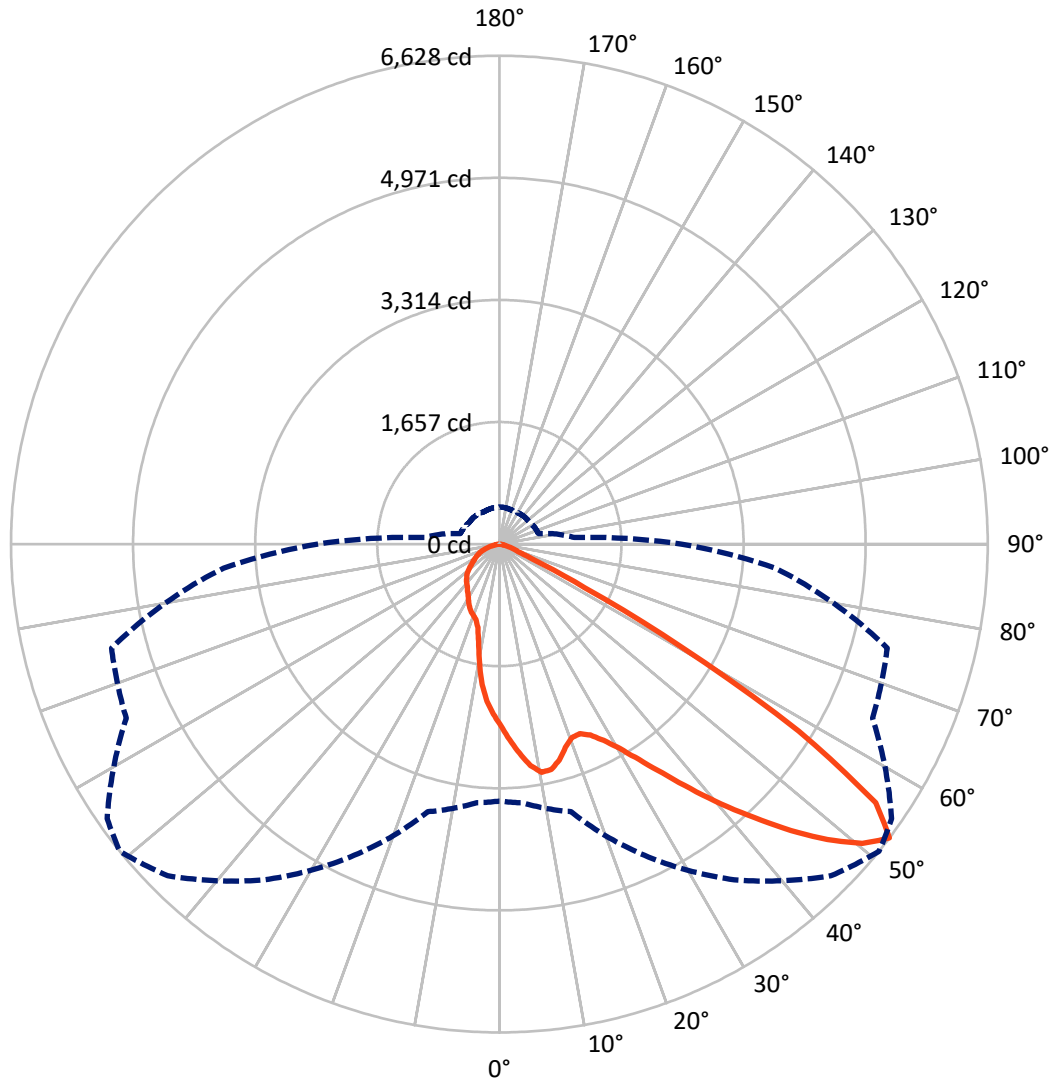
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 30.1 fc
 Type II - Short - N/A

REPORT NUMBER: P632248
CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632248

CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1613.5	0.0	1613.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6667.8	0.0	6667.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	8281.3	0.0	8281.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	2.8
10°-20°	597.9	7.2
20°-30°	972.1	11.7
30°-40°	1540.5	18.6
40°-50°	2323.4	28.1
50°-60°	2010.0	24.3
60°-70°	455.7	5.5
70°-80°	134.4	1.6
80°-90°	17.3	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°	8281.3	100.0
0°-180°	8281.3	100.0

Coefficient of Utilization



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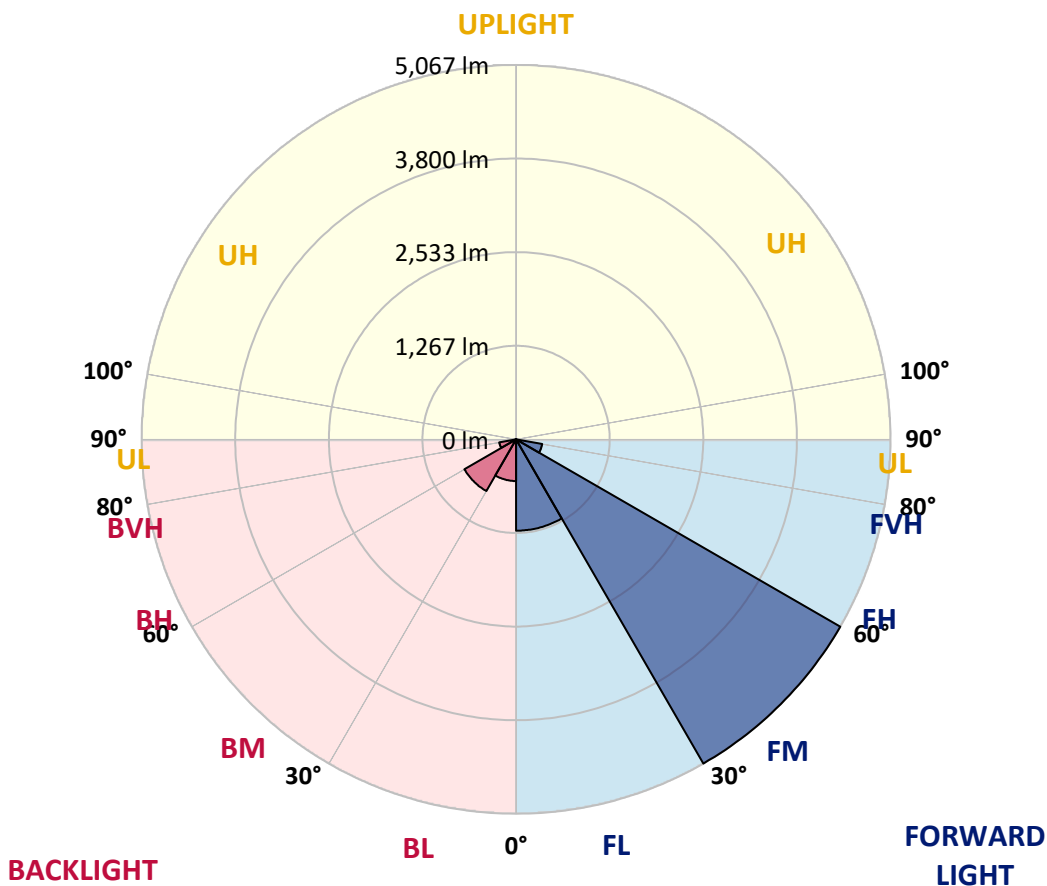
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1236.0	14.9			
FM (30°-60°)	5066.6	61.2			
FH (60°-80°)	358.6	4.3			G0/660
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	564.0	6.8	B2/1000		
BM (30°-60°)	807.3	9.7	B1/1000		
BH (60°-80°)	231.4	2.8	B1/500		G1/500
BVH (80°-90°)	10.8	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: P632248

CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8
2.5°	2747.8	2763.5	2739.3	2730.1	2715.1	2688.9	2658.8	2650.3	2585.5	2543.0	2495.2
5°	3024.0	3032.5	3012.8	2993.2	2955.9	2909.4	2851.2	2838.8	2721.0	2623.5	2522.0
7.5°	3085.5	3082.2	3099.2	3110.3	3105.8	3087.4	3035.7	3011.5	2870.8	2716.4	2566.5
10°	2842.0	2823.7	2886.5	2961.1	3050.8	3154.2	3148.3	3146.3	3024.0	2841.4	2623.5
12.5°	2519.4	2510.3	2561.3	2654.9	2824.4	3053.4	3139.1	3205.9	3162.0	2960.5	2686.9
15°	2334.9	2331.6	2366.3	2433.7	2568.5	2857.7	3041.0	3173.2	3280.5	3088.1	2754.3
17.5°	2301.5	2303.5	2315.2	2353.9	2450.7	2688.9	2900.9	3085.5	3372.7	3228.1	2838.8
20°	2399.0	2412.1	2391.8	2397.7	2450.1	2628.0	2805.4	2997.1	3431.6	3368.8	2929.7
22.5°	2615.6	2611.0	2566.5	2540.4	2541.0	2665.3	2794.9	2955.9	3470.3	3505.6	3012.2
25°	2861.0	2855.8	2802.8	2744.5	2707.9	2766.8	2870.2	2999.7	3504.9	3630.6	3078.3
27.5°	3150.9	3134.5	3075.7	3001.1	2919.9	2945.4	3015.4	3118.2	3558.6	3753.6	3122.1
30°	3431.6	3450.6	3366.2	3277.9	3192.1	3176.4	3217.0	3309.9	3667.9	3897.6	3174.5
32.5°	3804.0	3797.4	3703.9	3588.7	3466.3	3454.5	3486.6	3571.7	3864.2	4096.5	3254.3
35°	4254.9	4256.2	4123.3	3967.6	3793.5	3762.1	3815.8	3898.2	4156.7	4366.1	3380.6
37.5°	4723.4	4721.5	4605.6	4428.9	4191.4	4146.9	4208.4	4269.9	4522.5	4733.2	3576.9
40°	5051.9	5065.0	5010.7	4917.8	4692.7	4584.0	4638.3	4680.9	4920.4	5165.1	3835.4
42.5°	5238.4	5258.1	5269.8	5325.5	5207.0	5091.2	5071.6	5093.8	5275.7	5566.3	4078.2
45°	5278.3	5304.5	5390.2	5596.4	5642.2	5609.5	5545.3	5491.7	5540.8	5850.9	4237.2
47.5°	5102.3	5148.1	5331.3	5691.9	5959.6	6062.3	5991.0	5909.2	5693.9	5924.2	4220.8
50°	4404.7	4458.4	4871.3	5496.9	6004.7	6379.0	6385.6	6264.5	5675.6	5712.9	4015.4
52.5°	3487.3	3523.9	3760.1	4659.9	5561.7	6365.9	6627.7	6498.1	5587.2	5448.5	3758.2
55°	2084.2	2143.1	2363.7	3074.3	4332.7	5642.2	6199.7	6262.5	5544.0	5226.6	3582.8
57.5°	703.5	732.3	943.0	1357.9	2553.4	4131.2	4790.2	5045.4	5032.9	4887.7	3240.6
60°	335.0	341.6	384.1	515.0	1022.2	2158.8	2835.5	3130.0	3398.3	3425.1	2016.2
62.5°	255.2	259.1	280.7	308.9	411.0	909.6	1299.6	1524.7	1628.8	1397.8	734.2
65°	213.3	216.6	233.0	250.6	279.4	393.9	498.6	575.2	518.3	403.8	350.1
67.5°	178.0	180.6	193.0	212.0	231.7	263.7	276.8	284.7	298.4	335.0	322.0
70°	139.4	142.0	155.1	171.5	190.4	198.3	210.7	218.6	246.1	293.2	291.9
72.5°	107.3	110.6	117.8	128.3	144.0	151.8	165.6	174.7	190.4	228.4	244.1
75°	78.5	80.5	87.0	90.3	92.3	90.3	104.0	114.5	135.5	149.9	153.8
77.5°	32.1	36.0	34.7	34.7	41.2	49.7	56.9	63.5	77.9	86.4	87.0
80°	13.1	14.4	17.0	19.0	22.9	29.4	34.0	36.6	43.2	48.4	52.4
82.5°	7.9	8.5	9.8	10.5	13.1	17.0	19.6	21.6	26.8	32.1	34.0
85°	3.9	3.9	4.6	5.2	6.5	7.9	9.2	10.5	13.7	17.0	19.0
87.5°	0.7	0.7	0.7	1.3	2.0	2.6	3.3	3.9	4.6	5.2	6.5
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: P632248
 CATALOG NUMBER: GWS-SA2C-735-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8	2465.8
2.5°	2467.1	2431.7	2390.5	2357.8	2319.8	2291.7	2251.8	2226.9	2203.3	2183.7	2169.3
5°	2469.7	2410.1	2324.4	2248.5	2170.0	2095.4	2018.8	1956.6	1901.0	1854.6	1850.6
7.5°	2484.7	2399.0	2264.9	2132.0	1978.9	1831.0	1683.1	1562.7	1471.1	1423.3	1413.5
10°	2510.3	2397.7	2204.0	1992.0	1730.9	1492.7	1317.3	1225.7	1172.7	1153.7	1147.2
12.5°	2537.1	2394.4	2126.1	1794.3	1431.8	1223.1	1126.9	1115.7	1125.6	1126.9	1126.2
15°	2569.8	2392.5	2028.0	1562.7	1213.2	1098.1	1104.6	1128.2	1151.1	1156.3	1156.3
17.5°	2609.7	2387.9	1894.5	1336.3	1076.5	1073.9	1108.5	1140.0	1161.5	1165.5	1165.5
20°	2651.6	2376.1	1730.2	1151.7	1020.9	1058.8	1096.1	1120.3	1135.4	1140.6	1141.3
22.5°	2680.4	2344.7	1541.1	1015.0	986.2	1030.0	1056.8	1081.7	1081.7	1068.6	1064.7
25°	2686.3	2277.3	1336.3	921.4	944.9	985.5	1013.0	998.6	971.8	961.3	960.7
27.5°	2664.7	2179.1	1134.1	854.6	895.2	935.8	931.2	910.3	898.5	888.0	891.9
30°	2638.5	2061.3	958.7	799.7	837.6	877.5	861.8	854.6	846.1	834.4	837.0
32.5°	2620.8	1929.8	823.9	757.1	799.0	805.6	816.7	816.0	808.2	785.9	784.6
35°	2626.1	1797.0	733.6	722.5	766.9	764.3	785.3	781.3	727.0	696.3	694.3
37.5°	2668.0	1669.4	680.6	695.0	715.9	732.3	750.6	703.5	684.5	664.9	666.2
40°	2747.8	1550.9	651.8	679.9	685.2	709.4	666.8	666.2	657.7	640.0	639.3
42.5°	2838.1	1450.8	632.1	672.7	665.5	670.1	624.9	630.2	629.5	618.4	615.1
45°	2893.1	1358.5	616.4	645.9	647.8	602.0	588.3	594.2	597.5	591.6	590.9
47.5°	2836.1	1252.5	600.1	604.7	621.7	571.3	554.3	554.9	560.8	561.5	558.9
50°	2676.5	1134.1	580.4	569.3	558.2	539.2	523.5	520.2	526.1	532.0	534.0
52.5°	2470.3	1020.9	547.7	530.7	504.5	504.5	497.3	486.9	494.7	502.6	505.2
55°	2319.2	937.1	501.3	482.3	453.5	463.3	462.0	452.8	463.3	469.2	471.2
57.5°	2009.6	753.2	441.1	435.2	411.0	422.7	425.4	413.6	408.3	409.7	411.6
60°	1193.0	486.2	397.9	397.2	375.6	389.4	397.2	385.4	369.7	371.7	374.3
62.5°	535.3	371.7	343.6	340.9	340.3	358.0	366.5	355.3	333.1	335.0	337.7
65°	337.0	321.3	298.4	298.4	308.9	323.9	330.5	321.3	295.8	292.5	295.1
67.5°	312.8	299.1	275.5	270.9	276.2	288.6	289.2	271.6	256.5	253.9	253.9
70°	280.7	270.3	247.4	238.2	236.2	235.6	233.6	229.0	219.2	216.6	217.9
72.5°	232.3	225.1	210.7	200.9	195.7	195.0	187.2	183.2	174.7	173.4	172.8
75°	153.8	155.7	155.7	154.4	149.9	147.9	139.4	135.5	125.6	121.7	121.1
77.5°	91.0	92.9	95.5	96.2	95.5	95.5	87.7	83.1	73.3	68.1	66.7
80°	55.6	56.9	58.2	60.2	57.6	55.6	48.4	43.8	39.3	36.0	35.3
82.5°	36.0	37.3	38.0	39.3	38.0	35.3	29.4	26.8	23.6	20.9	20.3
85°	20.3	20.9	22.2	22.2	20.3	18.3	15.1	13.1	11.1	9.8	9.8
87.5°	7.2	7.2	7.2	7.9	6.5	5.9	3.9	2.6	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)