

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: P634008

Luminaire Tested: GWS-SA2F-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634008
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-SA2F-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11691.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

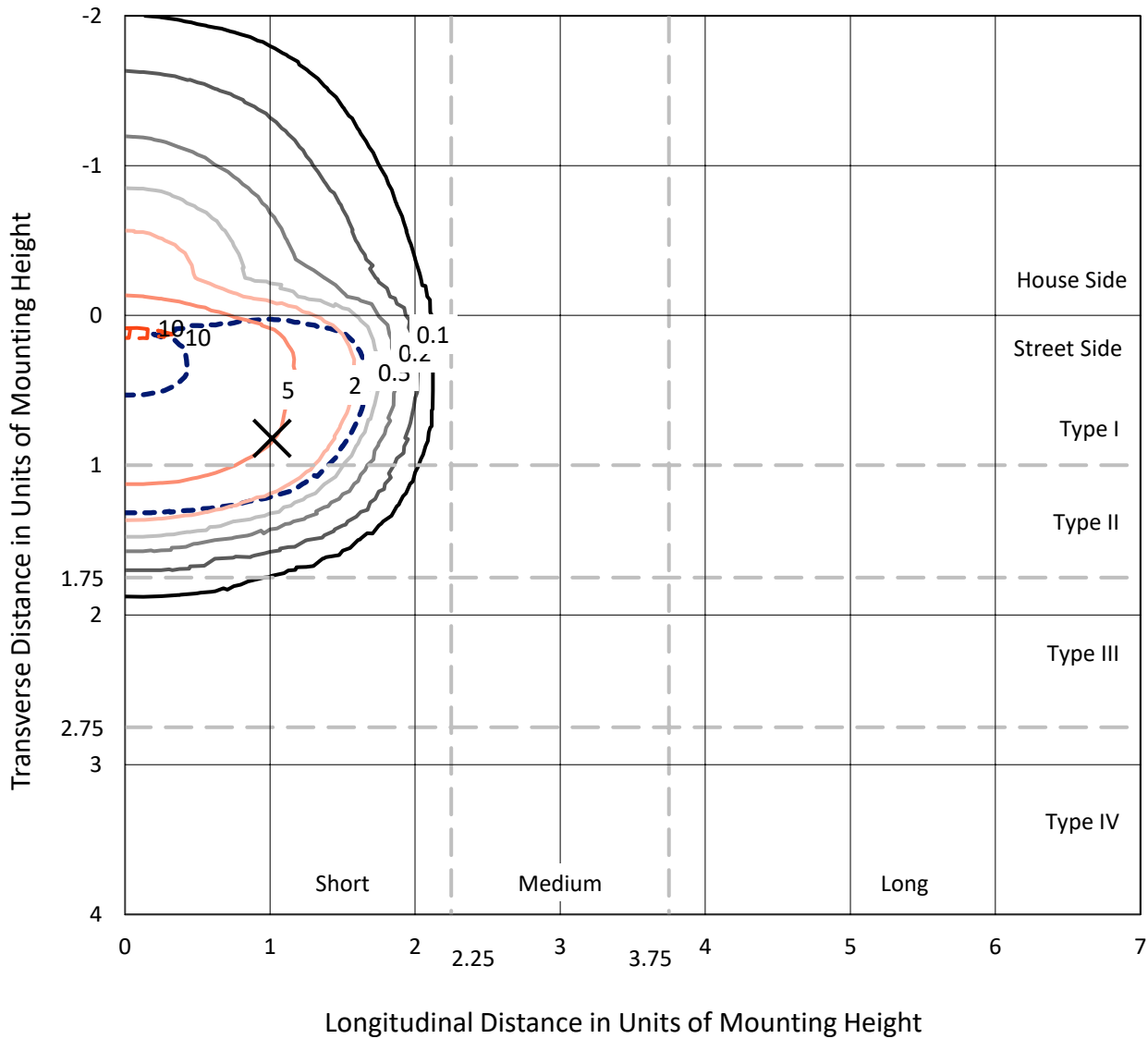
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P634008
 CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

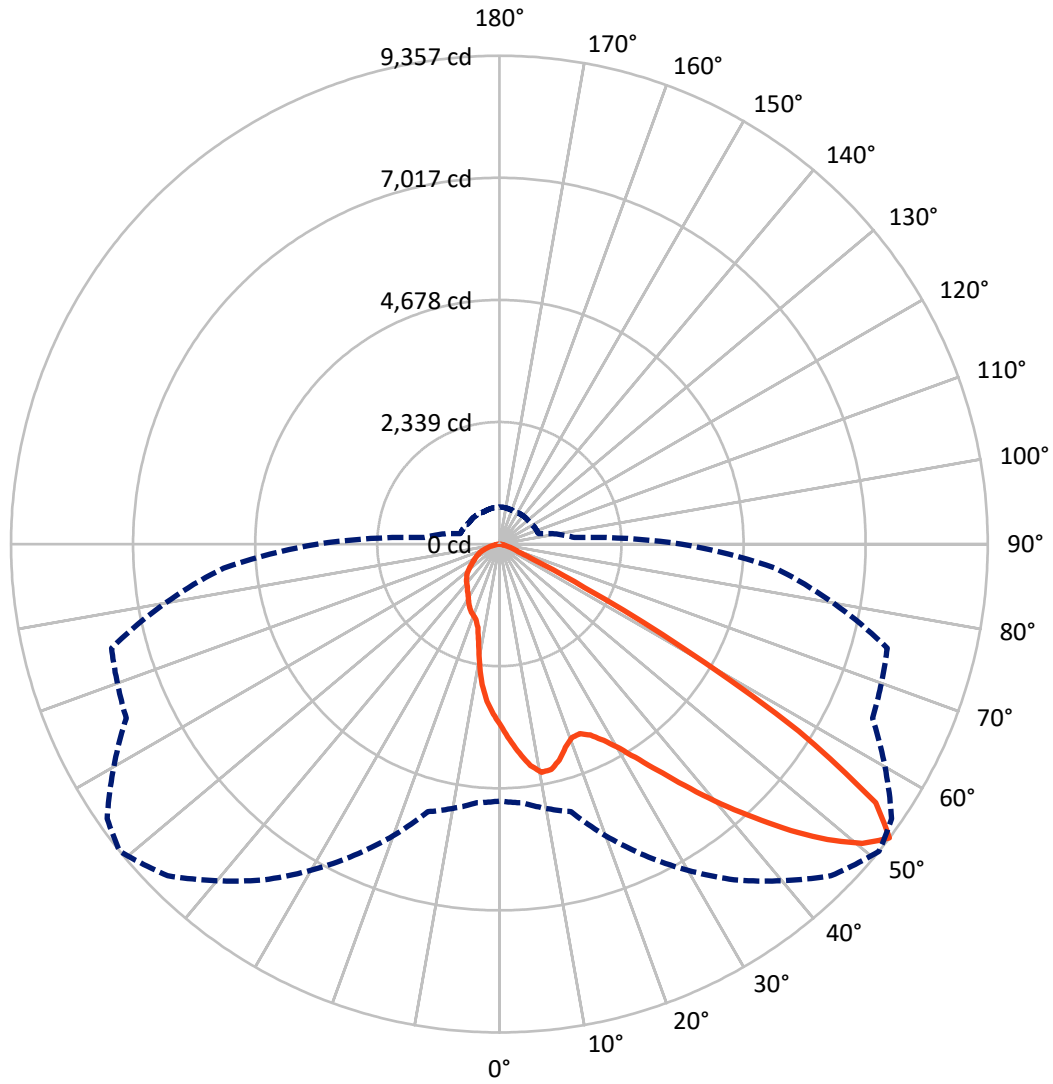
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

REPORT NUMBER: P634008
CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P634008

CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2277.9	0.0	2277.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9413.2	0.0	9413.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	11691.1	0.0	11691.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.8	2.8
10°-20°	844.0	7.2
20°-30°	1372.3	11.7
30°-40°	2174.8	18.6
40°-50°	3280.1	28.1
50°-60°	2837.6	24.3
60°-70°	643.3	5.5
70°-80°	189.7	1.6
80°-90°	24.4	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°	11691.1	100.0
0°-180°	11691.1	100.0

Coefficient of Utilization



REPORT NUMBER: P634008

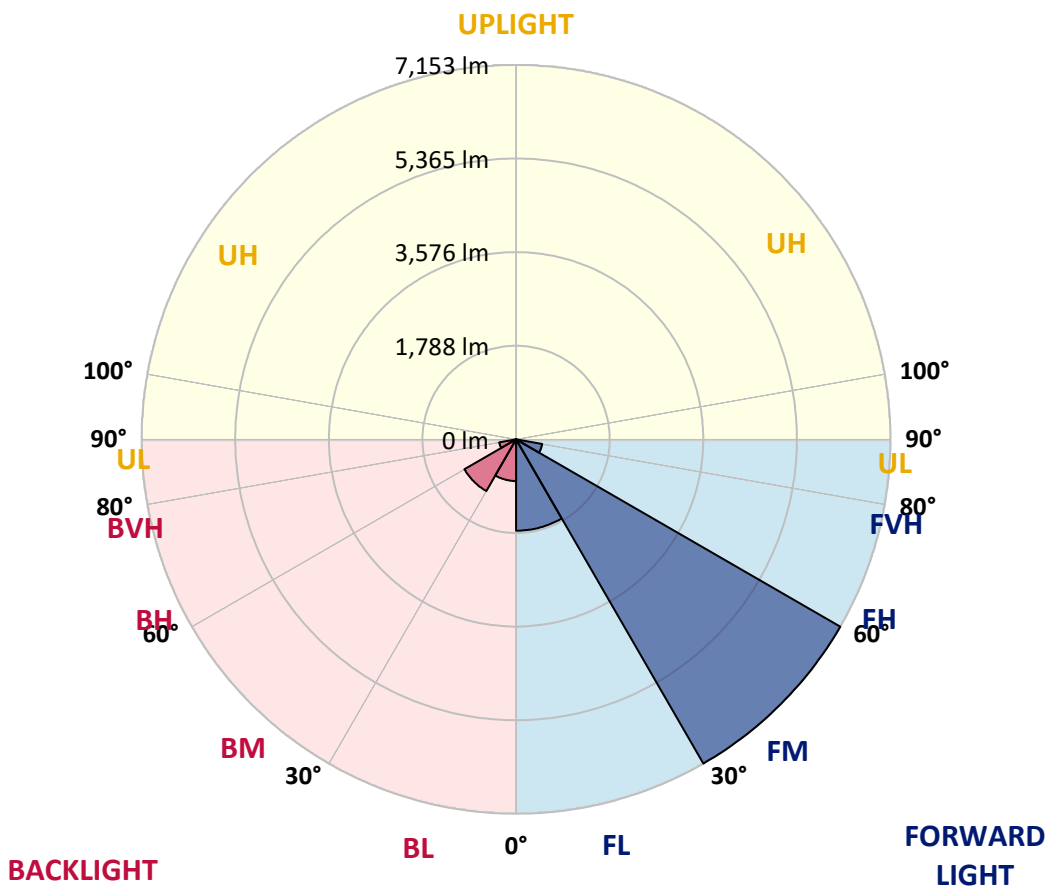
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.9	14.9			
FM (30°-60°)	7152.8	61.2			
FH (60°-80°)	506.3	4.3			G0/660
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	796.3	6.8	B2/1000		
BM (30°-60°)	1139.7	9.7	B2/2500		
BH (60°-80°)	326.7	2.8	B1/500		G1/500
BVH (80°-90°)	15.2	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: P634008

CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0
2.5°	3879.2	3901.4	3867.2	3854.3	3833.0	3796.1	3753.6	3741.5	3650.1	3590.0	3522.6
5°	4269.1	4281.1	4253.4	4225.6	4173.0	4107.4	4025.2	4007.6	3841.3	3703.7	3560.5
7.5°	4355.9	4351.3	4375.3	4391.0	4384.5	4358.7	4285.7	4251.5	4052.9	3834.9	3623.3
10°	4012.2	3986.4	4075.1	4180.4	4306.9	4452.9	4444.6	4441.8	4269.1	4011.3	3703.7
12.5°	3556.8	3543.8	3615.9	3748.0	3987.3	4310.6	4431.7	4525.9	4464.0	4179.4	3793.3
15°	3296.3	3291.6	3340.6	3435.8	3626.1	4034.4	4293.1	4479.7	4631.2	4359.6	3888.4
17.5°	3249.1	3251.9	3268.5	3323.0	3459.8	3796.1	4095.4	4355.9	4761.5	4557.3	4007.6
20°	3386.8	3405.3	3376.6	3384.9	3458.9	3710.1	3960.5	4231.2	4844.6	4755.9	4136.0
22.5°	3692.6	3686.1	3623.3	3586.3	3587.3	3762.8	3945.7	4173.0	4899.1	4949.0	4252.4
25°	4039.0	4031.6	3956.8	3874.6	3822.8	3906.0	4052.0	4234.9	4948.1	5125.5	4345.7
27.5°	4448.3	4425.2	4342.0	4236.7	4122.2	4158.2	4257.0	4402.1	5023.8	5299.1	4407.6
30°	4844.6	4871.4	4752.2	4627.5	4506.5	4484.3	4541.6	4672.8	5178.1	5502.4	4481.5
32.5°	5370.3	5361.0	5228.9	5066.3	4893.6	4876.9	4922.2	5042.3	5455.3	5783.2	4594.2
35°	6006.8	6008.6	5821.1	5601.2	5355.5	5311.1	5386.9	5503.3	5868.2	6163.9	4772.6
37.5°	6668.3	6665.5	6502.0	6252.5	5917.2	5854.4	5941.2	6028.0	6384.6	6682.1	5049.7
40°	7132.0	7150.5	7073.8	6942.6	6624.8	6471.5	6548.2	6608.2	6946.3	7291.9	5414.6
42.5°	7395.3	7423.0	7439.7	7518.2	7351.0	7187.5	7159.7	7191.2	7448.0	7858.2	5757.4
45°	7451.7	7488.6	7609.7	7900.7	7965.3	7919.1	7828.6	7752.9	7822.1	8260.0	5981.9
47.5°	7203.2	7267.8	7526.5	8035.5	8413.4	8558.4	8457.7	8342.3	8038.3	8363.5	5958.8
50°	6218.4	6294.1	6877.1	7760.2	8477.1	9005.6	9014.8	8843.9	8012.5	8065.1	5668.7
52.5°	4923.1	4974.9	5308.4	6578.7	7851.7	8987.1	9356.6	9173.7	7887.7	7691.9	5305.6
55°	2942.4	3025.6	3336.9	4340.2	6116.7	7965.3	8752.4	8841.1	7826.8	7378.7	5058.0
57.5°	993.1	1033.8	1331.3	1917.0	3604.8	5832.2	6762.5	7122.8	7105.2	6900.2	4574.8
60°	473.0	482.2	542.3	727.1	1443.0	3047.7	4003.0	4418.7	4797.5	4835.4	2846.3
62.5°	360.3	365.8	396.3	436.1	580.2	1284.1	1834.7	2152.5	2299.4	1973.3	1036.5
65°	301.2	305.8	328.9	353.8	394.5	556.2	704.0	812.1	731.7	570.0	494.3
67.5°	251.3	255.0	272.5	299.3	327.0	372.3	390.8	401.9	421.3	473.0	454.5
70°	196.8	200.5	218.9	242.0	268.8	279.9	297.5	308.6	347.4	413.9	412.0
72.5°	151.5	156.1	166.3	181.1	203.2	214.3	233.7	246.7	268.8	322.4	344.6
75°	110.9	113.6	122.9	127.5	130.3	127.5	146.9	161.7	191.2	211.6	217.1
77.5°	45.3	50.8	49.0	49.0	58.2	70.2	80.4	89.6	109.9	121.9	122.9
80°	18.5	20.3	24.0	26.8	32.3	41.6	48.0	51.7	61.0	68.4	73.9
82.5°	11.1	12.0	13.9	14.8	18.5	24.0	27.7	30.5	37.9	45.3	48.0
85°	5.5	5.5	6.5	7.4	9.2	11.1	12.9	14.8	19.4	24.0	26.8
87.5°	0.9	0.9	0.9	1.8	2.8	3.7	4.6	5.5	6.5	7.4	9.2
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: P634008

CATALOG NUMBER: GWS-SA2F-830-U-AFL-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0	3481.0
2.5°	3482.9	3433.0	3374.8	3328.6	3275.0	3235.3	3178.9	3143.8	3110.6	3082.8	3062.5
5°	3486.6	3402.5	3281.5	3174.3	3063.4	2958.1	2850.0	2762.3	2683.8	2618.2	2612.6
7.5°	3507.8	3386.8	3197.4	3009.9	2793.7	2584.9	2376.1	2206.1	2076.8	2009.3	1995.5
10°	3543.8	3384.9	3111.5	2812.2	2443.6	2107.3	1859.7	1730.3	1655.5	1628.7	1619.5
12.5°	3581.7	3380.3	3001.6	2533.2	2021.4	1726.7	1590.9	1575.1	1589.0	1590.9	1589.9
15°	3627.9	3377.6	2863.0	2206.1	1712.8	1550.2	1559.4	1592.7	1625.0	1632.4	1632.4
17.5°	3684.3	3371.1	2674.5	1886.5	1519.7	1516.0	1565.0	1609.3	1639.8	1645.4	1645.4
20°	3743.4	3354.5	2442.6	1626.0	1441.2	1494.8	1547.4	1581.6	1602.9	1610.3	1611.2
22.5°	3784.0	3310.1	2175.6	1432.9	1392.2	1454.1	1492.0	1527.1	1527.1	1508.6	1503.1
25°	3792.4	3215.0	1886.5	1300.8	1334.0	1391.3	1430.1	1409.8	1371.9	1357.1	1356.2
27.5°	3761.9	3076.4	1601.0	1206.5	1263.8	1321.1	1314.6	1285.1	1268.4	1253.6	1259.2
30°	3724.9	2910.1	1353.4	1128.9	1182.5	1238.9	1216.7	1206.5	1194.5	1177.9	1181.6
32.5°	3700.0	2724.4	1163.1	1068.9	1128.0	1137.2	1153.0	1152.0	1140.9	1109.5	1107.7
35°	3707.4	2536.9	1035.6	1019.9	1082.7	1079.0	1108.6	1103.1	1026.4	983.0	980.2
37.5°	3766.5	2356.7	960.8	981.1	1010.7	1033.8	1059.6	993.1	966.3	938.6	940.5
40°	3879.2	2189.5	920.1	959.9	967.3	1001.4	941.4	940.5	928.5	903.5	902.6
42.5°	4006.7	2048.2	892.4	949.7	939.5	946.0	882.3	889.7	888.7	873.0	868.4
45°	4084.3	1917.9	870.3	911.8	914.6	849.9	830.5	838.8	843.5	835.2	834.2
47.5°	4003.9	1768.2	847.2	853.6	877.6	806.5	782.5	783.4	791.7	792.7	789.0
50°	3778.5	1601.0	819.4	803.7	788.0	761.2	739.1	734.5	742.8	751.1	753.9
52.5°	3487.5	1441.2	773.3	749.2	712.3	712.3	702.1	687.3	698.4	709.5	713.2
55°	3274.1	1322.9	707.7	680.9	640.2	654.1	652.2	639.3	654.1	662.4	665.2
57.5°	2837.1	1063.3	622.7	614.4	580.2	596.8	600.5	583.9	576.5	578.3	581.1
60°	1684.2	686.4	561.7	560.8	530.3	549.7	560.8	544.1	522.0	524.7	528.4
62.5°	755.7	524.7	485.0	481.3	480.4	505.3	517.3	501.6	470.2	473.0	476.7
65°	475.8	453.6	421.3	421.3	436.1	457.3	466.5	453.6	417.6	413.0	416.7
67.5°	441.6	422.2	388.9	382.5	389.9	407.4	408.3	383.4	362.1	358.4	358.4
70°	396.3	381.5	349.2	336.3	333.5	332.6	329.8	323.3	309.5	305.8	307.6
72.5°	328.0	317.8	297.5	283.6	276.2	275.3	264.2	258.7	246.7	244.8	243.9
75°	217.1	219.9	219.9	218.0	211.6	208.8	196.8	191.2	177.4	171.8	170.9
77.5°	128.4	131.2	134.9	135.8	134.9	134.9	123.8	117.3	103.5	96.1	94.2
80°	78.5	80.4	82.2	85.0	81.3	78.5	68.4	61.9	55.4	50.8	49.9
82.5°	50.8	52.7	53.6	55.4	53.6	49.9	41.6	37.9	33.3	29.6	28.6
85°	28.6	29.6	31.4	31.4	28.6	25.9	21.2	18.5	15.7	13.9	13.9
87.5°	10.2	10.2	10.2	11.1	9.2	8.3	5.5	3.7	2.8	2.8	2.8
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)