

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: P633872

Luminaire Tested: GWS-SA2F-750-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-750-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

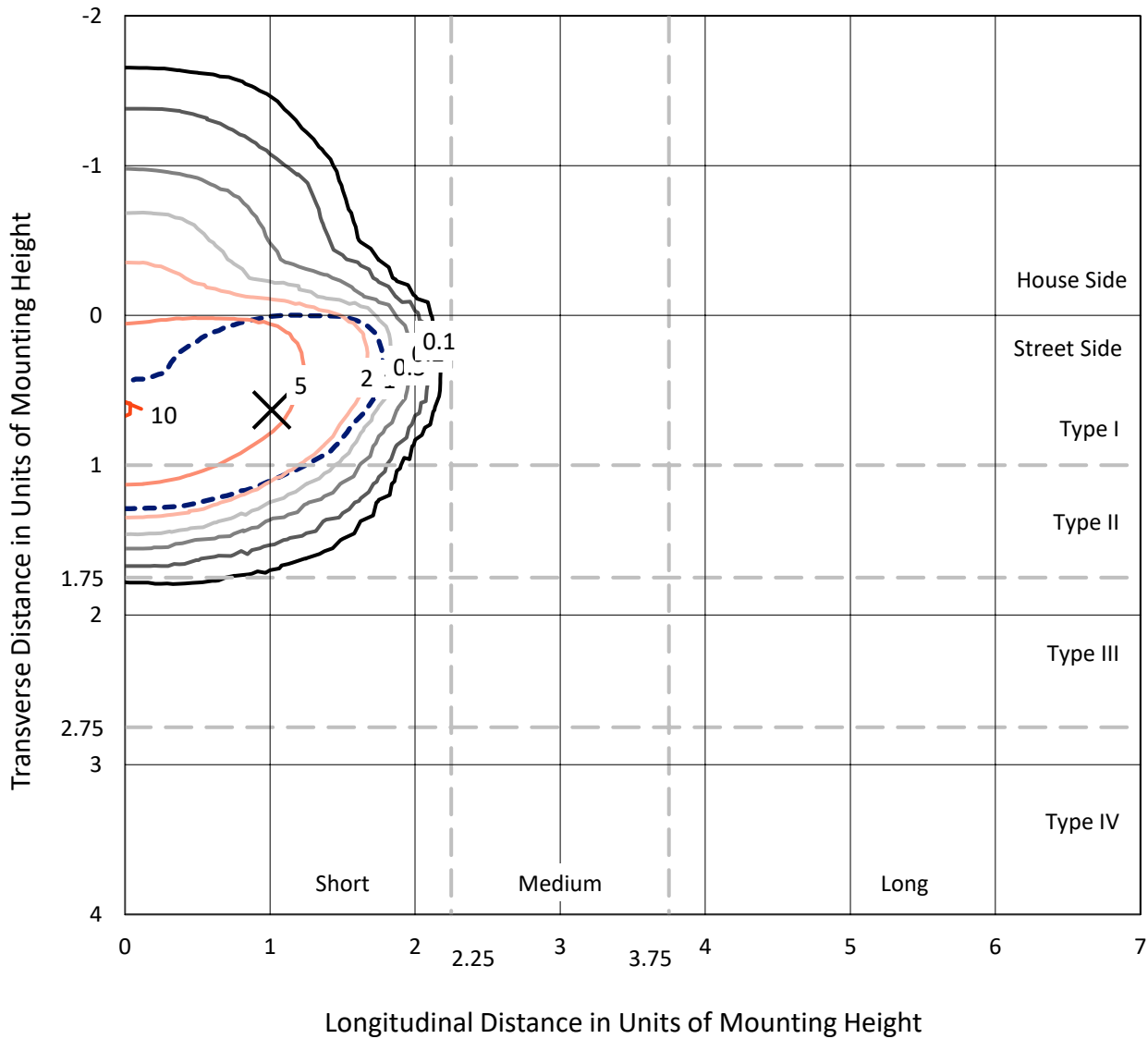
Lumens per Lamp: N/A  
Luminaire Lumens: 11124 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P633872  
 CATALOG NUMBER: GWS-SA2F-750-U-T2R-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

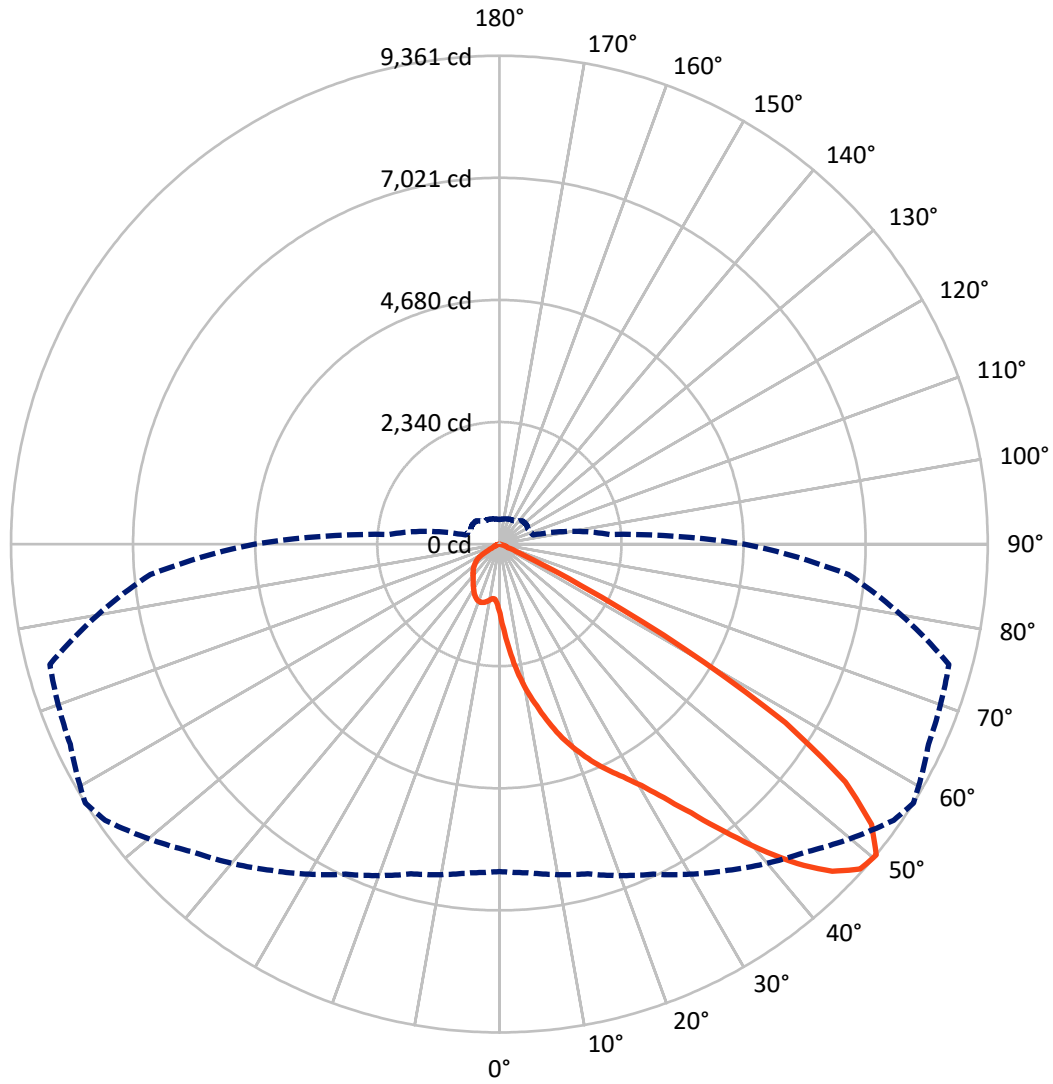
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P633872  
CATALOG NUMBER: GWS-SA2F-750-U-T2R-W-GRSBK

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical



REPORT NUMBER: P633872  
 CATALOG NUMBER: GWS-SA2F-750-U-T2R-W-GRSBK

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1558.1	0.0	1558.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	9565.9	0.0	9565.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	11124.0	0.0	11124.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.6	1.5
10°-20°	651.6	5.9
20°-30°	1318.6	11.9
30°-40°	2332.8	21.0
40°-50°	3400.7	30.6
50°-60°	2725.8	24.5
60°-70°	491.1	4.4
70°-80°	38.7	0.3
80°-90°	0.0	0.0
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°	11124.0	100.0
0°-180°	11124.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633872

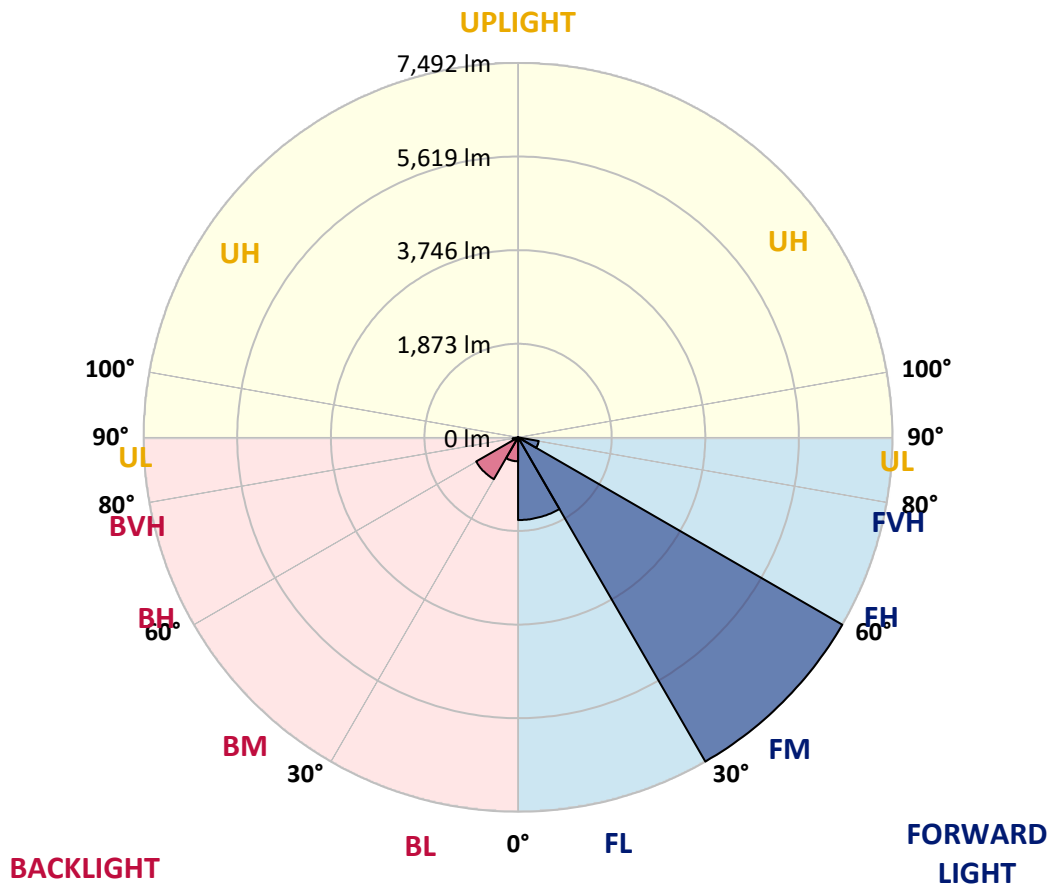
CATALOG NUMBER: GWS-SA2F-750-U-T2R-W-GRSBK

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.2	14.9			
FM (30°-60°)	7491.7	67.3			
FH (60°-80°)	419.0	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	479.7	4.3	B1/500		
BM (30°-60°)	967.6	8.7	B1/1000		
BH (60°-80°)	110.7	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





REPORT NUMBER: P633872

CATALOG NUMBER: GWS-SA2F-750-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1966.3	1935.4	1917.6	1903.3	1840.3	1740.3	1674.9	1640.4	1583.3	1487.0	1403.7
5°	2565.9	2543.3	2501.7	2473.1	2392.2	2250.7	2104.3	2046.0	1916.4	1698.7	1503.6
7.5°	2963.2	2946.5	2931.1	2893.0	2816.9	2688.4	2526.6	2466.0	2266.1	1956.8	1636.8
10°	3268.9	3255.8	3238.0	3236.8	3177.3	3061.9	2903.7	2840.7	2624.2	2237.6	1793.9
12.5°	3537.8	3527.1	3523.5	3556.8	3518.7	3433.1	3261.8	3183.3	2953.7	2524.3	1967.5
15°	3722.1	3719.8	3735.2	3800.7	3822.1	3782.8	3638.9	3554.4	3290.3	2812.1	2159.1
17.5°	3806.6	3813.7	3843.5	3956.5	4051.7	4085.0	3974.3	3903.0	3624.6	3103.6	2363.7
20°	3950.5	3948.2	3966.0	4073.1	4189.6	4308.6	4275.3	4214.6	3962.4	3411.7	2590.9
22.5°	4356.2	4321.7	4283.6	4300.3	4341.9	4481.1	4542.9	4512.0	4311.0	3728.1	2825.2
25°	4979.5	4943.8	4821.3	4702.3	4623.8	4686.9	4771.3	4786.8	4657.1	4052.8	3070.3
27.5°	5640.9	5608.8	5470.8	5292.4	5067.5	4958.1	5021.1	5052.1	4997.4	4439.5	3330.8
30°	6260.7	6217.8	6066.8	5845.5	5585.0	5417.3	5345.9	5367.3	5399.4	4897.4	3636.5
32.5°	6798.4	6766.2	6585.4	6352.3	6101.3	5926.4	5759.9	5795.6	5874.1	5457.7	4027.9
35°	7254.0	7237.3	7045.8	6813.8	6548.5	6459.3	6316.6	6323.7	6402.2	6134.6	4504.9
37.5°	7650.1	7621.5	7447.9	7232.5	7022.0	7007.7	6968.5	6972.0	7012.5	6923.3	5053.3
40°	7899.9	7873.7	7750.0	7616.8	7466.9	7469.3	7672.7	7688.2	7641.8	7697.7	5632.6
42.5°	7993.9	7974.8	7908.2	7909.4	7893.9	7964.1	8346.0	8374.5	8208.0	8305.5	6127.4
45°	7830.9	7822.6	7827.3	7998.6	8184.2	8400.7	8896.7	8946.7	8711.2	8708.8	6514.1
47.5°	7305.1	7288.5	7427.6	7719.1	8148.5	8569.6	9229.8	9307.1	9063.3	8939.6	6756.7
50°	6274.9	6322.5	6542.6	6980.4	7633.4	8337.7	9226.3	9360.7	9076.4	8919.3	6716.3
52.5°	4545.3	4535.8	5017.6	5619.5	6414.1	7595.4	8736.2	8932.4	8758.8	8720.7	6625.9
55°	2473.1	2559.9	2884.7	3681.7	4673.8	6190.5	7616.8	8045.0	8246.1	8648.1	6788.8
57.5°	908.8	946.9	1150.3	1714.2	2474.3	3849.4	5818.2	6464.1	7085.0	8445.9	6761.5
60°	366.4	373.5	454.4	630.5	1039.7	1959.2	3490.2	4063.5	4648.8	6465.3	5188.9
62.5°	266.5	276.0	308.1	368.8	525.8	856.5	1504.8	1749.8	1912.8	3202.3	2556.4
65°	215.3	222.4	248.6	276.0	347.4	460.4	485.3	467.5	465.1	827.9	586.5
67.5°	178.4	185.6	204.6	223.6	249.8	229.6	166.5	174.9	142.7	141.6	115.4
70°	130.9	139.2	158.2	178.4	149.9	61.9	96.4	142.7	108.3	90.4	88.0
72.5°	98.7	104.7	122.5	116.6	44.0	23.8	64.2	103.5	83.3	66.6	65.4
75°	73.8	77.3	61.9	19.0	4.8	5.9	23.8	42.8	46.4	38.1	38.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.6	4.8	5.9	7.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P633872

CATALOG NUMBER: GWS-SA2F-750-U-T2R-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1356.1	1306.1	1234.8	1175.3	1130.1	1086.1	1052.8	1019.5	1018.3	1001.6	998.0
5°	1413.2	1322.8	1191.9	1098.0	1040.9	1006.4	982.6	970.7	964.7	958.8	956.4
7.5°	1495.3	1365.6	1184.8	1084.9	1037.3	1014.7	998.0	990.9	987.3	982.6	981.4
10°	1596.4	1427.5	1211.0	1109.9	1068.2	1046.8	1029.0	1018.3	1012.3	1004.0	1001.6
12.5°	1717.7	1503.6	1252.6	1151.5	1107.5	1078.9	1055.1	1039.7	1031.4	1020.6	1018.3
15°	1848.6	1585.7	1299.0	1189.6	1137.2	1100.3	1070.6	1046.8	1031.4	1018.3	1014.7
17.5°	1984.2	1669.0	1340.6	1215.7	1151.5	1107.5	1064.7	1032.5	1013.5	996.9	992.1
20°	2136.5	1754.6	1368.0	1220.5	1146.7	1088.5	1038.5	998.0	979.0	956.4	951.7
22.5°	2295.9	1834.3	1379.9	1209.8	1120.6	1052.8	999.2	957.6	930.2	906.4	899.3
25°	2450.5	1905.7	1373.9	1180.0	1081.3	1002.8	948.1	905.3	875.5	851.7	845.8
27.5°	2614.7	1965.2	1352.5	1136.0	1027.8	948.1	895.7	858.9	831.5	805.3	799.4
30°	2799.0	2019.9	1318.0	1082.5	964.7	892.2	851.7	826.7	797.0	769.6	761.3
32.5°	3021.5	2068.7	1268.1	1018.3	908.8	843.4	820.8	801.8	767.3	738.7	732.8
35°	3276.1	2109.1	1205.0	951.7	854.1	812.5	807.7	782.7	737.5	704.2	697.1
37.5°	3571.1	2148.4	1130.1	886.2	813.7	798.2	799.4	756.6	701.8	661.4	656.6
40°	3888.7	2187.6	1046.8	829.1	776.8	789.9	779.2	718.5	629.3	590.0	585.3
42.5°	4219.4	2230.4	962.4	775.6	745.9	757.8	742.3	642.4	578.1	557.9	555.5
45°	4518.0	2281.6	870.8	722.1	714.9	711.4	685.2	581.7	554.3	540.1	538.9
47.5°	4733.3	2273.3	773.2	670.9	681.6	669.7	590.0	553.1	530.5	511.5	506.8
50°	4694.0	2128.1	672.1	613.8	638.8	628.1	530.5	519.8	499.6	479.4	472.3
52.5°	4594.1	1930.7	584.1	553.1	592.4	567.4	490.1	479.4	461.6	435.4	427.1
55°	4647.6	1745.1	515.1	504.4	544.8	469.9	444.9	428.2	409.2	380.7	377.1
57.5°	4475.1	1423.9	414.0	421.1	481.8	400.9	390.2	364.0	331.9	312.9	310.5
60°	3097.6	764.9	259.3	267.7	348.5	336.6	349.7	325.9	286.7	268.8	265.3
62.5°	1422.7	306.9	141.6	135.6	183.2	228.4	299.8	297.4	248.6	220.1	217.7
65°	345.0	140.4	101.1	95.2	103.5	136.8	195.1	234.3	201.0	167.7	164.2
67.5°	111.8	114.2	92.8	86.8	91.6	102.3	116.6	129.7	128.5	117.8	115.4
70°	89.2	103.5	85.6	78.5	78.5	82.1	78.5	63.0	54.7	59.5	61.9
72.5°	66.6	78.5	67.8	60.7	58.3	57.1	48.8	35.7	25.0	22.6	21.4
75°	39.3	44.0	41.6	35.7	33.3	29.7	23.8	15.5	8.3	5.9	3.6
77.5°	7.1	8.3	9.5	7.1	5.9	4.8	3.6	1.2	0.0	0.0	0.0
80°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)