

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: P639262

Luminaire Tested: GWS-SA5B-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639262  
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-SA5B-740-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

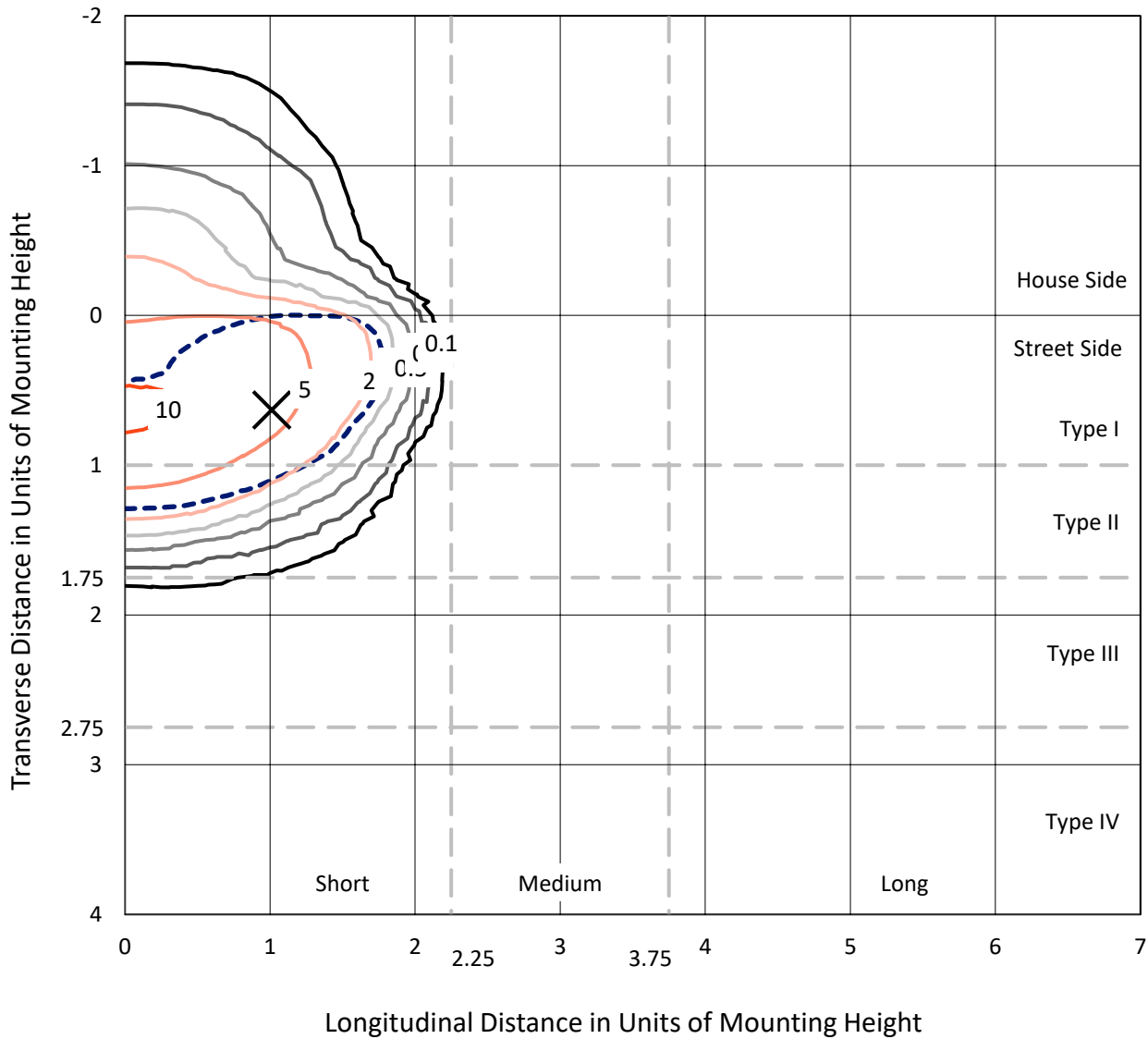
Lumens per Lamp: N/A  
Luminaire Lumens: 11902.5 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

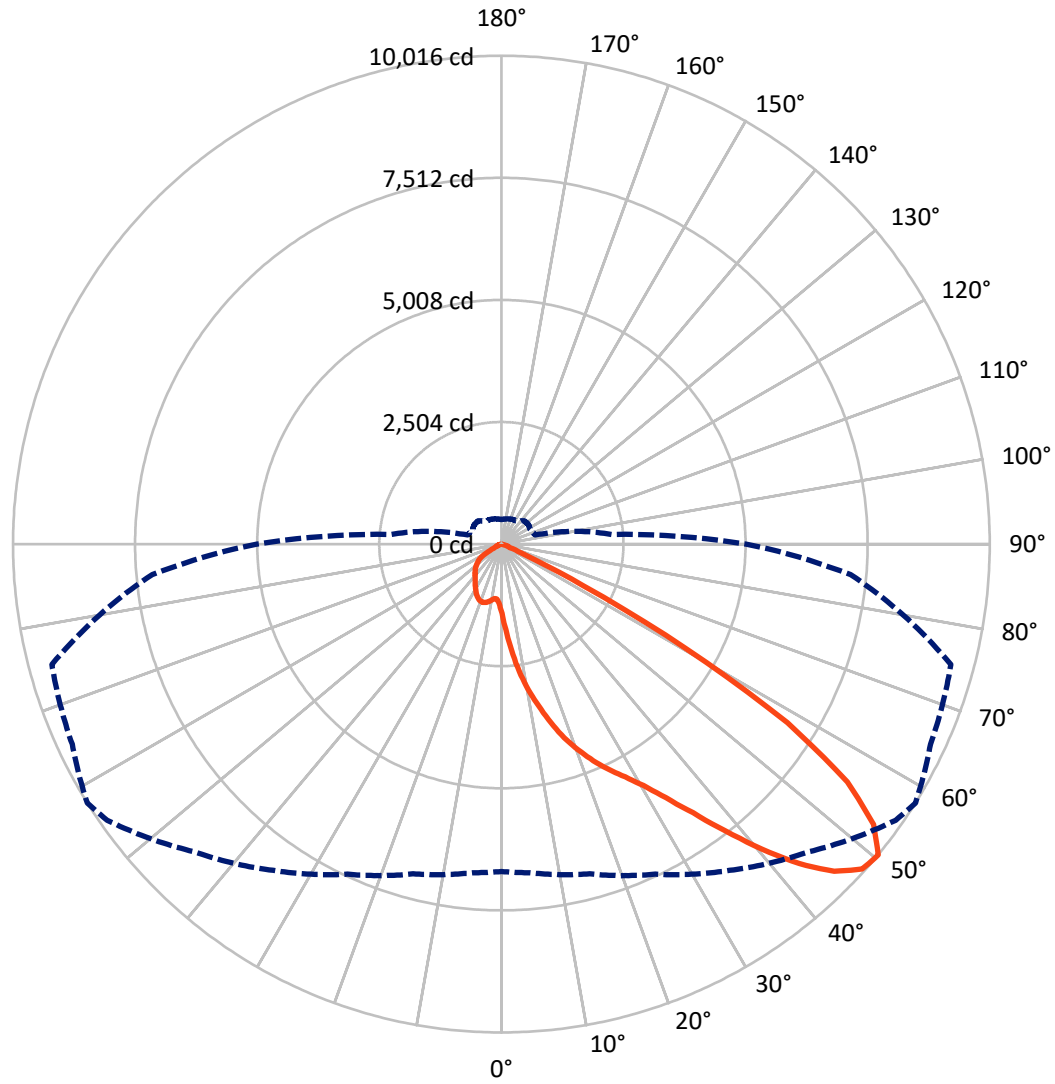
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1667.1	0.0	1667.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	10235.4	0.0	10235.4
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	11902.5	0.0	11902.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.1	1.5
10°-20°	697.3	5.9
20°-30°	1410.9	11.9
30°-40°	2496.1	21.0
40°-50°	3638.7	30.6
50°-60°	2916.5	24.5
60°-70°	525.4	4.4
70°-80°	41.4	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°	11902.5	100.0
0°-180°	11902.5	100.0

**Coefficient of Utilization**



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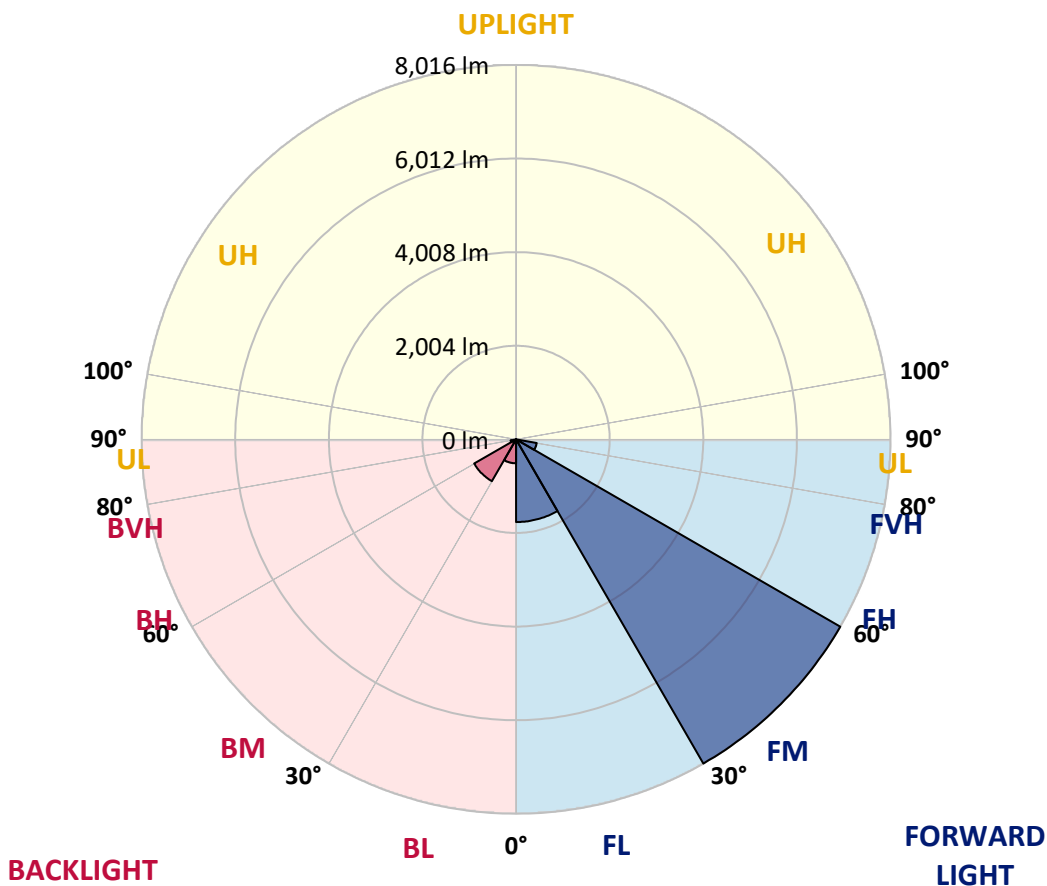
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1771.1	14.9			
FM (30°-60°)	8016.0	67.3			
FH (60°-80°)	448.4	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	513.2	4.3	B2/1000		
BM (30°-60°)	1035.4	8.7	B2/2500		
BH (60°-80°)	118.5	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: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7
2.5°	2104.0	2070.9	2051.8	2036.5	1969.0	1862.1	1792.1	1755.2	1694.1	1591.0	1501.9
5°	2745.5	2721.3	2676.7	2646.2	2559.6	2408.2	2251.6	2189.2	2050.5	1817.6	1608.8
7.5°	3170.6	3152.8	3136.2	3095.5	3014.0	2876.6	2703.5	2638.5	2424.7	2093.8	1751.4
10°	3497.7	3483.7	3464.6	3463.3	3399.7	3276.2	3106.9	3039.5	2807.8	2394.2	1919.4
12.5°	3785.3	3773.9	3770.1	3805.7	3765.0	3673.3	3490.1	3406.1	3160.4	2700.9	2105.2
15°	3982.6	3980.1	3996.6	4066.6	4089.6	4047.5	3893.5	3803.2	3520.6	3008.9	2310.2
17.5°	4073.0	4080.6	4112.5	4233.4	4335.2	4370.8	4252.5	4176.1	3878.3	3320.8	2529.1
20°	4227.0	4224.5	4243.6	4358.1	4482.9	4610.1	4574.5	4509.6	4239.7	3650.4	2772.2
22.5°	4661.0	4624.1	4583.4	4601.2	4645.8	4794.7	4860.9	4827.8	4612.7	3989.0	3022.9
25°	5328.0	5289.8	5158.7	5031.4	4947.4	5014.9	5105.3	5121.8	4983.1	4336.5	3285.1
27.5°	6035.7	6001.3	5853.7	5662.7	5422.2	5305.1	5372.5	5405.6	5347.1	4750.1	3563.9
30°	6698.8	6653.0	6491.4	6254.6	5975.9	5796.4	5720.0	5742.9	5777.3	5240.2	3891.0
32.5°	7274.1	7239.8	7046.3	6796.8	6528.3	6341.2	6163.0	6201.1	6285.2	5839.7	4309.7
35°	7761.6	7743.8	7538.9	7290.7	7006.8	6911.4	6758.6	6766.3	6850.3	6563.9	4820.1
37.5°	8185.5	8154.9	7969.1	7738.7	7513.4	7498.1	7456.1	7460.0	7503.2	7407.8	5406.9
40°	8452.8	8424.8	8292.4	8149.8	7989.5	7992.0	8209.7	8226.2	8176.6	8236.4	6026.8
42.5°	8553.3	8532.9	8461.7	8462.9	8446.4	8521.5	8930.1	8960.6	8782.4	8886.8	6556.3
45°	8378.9	8370.0	8375.1	8558.4	8757.0	8988.6	9519.4	9572.8	9320.8	9318.3	6969.9
47.5°	7816.4	7798.5	7947.5	8259.3	8718.8	9169.4	9875.8	9958.5	9697.6	9565.2	7229.6
50°	6714.1	6765.0	7000.5	7468.9	8167.6	8921.2	9871.9	10015.8	9711.6	9543.6	7186.3
52.5°	4863.4	4853.2	5368.7	6012.8	6863.0	8126.9	9347.5	9557.6	9371.7	9331.0	7089.6
55°	2646.2	2739.1	3086.6	3939.4	5000.9	6623.7	8149.8	8608.0	8823.1	9253.4	7263.9
57.5°	972.4	1013.2	1230.8	1834.1	2647.5	4118.8	6225.3	6916.5	7580.9	9037.0	7234.7
60°	392.0	399.7	486.2	674.6	1112.4	2096.3	3734.4	4347.9	4974.2	6917.7	5552.0
62.5°	285.1	295.3	329.7	394.6	562.6	916.4	1610.1	1872.3	2046.7	3426.4	2735.3
65°	230.4	238.0	266.0	295.3	371.7	492.6	519.3	500.2	497.7	885.9	627.5
67.5°	190.9	198.6	218.9	239.3	267.3	245.7	178.2	187.1	152.7	151.5	123.5
70°	140.0	148.9	169.3	190.9	160.4	66.2	103.1	152.7	115.8	96.7	94.2
72.5°	105.6	112.0	131.1	124.7	47.1	25.5	68.7	110.7	89.1	71.3	70.0
75°	78.9	82.7	66.2	20.4	5.1	6.4	25.5	45.8	49.6	40.7	40.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	3.8	5.1	6.4	7.6
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7	1421.7
2.5°	1451.0	1397.5	1321.2	1257.5	1209.2	1162.1	1126.4	1090.8	1089.5	1071.7	1067.9
5°	1512.1	1415.4	1275.4	1174.8	1113.7	1076.8	1051.3	1038.6	1032.3	1025.9	1023.3
7.5°	1599.9	1461.2	1267.7	1160.8	1109.9	1085.7	1067.9	1060.3	1056.4	1051.3	1050.1
10°	1708.1	1527.4	1295.7	1187.5	1143.0	1120.1	1101.0	1089.5	1083.2	1074.3	1071.7
12.5°	1837.9	1608.8	1340.3	1232.1	1185.0	1154.4	1129.0	1112.4	1103.5	1092.1	1089.5
15°	1978.0	1696.7	1389.9	1272.8	1216.8	1177.4	1145.5	1120.1	1103.5	1089.5	1085.7
17.5°	2123.1	1785.8	1434.5	1300.8	1232.1	1185.0	1139.2	1104.8	1084.4	1066.6	1061.5
20°	2286.0	1877.4	1463.7	1305.9	1227.0	1164.6	1111.2	1067.9	1047.5	1023.3	1018.3
22.5°	2456.5	1962.7	1476.5	1294.5	1199.0	1126.4	1069.2	1024.6	995.3	969.9	962.2
25°	2622.0	2039.0	1470.1	1262.6	1157.0	1073.0	1014.4	968.6	936.8	911.3	905.0
27.5°	2797.6	2102.7	1447.2	1215.5	1099.7	1014.4	958.4	919.0	889.7	861.7	855.3
30°	2994.9	2161.2	1410.3	1158.3	1032.3	954.6	911.3	884.6	852.8	823.5	814.6
32.5°	3232.9	2213.4	1356.8	1089.5	972.4	902.4	878.2	857.9	821.0	790.4	784.1
35°	3505.3	2256.7	1289.4	1018.3	913.9	869.3	864.2	837.5	789.1	753.5	745.9
37.5°	3821.0	2298.7	1209.2	948.2	870.6	854.1	855.3	809.5	751.0	707.7	702.6
40°	4160.8	2340.7	1120.1	887.2	831.1	845.1	833.7	768.8	673.3	631.3	626.2
42.5°	4514.7	2386.5	1029.7	829.9	798.1	810.8	794.2	687.3	618.6	596.9	594.4
45°	4834.1	2441.3	931.7	772.6	765.0	761.1	733.1	622.4	593.1	577.9	576.6
47.5°	5064.5	2432.3	827.3	717.9	729.3	716.6	631.3	591.9	567.7	547.3	542.2
50°	5022.5	2277.1	719.1	656.8	683.5	672.0	567.7	556.2	534.6	512.9	505.3
52.5°	4915.6	2065.8	625.0	591.9	633.9	607.1	524.4	512.9	493.9	465.8	456.9
55°	4972.9	1867.2	551.1	539.7	582.9	502.8	476.0	458.2	437.8	407.3	403.5
57.5°	4788.3	1523.6	442.9	450.6	515.5	428.9	417.5	389.5	355.1	334.8	332.2
60°	3314.4	818.4	277.5	286.4	372.9	360.2	374.2	348.8	306.7	287.7	283.8
62.5°	1522.3	328.4	151.5	145.1	196.0	244.4	320.7	318.2	266.0	235.5	232.9
65°	369.1	150.2	108.2	101.8	110.7	146.4	208.7	250.7	215.1	179.5	175.6
67.5°	119.6	122.2	99.3	92.9	98.0	109.5	124.7	138.7	137.5	126.0	123.5
70°	95.5	110.7	91.6	84.0	84.0	87.8	84.0	67.5	58.5	63.6	66.2
72.5°	71.3	84.0	72.6	64.9	62.4	61.1	52.2	38.2	26.7	24.2	22.9
75°	42.0	47.1	44.5	38.2	35.6	31.8	25.5	16.5	8.9	6.4	3.8
77.5°	7.6	8.9	10.2	7.6	6.4	5.1	3.8	1.3	0.0	0.0	0.0
80°	0.0	1.3	1.3	1.3	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)