

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: P636402

Luminaire Tested: GWS-SA3F-760-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636402
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-SA3F-760-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16536.2 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

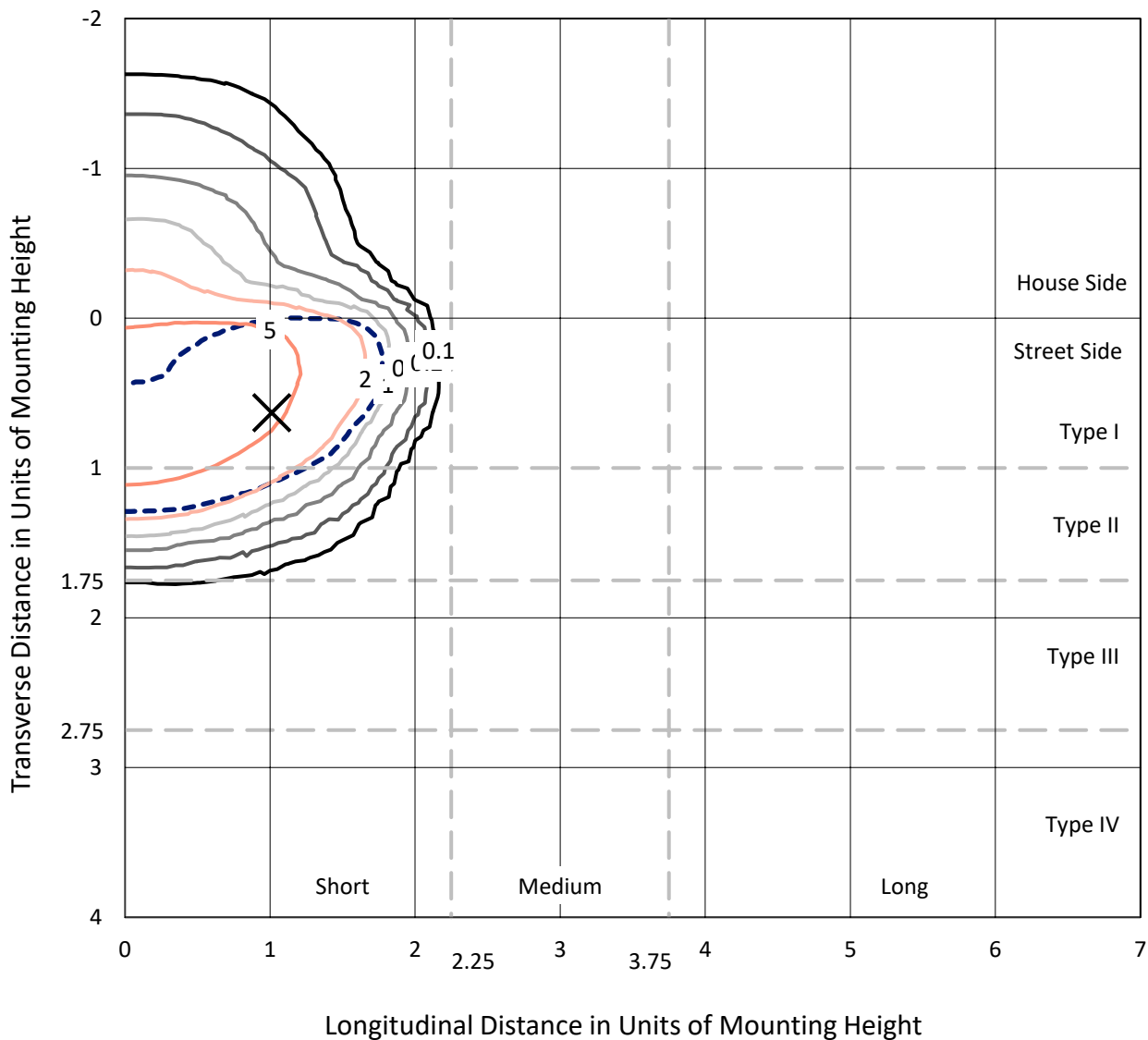
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

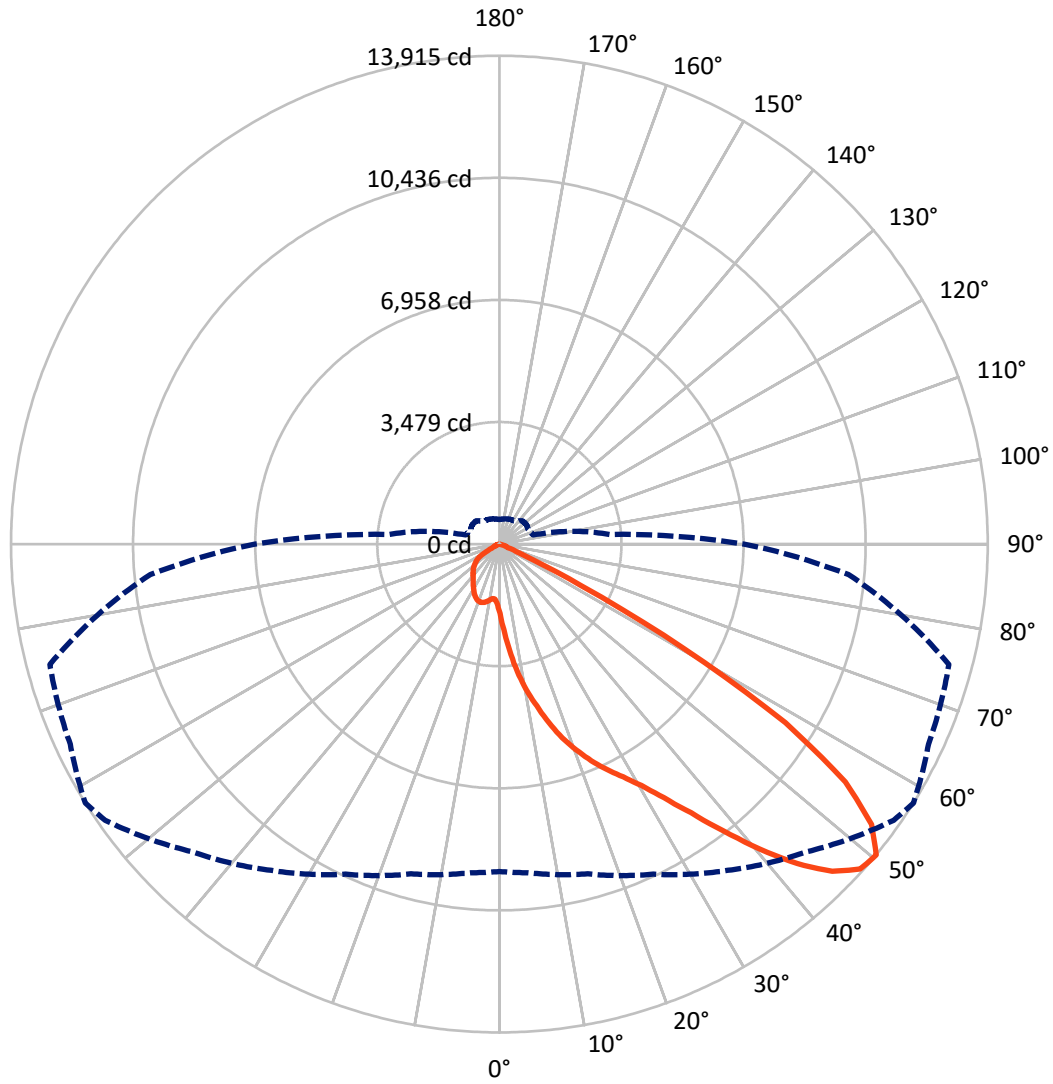
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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
House Side	Lumens	2316.1	0.0	2316.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	14220.1	0.0	14220.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	16536.2	0.0	16536.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.7	1.5
10°-20°	968.7	5.9
20°-30°	1960.2	11.9
30°-40°	3467.8	21.0
40°-50°	5055.3	30.6
50°-60°	4052.0	24.5
60°-70°	730.0	4.4
70°-80°	57.5	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°	16536.2	100.0
0°-180°	16536.2	100.0

Coefficient of Utilization



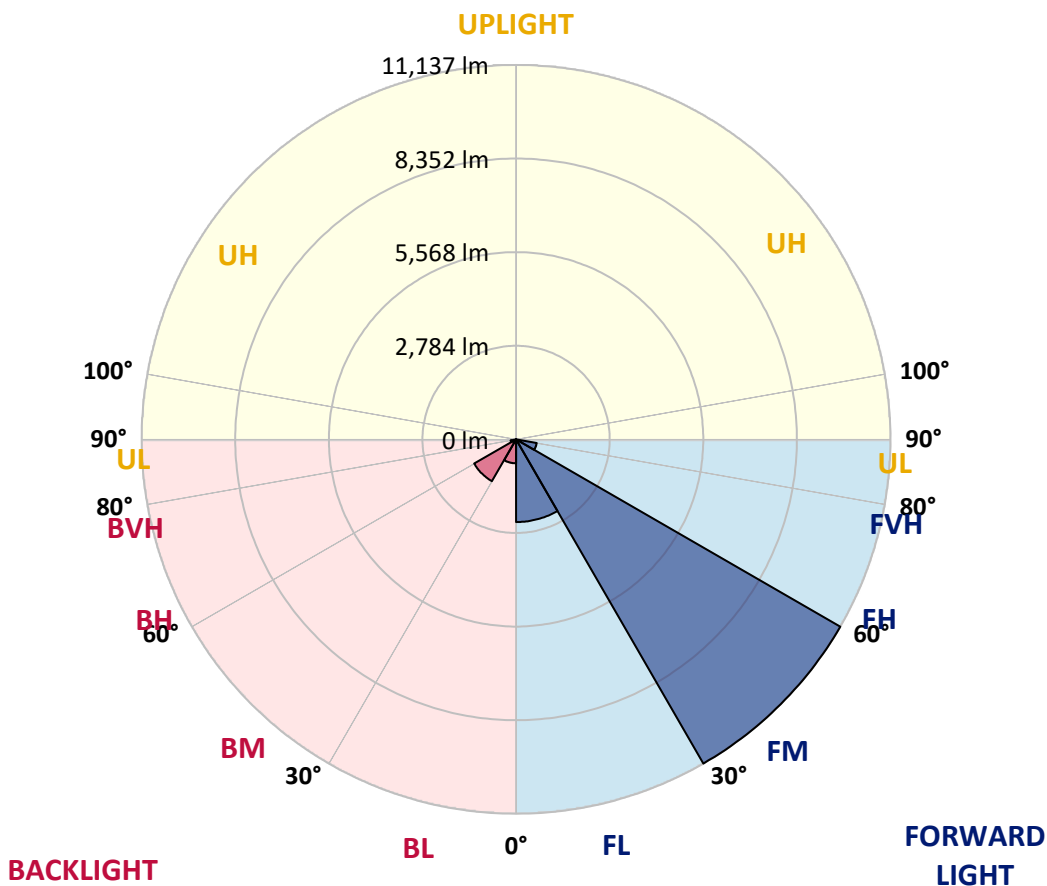
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2460.5	14.9			
FM (30°-60°)	11136.6	67.3			
FH (60°-80°)	622.9	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	713.0	4.3	B2/1000		
BM (30°-60°)	1438.4	8.7	B2/2500		
BH (60°-80°)	164.6	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°	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	2923.0	2877.1	2850.5	2829.3	2735.6	2587.1	2489.8	2438.5	2353.6	2210.4	2086.6
5°	3814.3	3780.7	3718.8	3676.4	3556.1	3345.7	3128.2	3041.5	2848.8	2525.2	2235.2
7.5°	4404.9	4380.1	4357.2	4300.6	4187.4	3996.4	3755.9	3665.7	3368.7	2908.9	2433.2
10°	4859.4	4839.9	4813.4	4811.6	4723.2	4551.7	4316.5	4222.8	3900.9	3326.2	2666.6
12.5°	5259.0	5243.1	5237.8	5287.3	5230.7	5103.4	4848.8	4732.0	4390.8	3752.4	2924.8
15°	5533.1	5529.6	5552.5	5649.8	5681.6	5623.3	5409.3	5283.8	4891.2	4180.3	3209.5
17.5°	5658.6	5669.3	5713.5	5881.5	6022.9	6072.4	5908.0	5801.9	5388.1	4613.6	3513.7
20°	5872.6	5869.1	5895.6	6054.7	6228.0	6404.9	6355.4	6265.2	5890.3	5071.6	3851.4
22.5°	6475.6	6424.3	6367.7	6392.5	6454.4	6661.3	6753.2	6707.3	6408.4	5541.9	4199.8
25°	7402.2	7349.2	7167.0	6990.2	6873.5	6967.2	7092.8	7115.7	6923.0	6024.7	4564.1
27.5°	8385.4	8337.7	8132.5	7867.3	7533.1	7370.4	7464.1	7510.1	7428.7	6599.4	4951.3
30°	9306.7	9243.0	9018.5	8689.6	8302.3	8053.0	7946.9	7978.7	8026.4	7280.2	5405.8
32.5°	10106.0	10058.2	9789.5	9442.9	9069.7	8809.8	8562.2	8615.3	8732.0	8113.1	5987.6
35°	10783.3	10758.5	10473.8	10129.0	9734.6	9602.0	9389.8	9400.4	9517.1	9119.3	6696.7
37.5°	11372.1	11329.7	11071.5	10751.4	10438.4	10417.2	10358.9	10364.2	10424.3	10291.7	7511.9
40°	11743.5	11704.6	11520.6	11322.6	11099.8	11103.3	11405.7	11428.7	11359.7	11442.8	8373.0
42.5°	11883.2	11854.9	11755.8	11757.6	11734.6	11838.9	12406.6	12449.0	12201.5	12346.5	9108.6
45°	11640.9	11628.5	11635.6	11890.2	12166.1	12487.9	13225.3	13299.6	12949.5	12945.9	9683.4
47.5°	10859.3	10834.5	11041.4	11474.7	12113.0	12739.0	13720.4	13835.4	13472.9	13289.0	10044.1
50°	9327.9	9398.7	9725.8	10376.5	11347.4	12394.2	13715.1	13915.0	13492.3	13258.9	9984.0
52.5°	6756.8	6742.6	7458.8	8353.6	9534.8	11290.8	12986.6	13278.4	13020.2	12963.6	9849.6
55°	3676.4	3805.4	4288.2	5473.0	6947.8	9202.4	11322.6	11959.2	12258.0	12855.7	10091.8
57.5°	1351.0	1407.6	1710.0	2548.2	3678.1	5722.3	8648.9	9609.1	10532.2	12555.1	10051.2
60°	544.6	555.3	675.5	937.2	1545.5	2912.4	5188.3	6040.6	6910.6	9610.9	7713.4
62.5°	396.1	410.3	458.0	548.2	781.6	1273.2	2236.9	2601.2	2843.5	4760.3	3800.1
65°	320.1	330.7	369.6	410.3	516.4	684.3	721.5	695.0	691.4	1230.8	871.8
67.5°	265.2	275.9	304.2	332.4	371.3	341.3	247.6	259.9	212.2	210.4	171.5
70°	194.5	206.9	235.2	265.2	222.8	92.0	143.2	212.2	160.9	134.4	130.9
72.5°	146.8	155.6	182.1	173.3	65.4	35.4	95.5	153.8	123.8	99.0	97.3
75°	109.6	114.9	92.0	28.3	7.1	8.8	35.4	63.7	69.0	56.6	56.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	5.3	7.1	8.8	10.6
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°	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	2015.9	1941.6	1835.5	1747.1	1679.9	1614.5	1565.0	1515.5	1513.7	1488.9	1483.6
5°	2100.8	1966.4	1771.9	1632.2	1547.3	1496.0	1460.6	1443.0	1434.1	1425.3	1421.7
7.5°	2222.8	2030.0	1761.3	1612.7	1542.0	1508.4	1483.6	1473.0	1467.7	1460.6	1458.9
10°	2373.1	2122.0	1800.2	1649.8	1588.0	1556.1	1529.6	1513.7	1504.8	1492.5	1488.9
12.5°	2553.5	2235.2	1862.0	1711.7	1646.3	1603.9	1568.5	1545.5	1533.1	1517.2	1513.7
15°	2748.0	2357.2	1931.0	1768.3	1690.5	1635.7	1591.5	1556.1	1533.1	1513.7	1508.4
17.5°	2949.6	2481.0	1992.9	1807.2	1711.7	1646.3	1582.7	1534.9	1506.6	1481.9	1474.8
20°	3175.9	2608.3	2033.6	1814.3	1704.7	1618.0	1543.7	1483.6	1455.3	1421.7	1414.7
22.5°	3412.9	2726.8	2051.3	1798.4	1665.8	1565.0	1485.4	1423.5	1382.8	1347.5	1336.9
25°	3642.8	2832.9	2042.4	1754.2	1607.4	1490.7	1409.4	1345.7	1301.5	1266.1	1257.3
27.5°	3886.8	2921.3	2010.6	1688.8	1527.8	1409.4	1331.5	1276.7	1236.1	1197.2	1188.3
30°	4160.9	3002.6	1959.3	1609.2	1434.1	1326.2	1266.1	1229.0	1184.8	1144.1	1131.7
32.5°	4491.5	3075.1	1885.0	1513.7	1351.0	1253.7	1220.1	1191.9	1140.6	1098.1	1089.3
35°	4870.0	3135.2	1791.3	1414.7	1269.7	1207.8	1200.7	1163.6	1096.4	1046.8	1036.2
37.5°	5308.5	3193.6	1679.9	1317.4	1209.5	1186.5	1188.3	1124.7	1043.3	983.2	976.1
40°	5780.7	3252.0	1556.1	1232.5	1154.7	1174.2	1158.3	1068.1	935.4	877.1	870.0
42.5°	6272.3	3315.6	1430.6	1152.9	1108.7	1126.4	1103.4	954.9	859.4	829.3	825.8
45°	6716.1	3391.7	1294.4	1073.4	1062.8	1057.5	1018.6	864.7	824.0	802.8	801.1
47.5°	7036.2	3379.3	1149.4	997.3	1013.3	995.6	877.1	822.3	788.7	760.4	753.3
50°	6977.8	3163.5	999.1	912.5	949.6	933.7	788.7	772.8	742.7	712.6	702.0
52.5°	6829.3	2870.0	868.2	822.3	880.6	843.5	728.6	712.6	686.1	647.2	634.8
55°	6908.9	2594.1	765.7	749.8	809.9	698.5	661.4	636.6	608.3	565.9	560.6
57.5°	6652.4	2116.7	615.4	626.0	716.2	595.9	580.0	541.1	493.4	465.1	461.5
60°	4604.7	1137.0	385.5	397.9	518.1	500.4	519.9	484.5	426.2	399.6	394.3
62.5°	2114.9	456.2	210.4	201.6	272.3	339.5	445.6	442.1	369.6	327.1	323.6
65°	512.8	208.7	150.3	141.5	153.8	203.4	290.0	348.4	298.8	249.3	244.0
67.5°	166.2	169.8	137.9	129.1	136.2	152.1	173.3	192.7	191.0	175.1	171.5
70°	132.6	153.8	127.3	116.7	116.7	122.0	116.7	93.7	81.3	88.4	92.0
72.5°	99.0	116.7	100.8	90.2	86.6	84.9	72.5	53.0	37.1	33.6	31.8
75°	58.4	65.4	61.9	53.0	49.5	44.2	35.4	23.0	12.4	8.8	5.3
77.5°	10.6	12.4	14.1	10.6	8.8	7.1	5.3	1.8	0.0	0.0	0.0
80°	0.0	1.8	1.8	1.8	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)