

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: P638748

Luminaire Tested: GWS-SA4F-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19900.8 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

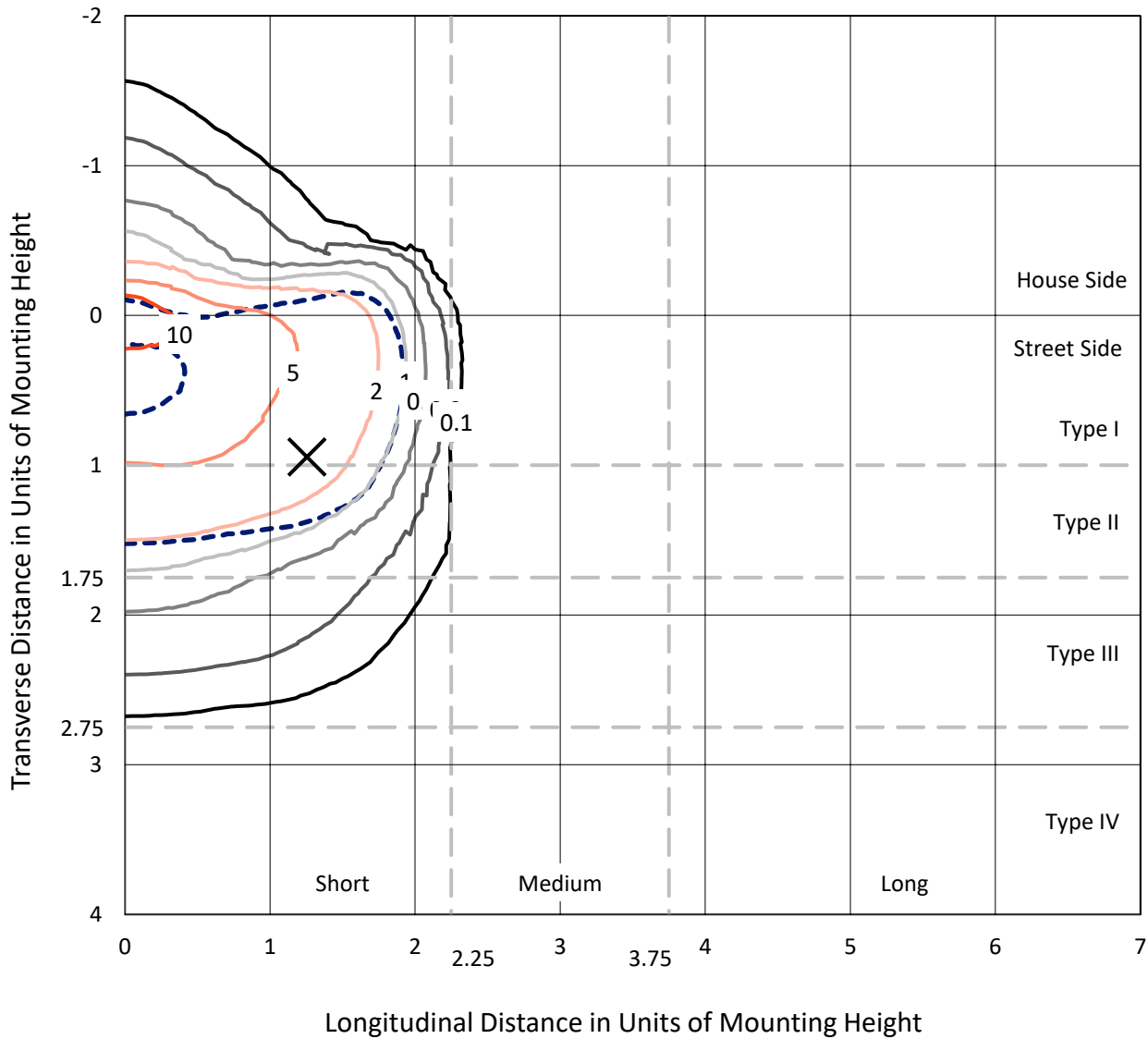
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

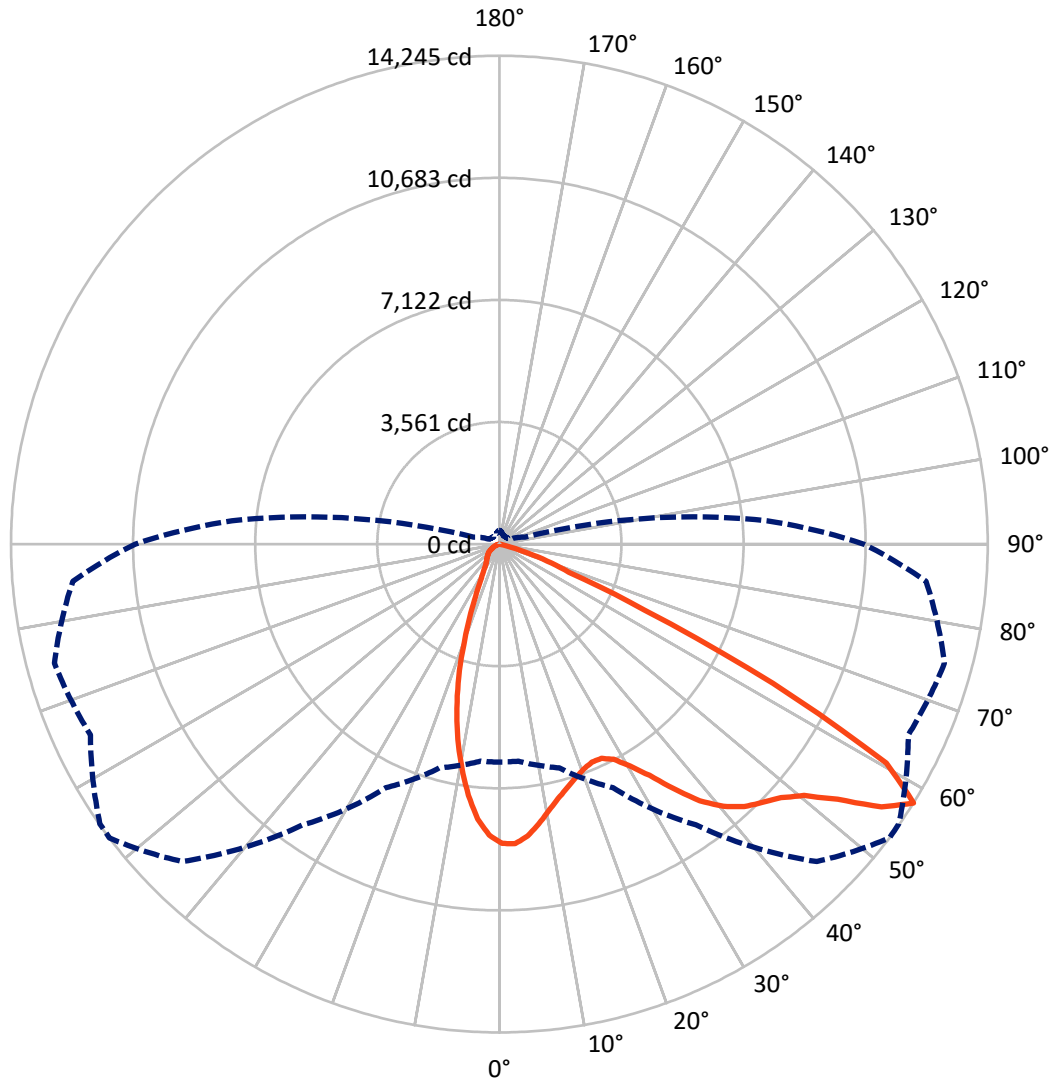
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.4	0.0	3287.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16613.4	0.0	16613.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	19900.8	0.0	19900.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.9	3.8
10°-20°	1639.7	8.2
20°-30°	2136.1	10.7
30°-40°	3098.4	15.6
40°-50°	4470.8	22.5
50°-60°	5407.1	27.2
60°-70°	2203.7	11.1
70°-80°	198.0	1.0
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°	19900.8	100.0
0°-180°	19900.8	100.0

Coefficient of Utilization



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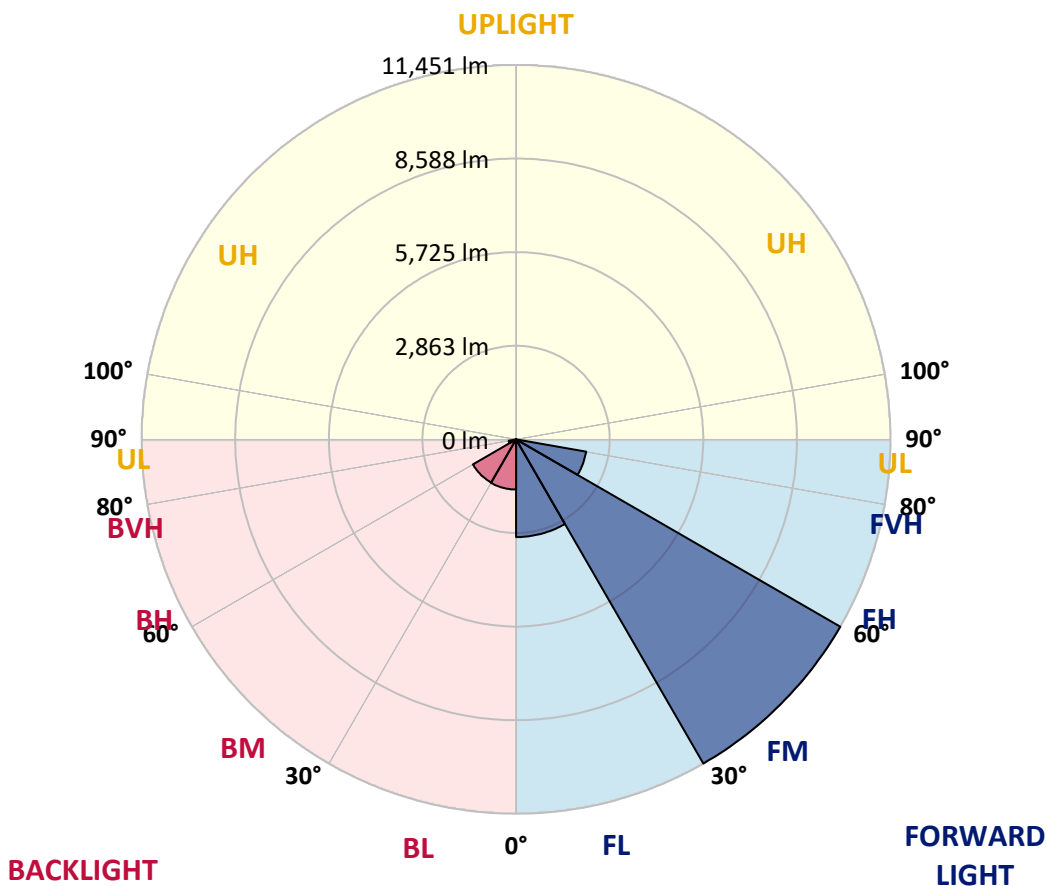
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2988.4	15.0			
FM (30°-60°)	11450.5	57.5			
FH (60°-80°)	2174.5	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1534.3	7.7	B3/2500		
BM (30°-60°)	1525.8	7.7	B2/2500		
BH (60°-80°)	227.2	1.1	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: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6
2.5°	8607.7	8627.2	8661.3	8705.2	8734.5	8749.1	8749.1	8790.6	8763.8	8741.8	8717.4
5°	8239.4	8258.9	8305.2	8376.0	8446.7	8497.9	8556.4	8600.4	8617.4	8617.4	8576.0
7.5°	7719.8	7746.7	7775.9	7873.5	8027.2	8141.8	8241.8	8305.2	8397.9	8427.2	8368.6
10°	7161.3	7188.1	7254.0	7388.1	7563.7	7734.5	7905.2	7985.7	8144.2	8227.2	8161.3
12.5°	6688.1	6700.3	6788.1	6949.1	7173.5	7407.6	7614.9	7697.9	7922.3	8046.7	7968.6
15°	6297.8	6305.1	6392.9	6571.0	6829.5	7117.4	7378.4	7463.7	7739.3	7927.2	7810.1
17.5°	6002.7	6005.1	6080.7	6273.4	6544.2	6863.7	7173.5	7278.3	7634.5	7861.3	7685.7
20°	5853.9	5846.6	5900.2	6068.5	6324.6	6644.2	7010.0	7139.3	7575.9	7851.5	7590.6
22.5°	5856.3	5839.3	5861.2	5980.7	6197.8	6497.8	6907.6	7053.9	7580.8	7893.0	7510.1
25°	5995.4	5971.0	5975.9	6039.3	6192.9	6466.1	6922.2	7078.3	7678.4	8032.0	7480.8
27.5°	6229.5	6202.7	6202.7	6234.4	6317.3	6566.1	7105.2	7283.2	7939.3	8302.8	7541.8
30°	6532.0	6505.1	6495.4	6527.1	6595.4	6824.7	7512.5	7697.9	8385.7	8746.7	7736.9
32.5°	6878.3	6846.6	6863.7	6907.6	6973.5	7290.5	8036.9	8283.3	8944.3	9344.3	8088.1
35°	7244.2	7217.4	7295.4	7390.5	7493.0	7936.9	8761.3	8976.0	9629.7	10088.2	8624.7
37.5°	7593.0	7580.8	7744.2	7944.2	8156.4	8712.6	9497.9	9663.8	10217.5	10898.0	9280.9
40°	7941.8	7939.3	8219.8	8571.1	8910.1	9485.8	10056.5	10193.1	10576.0	11527.3	9910.2
42.5°	8332.0	8332.0	8719.9	9188.2	9639.4	10139.4	10466.3	10527.3	10737.0	11890.7	10383.4
45°	8705.2	8727.2	9176.0	9719.9	10254.1	10649.2	10749.2	10754.1	10802.9	12105.4	10776.1
47.5°	9000.4	9019.9	9556.5	10183.3	10759.0	11037.0	11051.7	11029.7	10976.1	12310.3	11078.5
50°	9239.4	9268.7	9829.7	10493.1	11105.3	11410.2	11522.4	11500.5	11363.9	12529.8	11290.7
52.5°	9356.5	9397.9	9924.8	10646.8	11490.7	12049.3	12361.5	12412.7	11944.4	12651.7	11493.2
55°	8419.9	8480.8	8966.2	9954.1	11705.4	13037.1	13527.4	13517.6	12573.7	13015.2	11985.9
57.5°	6358.8	6353.9	6756.4	7836.9	9998.0	13093.2	14244.5	14225.0	13161.5	13437.1	12490.8
60°	4329.4	4300.2	4407.5	4929.5	6990.5	10666.3	12963.9	13227.4	12744.4	12412.7	10605.3
62.5°	3563.6	3536.7	3502.6	3358.7	4014.8	6644.2	8956.5	9356.5	9293.1	8627.2	6651.5
65°	2917.2	2939.1	3034.3	2973.3	2792.8	3407.5	4649.0	4885.6	4466.0	3758.7	2324.5
67.5°	2151.3	2161.1	2285.5	2607.4	2509.9	2268.4	2187.9	2226.9	1304.9	600.0	387.8
70°	1270.8	1278.1	1392.7	1824.5	2036.7	1741.5	1478.1	1456.2	517.1	161.0	175.6
72.5°	719.5	704.9	726.9	868.3	1109.8	924.4	761.0	692.7	156.1	90.2	90.2
75°	341.5	331.7	285.4	268.3	243.9	156.1	97.6	82.9	39.0	36.6	36.6
77.5°	2.4	7.3	4.9	7.3	7.3	4.9	2.4	2.4	7.3	7.3	9.8
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°	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6	8729.6
2.5°	8673.5	8600.4	8583.3	8578.4	8510.1	8436.9	8361.3	8332.0	8288.1	8261.3	8283.3
5°	8510.1	8405.2	8312.5	8227.2	8075.9	7910.1	7766.2	7673.5	7585.7	7527.1	7541.8
7.5°	8278.4	8141.8	7929.6	7712.5	7434.5	7185.7	6907.6	6736.9	6578.3	6490.5	6532.0
10°	8032.0	7851.5	7512.5	7144.2	6707.6	6317.3	5919.8	5595.4	5407.5	5229.5	5249.0
12.5°	7790.6	7551.5	7044.2	6485.6	5934.4	5358.8	4758.7	4309.9	4002.6	3780.6	3746.5
15°	7566.2	7258.8	6588.1	5851.5	5100.2	4334.3	3568.4	2926.9	2570.8	2351.3	2336.7
17.5°	7366.2	6985.7	6114.9	5188.0	4246.5	3266.0	2385.5	1905.0	1700.1	1604.9	1595.2
20°	7173.5	6710.0	5631.9	4514.8	3314.8	2292.8	1646.4	1424.4	1358.6	1319.6	1324.4
22.5°	6988.1	6410.0	5124.6	3768.4	2485.5	1609.8	1275.7	1190.3	1183.0	1187.9	1190.3
25°	6832.0	6134.4	4602.6	3048.9	1773.2	1226.9	1065.9	1041.5	1063.5	1095.2	1100.0
27.5°	6751.5	5910.0	4092.9	2324.5	1283.0	997.6	924.4	934.2	973.2	1007.4	1012.2
30°	6773.4	5741.7	3566.0	1685.4	987.8	841.5	817.1	836.6	875.6	907.4	912.2
32.5°	6929.6	5656.3	3027.0	1226.9	812.2	734.2	724.4	739.1	773.2	797.6	800.0
35°	7239.3	5675.8	2514.7	939.1	697.6	653.7	651.2	661.0	678.1	695.2	697.6
37.5°	7695.4	5834.4	2009.8	780.5	631.7	600.0	590.3	590.3	602.5	609.8	614.7
40°	8185.7	6073.4	1609.8	690.3	585.4	551.2	531.7	524.4	534.2	543.9	546.4
42.5°	8590.6	6312.5	1307.4	626.9	548.8	502.5	478.1	473.2	485.4	502.5	507.3
45°	8900.4	6497.8	1090.3	575.6	507.3	456.1	429.3	429.3	451.2	480.5	485.4
47.5°	9183.3	6646.6	929.3	529.3	468.3	414.7	387.8	392.7	429.3	468.3	475.6
50°	9376.0	6766.1	809.8	487.8	436.6	380.5	356.1	365.9	409.8	456.1	463.4
52.5°	9583.3	6912.5	731.7	451.2	407.3	353.7	331.7	339.0	387.8	439.0	448.8
55°	10156.5	7402.7	729.3	402.5	356.1	317.1	307.3	309.8	358.6	417.1	429.3
57.5°	10624.8	7834.5	778.1	339.0	297.6	278.1	273.2	275.6	319.5	385.4	400.0
60°	8790.6	6088.1	643.9	280.5	248.8	243.9	236.6	241.5	282.9	341.5	353.7
62.5°	5202.7	3480.6	307.3	214.6	212.2	207.3	200.0	209.8	248.8	300.0	307.3
65°	1778.1	1031.7	195.1	175.6	180.5	173.2	165.9	175.6	209.8	239.0	241.5
67.5°	341.5	273.2	156.1	146.3	148.8	134.2	131.7	141.5	161.0	165.9	163.4
70°	178.1	158.5	119.5	119.5	114.6	95.1	95.1	104.9	104.9	97.6	95.1
72.5°	92.7	87.8	78.1	87.8	73.2	58.5	58.5	63.4	58.5	48.8	48.8
75°	36.6	36.6	34.1	43.9	31.7	26.8	24.4	29.3	22.0	17.1	17.1
77.5°	9.8	9.8	9.8	12.2	7.3	7.3	4.9	4.9	2.4	0.0	0.0
80°	0.0	2.4	0.0	2.4	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)