

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: P641022

Luminaire Tested: GWS-SA5F-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641022
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-SA5F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20609.3 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

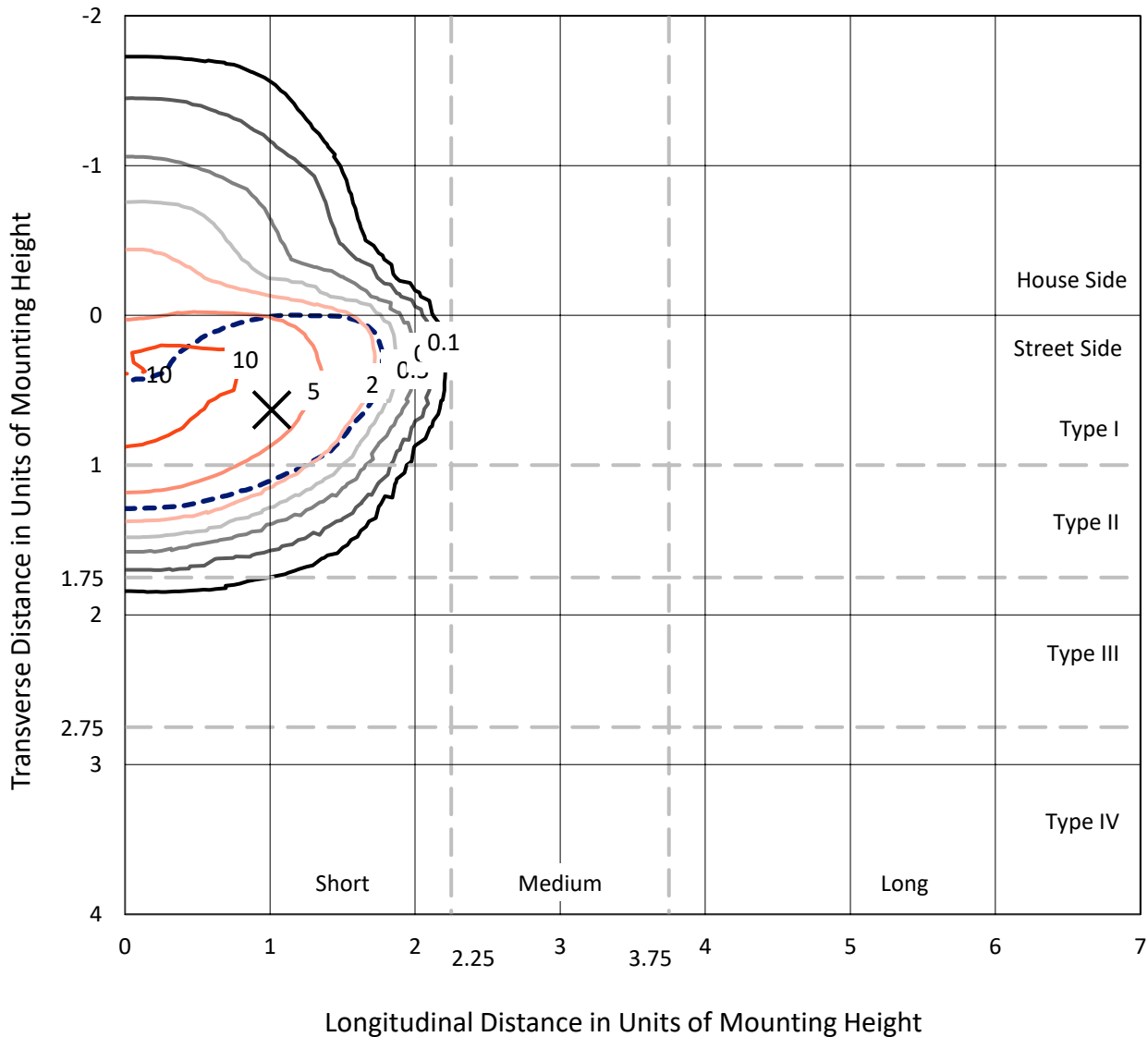
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

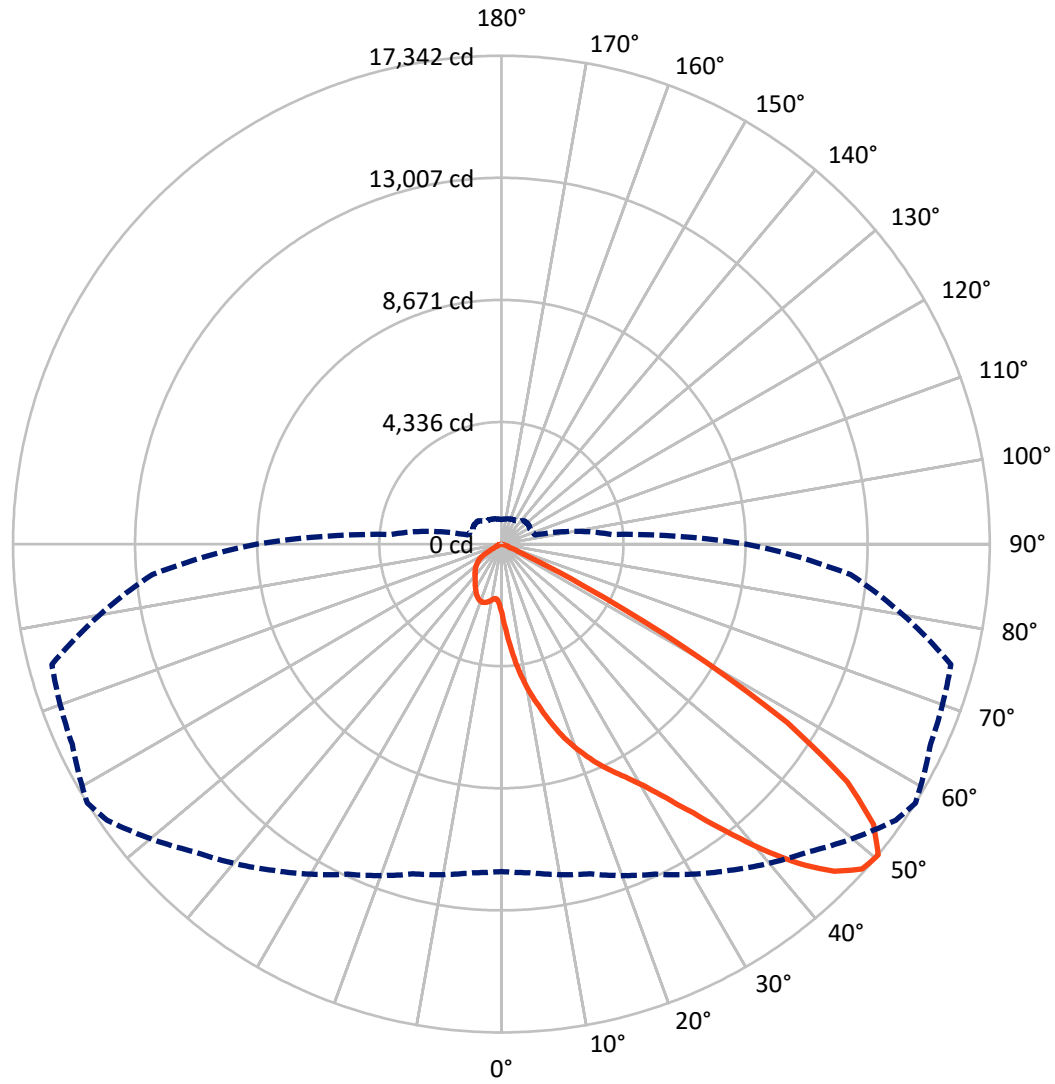
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	2886.6	0.0	2886.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	17722.7	0.0	17722.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	20609.3	0.0	20609.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	1.5
10°-20°	1207.3	5.9
20°-30°	2443.0	11.9
30°-40°	4322.0	21.0
40°-50°	6300.5	30.6
50°-60°	5050.0	24.5
60°-70°	909.8	4.4
70°-80°	71.7	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°	20609.3	100.0
0°-180°	20609.3	100.0

Coefficient of Utilization



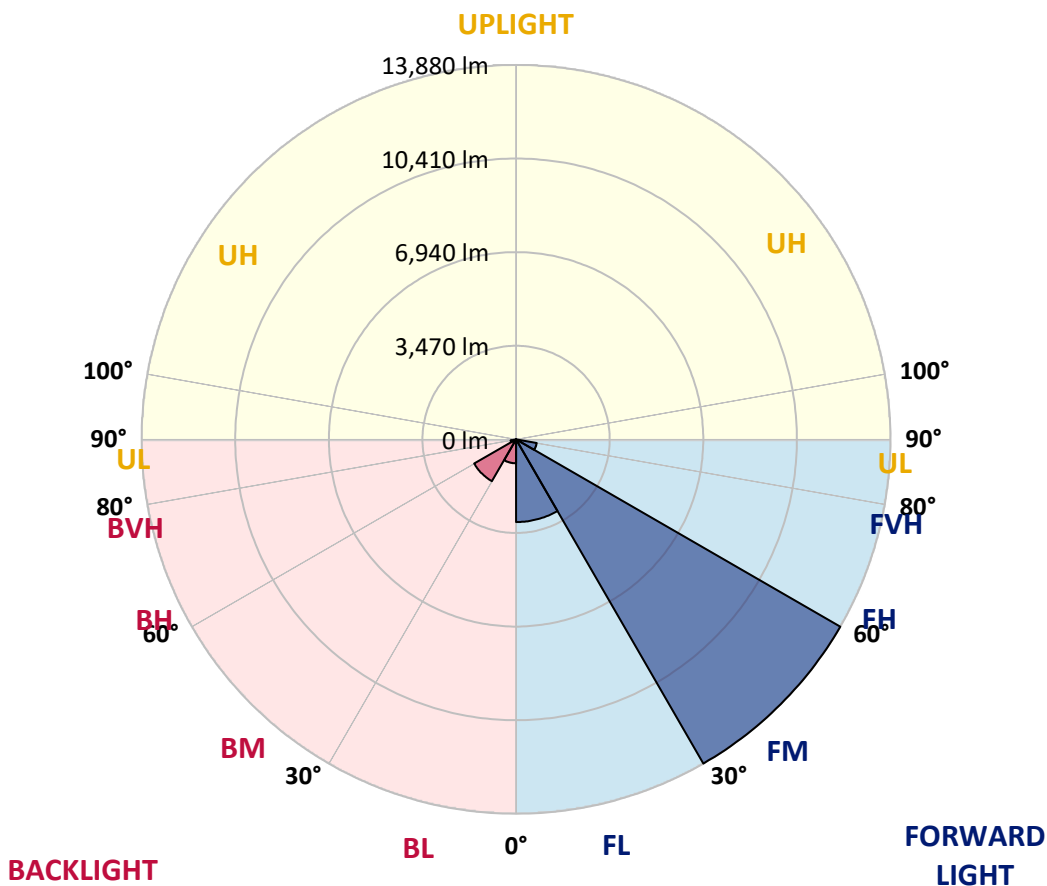
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3066.6	14.9			
FM (30°-60°)	13879.7	67.3			
FH (60°-80°)	776.3	3.8			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	888.7	4.3	B2/1000		
BM (30°-60°)	1792.7	8.7	B2/2500		
BH (60°-80°)	205.2	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°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2.5°	3643.0	3585.7	3552.7	3526.2	3409.4	3224.3	3103.1	3039.2	2933.4	2754.9	2600.6
5°	4753.8	4711.9	4634.8	4581.9	4432.0	4169.8	3898.7	3790.7	3550.5	3147.2	2785.7
7.5°	5489.9	5459.0	5430.4	5359.9	5218.8	4980.8	4681.1	4568.7	4198.4	3625.4	3032.6
10°	6056.3	6032.0	5999.0	5996.8	5886.6	5672.8	5379.7	5262.9	4861.8	4145.5	3323.5
12.5°	6554.4	6534.5	6527.9	6589.6	6519.1	6360.4	6043.1	5897.6	5472.3	4676.7	3645.2
15°	6896.0	6891.6	6920.2	7041.4	7081.1	7008.4	6741.7	6585.2	6096.0	5210.0	4000.1
17.5°	7052.4	7065.7	7120.8	7330.1	7506.5	7568.2	7363.2	7231.0	6715.3	5749.9	4379.1
20°	7319.1	7314.7	7347.8	7546.1	7762.1	7982.5	7920.8	7808.4	7341.2	6320.8	4800.1
22.5°	8070.6	8006.7	7936.2	7967.1	8044.2	8302.1	8416.7	8359.4	7986.9	6907.0	5234.2
25°	9225.5	9159.4	8932.4	8712.0	8566.5	8683.3	8839.8	8868.5	8628.2	7508.7	5688.2
27.5°	10450.8	10391.3	10135.7	9805.1	9388.6	9185.8	9302.6	9359.9	9258.5	8224.9	6170.9
30°	11599.1	11519.7	11239.8	10829.9	10347.3	10036.5	9904.3	9944.0	10003.5	9073.4	6737.3
32.5°	12595.2	12535.7	12200.7	11768.8	11303.8	10979.8	10671.2	10737.4	10882.8	10111.4	7462.4
35°	13439.3	13408.5	13053.6	12623.9	12132.4	11967.1	11702.7	11715.9	11861.3	11365.5	8346.1
37.5°	14173.2	14120.3	13798.6	13399.7	13009.6	12983.1	12910.4	12917.0	12991.9	12826.6	9362.1
40°	14636.0	14587.6	14358.3	14111.5	13833.8	13838.2	14215.1	14243.7	14157.8	14261.4	10435.4
42.5°	14810.1	14774.9	14651.5	14653.7	14625.0	14755.0	15462.5	15515.4	15206.8	15387.6	11352.2
45°	14508.2	14492.8	14501.6	14819.0	15162.8	15563.9	16482.9	16575.5	16139.1	16134.7	12068.5
47.5°	13534.1	13503.2	13761.1	14301.0	15096.6	15876.8	17100.0	17243.2	16791.4	16562.2	12518.1
50°	11625.5	11713.7	12121.4	12932.4	14142.4	15447.1	17093.4	17342.4	16815.7	16524.8	12443.2
52.5°	8421.1	8403.4	9296.0	10411.2	11883.4	14071.8	16185.4	16549.0	16227.2	16156.7	12275.7
55°	4581.9	4742.8	5344.4	6821.0	8659.1	11469.0	14111.5	14904.9	15277.4	16022.3	12577.6
57.5°	1683.8	1754.3	2131.2	3175.8	4584.1	7131.8	10779.2	11975.9	13126.4	15647.6	12526.9
60°	678.8	692.0	841.9	1168.1	1926.2	3629.8	6466.2	7528.5	8612.8	11978.1	9613.4
62.5°	493.7	511.3	570.8	683.2	974.1	1586.8	2787.9	3241.9	3543.9	5932.9	4736.2
65°	398.9	412.1	460.6	511.3	643.5	852.9	899.2	866.1	861.7	1533.9	1086.5
67.5°	330.6	343.8	379.1	414.3	462.8	425.4	308.5	324.0	264.5	262.3	213.8
70°	242.4	257.9	293.1	330.6	277.7	114.6	178.5	264.5	200.6	167.5	163.1
72.5°	182.9	193.9	227.0	216.0	81.5	44.1	119.0	191.7	154.3	123.4	121.2
75°	136.6	143.3	114.6	35.3	8.8	11.0	44.1	79.3	86.0	70.5	70.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.4	6.6	8.8	11.0	13.2
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°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2.5°	2512.4	2419.9	2287.6	2177.4	2093.7	2012.2	1950.4	1888.7	1886.5	1855.7	1849.1
5°	2618.2	2450.7	2208.3	2034.2	1928.4	1864.5	1820.4	1798.4	1787.4	1776.3	1771.9
7.5°	2770.3	2530.1	2195.1	2009.9	1921.8	1879.9	1849.1	1835.8	1829.2	1820.4	1818.2
10°	2957.6	2644.7	2243.6	2056.2	1979.1	1939.4	1906.4	1886.5	1875.5	1860.1	1855.7
12.5°	3182.4	2785.7	2320.7	2133.4	2051.8	1998.9	1954.9	1926.2	1910.8	1890.9	1886.5
15°	3424.8	2937.8	2406.6	2203.9	2106.9	2038.6	1983.5	1939.4	1910.8	1886.5	1879.9
17.5°	3676.1	3092.1	2483.8	2252.4	2133.4	2051.8	1972.5	1913.0	1877.7	1846.9	1838.0
20°	3958.2	3250.7	2534.5	2261.2	2124.6	2016.6	1924.0	1849.1	1813.8	1771.9	1763.1
22.5°	4253.5	3398.4	2556.5	2241.4	2076.1	1950.4	1851.3	1774.1	1723.4	1679.4	1666.1
25°	4540.0	3530.6	2545.5	2186.3	2003.3	1857.9	1756.5	1677.2	1622.1	1578.0	1567.0
27.5°	4844.2	3640.8	2505.8	2104.7	1904.2	1756.5	1659.5	1591.2	1540.5	1492.0	1481.0
30°	5185.8	3742.2	2441.9	2005.5	1787.4	1652.9	1578.0	1531.7	1476.6	1425.9	1410.5
32.5°	5597.9	3832.6	2349.3	1886.5	1683.8	1562.6	1520.7	1485.4	1421.5	1368.6	1357.6
35°	6069.5	3907.5	2232.5	1763.1	1582.4	1505.3	1496.4	1450.2	1366.4	1304.7	1291.5
37.5°	6616.1	3980.2	2093.7	1641.9	1507.5	1478.8	1481.0	1401.7	1300.3	1225.4	1216.5
40°	7204.5	4053.0	1939.4	1536.1	1439.1	1463.4	1443.5	1331.1	1165.9	1093.1	1084.3
42.5°	7817.2	4132.3	1782.9	1436.9	1381.8	1403.9	1375.2	1190.1	1071.1	1033.6	1029.2
45°	8370.4	4227.1	1613.2	1337.8	1324.5	1317.9	1269.4	1077.7	1027.0	1000.6	998.4
47.5°	8769.3	4211.6	1432.5	1243.0	1262.8	1240.8	1093.1	1024.8	982.9	947.7	938.9
50°	8696.6	3942.8	1245.2	1137.2	1183.5	1163.7	982.9	963.1	925.6	888.2	874.9
52.5°	8511.4	3576.9	1082.1	1024.8	1097.5	1051.3	908.0	888.2	855.1	806.6	791.2
55°	8610.6	3233.1	954.3	934.4	1009.4	870.5	824.3	793.4	758.1	705.2	698.6
57.5°	8291.0	2638.1	767.0	780.2	892.6	742.7	722.9	674.4	614.9	579.6	575.2
60°	5738.9	1417.1	480.4	495.9	645.7	623.7	647.9	603.9	531.1	498.1	491.5
62.5°	2635.9	568.6	262.3	251.2	339.4	423.1	555.4	551.0	460.6	407.7	403.3
65°	639.1	260.1	187.3	176.3	191.7	253.4	361.4	434.2	372.5	310.7	304.1
67.5°	207.2	211.6	171.9	160.9	169.7	189.5	216.0	240.2	238.0	218.2	213.8
70°	165.3	191.7	158.7	145.5	145.5	152.1	145.5	116.8	101.4	110.2	114.6
72.5°	123.4	145.5	125.6	112.4	108.0	105.8	90.4	66.1	46.3	41.9	39.7
75°	72.7	81.5	77.1	66.1	61.7	55.1	44.1	28.7	15.4	11.0	6.6
77.5°	13.2	15.4	17.6	13.2	11.0	8.8	6.6	2.2	0.0	0.0	0.0
80°	0.0	2.2	2.2	2.2	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)