

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: P643499

Luminaire Tested: GWS-SA6F-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29565.9 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

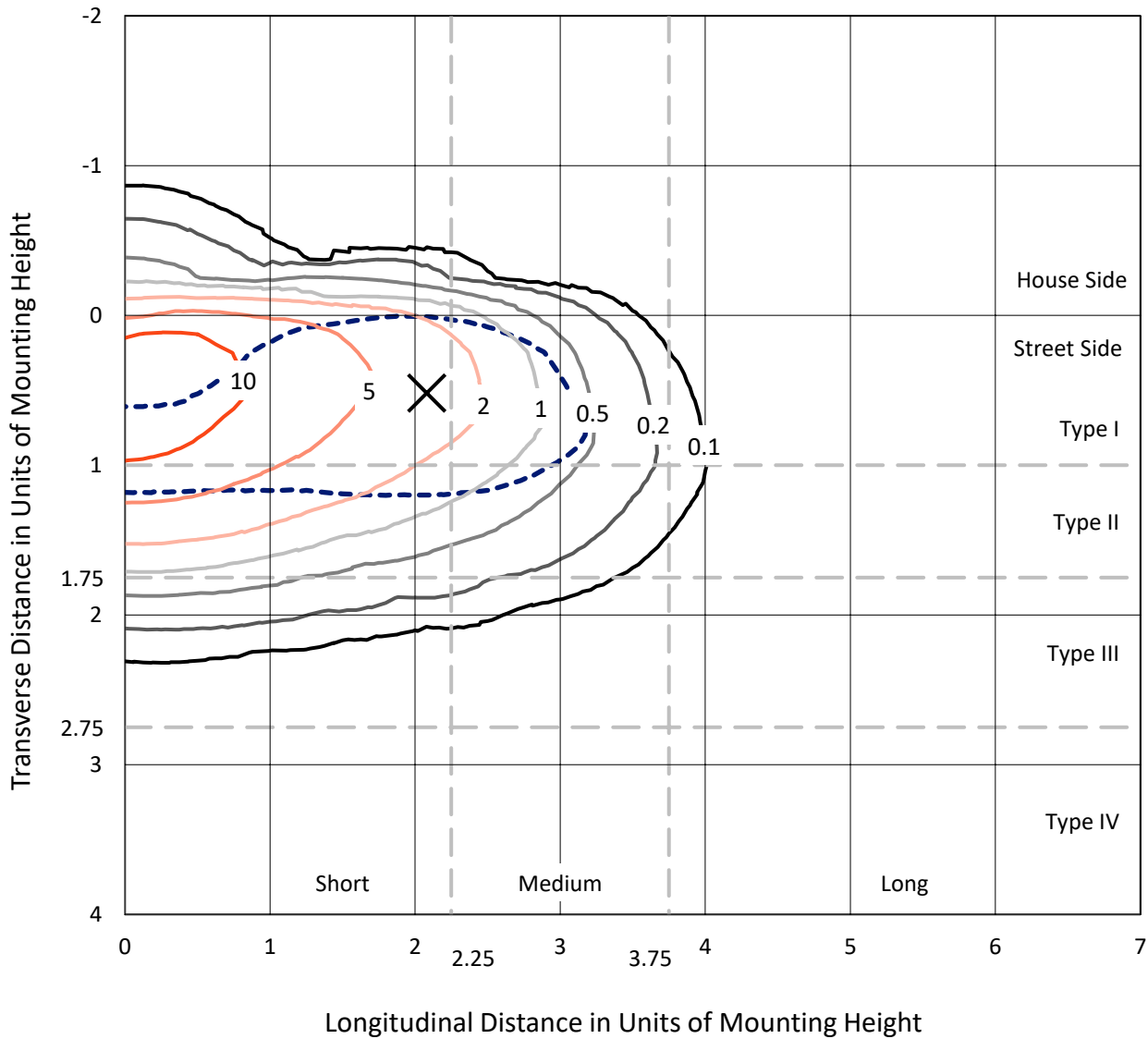
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

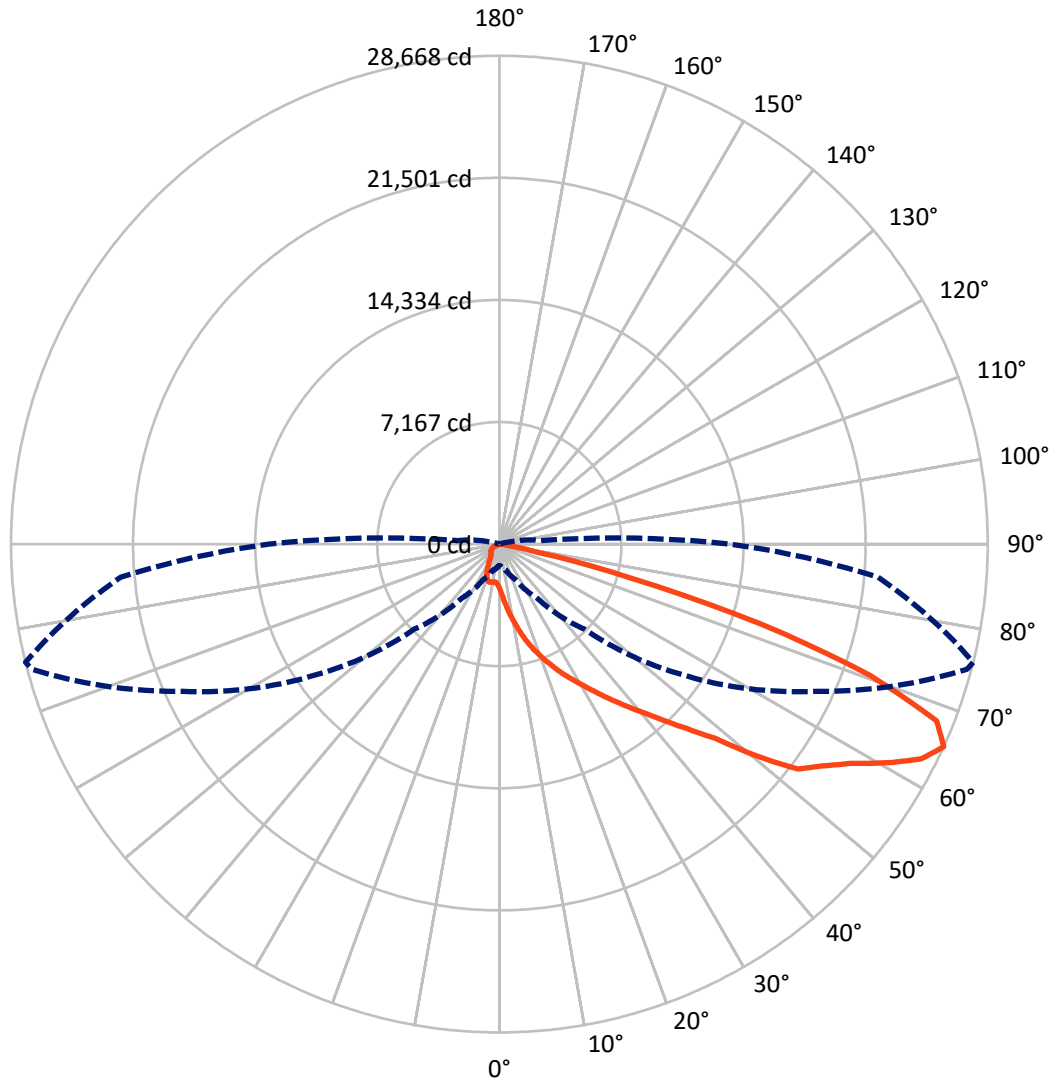
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1634.8	0.0	1634.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	27931.1	0.0	27931.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	29565.9	0.0	29565.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	1.1
10°-20°	1208.4	4.1
20°-30°	2465.2	8.3
30°-40°	4384.5	14.8
40°-50°	6481.3	21.9
50°-60°	7420.6	25.1
60°-70°	5661.6	19.1
70°-80°	1585.9	5.4
80°-90°	39.9	0.1
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°	29565.9	100.0
0°-180°	29565.9	100.0

Coefficient of Utilization

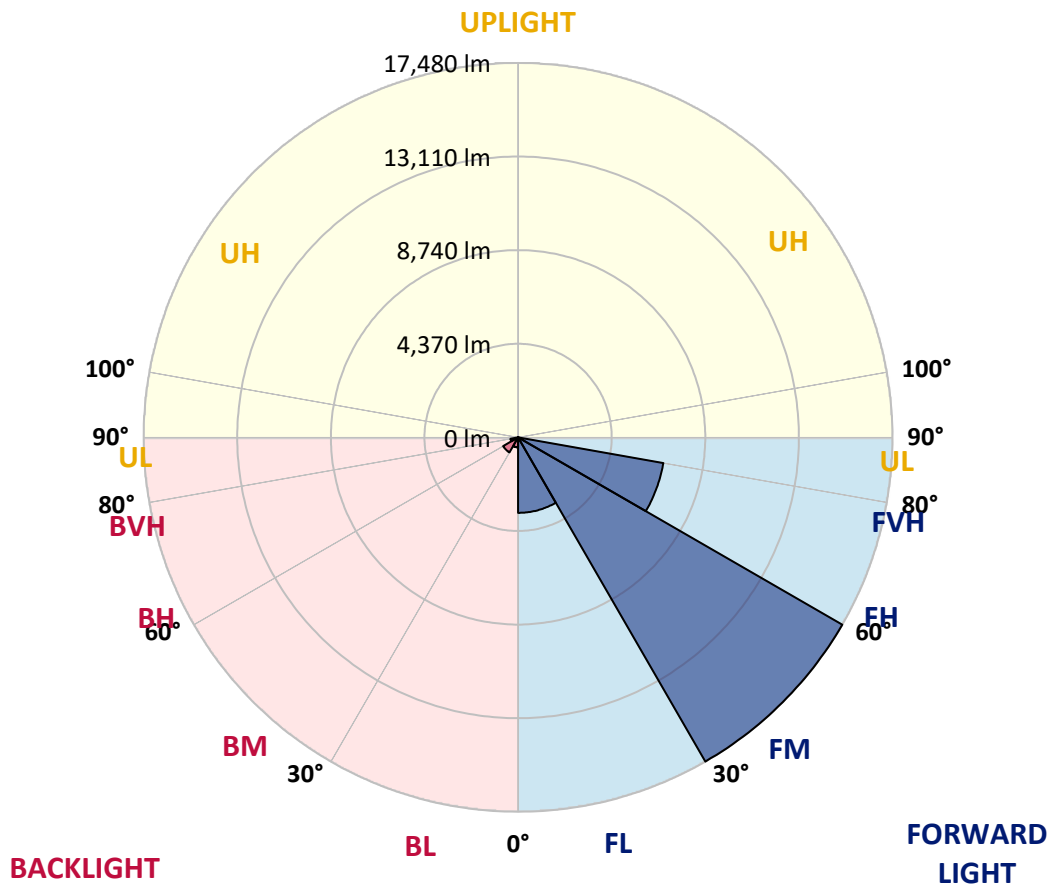


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3525.5	11.9			
FM (30°-60°)	17479.8	59.1			
FH (60°-80°)	6888.1	23.3			G3/7500
FVH (80°-90°)	37.6	0.1			G1/100
BL (0°-30°)	466.5	1.6	B1/500		
BM (30°-60°)	806.6	2.7	B1/1000		
BH (60°-80°)	359.4	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7
2.5°	4034.2	4094.7	4047.4	3968.5	3816.1	3668.9	3479.7	3219.5	3011.9	2985.6	2791.1
5°	5448.2	5442.9	5340.4	5237.9	5077.6	4825.3	4444.2	3960.7	3495.5	3456.0	3019.8
7.5°	6289.2	6297.1	6239.3	6160.4	6002.7	5742.6	5345.7	4762.2	4081.6	4002.7	3332.5
10°	6996.2	6993.6	6951.5	6914.7	6772.8	6599.3	6173.6	5532.3	4712.3	4588.8	3682.1
12.5°	7527.1	7545.5	7566.5	7603.3	7542.9	7372.0	6969.9	6270.8	5351.0	5214.3	4081.6
15°	7947.6	7952.9	8031.7	8173.6	8223.6	8134.2	7768.9	6985.7	5981.7	5863.5	4541.5
17.5°	8073.7	8084.3	8218.3	8478.5	8741.3	8791.2	8515.3	7705.8	6602.0	6475.8	4988.3
20°	8339.2	8362.8	8462.7	8691.4	9022.5	9290.6	9182.8	8433.8	7222.2	7056.6	5445.6
22.5°	9175.0	9188.1	9153.9	9182.8	9353.7	9663.8	9729.5	9138.2	7858.2	7682.2	5939.7
25°	10612.6	10617.8	10378.7	10152.6	10023.9	10081.7	10226.2	9787.3	8489.0	8315.5	6399.6
27.5°	12105.4	12123.8	11837.3	11453.6	10993.6	10730.8	10688.8	10381.3	9125.0	8933.2	6854.3
30°	13511.4	13511.4	13209.2	12741.4	12126.4	11613.9	11311.7	10980.5	9805.7	9595.5	7319.5
32.5°	14775.6	14765.1	14378.7	13871.5	13264.4	12702.0	12065.9	11606.0	10562.6	10328.7	7855.6
35°	15819.0	15792.7	15353.8	14867.6	14218.4	13800.5	13090.9	12278.8	11382.6	11148.7	8407.5
37.5°	16607.4	16578.5	16176.4	15661.3	15059.4	14788.7	14194.8	13085.7	12247.3	12034.4	9019.9
40°	17035.8	16978.0	16699.4	16315.7	15811.1	15574.6	15327.5	14087.0	13264.4	12998.9	9742.6
42.5°	17162.0	17093.6	16909.7	16731.0	16426.1	16239.5	16504.9	15217.1	14381.4	14152.7	10567.9
45°	16788.8	16749.3	16733.6	16862.4	16917.6	16970.1	17624.5	16468.1	15614.0	15440.5	11606.0
47.5°	15889.9	15879.4	16018.7	16554.9	17138.3	17692.9	18841.4	18010.9	17211.9	17025.3	13056.8
50°	14228.9	14336.7	14725.7	15666.5	16833.4	18102.9	19979.4	20150.2	19798.0	19524.7	14949.0
52.5°	11632.3	11839.9	12712.5	14142.2	15819.0	17987.2	20505.0	21863.8	22223.8	21940.0	16305.2
55°	9127.6	9322.1	10100.1	11913.5	14150.1	17106.8	20528.7	22455.1	23240.9	22978.1	17222.4
57.5°	6799.1	6977.8	7684.8	9419.4	11879.3	15374.8	19966.2	22783.6	24447.3	24279.1	18670.5
60°	4444.2	4620.3	5259.0	6775.4	9214.4	12851.8	18581.2	22715.3	26089.9	26074.1	20449.8
62.5°	2465.2	2604.5	3067.1	4249.8	6431.1	9952.9	16405.1	22029.3	27679.9	27779.8	21916.3
65°	1261.5	1350.9	1632.1	2336.4	3892.3	7056.6	13543.0	20457.7	28415.8	28668.1	22302.7
67.5°	825.2	854.2	922.5	1214.2	2084.1	4439.0	10192.1	17937.3	27380.3	27674.7	21007.0
70°	670.2	693.8	733.3	809.5	1074.9	2357.5	6694.0	14326.2	22878.2	23078.0	16728.3
72.5°	491.5	523.0	599.2	649.2	775.3	1293.1	3482.3	9403.6	15711.2	16063.4	10512.7
75°	362.7	381.1	444.2	512.5	633.4	817.4	1332.5	4943.6	8113.2	7908.2	4415.3
77.5°	218.1	231.3	283.8	328.5	452.0	509.9	465.2	1826.6	2467.9	2320.7	1067.0
80°	107.8	120.9	186.6	247.0	289.1	205.0	194.5	509.9	549.3	549.3	268.1
82.5°	36.8	47.3	99.9	162.9	141.9	78.8	92.0	131.4	147.2	155.1	78.8
85°	0.0	0.0	23.7	47.3	21.0	10.5	23.7	28.9	36.8	39.4	26.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.9	10.5	10.5
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°	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7
2.5°	2686.0	2562.5	2375.9	2207.7	2078.9	1958.0	1866.0	1792.4	1779.3	1737.2	1742.5
5°	2806.9	2583.5	2239.2	1973.8	1787.2	1661.0	1555.9	1477.0	1442.9	1408.7	1382.4
7.5°	2993.5	2670.2	2186.6	1863.4	1645.2	1450.8	1287.8	1156.4	1093.3	1053.9	1027.6
10°	3222.1	2791.1	2189.3	1797.7	1474.4	1177.4	954.0	809.5	741.1	720.1	717.5
12.5°	3495.5	2943.6	2210.3	1689.9	1227.4	875.2	707.0	641.3	620.2	601.9	601.9
15°	3784.6	3114.4	2210.3	1492.8	935.6	683.3	612.4	570.3	544.0	533.5	528.3
17.5°	4089.4	3274.7	2157.7	1222.1	717.5	601.9	544.0	504.6	483.6	467.8	462.6
20°	4415.3	3427.1	2026.3	935.6	615.0	538.8	483.6	444.2	423.1	407.4	407.4
22.5°	4746.5	3569.1	1813.4	720.1	544.0	478.3	425.8	389.0	367.9	352.2	352.2
25°	5054.0	3663.7	1540.1	594.0	491.5	425.8	378.5	341.7	318.0	307.5	302.2
27.5°	5340.4	3724.1	1237.9	523.0	441.5	381.1	331.1	297.0	278.6	270.7	265.4
30°	5637.4	3739.9	946.1	475.7	399.5	336.4	289.1	262.8	247.0	236.5	236.5
32.5°	5926.5	3721.5	722.7	436.3	362.7	297.0	257.6	233.9	220.8	212.9	210.3
35°	6220.9	3637.4	586.1	402.1	325.9	260.2	228.7	210.3	202.4	191.9	191.9
37.5°	6541.5	3524.4	509.9	367.9	289.1	233.9	205.0	191.9	181.3	173.5	170.8
40°	6941.0	3393.0	467.8	339.0	254.9	210.3	184.0	170.8	162.9	155.1	152.4
42.5°	7414.1	3264.2	446.8	307.5	228.7	186.6	165.6	149.8	141.9	131.4	128.8
45°	8084.3	3235.3	423.1	273.3	205.0	168.2	144.5	128.8	118.3	110.4	107.8
47.5°	9161.8	3316.8	383.7	236.5	181.3	147.2	123.5	110.4	97.2	89.4	84.1
50°	10231.5	3295.7	344.3	205.0	160.3	126.2	105.1	92.0	78.8	71.0	68.3
52.5°	10814.9	3195.9	307.5	181.3	139.3	107.8	89.4	73.6	65.7	57.8	55.2
55°	11343.2	3156.4	270.7	157.7	118.3	94.6	73.6	60.4	55.2	47.3	44.7
57.5°	12378.7	3248.4	239.2	136.7	102.5	81.5	63.1	49.9	44.7	36.8	34.2
60°	13461.5	3258.9	205.0	118.3	89.4	68.3	49.9	39.4	34.2	26.3	23.7
62.5°	14026.6	2993.5	168.2	99.9	73.6	57.8	42.1	31.5	26.3	15.8	15.8
65°	13553.5	2420.5	141.9	81.5	57.8	44.7	31.5	23.7	15.8	7.9	2.6
67.5°	11995.0	1721.5	118.3	65.7	42.1	31.5	23.7	15.8	2.6	0.0	0.0
70°	8783.4	982.9	92.0	47.3	31.5	21.0	15.8	7.9	0.0	0.0	0.0
72.5°	5398.3	525.6	68.3	31.5	23.7	15.8	13.1	5.3	0.0	0.0	0.0
75°	2047.3	252.3	42.1	21.0	18.4	13.1	7.9	2.6	0.0	0.0	0.0
77.5°	554.5	123.5	23.7	15.8	13.1	7.9	5.3	0.0	0.0	0.0	0.0
80°	144.5	57.8	15.8	10.5	7.9	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	49.9	26.3	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
85°	21.0	10.5	5.3	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	2.6	2.6	2.6	2.6	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)