

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: P642974

Luminaire Tested: GWS-SA6E-722-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-722-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27651.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

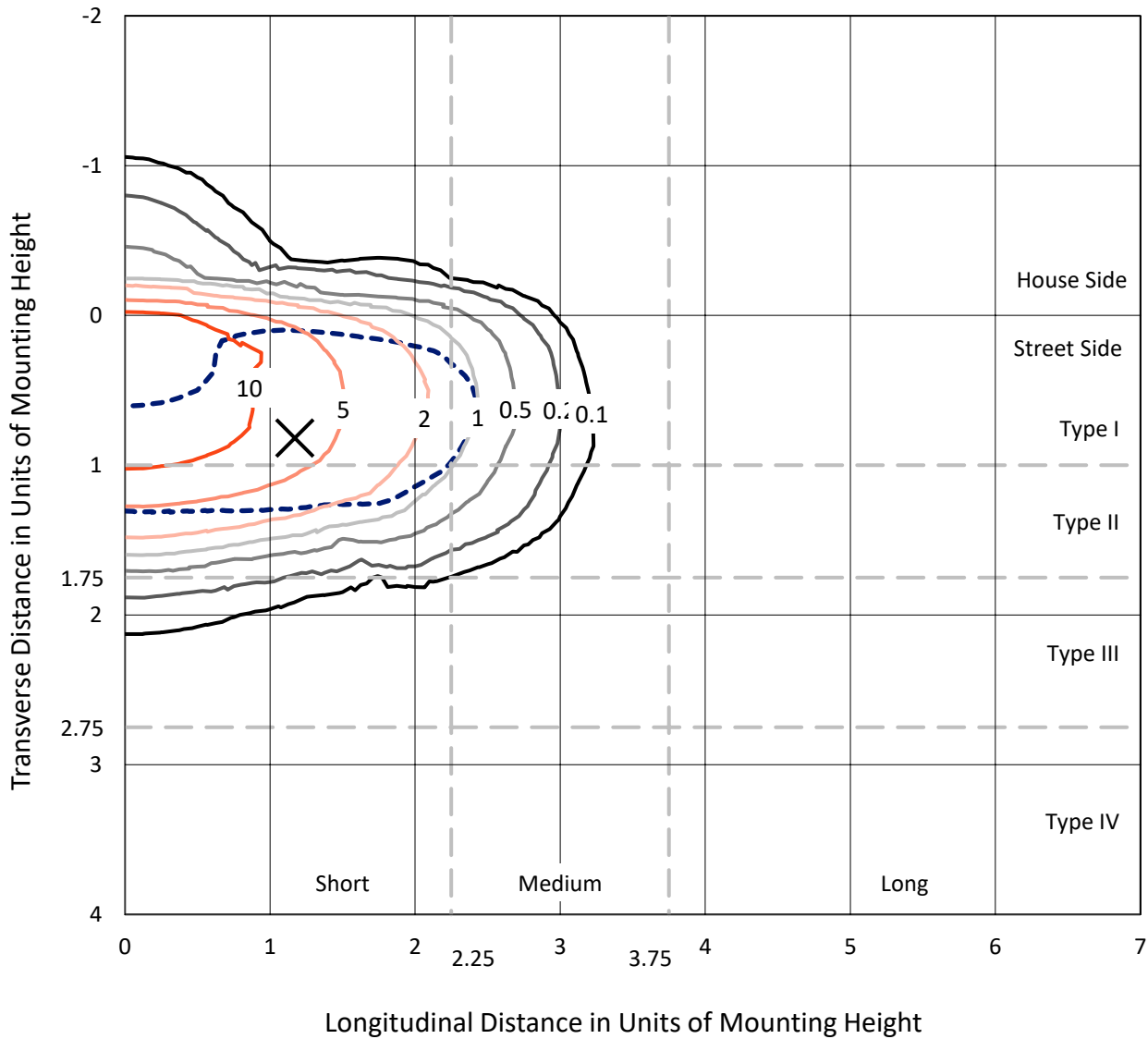
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

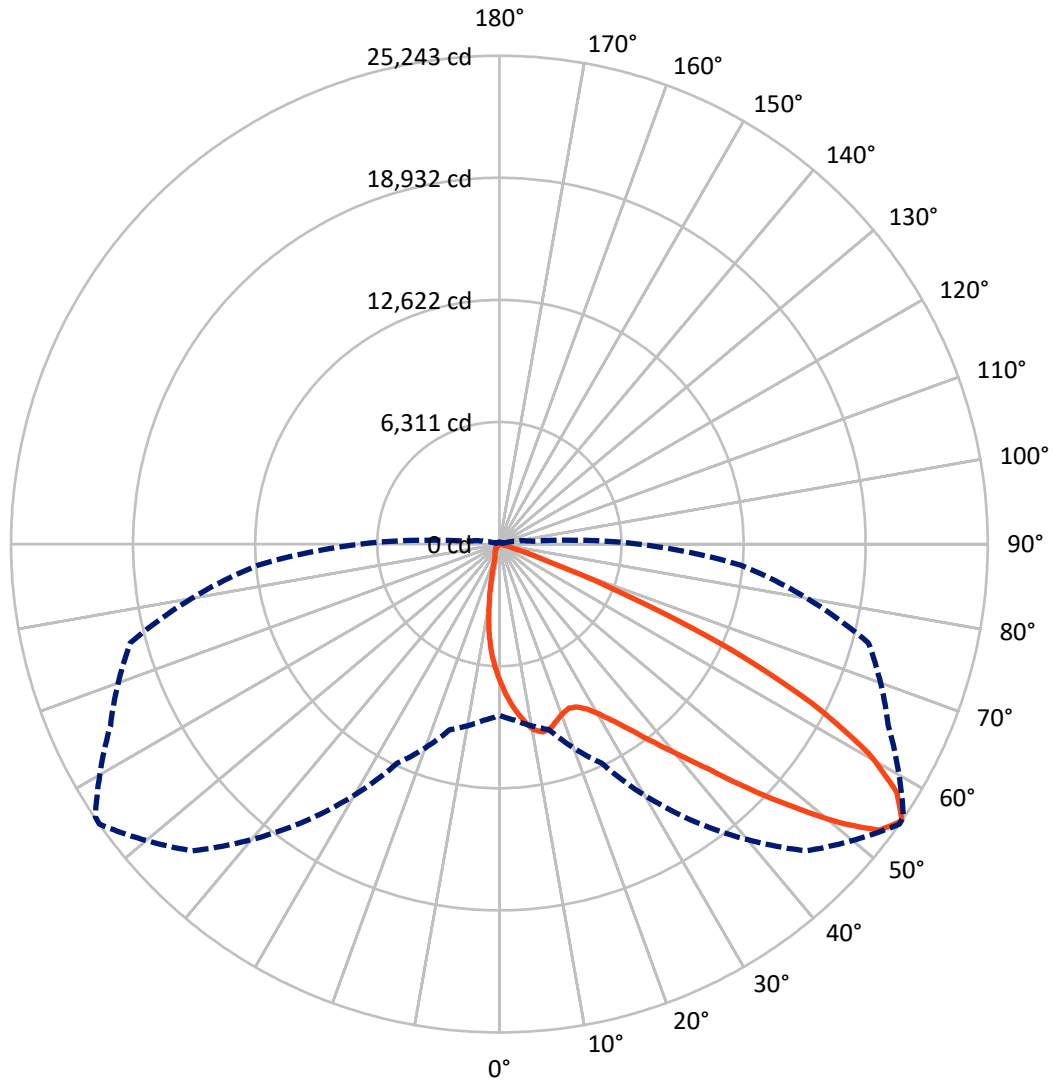
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.2	0.0	1706.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25945.1	0.0	25945.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	27651.3	0.0	27651.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	631.3	2.3
10°-20°	1522.0	5.5
20°-30°	2534.8	9.2
30°-40°	4319.4	15.6
40°-50°	7050.7	25.5
50°-60°	7381.8	26.7
60°-70°	3723.2	13.5
70°-80°	470.3	1.7
80°-90°	17.9	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°	27651.3	100.0
0°-180°	27651.3	100.0

Coefficient of Utilization



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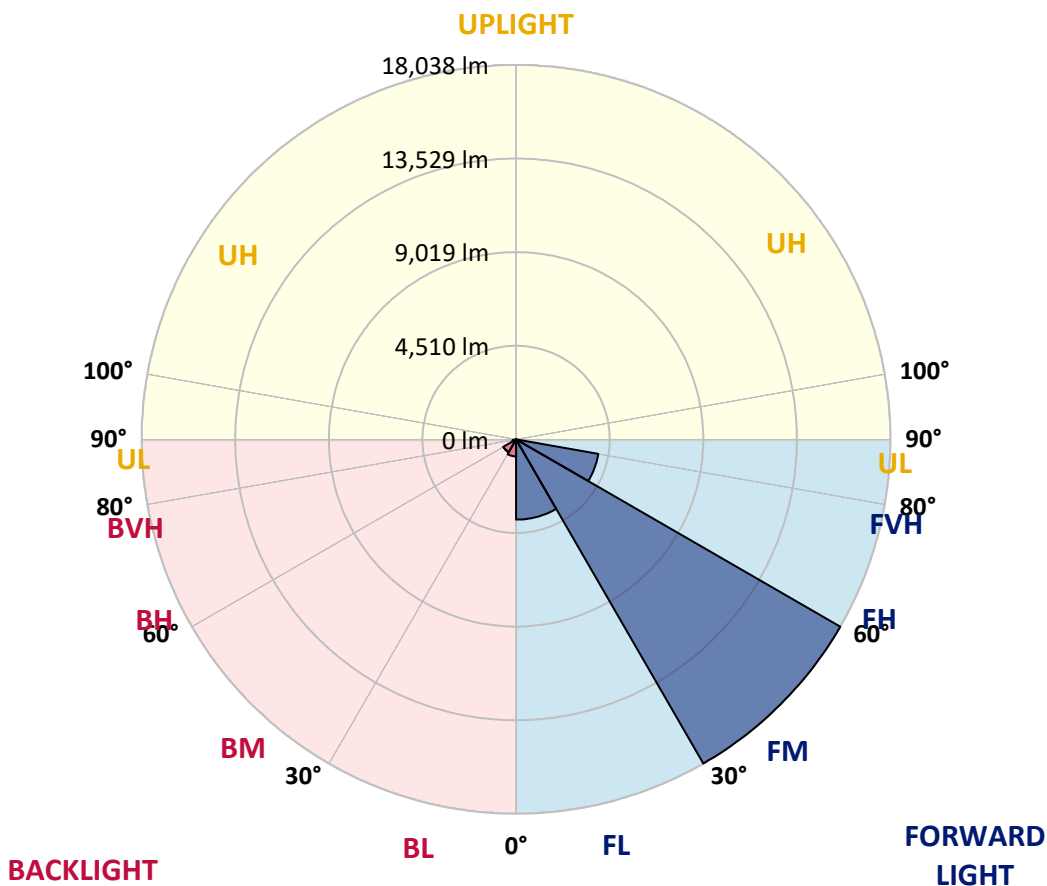
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3868.0	14.0			
FM (30°-60°)	18038.5	65.2			
FH (60°-80°)	4022.4	14.5			G2/5000
FVH (80°-90°)	16.2	0.1			G1/100
BL (0°-30°)	820.1	3.0	B2/1000		
BM (30°-60°)	713.4	2.6	B1/1000		
BH (60°-80°)	171.1	0.6	B1/500		G1/500
BVH (80°-90°)	1.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5
2.5°	8327.8	8287.6	8349.0	8278.1	8157.6	8055.9	7923.5	7876.3	7663.5	7462.6	7268.8
5°	9339.5	9351.3	9332.4	9233.1	9062.9	8873.8	8606.7	8547.6	8176.5	7793.5	7379.9
7.5°	9590.0	9582.9	9623.1	9660.9	9632.6	9538.0	9247.3	9188.2	8727.2	8152.8	7550.1
10°	8817.1	8821.8	8904.5	9159.8	9476.6	9805.1	9760.2	9727.1	9275.6	8559.4	7739.2
12.5°	7725.0	7767.5	7855.0	8219.0	8755.6	9502.6	9965.9	9999.0	9779.1	9006.2	7961.4
15°	7252.2	7261.7	7332.6	7552.4	7951.9	8873.8	9878.4	9970.6	10199.9	9455.3	8202.5
17.5°	7240.4	7252.2	7282.9	7379.9	7639.9	8379.8	9597.1	9757.9	10516.7	9937.5	8490.9
20°	7684.8	7677.7	7656.4	7604.4	7717.9	8216.7	9337.1	9514.4	10689.2	10407.9	8781.6
22.5°	8490.9	8481.4	8386.8	8171.7	8079.6	8365.6	9209.5	9370.2	10793.2	10826.3	9020.4
25°	9419.8	9486.0	9308.7	8982.5	8755.6	8746.1	9322.9	9436.4	10883.0	11197.4	9183.5
27.5°	10438.6	10459.9	10308.6	9942.2	9613.7	9356.0	9651.5	9736.6	10982.3	11528.4	9275.6
30°	11556.7	11549.6	11377.1	10951.6	10552.1	10181.0	10204.6	10237.7	11214.0	11906.6	9377.3
32.5°	12953.8	12984.5	12677.2	12098.1	11618.2	11105.2	10928.0	10932.7	11632.4	12393.5	9530.9
35°	14851.9	14776.3	14369.7	13544.7	12726.8	12173.7	11871.1	11845.1	12277.7	13048.3	9798.1
37.5°	16660.2	16667.3	16241.8	15334.1	14301.1	13428.9	13001.0	12930.1	13185.4	13956.0	10242.4
40°	17915.4	17939.1	17761.8	17286.6	16192.2	14958.3	14329.5	14256.2	14362.6	15104.8	10824.0
42.5°	18579.7	18645.8	18695.5	18806.6	17976.9	16868.2	15901.4	15894.4	15783.3	16414.4	11497.6
45°	18605.7	18704.9	19007.5	19766.3	19860.8	19047.7	17995.8	17837.4	17409.6	17816.1	12100.4
47.5°	17577.4	17806.7	18449.6	19953.0	20945.8	21215.3	20172.9	20076.0	18875.1	18924.8	12551.9
50°	15180.5	15419.2	16603.5	18995.7	21220.0	22936.2	22562.7	22361.8	20099.6	19657.6	12769.4
52.5°	12722.1	12939.6	13743.3	16717.0	20083.0	23477.5	24576.7	24337.9	21198.8	19912.9	12679.6
55°	8852.5	9143.3	9928.1	12495.2	17463.9	22423.2	25243.3	25193.6	22179.8	19752.1	12540.1
57.5°	4340.0	4628.4	5410.8	7703.7	12937.2	19577.2	24224.5	24486.9	22766.0	19579.6	12426.6
60°	1813.1	1931.2	2200.7	3380.3	7238.0	14795.2	21924.5	22288.5	22406.7	19345.5	12414.8
62.5°	1051.9	1070.8	1099.2	1401.7	2815.3	8481.4	18187.3	18704.9	20518.0	19035.9	12228.1
65°	794.2	801.3	789.5	860.4	1163.0	3217.2	13140.5	13844.9	17125.9	17825.6	11490.5
67.5°	652.4	652.4	621.7	635.9	730.4	1205.6	7254.6	8237.9	12672.5	14651.0	9488.4
70°	520.0	531.9	517.7	498.8	522.4	666.6	2581.3	3200.6	7379.9	8651.6	5533.7
72.5°	394.8	394.8	418.4	404.2	387.7	418.4	900.6	1011.7	2961.9	3607.2	1997.4
75°	304.9	314.4	330.9	316.8	293.1	248.2	432.6	458.6	893.5	839.2	446.8
77.5°	156.0	158.4	210.4	231.7	217.5	151.3	189.1	208.0	290.8	260.0	165.5
80°	94.6	99.3	118.2	182.0	144.2	80.4	78.0	82.7	137.1	118.2	68.6
82.5°	40.2	42.5	66.2	66.2	59.1	30.7	30.7	30.7	66.2	61.5	28.4
85°	0.0	0.0	11.8	9.5	9.5	11.8	11.8	11.8	16.5	23.6	14.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.1	7.1
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°	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5	7143.5
2.5°	7143.5	6992.2	6788.9	6604.5	6356.3	6216.9	6023.0	5864.6	5729.9	5687.4	5668.5
5°	7145.8	6885.8	6450.9	6015.9	5481.7	5060.9	4628.4	4285.6	4004.3	3914.5	3890.9
7.5°	7193.1	6810.2	6105.8	5316.2	4422.7	3685.2	3025.7	2434.7	2160.5	2068.3	2049.4
10°	7256.9	6746.4	5706.3	4477.1	3193.5	2245.6	1590.9	1212.6	1033.0	933.7	947.9
12.5°	7339.7	6694.3	5264.2	3569.4	2113.3	1233.9	874.6	732.8	695.0	676.1	666.6
15°	7450.8	6632.9	4715.8	2668.8	1295.4	794.2	673.7	635.9	621.7	612.2	609.9
17.5°	7564.2	6562.0	4158.0	1876.9	860.4	659.5	605.1	586.2	576.8	569.7	567.3
20°	7684.8	6441.4	3503.2	1293.0	678.4	593.3	557.9	536.6	524.8	512.9	510.6
22.5°	7736.8	6247.6	2876.8	905.3	602.8	546.0	501.1	475.1	460.9	451.5	451.5
25°	7687.2	5933.2	2229.1	687.9	548.4	494.0	449.1	420.8	408.9	399.5	399.5
27.5°	7554.8	5529.0	1626.3	569.7	489.3	439.7	397.1	371.1	361.7	356.9	356.9
30°	7408.2	5018.4	1146.5	489.3	423.1	382.9	347.5	330.9	328.6	323.8	323.8
32.5°	7282.9	4540.9	789.5	430.2	373.5	333.3	309.7	302.6	304.9	300.2	302.6
35°	7214.4	4072.9	586.2	382.9	333.3	295.5	283.7	283.7	283.7	281.3	281.3
37.5°	7242.8	3611.9	477.5	349.8	297.8	269.5	257.7	262.4	267.1	267.1	267.1
40°	7384.6	3203.0	423.1	319.1	267.1	245.8	236.4	243.5	250.6	255.3	255.3
42.5°	7564.2	2872.0	382.9	293.1	245.8	222.2	217.5	224.6	231.7	236.4	236.4
45°	7677.7	2538.7	342.8	260.0	224.6	196.2	196.2	205.7	203.3	205.7	205.7
47.5°	7729.7	2274.0	302.6	224.6	191.5	170.2	172.6	177.3	172.6	177.3	177.3
50°	7602.1	2006.9	267.1	186.7	158.4	148.9	153.6	151.3	151.3	160.7	160.7
52.5°	7368.0	1808.3	236.4	158.4	134.7	132.4	137.1	127.6	130.0	130.0	127.6
55°	7195.5	1694.9	210.4	137.1	115.8	118.2	115.8	99.3	89.8	80.4	78.0
57.5°	7110.4	1649.9	191.5	122.9	104.0	104.0	94.6	68.6	52.0	40.2	35.5
60°	7091.5	1595.6	172.6	106.4	92.2	87.5	68.6	40.2	26.0	18.9	16.5
62.5°	6911.8	1463.2	156.0	85.1	80.4	70.9	42.5	23.6	14.2	9.5	7.1
65°	6323.2	1203.2	139.5	66.2	61.5	52.0	26.0	14.2	7.1	2.4	0.0
67.5°	5030.2	853.3	122.9	49.6	42.5	33.1	16.5	9.5	2.4	0.0	0.0
70°	2900.4	460.9	101.6	35.5	28.4	21.3	11.8	4.7	0.0	0.0	0.0
72.5°	969.2	215.1	78.0	23.6	21.3	16.5	7.1	2.4	0.0	0.0	0.0
75°	212.7	127.6	52.0	16.5	14.2	11.8	4.7	0.0	0.0	0.0	0.0
77.5°	80.4	89.8	26.0	11.8	9.5	7.1	2.4	0.0	0.0	0.0	0.0
80°	30.7	59.1	11.8	7.1	7.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	23.6	7.1	4.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.5	11.8	4.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	2.4	2.4	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)