

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: P638549

Luminaire Tested: GWS-SA4F-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638549
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-SA4F-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20212.3 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

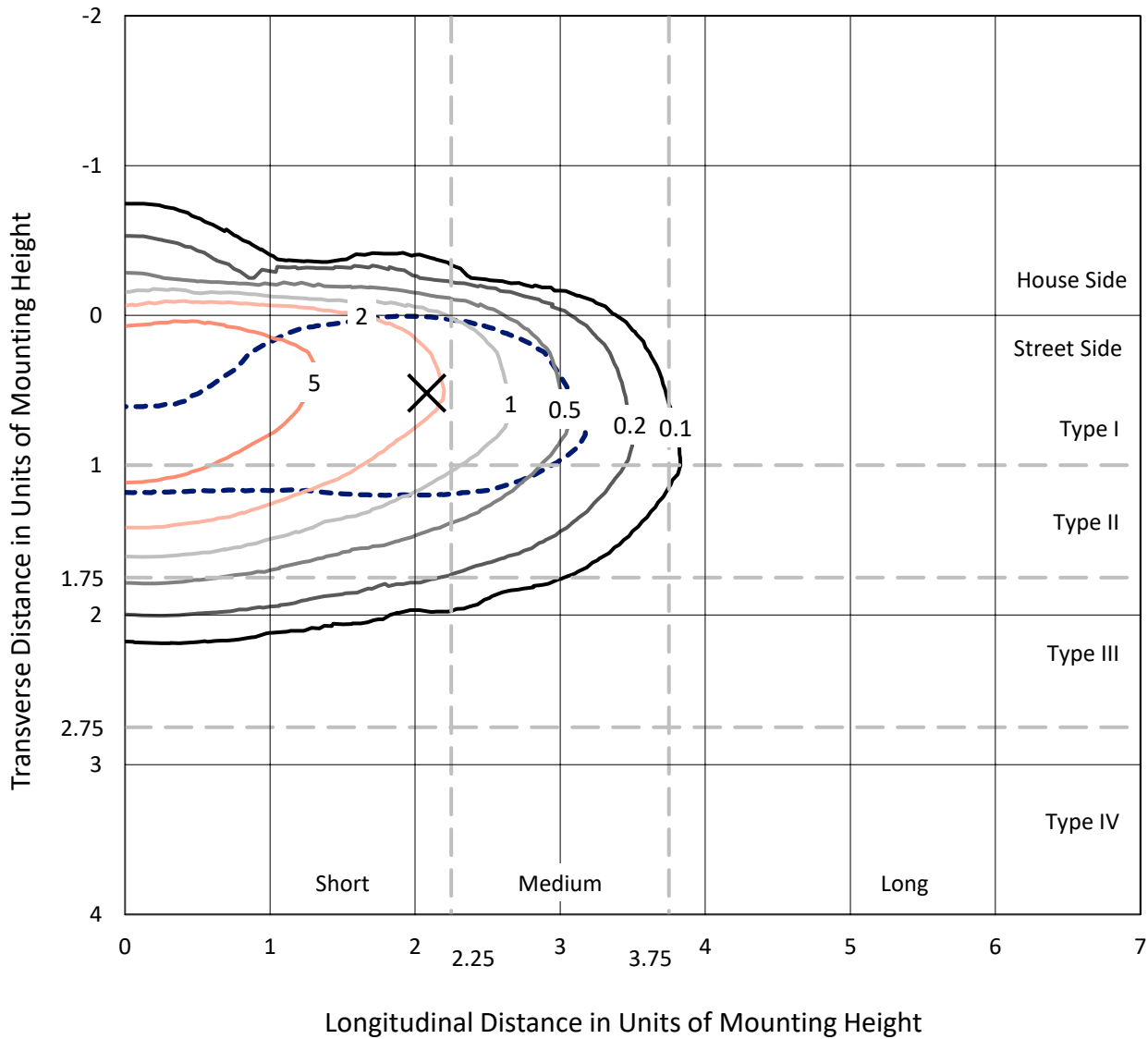
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

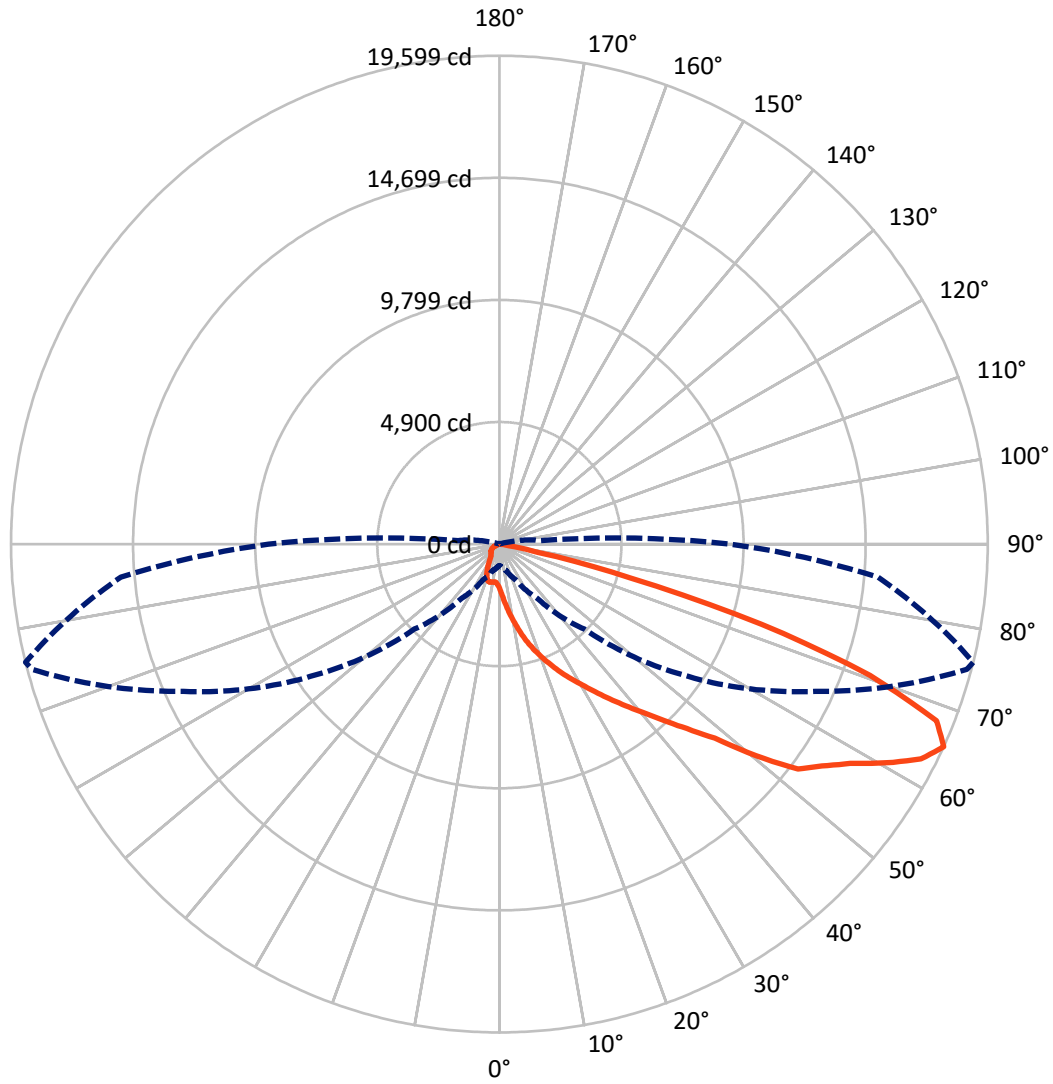
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	1117.6	0.0	1117.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	19094.7	0.0	19094.7
	% Fixture	94.5	0.0	94.5
Total	Lumens	20212.3	0.0	20212.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	1.1
10°-20°	826.1	4.1
20°-30°	1685.3	8.3
30°-40°	2997.4	14.8
40°-50°	4430.9	21.9
50°-60°	5073.0	25.1
60°-70°	3870.5	19.1
70°-80°	1084.2	5.4
80°-90°	27.3	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°	20212.3	100.0
0°-180°	20212.3	100.0

Coefficient of Utilization

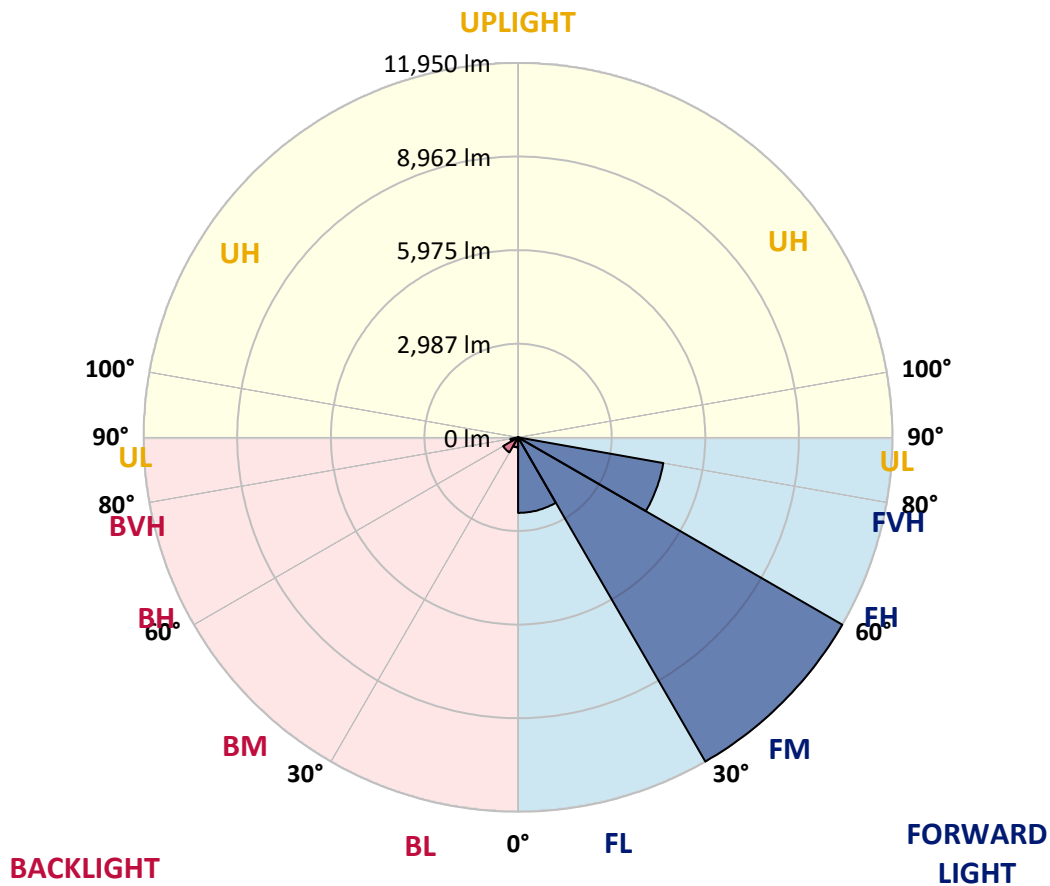


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2410.2	11.9			
FM (30°-60°)	11949.8	59.1			
FH (60°-80°)	4709.0	23.3			G2/5000
FVH (80°-90°)	25.7	0.1			G1/100
BL (0°-30°)	318.9	1.6	B1/500		
BM (30°-60°)	551.4	2.7	B1/1000		
BH (60°-80°)	245.7	1.2	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: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5
2.5°	2758.0	2799.3	2766.9	2713.0	2608.8	2508.2	2378.8	2201.0	2059.0	2041.1	1908.1
5°	3724.6	3721.0	3650.9	3580.8	3471.2	3298.8	3038.2	2707.6	2389.6	2362.7	2064.4
7.5°	4299.5	4304.9	4265.4	4211.5	4103.7	3925.8	3654.5	3255.6	2790.3	2736.4	2278.2
10°	4782.8	4781.1	4752.3	4727.2	4630.1	4511.5	4220.5	3782.1	3221.5	3137.1	2517.2
12.5°	5145.8	5158.4	5172.7	5197.9	5156.6	5039.8	4764.9	4287.0	3658.1	3564.7	2790.3
15°	5433.3	5436.9	5490.8	5587.8	5621.9	5560.8	5311.1	4775.7	4089.3	4008.5	3104.7
17.5°	5519.5	5526.7	5618.3	5796.2	5975.9	6010.0	5821.3	5268.0	4513.3	4427.1	3410.2
20°	5701.0	5717.1	5785.4	5941.7	6168.1	6351.4	6277.7	5765.7	4937.4	4824.2	3722.8
22.5°	6272.3	6281.3	6258.0	6277.7	6394.5	6606.5	6651.4	6247.2	5372.2	5251.8	4060.6
25°	7255.1	7258.7	7095.2	6940.7	6852.7	6892.2	6991.0	6691.0	5803.4	5684.8	4375.0
27.5°	8275.7	8288.2	8092.4	7830.1	7515.6	7336.0	7307.2	7097.0	6238.2	6107.0	4685.8
30°	9236.9	9236.9	9030.3	8710.5	8290.0	7939.7	7733.1	7506.7	6703.5	6559.8	5003.8
32.5°	10101.1	10093.9	9829.8	9483.0	9068.0	8683.5	8248.7	7934.3	7221.0	7061.1	5370.4
35°	10814.4	10796.4	10496.4	10164.0	9720.2	9434.5	8949.4	8394.2	7781.6	7621.7	5747.7
37.5°	11353.4	11333.7	11058.8	10706.6	10295.2	10110.1	9704.0	8945.8	8372.7	8227.1	6166.3
40°	11646.3	11606.8	11416.3	11154.0	10809.0	10647.3	10478.4	9630.4	9068.0	8886.5	6660.4
42.5°	11732.5	11685.8	11560.0	11437.9	11229.5	11101.9	11283.4	10403.0	9831.6	9675.3	7224.6
45°	11477.4	11450.4	11439.7	11527.7	11565.4	11601.4	12048.8	11258.2	10674.3	10555.7	7934.3
47.5°	10862.9	10855.7	10951.0	11317.5	11716.4	12095.5	12880.6	12312.9	11766.7	11639.1	8926.1
50°	9727.4	9801.1	10067.0	10710.2	11507.9	12375.8	13658.6	13775.4	13534.6	13347.8	10219.7
52.5°	7952.3	8094.2	8690.7	9668.1	10814.4	12296.7	14018.0	14946.9	15193.0	14999.0	11146.8
55°	6240.0	6372.9	6904.8	8144.5	9673.5	11694.8	14034.1	15351.1	15888.3	15708.7	11773.9
57.5°	4648.1	4770.3	5253.6	6439.4	8121.1	10510.8	13649.6	15575.7	16713.0	16598.0	12763.8
60°	3038.2	3158.6	3595.2	4631.9	6299.3	8785.9	12702.8	15529.0	17836.0	17825.2	13980.2
62.5°	1685.3	1780.5	2096.8	2905.3	4396.6	6804.2	11215.1	15060.0	18923.0	18991.3	14982.8
65°	862.4	923.5	1115.8	1597.3	2660.9	4824.2	9258.5	13985.6	19426.1	19598.5	15246.9
67.5°	564.2	583.9	630.6	830.1	1424.8	3034.6	6967.7	12262.6	18718.2	18919.4	14361.1
70°	458.2	474.3	501.3	553.4	734.9	1611.7	4576.2	9793.9	15640.4	15776.9	11436.1
72.5°	336.0	357.5	409.7	443.8	530.0	884.0	2380.6	6428.6	10740.7	10981.5	7186.9
75°	247.9	260.5	303.6	350.4	433.0	558.8	910.9	3379.6	5546.5	5406.3	3018.5
77.5°	149.1	158.1	194.0	224.6	309.0	348.6	318.0	1248.7	1687.1	1586.5	729.5
80°	73.7	82.6	127.6	168.9	197.6	140.1	133.0	348.6	375.5	375.5	183.3
82.5°	25.2	32.3	68.3	111.4	97.0	53.9	62.9	89.8	100.6	106.0	53.9
85°	0.0	0.0	16.2	32.3	14.4	7.2	16.2	19.8	25.2	27.0	18.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	7.2	7.2
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°	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5	1789.5
2.5°	1836.2	1751.8	1624.2	1509.2	1421.2	1338.6	1275.7	1225.4	1216.4	1187.6	1191.2
5°	1918.9	1766.2	1530.8	1349.3	1221.8	1135.5	1063.7	1009.8	986.4	963.0	945.1
7.5°	2046.5	1825.5	1494.9	1273.9	1124.7	991.8	880.4	790.6	747.4	720.5	702.5
10°	2202.8	1908.1	1496.7	1229.0	1008.0	804.9	652.2	553.4	506.7	492.3	490.5
12.5°	2389.6	2012.3	1511.0	1155.3	839.1	598.3	483.3	438.4	424.0	411.4	411.4
15°	2587.3	2129.1	1511.0	1020.5	639.6	467.1	418.6	389.9	371.9	364.7	361.1
17.5°	2795.7	2238.7	1475.1	835.5	490.5	411.4	371.9	345.0	330.6	319.8	316.2
20°	3018.5	2342.9	1385.3	639.6	420.4	368.3	330.6	303.6	289.3	278.5	278.5
22.5°	3244.9	2439.9	1239.7	492.3	371.9	327.0	291.1	265.9	251.5	240.8	240.8
25°	3455.1	2504.6	1052.9	406.1	336.0	291.1	258.7	233.6	217.4	210.2	206.6
27.5°	3650.9	2545.9	846.3	357.5	301.8	260.5	226.4	203.0	190.5	185.1	181.5
30°	3853.9	2556.7	646.8	325.2	273.1	230.0	197.6	179.7	168.9	161.7	161.7
32.5°	4051.6	2544.1	494.1	298.3	247.9	203.0	176.1	159.9	150.9	145.5	143.7
35°	4252.8	2486.7	400.7	274.9	222.8	177.9	156.3	143.7	138.3	131.2	131.2
37.5°	4472.0	2409.4	348.6	251.5	197.6	159.9	140.1	131.2	124.0	118.6	116.8
40°	4745.1	2319.6	319.8	231.8	174.3	143.7	125.8	116.8	111.4	106.0	104.2
42.5°	5068.5	2231.5	305.4	210.2	156.3	127.6	113.2	102.4	97.0	89.8	88.0
45°	5526.7	2211.8	289.3	186.9	140.1	115.0	98.8	88.0	80.9	75.5	73.7
47.5°	6263.3	2267.5	262.3	161.7	124.0	100.6	84.4	75.5	66.5	61.1	57.5
50°	6994.6	2253.1	235.4	140.1	109.6	86.2	71.9	62.9	53.9	48.5	46.7
52.5°	7393.5	2184.8	210.2	124.0	95.2	73.7	61.1	50.3	44.9	39.5	37.7
55°	7754.6	2157.9	185.1	107.8	80.9	64.7	50.3	41.3	37.7	32.3	30.5
57.5°	8462.5	2220.7	163.5	93.4	70.1	55.7	43.1	34.1	30.5	25.2	23.4
60°	9202.8	2227.9	140.1	80.9	61.1	46.7	34.1	27.0	23.4	18.0	16.2
62.5°	9589.1	2046.5	115.0	68.3	50.3	39.5	28.7	21.6	18.0	10.8	10.8
65°	9265.6	1654.8	97.0	55.7	39.5	30.5	21.6	16.2	10.8	5.4	1.8
67.5°	8200.2	1176.8	80.9	44.9	28.7	21.6	16.2	10.8	1.8	0.0	0.0
70°	6004.6	672.0	62.9	32.3	21.6	14.4	10.8	5.4	0.0	0.0	0.0
72.5°	3690.4	359.3	46.7	21.6	16.2	10.8	9.0	3.6	0.0	0.0	0.0
75°	1399.6	172.5	28.7	14.4	12.6	9.0	5.4	1.8	0.0	0.0	0.0
77.5°	379.1	84.4	16.2	10.8	9.0	5.4	3.6	0.0	0.0	0.0	0.0
80°	98.8	39.5	10.8	7.2	5.4	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	34.1	18.0	5.4	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	14.4	7.2	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	1.8	1.8	1.8	1.8	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)