

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: P633929

Luminaire Tested: GWS-SA2F-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633929
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-SA2F-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13199.6 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

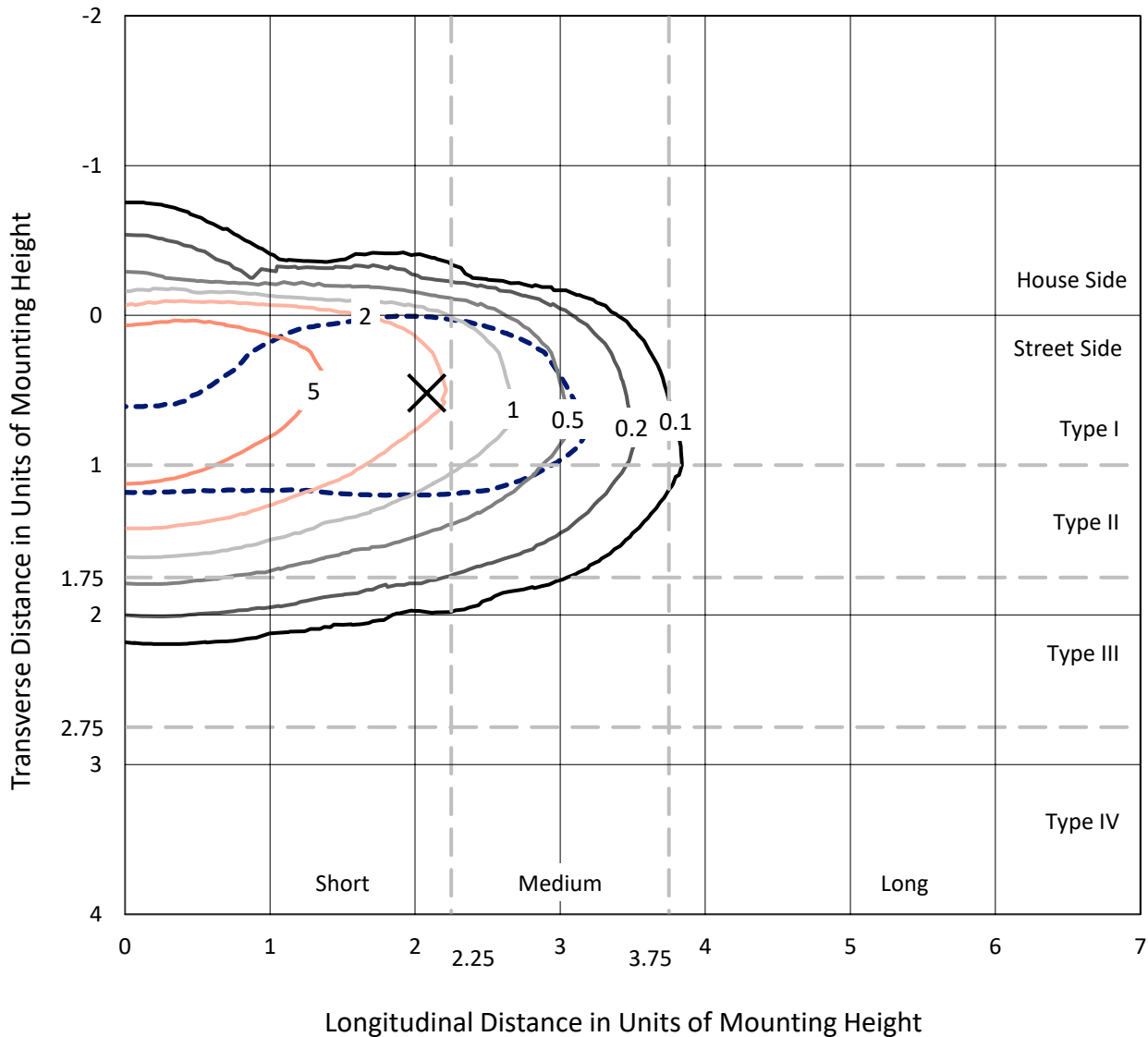
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

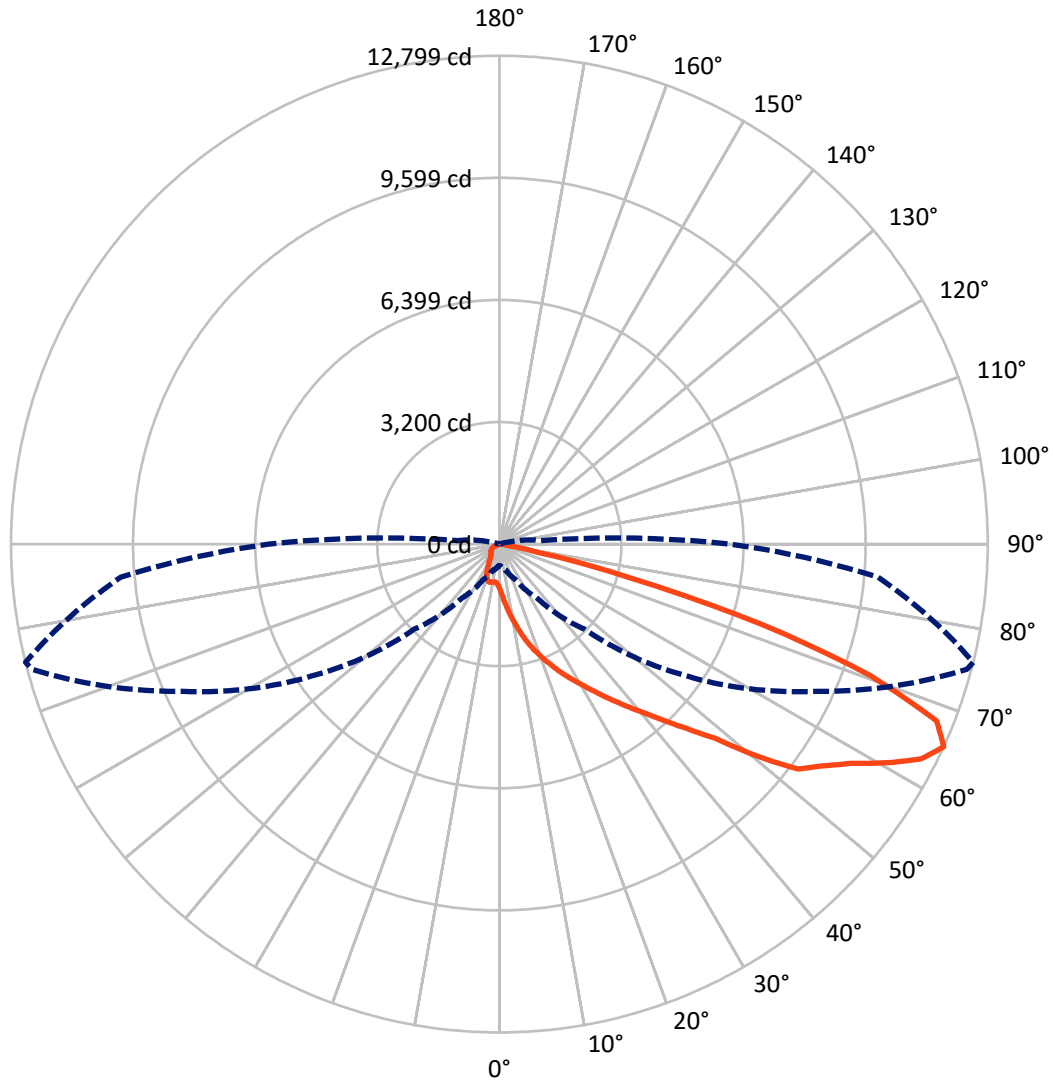
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 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	729.9	0.0	729.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	12469.7	0.0	12469.7
	% Fixture	94.5	0.0	94.5
Total	Lumens	13199.6	0.0	13199.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	1.1
10°-20°	539.5	4.1
20°-30°	1100.6	8.3
30°-40°	1957.4	14.8
40°-50°	2893.6	21.9
50°-60°	3312.9	25.1
60°-70°	2527.6	19.1
70°-80°	708.0	5.4
80°-90°	17.8	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°	13199.6	100.0
0°-180°	13199.6	100.0

Coefficient of Utilization



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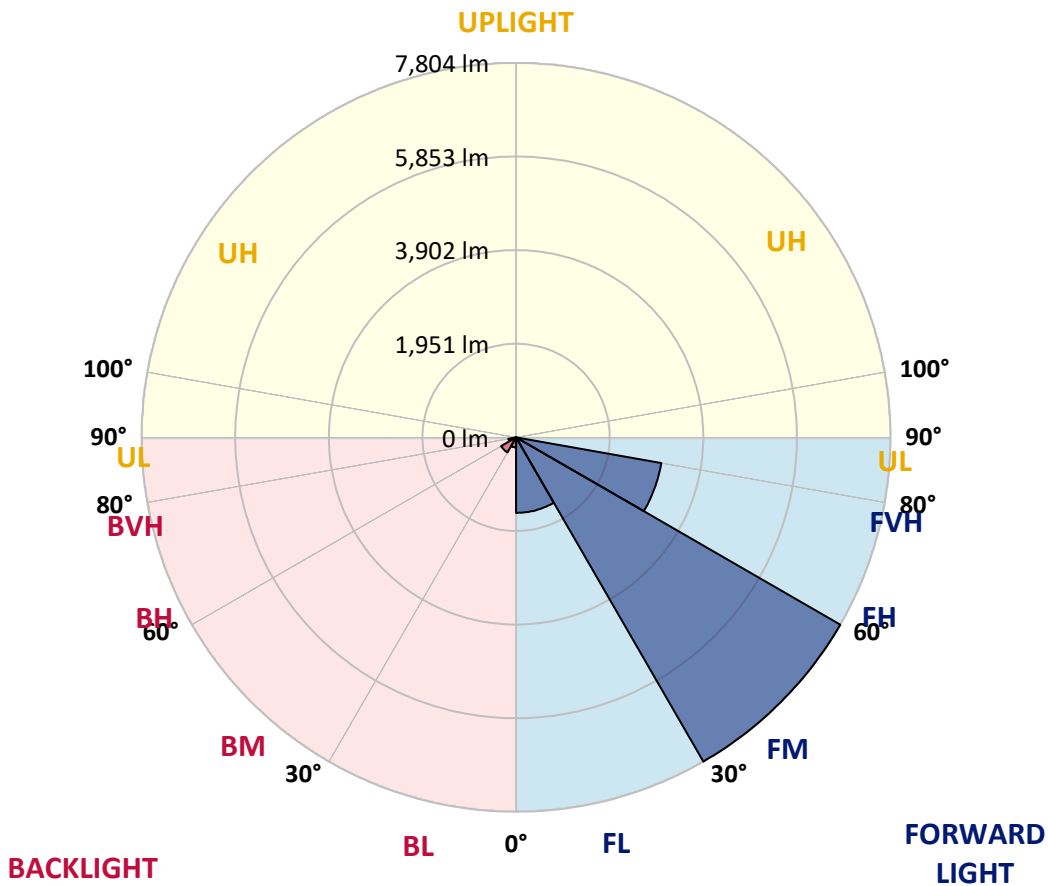
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1574.0	11.9			
FM (30°-60°)	7803.8	59.1			
FH (60°-80°)	3075.2	23.3			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	208.3	1.6	B1/500		
BM (30°-60°)	360.1	2.7	B1/1000		
BH (60°-80°)	160.4	1.2	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6
2.5°	1801.1	1828.1	1806.9	1771.7	1703.7	1638.0	1553.5	1437.3	1344.6	1332.9	1246.1
5°	2432.3	2430.0	2384.2	2338.5	2266.9	2154.3	1984.1	1768.2	1560.5	1542.9	1348.2
7.5°	2807.8	2811.3	2785.5	2750.3	2679.9	2563.7	2386.6	2126.1	1822.2	1787.0	1487.8
10°	3123.4	3122.3	3103.5	3087.1	3023.7	2946.3	2756.2	2469.9	2103.8	2048.7	1643.8
12.5°	3360.4	3368.7	3378.0	3394.5	3367.5	3291.2	3111.7	2799.6	2388.9	2327.9	1822.2
15°	3548.2	3550.5	3585.7	3649.1	3671.4	3631.5	3468.4	3118.7	2670.5	2617.7	2027.5
17.5°	3604.5	3609.2	3669.0	3785.2	3902.5	3924.8	3801.6	3440.2	2947.4	2891.1	2227.0
20°	3723.0	3733.6	3778.2	3880.2	4028.1	4147.8	4099.6	3765.2	3224.3	3150.4	2431.2
22.5°	4096.1	4102.0	4086.7	4099.6	4175.9	4314.4	4343.7	4079.7	3508.3	3429.7	2651.7
25°	4737.9	4740.3	4633.5	4532.6	4475.1	4500.9	4565.5	4369.5	3789.9	3712.4	2857.1
27.5°	5404.4	5412.6	5284.7	5113.4	4908.1	4790.7	4772.0	4634.7	4073.8	3988.2	3060.1
30°	6032.1	6032.1	5897.2	5688.3	5413.8	5185.0	5050.1	4902.2	4377.7	4283.9	3267.8
32.5°	6596.5	6591.8	6419.3	6192.9	5921.8	5670.7	5386.8	5181.5	4715.7	4611.2	3507.1
35°	7062.3	7050.6	6854.6	6637.6	6347.8	6161.2	5844.4	5481.8	5081.7	4977.3	3753.5
37.5°	7414.3	7401.4	7221.9	6991.9	6723.2	6602.4	6337.2	5842.1	5467.8	5372.7	4026.9
40°	7605.6	7579.8	7455.4	7284.1	7058.8	6953.2	6842.9	6289.1	5921.8	5803.3	4349.6
42.5°	7661.9	7631.4	7549.3	7469.5	7333.4	7250.1	7368.6	6793.6	6420.5	6318.4	4718.0
45°	7495.3	7477.7	7470.7	7528.1	7552.8	7576.3	7868.4	7352.1	6970.8	6893.4	5181.5
47.5°	7094.0	7089.3	7151.5	7390.9	7651.3	7898.9	8411.7	8040.9	7684.2	7600.9	5829.2
50°	6352.5	6400.6	6574.2	6994.3	7515.2	8082.0	8919.7	8996.0	8838.8	8716.7	6674.0
52.5°	5193.2	5285.9	5675.4	6313.7	7062.3	8030.3	9154.4	9761.0	9921.8	9795.0	7279.4
55°	4075.0	4161.8	4509.1	5318.7	6317.3	7637.3	9165.0	10025.0	10375.8	10258.5	7688.9
57.5°	3035.4	3115.2	3430.8	4205.2	5303.5	6864.0	8913.9	10171.7	10914.4	10839.3	8335.4
60°	1984.1	2062.7	2347.9	3024.9	4113.7	5737.6	8295.5	10141.2	11647.7	11640.7	9129.8
62.5°	1100.6	1162.8	1369.3	1897.3	2871.2	4443.4	7324.0	9834.9	12357.6	12402.2	9784.5
65°	563.2	603.1	728.6	1043.1	1737.7	3150.4	6046.2	9133.3	12686.1	12798.8	9957.0
67.5°	368.4	381.3	411.8	542.1	930.5	1981.8	4550.2	8008.0	12223.8	12355.3	9378.5
70°	299.2	309.8	327.4	361.4	479.9	1052.5	2988.5	6395.9	10213.9	10303.1	7468.3
72.5°	219.4	233.5	267.5	289.8	346.1	577.3	1554.7	4198.2	7014.2	7171.5	4693.4
75°	161.9	170.1	198.3	228.8	282.8	364.9	594.9	2207.1	3622.1	3530.6	1971.2
77.5°	97.4	103.3	126.7	146.7	201.8	227.6	207.7	815.5	1101.8	1036.1	476.4
80°	48.1	54.0	83.3	110.3	129.1	91.5	86.8	227.6	245.2	245.2	119.7
82.5°	16.4	21.1	44.6	72.7	63.4	35.2	41.1	58.7	65.7	69.2	35.2
85°	0.0	0.0	10.6	21.1	9.4	4.7	10.6	12.9	16.4	17.6	11.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.7	4.7
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°	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6	1168.6
2.5°	1199.2	1144.0	1060.7	985.6	928.1	874.1	833.1	800.2	794.4	775.6	777.9
5°	1253.1	1153.4	999.7	881.2	797.9	741.6	694.6	659.4	644.2	628.9	617.2
7.5°	1336.4	1192.1	976.2	831.9	734.5	647.7	574.9	516.3	488.1	470.5	458.8
10°	1438.5	1246.1	977.4	802.6	658.2	525.7	425.9	361.4	330.9	321.5	320.3
12.5°	1560.5	1314.1	986.8	754.5	547.9	390.7	315.6	286.3	276.9	268.7	268.7
15°	1689.6	1390.4	986.8	666.5	417.7	305.1	273.4	254.6	242.9	238.2	235.8
17.5°	1825.7	1462.0	963.3	545.6	320.3	268.7	242.9	225.3	215.9	208.9	206.5
20°	1971.2	1530.0	904.6	417.7	274.6	240.5	215.9	198.3	188.9	181.9	181.9
22.5°	2119.1	1593.4	809.6	321.5	242.9	213.5	190.1	173.7	164.3	157.2	157.2
25°	2256.3	1635.6	687.6	265.2	219.4	190.1	169.0	152.5	142.0	137.3	134.9
27.5°	2384.2	1662.6	552.6	233.5	197.1	170.1	147.8	132.6	124.4	120.9	118.5
30°	2516.8	1669.7	422.4	212.4	178.3	150.2	129.1	117.3	110.3	105.6	105.6
32.5°	2645.9	1661.4	322.7	194.8	161.9	132.6	115.0	104.4	98.6	95.0	93.9
35°	2777.3	1623.9	261.7	179.5	145.5	116.2	102.1	93.9	90.3	85.7	85.7
37.5°	2920.4	1573.4	227.6	164.3	129.1	104.4	91.5	85.7	81.0	77.4	76.3
40°	3098.8	1514.8	208.9	151.4	113.8	93.9	82.1	76.3	72.7	69.2	68.1
42.5°	3310.0	1457.3	199.5	137.3	102.1	83.3	73.9	66.9	63.4	58.7	57.5
45°	3609.2	1444.4	188.9	122.0	91.5	75.1	64.5	57.5	52.8	49.3	48.1
47.5°	4090.3	1480.8	171.3	105.6	81.0	65.7	55.1	49.3	43.4	39.9	37.5
50°	4567.8	1471.4	153.7	91.5	71.6	56.3	46.9	41.1	35.2	31.7	30.5
52.5°	4828.3	1426.8	137.3	81.0	62.2	48.1	39.9	32.9	29.3	25.8	24.6
55°	5064.1	1409.2	120.9	70.4	52.8	42.2	32.9	27.0	24.6	21.1	19.9
57.5°	5526.4	1450.2	106.8	61.0	45.8	36.4	28.2	22.3	19.9	16.4	15.3
60°	6009.8	1454.9	91.5	52.8	39.9	30.5	22.3	17.6	15.3	11.7	10.6
62.5°	6262.1	1336.4	75.1	44.6	32.9	25.8	18.8	14.1	11.7	7.0	7.0
65°	6050.9	1080.6	63.4	36.4	25.8	19.9	14.1	10.6	7.0	3.5	1.2
67.5°	5355.1	768.5	52.8	29.3	18.8	14.1	10.6	7.0	1.2	0.0	0.0
70°	3921.3	438.8	41.1	21.1	14.1	9.4	7.0	3.5	0.0	0.0	0.0
72.5°	2410.0	234.7	30.5	14.1	10.6	7.0	5.9	2.3	0.0	0.0	0.0
75°	914.0	112.6	18.8	9.4	8.2	5.9	3.5	1.2	0.0	0.0	0.0
77.5°	247.6	55.1	10.6	7.0	5.9	3.5	2.3	0.0	0.0	0.0	0.0
80°	64.5	25.8	7.0	4.7	3.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	22.3	11.7	3.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
85°	9.4	4.7	2.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.2	1.2	1.2	1.2	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)