

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: P635579

Luminaire Tested: GWS-SA3E-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635579
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-SA3E-722-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13064.1 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

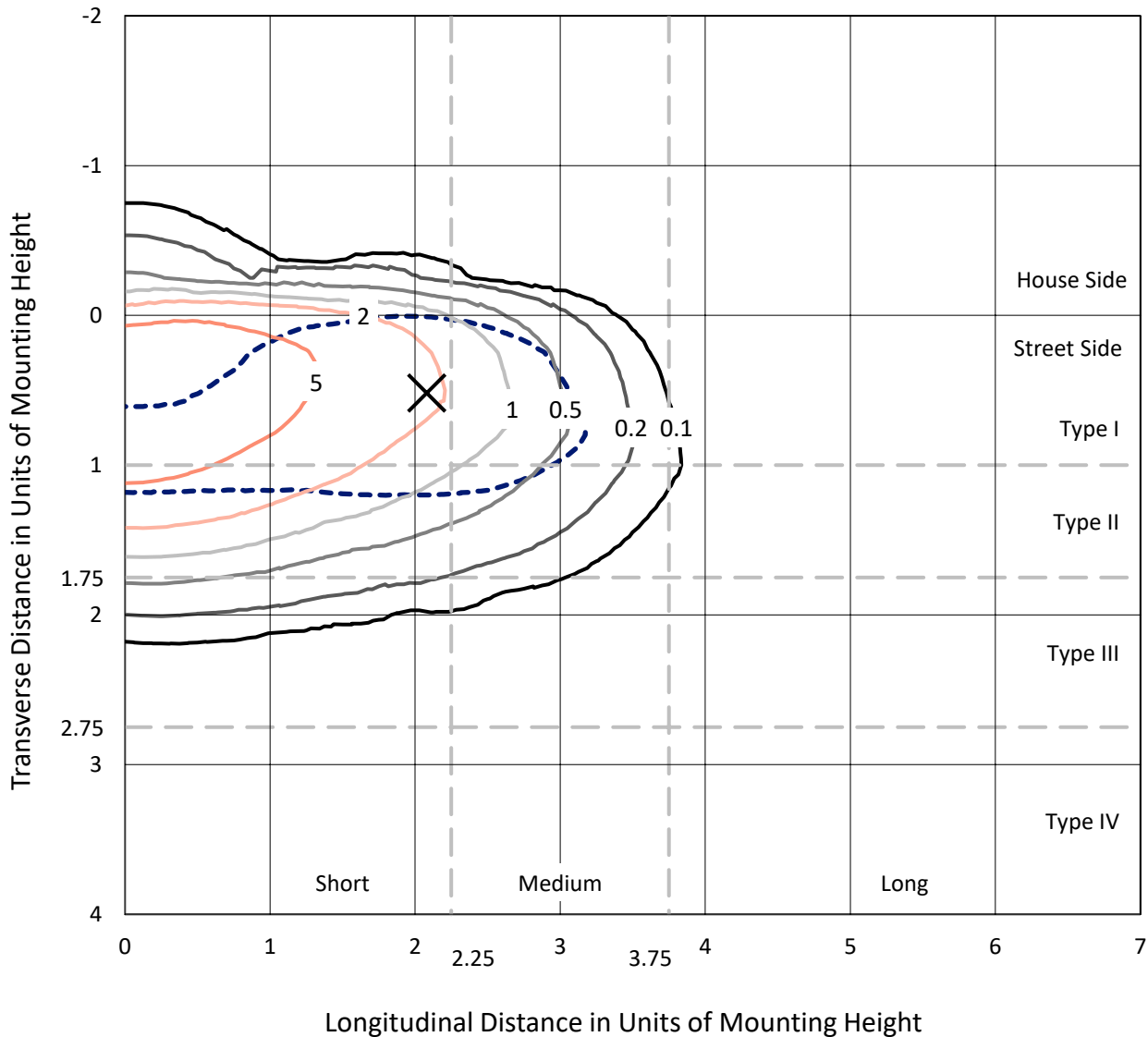
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

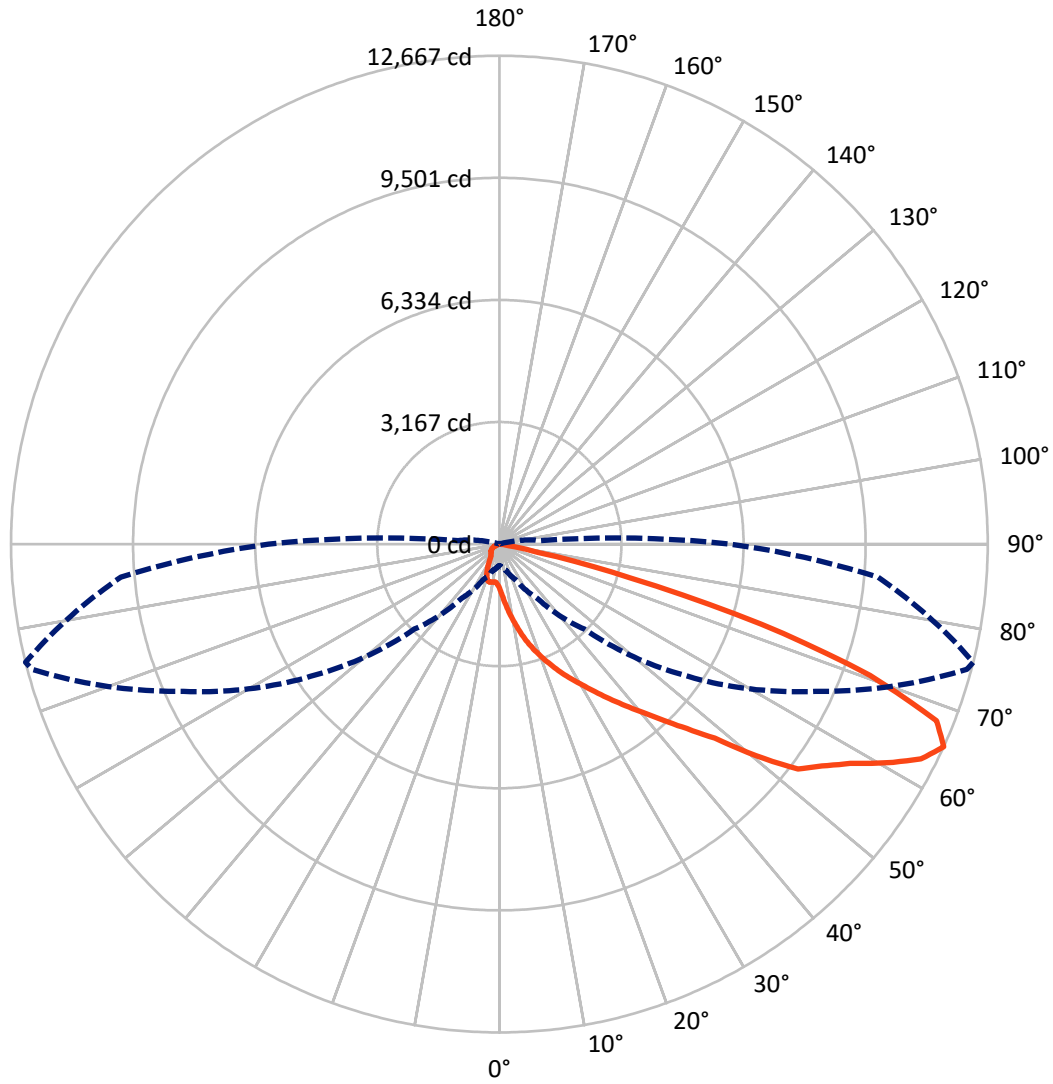
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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	722.4	0.0	722.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	12341.7	0.0	12341.7
	% Fixture	94.5	0.0	94.5
Total	Lumens	13064.1	0.0	13064.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	1.1
10°-20°	533.9	4.1
20°-30°	1089.3	8.3
30°-40°	1937.4	14.8
40°-50°	2863.9	21.9
50°-60°	3278.9	25.1
60°-70°	2501.7	19.1
70°-80°	700.8	5.4
80°-90°	17.6	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°	13064.1	100.0
0°-180°	13064.1	100.0

Coefficient of Utilization



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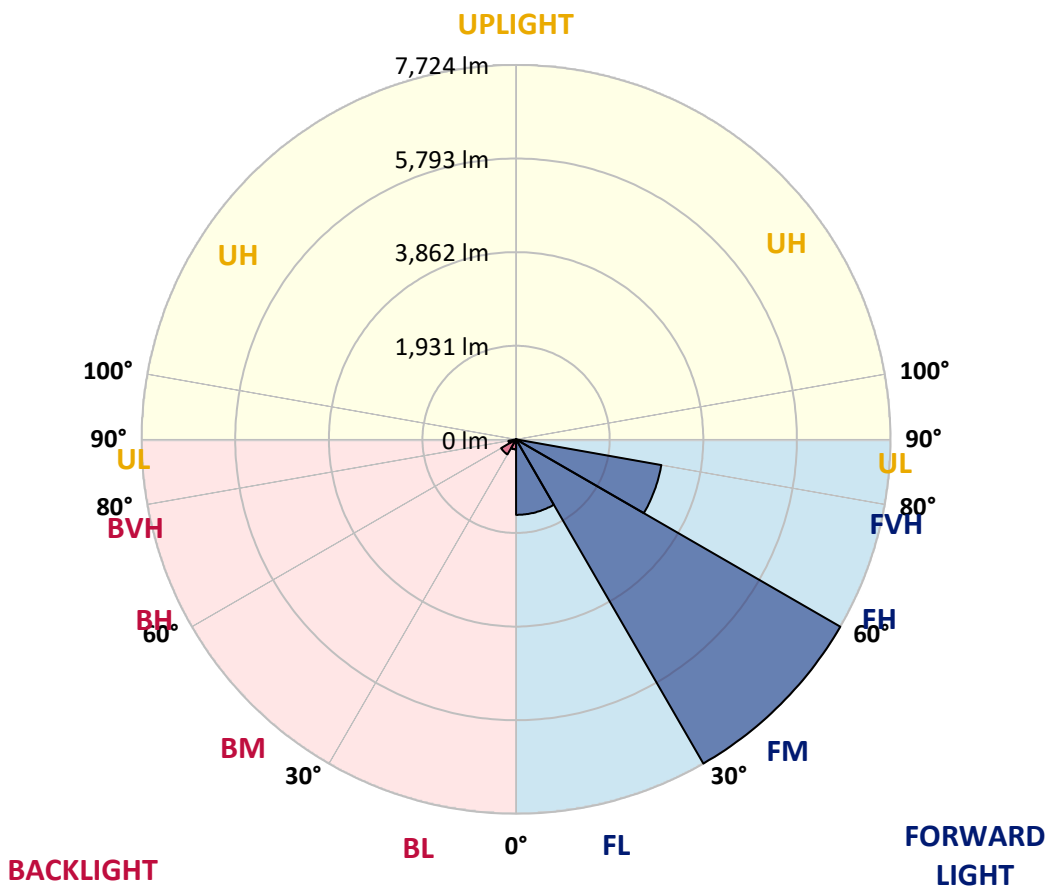
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1557.8	11.9			
FM (30°-60°)	7723.7	59.1			
FH (60°-80°)	3043.6	23.3			G2/5000
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	206.1	1.6	B1/500		
BM (30°-60°)	356.4	2.7	B1/1000		
BH (60°-80°)	158.8	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°	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6
2.5°	1782.6	1809.3	1788.4	1753.6	1686.2	1621.2	1537.6	1422.6	1330.8	1319.2	1233.3
5°	2407.4	2405.0	2359.8	2314.5	2243.6	2132.1	1963.7	1750.1	1544.5	1527.1	1334.3
7.5°	2779.0	2782.5	2756.9	2722.1	2652.4	2537.4	2362.1	2104.3	1803.5	1768.7	1472.5
10°	3091.4	3090.2	3071.6	3055.4	2992.7	2916.0	2727.9	2444.5	2082.2	2027.6	1627.0
12.5°	3325.9	3334.1	3343.4	3359.6	3332.9	3257.4	3079.8	2770.8	2364.4	2304.0	1803.5
15°	3511.8	3514.1	3548.9	3611.6	3633.7	3594.2	3432.8	3086.7	2643.1	2590.8	2006.7
17.5°	3567.5	3572.1	3631.4	3746.3	3862.5	3884.5	3762.6	3404.9	2917.2	2861.4	2204.1
20°	3684.8	3695.2	3739.4	3840.4	3986.7	4105.2	4057.6	3726.6	3191.2	3118.1	2406.2
22.5°	4054.1	4059.9	4044.8	4057.6	4133.0	4270.1	4299.1	4037.8	3472.3	3394.5	2624.5
25°	4689.3	4691.6	4586.0	4486.1	4429.2	4454.7	4518.6	4324.7	3751.0	3674.3	2827.8
27.5°	5348.9	5357.1	5230.5	5060.9	4857.7	4741.6	4723.0	4587.1	4032.0	3947.2	3028.7
30°	5970.2	5970.2	5836.7	5630.0	5358.2	5131.8	4998.2	4851.9	4332.8	4239.9	3234.2
32.5°	6528.8	6524.2	6353.4	6129.3	5861.1	5612.5	5331.5	5128.3	4667.2	4563.9	3471.1
35°	6989.8	6978.2	6784.3	6569.4	6282.6	6098.0	5784.4	5425.6	5029.6	4926.2	3715.0
37.5°	7338.2	7325.4	7147.8	6920.2	6654.2	6534.6	6272.2	5782.1	5411.6	5317.6	3985.6
40°	7527.5	7502.0	7378.9	7209.3	6986.3	6881.8	6772.7	6224.5	5861.1	5743.8	4304.9
42.5°	7583.3	7553.1	7471.8	7392.8	7258.1	7175.6	7292.9	6723.9	6354.6	6253.6	4669.6
45°	7418.3	7400.9	7394.0	7450.9	7475.3	7498.5	7787.6	7276.7	6899.3	6822.6	5128.3
47.5°	7021.2	7016.5	7078.1	7315.0	7572.8	7817.8	8325.3	7958.4	7605.3	7522.9	5769.3
50°	6287.2	6334.9	6506.7	6922.5	7438.1	7999.0	8828.2	8903.6	8748.0	8627.3	6605.4
52.5°	5139.9	5231.6	5617.2	6248.9	6989.8	7947.9	9060.4	9660.8	9819.9	9694.5	7204.7
55°	4033.2	4119.1	4462.9	5264.1	6252.4	7558.9	9070.9	9922.1	10269.3	10153.2	7610.0
57.5°	3004.3	3083.2	3395.6	4162.1	5249.1	6793.6	8822.4	10067.3	10802.4	10728.0	8249.8
60°	1963.7	2041.6	2323.8	2993.8	4071.5	5678.7	8210.4	10037.1	11528.2	11521.2	9036.0
62.5°	1089.3	1150.8	1355.2	1877.8	2841.7	4397.8	7248.8	9734.0	12230.8	12274.9	9684.0
65°	557.4	596.9	721.2	1032.4	1719.9	3118.1	5984.2	9039.5	12555.9	12667.4	9854.7
67.5°	364.6	377.4	407.6	536.5	920.9	1961.4	4503.5	7925.8	12098.4	12228.4	9282.2
70°	296.1	306.6	324.0	357.7	475.0	1041.7	2957.8	6330.2	10109.1	10197.3	7391.6
72.5°	217.2	231.1	264.8	286.8	342.6	571.4	1538.7	4155.1	6942.2	7097.8	4645.2
75°	160.3	168.4	196.3	226.5	279.9	361.2	588.8	2184.4	3584.9	3494.3	1951.0
77.5°	96.4	102.2	125.4	145.2	199.7	225.3	205.5	807.1	1090.5	1025.4	471.5
80°	47.6	53.4	82.5	109.2	127.7	90.6	85.9	225.3	242.7	242.7	118.5
82.5°	16.3	20.9	44.1	72.0	62.7	34.8	40.6	58.1	65.0	68.5	34.8
85°	0.0	0.0	10.5	20.9	9.3	4.6	10.5	12.8	16.3	17.4	11.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.6	4.6
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°	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6	1156.6
2.5°	1186.8	1132.3	1049.8	975.5	918.6	865.2	824.5	792.0	786.2	767.6	769.9
5°	1240.3	1141.6	989.4	872.1	789.7	733.9	687.5	652.6	637.6	622.5	610.8
7.5°	1322.7	1179.9	966.2	823.4	727.0	641.0	569.0	511.0	483.1	465.7	454.1
10°	1423.7	1233.3	967.4	794.3	651.5	520.3	421.5	357.7	327.5	318.2	317.0
12.5°	1544.5	1300.6	976.6	746.7	542.3	386.7	312.4	283.4	274.1	265.9	265.9
15°	1672.3	1376.1	976.6	659.6	413.4	301.9	270.6	252.0	240.4	235.7	233.4
17.5°	1807.0	1447.0	953.4	540.0	317.0	265.9	240.4	223.0	213.7	206.7	204.4
20°	1951.0	1514.3	895.4	413.4	271.7	238.1	213.7	196.3	187.0	180.0	180.0
22.5°	2097.3	1577.0	801.3	318.2	240.4	211.4	188.1	171.9	162.6	155.6	155.6
25°	2233.2	1618.8	680.5	262.5	217.2	188.1	167.2	151.0	140.5	135.9	133.5
27.5°	2359.8	1645.6	547.0	231.1	195.1	168.4	146.3	131.2	123.1	119.6	117.3
30°	2491.0	1652.5	418.1	210.2	176.5	148.6	127.7	116.1	109.2	104.5	104.5
32.5°	2618.7	1644.4	319.4	192.8	160.3	131.2	113.8	103.4	97.5	94.1	92.9
35°	2748.8	1607.2	259.0	177.7	144.0	115.0	101.0	92.9	89.4	84.8	84.8
37.5°	2890.5	1557.3	225.3	162.6	127.7	103.4	90.6	84.8	80.1	76.6	75.5
40°	3067.0	1499.2	206.7	149.8	112.6	92.9	81.3	75.5	72.0	68.5	67.4
42.5°	3276.0	1442.3	197.4	135.9	101.0	82.5	73.2	66.2	62.7	58.1	56.9
45°	3572.1	1429.6	187.0	120.8	90.6	74.3	63.9	56.9	52.3	48.8	47.6
47.5°	4048.3	1465.6	169.5	104.5	80.1	65.0	54.6	48.8	43.0	39.5	37.2
50°	4520.9	1456.3	152.1	90.6	70.8	55.7	46.5	40.6	34.8	31.4	30.2
52.5°	4778.7	1412.1	135.9	80.1	61.5	47.6	39.5	32.5	29.0	25.5	24.4
55°	5012.1	1394.7	119.6	69.7	52.3	41.8	32.5	26.7	24.4	20.9	19.7
57.5°	5469.7	1435.4	105.7	60.4	45.3	36.0	27.9	22.1	19.7	16.3	15.1
60°	5948.2	1440.0	90.6	52.3	39.5	30.2	22.1	17.4	15.1	11.6	10.5
62.5°	6197.8	1322.7	74.3	44.1	32.5	25.5	18.6	13.9	11.6	7.0	7.0
65°	5988.8	1069.6	62.7	36.0	25.5	19.7	13.9	10.5	7.0	3.5	1.2
67.5°	5300.1	760.6	52.3	29.0	18.6	13.9	10.5	7.0	1.2	0.0	0.0
70°	3881.0	434.3	40.6	20.9	13.9	9.3	7.0	3.5	0.0	0.0	0.0
72.5°	2385.3	232.3	30.2	13.9	10.5	7.0	5.8	2.3	0.0	0.0	0.0
75°	904.6	111.5	18.6	9.3	8.1	5.8	3.5	1.2	0.0	0.0	0.0
77.5°	245.0	54.6	10.5	7.0	5.8	3.5	2.3	0.0	0.0	0.0	0.0
80°	63.9	25.5	7.0	4.6	3.5	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	22.1	11.6	3.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
85°	9.3	4.6	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)