

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: P633819

Luminaire Tested: GWS-SA2F-740-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633819
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13083.2 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

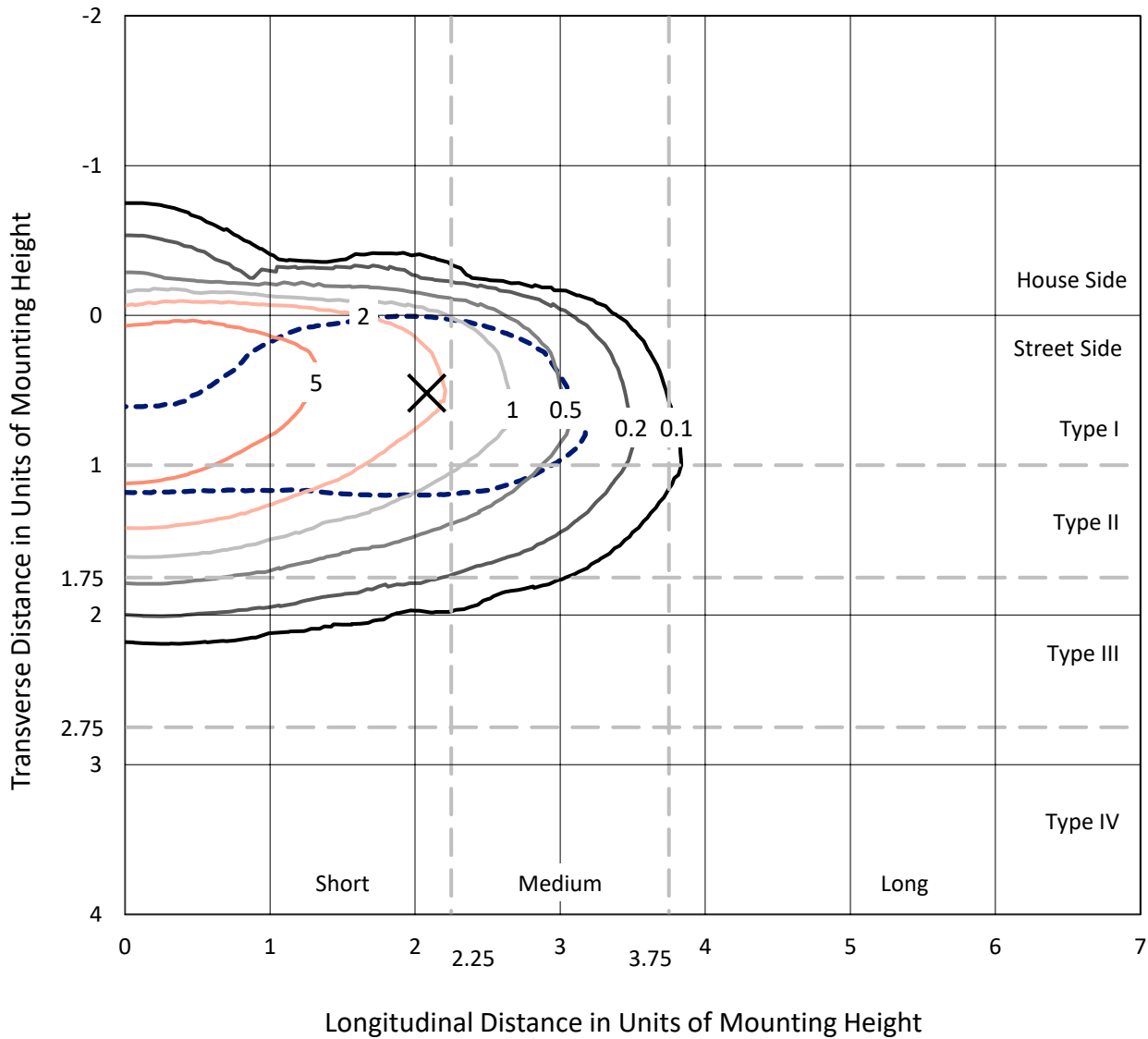
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633819
 CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

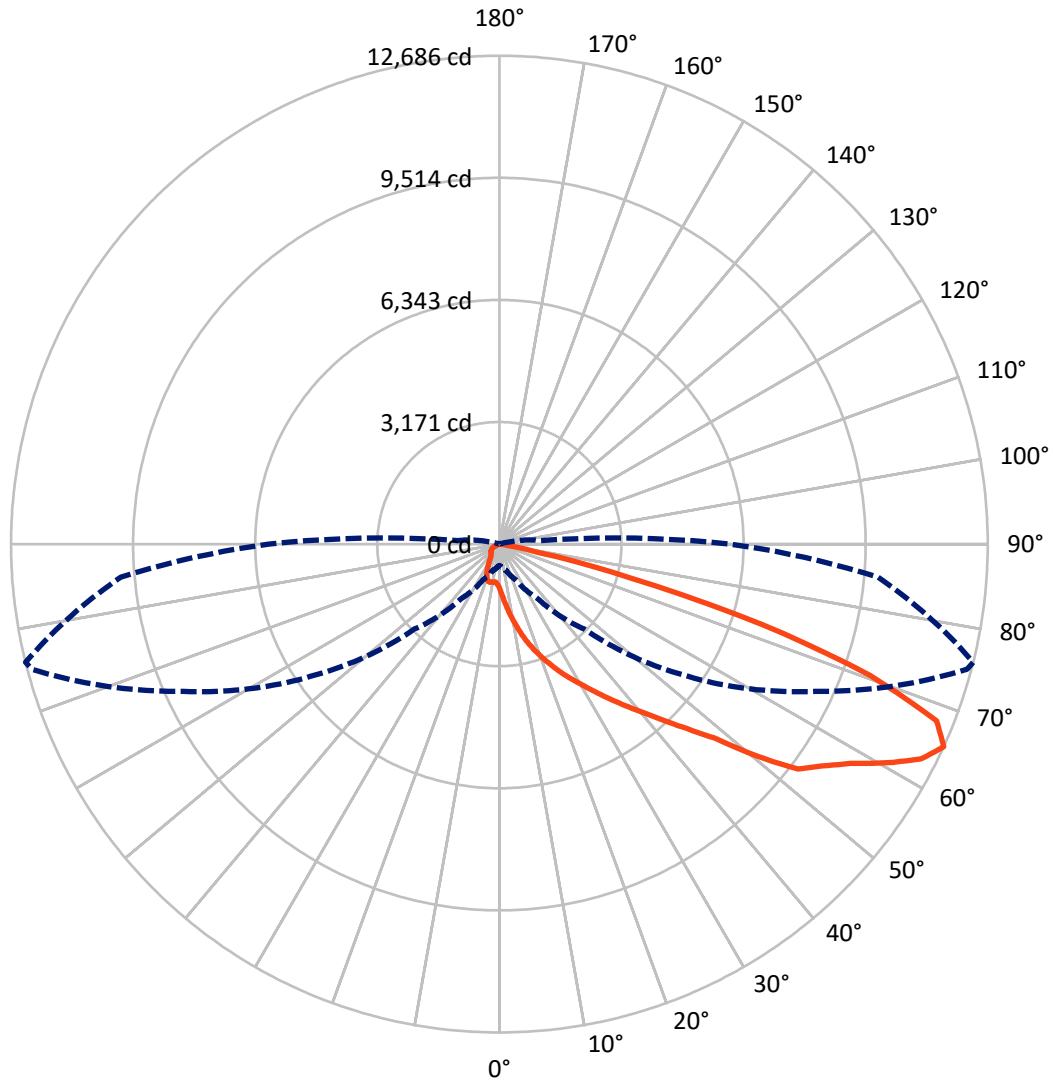
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P633819
CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-HSS

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	723.4	0.0	723.4
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	12359.8	0.0	12359.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	13083.2	0.0	13083.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	1.1
10°-20°	534.7	4.1
20°-30°	1090.9	8.3
30°-40°	1940.2	14.8
40°-50°	2868.0	21.9
50°-60°	3283.7	25.1
60°-70°	2505.3	19.1
70°-80°	701.8	5.4
80°-90°	17.7	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°	13083.2	100.0
0°-180°	13083.2	100.0

Coefficient of Utilization



REPORT NUMBER: P633819

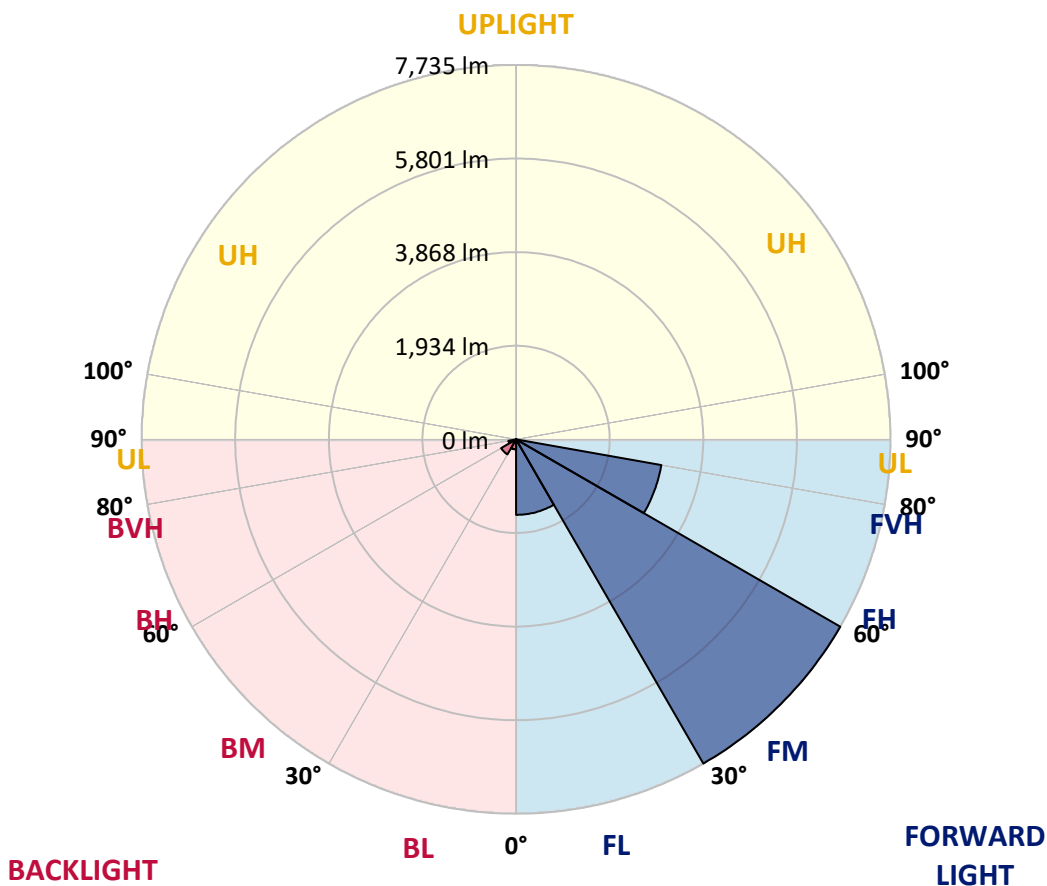
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.1	11.9			
FM (30°-60°)	7735.0	59.1			
FH (60°-80°)	3048.1	23.3			G2/5000
FVH (80°-90°)	16.6	0.1			G1/100
BL (0°-30°)	206.4	1.6	B1/500		
BM (30°-60°)	356.9	2.7	B1/1000		
BH (60°-80°)	159.0	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





REPORT NUMBER: P633819

CATALOG NUMBER: GWS-SA2F-740-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3
2.5°	1785.2	1811.9	1791.0	1756.1	1688.7	1623.5	1539.8	1424.7	1332.8	1321.2	1235.1
5°	2410.9	2408.6	2363.2	2317.8	2246.9	2135.3	1966.6	1752.6	1546.8	1529.3	1336.3
7.5°	2783.0	2786.5	2760.9	2726.1	2656.3	2541.1	2365.5	2107.3	1806.1	1771.2	1474.7
10°	3095.9	3094.7	3076.1	3059.8	2997.0	2920.3	2731.9	2448.1	2085.2	2030.6	1629.4
12.5°	3330.8	3339.0	3348.3	3364.5	3337.8	3262.2	3084.3	2774.9	2367.9	2307.4	1806.1
15°	3516.9	3519.2	3554.1	3616.9	3639.0	3599.5	3437.8	3091.2	2647.0	2594.6	2009.7
17.5°	3572.7	3577.4	3636.7	3751.8	3868.1	3890.2	3768.1	3409.9	2921.4	2865.6	2207.4
20°	3690.2	3700.6	3744.8	3846.0	3992.6	4111.2	4063.5	3732.0	3195.9	3122.6	2409.7
22.5°	4060.0	4065.8	4050.7	4063.5	4139.1	4276.3	4305.4	4043.7	3477.3	3399.4	2628.4
25°	4696.2	4698.5	4592.7	4492.6	4435.7	4461.2	4525.2	4331.0	3756.5	3679.7	2831.9
27.5°	5356.7	5364.9	5238.1	5068.3	4864.8	4748.5	4729.9	4593.8	4037.9	3953.0	3033.1
30°	5978.9	5978.9	5845.2	5638.2	5366.0	5139.3	5005.5	4859.0	4339.1	4246.1	3238.9
32.5°	6538.3	6533.7	6362.7	6138.3	5869.6	5620.7	5339.3	5135.8	4674.1	4570.6	3476.2
35°	7000.1	6988.4	6794.2	6579.0	6291.8	6106.9	5792.9	5433.5	5036.9	4933.4	3720.4
37.5°	7348.9	7336.2	7158.2	6930.3	6663.9	6544.2	6281.3	5790.5	5419.5	5325.3	3991.4
40°	7538.5	7512.9	7389.7	7219.9	6996.6	6891.9	6782.6	6233.6	5869.6	5752.2	4311.2
42.5°	7594.3	7564.1	7482.7	7403.6	7268.7	7186.1	7303.6	6733.7	6363.9	6262.7	4676.4
45°	7429.2	7411.8	7404.8	7461.8	7486.2	7509.4	7799.0	7287.3	6909.3	6832.6	5135.8
47.5°	7031.5	7026.8	7088.4	7325.7	7583.9	7829.3	8337.5	7970.0	7616.4	7533.9	5777.7
50°	6296.4	6344.1	6516.2	6932.6	7449.0	8010.7	8841.1	8916.7	8760.8	8639.9	6615.1
52.5°	5147.4	5239.3	5625.4	6258.1	7000.1	7959.5	9073.7	9674.9	9834.3	9708.7	7215.2
55°	4039.1	4125.1	4469.4	5271.8	6261.6	7569.9	9084.1	9936.6	10284.3	10168.0	7621.1
57.5°	3008.7	3087.7	3400.6	4168.2	5256.7	6803.5	8835.3	10082.0	10818.2	10743.7	8261.9
60°	1966.6	2044.5	2327.1	2998.2	4077.5	5687.0	8222.4	10051.7	11545.0	11538.0	9049.2
62.5°	1090.9	1152.5	1357.2	1880.6	2845.8	4404.3	7259.4	9748.2	12248.6	12292.8	9698.2
65°	558.2	597.8	722.2	1033.9	1722.4	3122.6	5992.9	9052.7	12574.3	12685.9	9869.2
67.5°	365.2	378.0	408.2	537.3	922.3	1964.3	4510.1	7937.4	12116.1	12246.3	9295.8
70°	296.6	307.0	324.5	358.2	475.7	1043.2	2962.1	6339.5	10123.8	10212.2	7402.4
72.5°	217.5	231.4	265.2	287.3	343.1	572.2	1541.0	4161.2	6952.4	7108.2	4652.0
75°	160.5	168.6	196.5	226.8	280.3	361.7	589.6	2187.6	3590.2	3499.4	1953.8
77.5°	96.5	102.3	125.6	145.4	200.0	225.6	205.8	808.3	1092.0	1026.9	472.2
80°	47.7	53.5	82.6	109.3	127.9	90.7	86.1	225.6	243.1	243.1	118.6
82.5°	16.3	20.9	44.2	72.1	62.8	34.9	40.7	58.1	65.1	68.6	34.9
85°	0.0	0.0	10.5	20.9	9.3	4.7	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	4.7	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°	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3	1158.3
2.5°	1188.6	1133.9	1051.3	976.9	919.9	866.4	825.7	793.2	787.3	768.7	771.1
5°	1242.1	1143.2	990.9	873.4	790.8	735.0	688.5	653.6	638.5	623.4	611.7
7.5°	1324.6	1181.6	967.6	824.6	728.0	642.0	569.9	511.7	483.8	466.4	454.7
10°	1425.8	1235.1	968.8	795.5	652.4	521.0	422.2	358.2	328.0	318.7	317.5
12.5°	1546.8	1302.6	978.1	747.8	543.1	387.3	312.8	283.8	274.5	266.3	266.3
15°	1674.7	1378.1	978.1	660.6	414.0	302.4	271.0	252.4	240.7	236.1	233.8
17.5°	1809.6	1449.1	954.8	540.8	317.5	266.3	240.7	223.3	214.0	207.0	204.7
20°	1953.8	1516.5	896.7	414.0	272.1	238.4	214.0	196.5	187.2	180.3	180.3
22.5°	2100.4	1579.3	802.5	318.7	240.7	211.7	188.4	172.1	162.8	155.8	155.8
25°	2236.4	1621.2	681.5	262.8	217.5	188.4	167.5	151.2	140.7	136.1	133.7
27.5°	2363.2	1648.0	547.8	231.4	195.4	168.6	146.5	131.4	123.3	119.8	117.5
30°	2494.6	1654.9	418.7	210.5	176.8	148.9	127.9	116.3	109.3	104.7	104.7
32.5°	2622.5	1646.8	319.8	193.1	160.5	131.4	114.0	103.5	97.7	94.2	93.0
35°	2752.8	1609.6	259.3	177.9	144.2	115.1	101.2	93.0	89.6	84.9	84.9
37.5°	2894.7	1559.6	225.6	162.8	127.9	103.5	90.7	84.9	80.2	76.8	75.6
40°	3071.5	1501.4	207.0	150.0	112.8	93.0	81.4	75.6	72.1	68.6	67.5
42.5°	3280.8	1444.4	197.7	136.1	101.2	82.6	73.3	66.3	62.8	58.1	57.0
45°	3577.4	1431.6	187.2	121.0	90.7	74.4	64.0	57.0	52.3	48.8	47.7
47.5°	4054.2	1467.7	169.8	104.7	80.2	65.1	54.7	48.8	43.0	39.5	37.2
50°	4527.5	1458.4	152.4	90.7	70.9	55.8	46.5	40.7	34.9	31.4	30.2
52.5°	4785.7	1414.2	136.1	80.2	61.6	47.7	39.5	32.6	29.1	25.6	24.4
55°	5019.5	1396.8	119.8	69.8	52.3	41.9	32.6	26.7	24.4	20.9	19.8
57.5°	5477.7	1437.5	105.8	60.5	45.4	36.1	27.9	22.1	19.8	16.3	15.1
60°	5956.8	1442.1	90.7	52.3	39.5	30.2	22.1	17.4	15.1	11.6	10.5
62.5°	6206.9	1324.6	74.4	44.2	32.6	25.6	18.6	14.0	11.6	7.0	7.0
65°	5997.6	1071.1	62.8	36.1	25.6	19.8	14.0	10.5	7.0	3.5	1.2
67.5°	5307.9	761.8	52.3	29.1	18.6	14.0	10.5	7.0	1.2	0.0	0.0
70°	3886.7	435.0	40.7	20.9	14.0	9.3	7.0	3.5	0.0	0.0	0.0
72.5°	2388.8	232.6	30.2	14.0	10.5	7.0	5.8	2.3	0.0	0.0	0.0
75°	906.0	111.6	18.6	9.3	8.1	5.8	3.5	1.2	0.0	0.0	0.0
77.5°	245.4	54.7	10.5	7.0	5.8	3.5	2.3	0.0	0.0	0.0	0.0
80°	64.0	25.6	7.0	4.7	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	4.7	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)