

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: P639209

Luminaire Tested: GWS-SA5B-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639209
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-SA5B-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14123.5 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

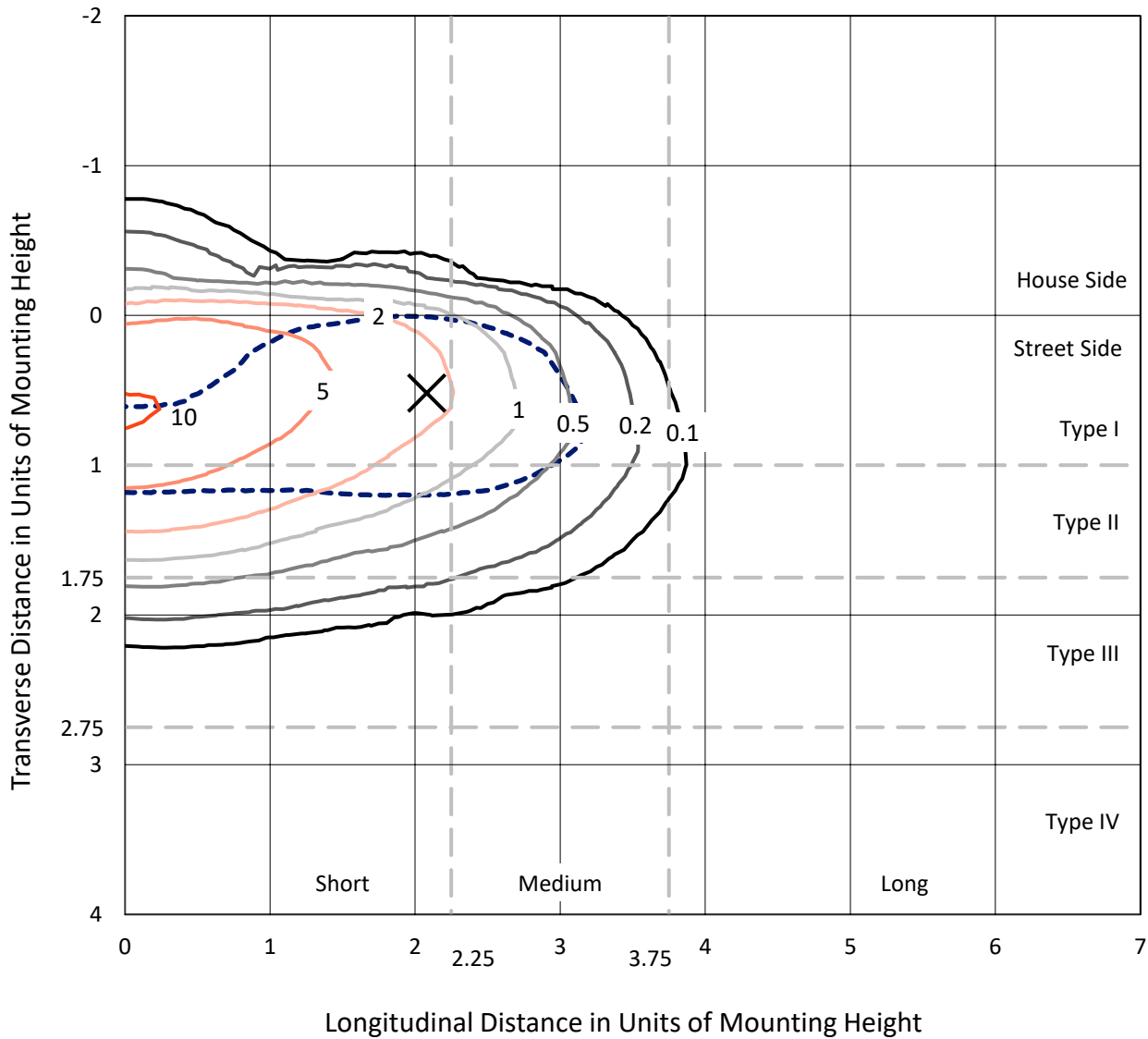
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

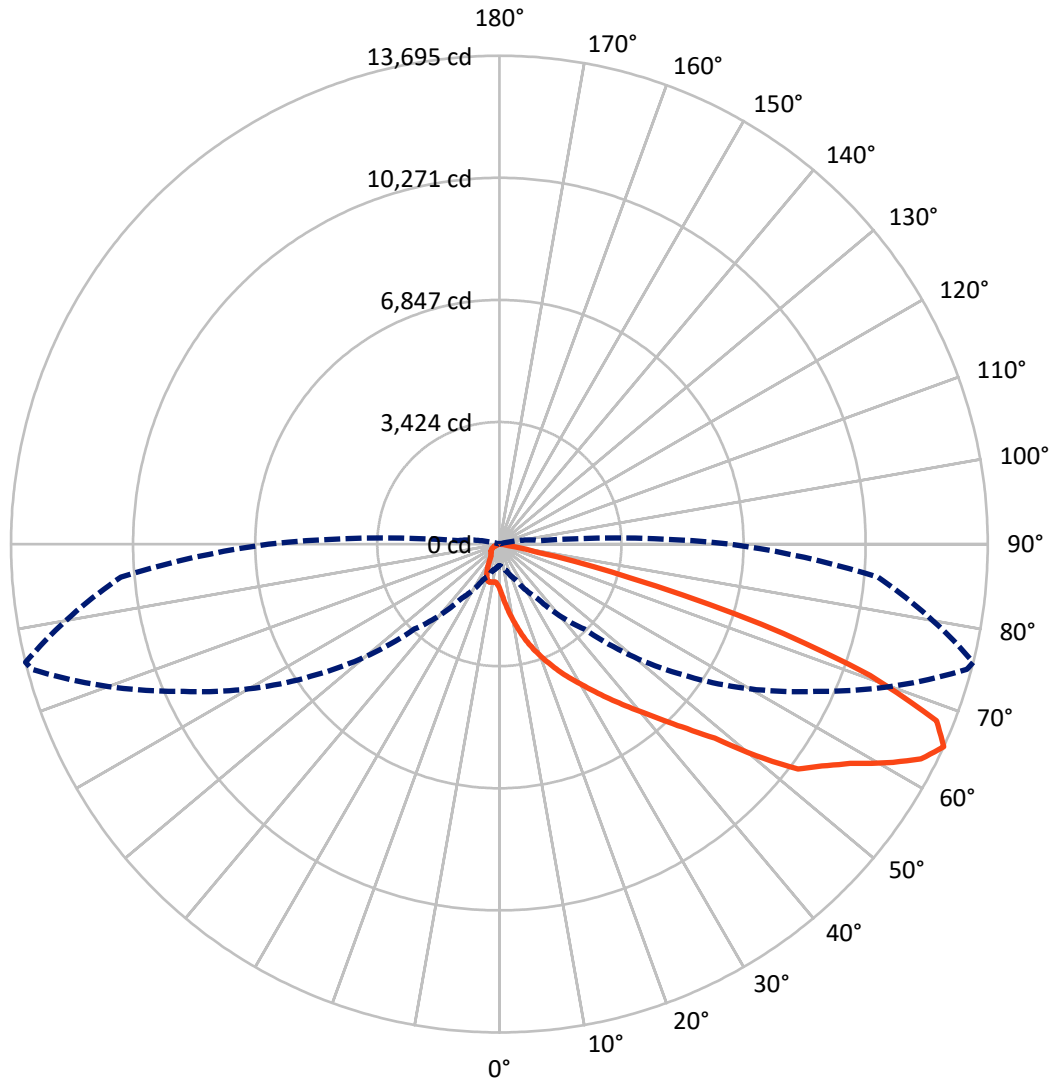
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 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	780.9	0.0	780.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	13342.6	0.0	13342.6
	% Fixture	94.5	0.0	94.5
Total	Lumens	14123.5	0.0	14123.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	1.1
10°-20°	577.2	4.1
20°-30°	1177.6	8.3
30°-40°	2094.5	14.8
40°-50°	3096.1	21.9
50°-60°	3544.8	25.1
60°-70°	2704.5	19.1
70°-80°	757.6	5.4
80°-90°	19.1	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°	14123.5	100.0
0°-180°	14123.5	100.0

Coefficient of Utilization



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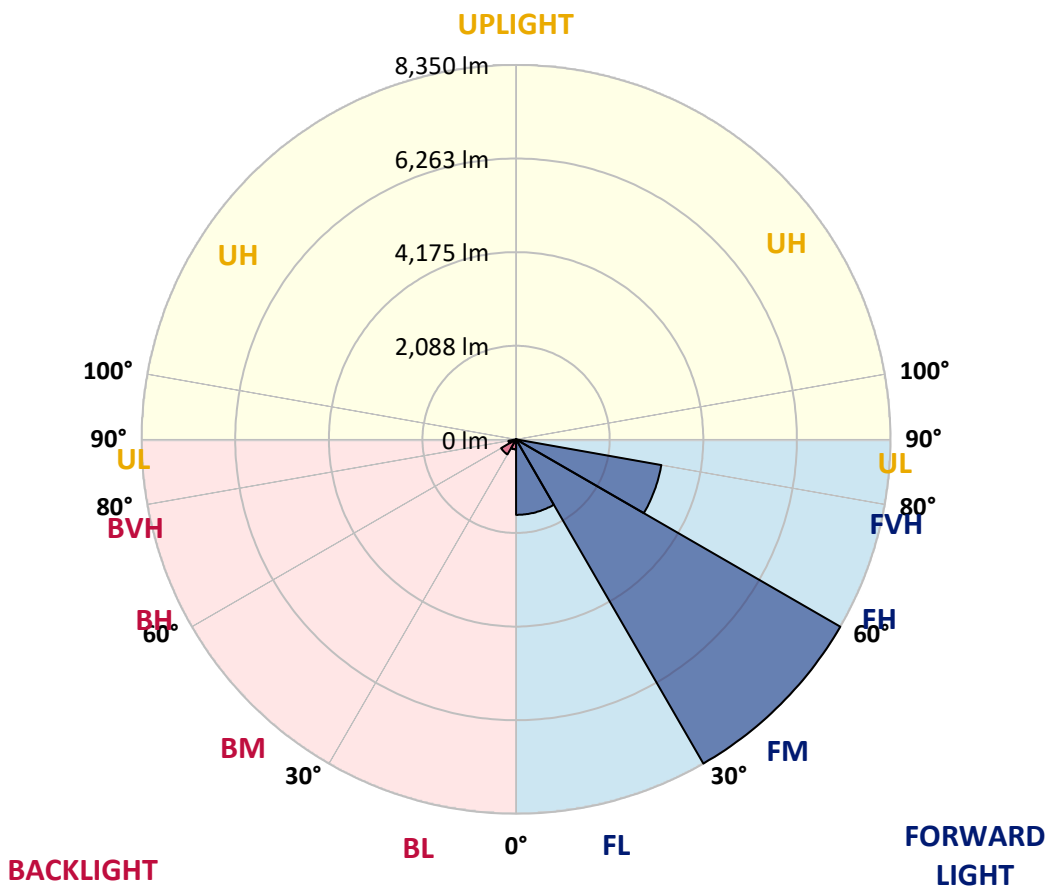
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1684.1	11.9			
FM (30°-60°)	8350.0	59.1			
FH (60°-80°)	3290.4	23.3			G2/5000
FVH (80°-90°)	18.0	0.1			G1/100
BL (0°-30°)	222.8	1.6	B1/500		
BM (30°-60°)	385.3	2.7	B1/1000		
BH (60°-80°)	171.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.1	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°	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4
2.5°	1927.1	1956.0	1933.4	1895.8	1822.9	1752.6	1662.2	1537.9	1438.8	1426.2	1333.3
5°	2602.6	2600.1	2551.1	2502.1	2425.6	2305.0	2123.0	1892.0	1669.8	1650.9	1442.5
7.5°	3004.3	3008.1	2980.5	2942.8	2867.5	2743.2	2553.6	2274.9	1949.7	1912.1	1591.9
10°	3342.1	3340.8	3320.7	3303.1	3235.3	3152.5	2949.1	2642.8	2251.1	2192.0	1758.9
12.5°	3595.7	3604.4	3614.5	3632.1	3603.2	3521.6	3329.5	2995.5	2556.1	2490.8	1949.7
15°	3796.5	3799.0	3836.7	3904.5	3928.4	3885.7	3711.2	3337.0	2857.4	2800.9	2169.4
17.5°	3856.8	3861.8	3925.8	4050.1	4175.7	4199.5	4067.7	3681.0	3153.7	3093.5	2382.9
20°	3983.6	3994.9	4042.6	4151.8	4310.0	4438.1	4386.6	4028.8	3450.0	3370.9	2601.3
22.5°	4382.8	4389.1	4372.8	4386.6	4468.2	4616.4	4647.7	4365.3	3753.8	3669.7	2837.4
25°	5069.6	5072.1	4957.8	4849.9	4788.4	4816.0	4885.0	4675.4	4055.2	3972.3	3057.1
27.5°	5782.7	5791.5	5654.6	5471.3	5251.6	5126.1	5106.0	4959.1	4359.0	4267.3	3274.3
30°	6454.4	6454.4	6310.0	6086.5	5792.7	5547.9	5403.5	5245.3	4684.1	4583.7	3496.5
32.5°	7058.2	7053.2	6868.7	6626.4	6336.3	6067.7	5763.8	5544.1	5045.7	4934.0	3752.6
35°	7556.7	7544.1	7334.4	7102.2	6792.1	6592.5	6253.5	5865.5	5437.4	5325.7	4016.2
37.5°	7933.3	7919.5	7727.4	7481.3	7193.8	7064.5	6780.8	6251.0	5850.5	5748.8	4308.8
40°	8137.9	8110.3	7977.2	7793.9	7552.9	7439.9	7321.9	6729.3	6336.3	6209.5	4654.0
42.5°	8198.2	8165.6	8077.7	7992.3	7846.7	7757.5	7884.3	7269.2	6869.9	6760.7	5048.2
45°	8019.9	8001.1	7993.6	8055.1	8081.4	8106.5	8419.2	7866.8	7458.7	7375.9	5544.1
47.5°	7590.6	7585.5	7652.1	7908.2	8186.9	8451.8	9000.4	8603.7	8222.1	8132.9	6237.2
50°	6797.1	6848.6	7034.4	7483.8	8041.3	8647.7	9544.1	9625.7	9457.4	9326.9	7141.1
52.5°	5556.7	5655.9	6072.7	6755.7	7556.7	8592.4	9795.2	10444.2	10616.2	10480.6	7788.9
55°	4360.2	4453.1	4824.8	5691.0	6759.4	8171.8	9806.5	10726.7	11102.1	10976.5	8227.1
57.5°	3247.9	3333.3	3671.0	4499.6	5674.7	7344.5	9537.8	10883.6	11678.4	11598.0	8918.8
60°	2123.0	2207.1	2512.2	3236.6	4401.7	6139.2	8876.2	10851.0	12463.0	12455.5	9768.8
62.5°	1177.6	1244.2	1465.1	2030.1	3072.1	4754.5	7836.6	10523.3	13222.6	13270.3	10469.3
65°	602.6	645.3	779.6	1116.1	1859.3	3370.9	6469.4	9772.6	13574.1	13694.6	10653.9
67.5°	394.2	408.0	440.7	580.0	995.6	2120.5	4868.7	8568.6	13079.5	13220.1	10034.9
70°	320.1	331.4	350.3	386.7	513.5	1126.2	3197.7	6843.5	10928.8	11024.3	7991.0
72.5°	234.8	249.8	286.2	310.1	370.4	617.7	1663.5	4492.1	7505.2	7673.4	5021.9
75°	173.3	182.0	212.2	244.8	302.6	390.5	636.5	2361.5	3875.6	3777.7	2109.2
77.5°	104.2	110.5	135.6	156.9	215.9	243.6	222.2	872.5	1178.9	1108.6	509.7
80°	51.5	57.8	89.1	118.0	138.1	97.9	92.9	243.6	262.4	262.4	128.1
82.5°	17.6	22.6	47.7	77.8	67.8	37.7	43.9	62.8	70.3	74.1	37.7
85°	0.0	0.0	11.3	22.6	10.0	5.0	11.3	13.8	17.6	18.8	12.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.8	5.0	5.0
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°	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4	1250.4
2.5°	1283.1	1224.1	1134.9	1054.6	993.1	935.3	891.4	856.2	850.0	829.9	832.4
5°	1340.8	1234.1	1069.7	942.9	853.7	793.5	743.2	705.6	689.3	672.9	660.4
7.5°	1430.0	1275.6	1044.5	890.1	785.9	693.0	615.2	552.4	522.3	503.4	490.9
10°	1539.2	1333.3	1045.8	858.7	704.3	562.4	455.7	386.7	354.0	344.0	342.7
12.5°	1669.8	1406.1	1055.8	807.3	586.3	418.1	337.7	306.3	296.3	287.5	287.5
15°	1807.9	1487.7	1055.8	713.1	446.9	326.4	292.5	272.4	259.9	254.9	252.3
17.5°	1953.5	1564.3	1030.7	583.8	342.7	287.5	259.9	241.0	231.0	223.5	221.0
20°	2109.2	1637.1	968.0	446.9	293.8	257.4	231.0	212.2	202.1	194.6	194.6
22.5°	2267.4	1704.9	866.3	344.0	259.9	228.5	203.4	185.8	175.8	168.2	168.2
25°	2414.3	1750.1	735.7	283.7	234.8	203.4	180.8	163.2	151.9	146.9	144.4
27.5°	2551.1	1779.0	591.3	249.8	210.9	182.0	158.2	141.9	133.1	129.3	126.8
30°	2693.0	1786.5	452.0	227.2	190.8	160.7	138.1	125.5	118.0	113.0	113.0
32.5°	2831.1	1777.7	345.3	208.4	173.3	141.9	123.0	111.7	105.5	101.7	100.4
35°	2971.7	1737.6	280.0	192.1	155.7	124.3	109.2	100.4	96.7	91.6	91.6
37.5°	3124.9	1683.6	243.6	175.8	138.1	111.7	97.9	91.6	86.6	82.9	81.6
40°	3315.7	1620.8	223.5	162.0	121.8	100.4	87.9	81.6	77.8	74.1	72.8
42.5°	3541.7	1559.3	213.4	146.9	109.2	89.1	79.1	71.6	67.8	62.8	61.5
45°	3861.8	1545.5	202.1	130.6	97.9	80.3	69.1	61.5	56.5	52.7	51.5
47.5°	4376.6	1584.4	183.3	113.0	86.6	70.3	59.0	52.7	46.5	42.7	40.2
50°	4887.5	1574.4	164.5	97.9	76.6	60.3	50.2	43.9	37.7	33.9	32.6
52.5°	5166.2	1526.6	146.9	86.6	66.5	51.5	42.7	35.2	31.4	27.6	26.4
55°	5418.6	1507.8	129.3	75.3	56.5	45.2	35.2	28.9	26.4	22.6	21.3
57.5°	5913.2	1551.8	114.2	65.3	49.0	38.9	30.1	23.9	21.3	17.6	16.3
60°	6430.5	1556.8	97.9	56.5	42.7	32.6	23.9	18.8	16.3	12.6	11.3
62.5°	6700.4	1430.0	80.3	47.7	35.2	27.6	20.1	15.1	12.6	7.5	7.5
65°	6474.4	1156.3	67.8	38.9	27.6	21.3	15.1	11.3	7.5	3.8	1.3
67.5°	5730.0	822.3	56.5	31.4	20.1	15.1	11.3	7.5	1.3	0.0	0.0
70°	4195.8	469.5	43.9	22.6	15.1	10.0	7.5	3.8	0.0	0.0	0.0
72.5°	2578.7	251.1	32.6	15.1	11.3	7.5	6.3	2.5	0.0	0.0	0.0
75°	978.0	120.5	20.1	10.0	8.8	6.3	3.8	1.3	0.0	0.0	0.0
77.5°	264.9	59.0	11.3	7.5	6.3	3.8	2.5	0.0	0.0	0.0	0.0
80°	69.1	27.6	7.5	5.0	3.8	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	12.6	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
85°	10.0	5.0	2.5	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.8	1.3	1.3	1.3	1.3	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)