

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: P633764

Luminaire Tested: GWS-SA2F-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633764
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12903.9 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

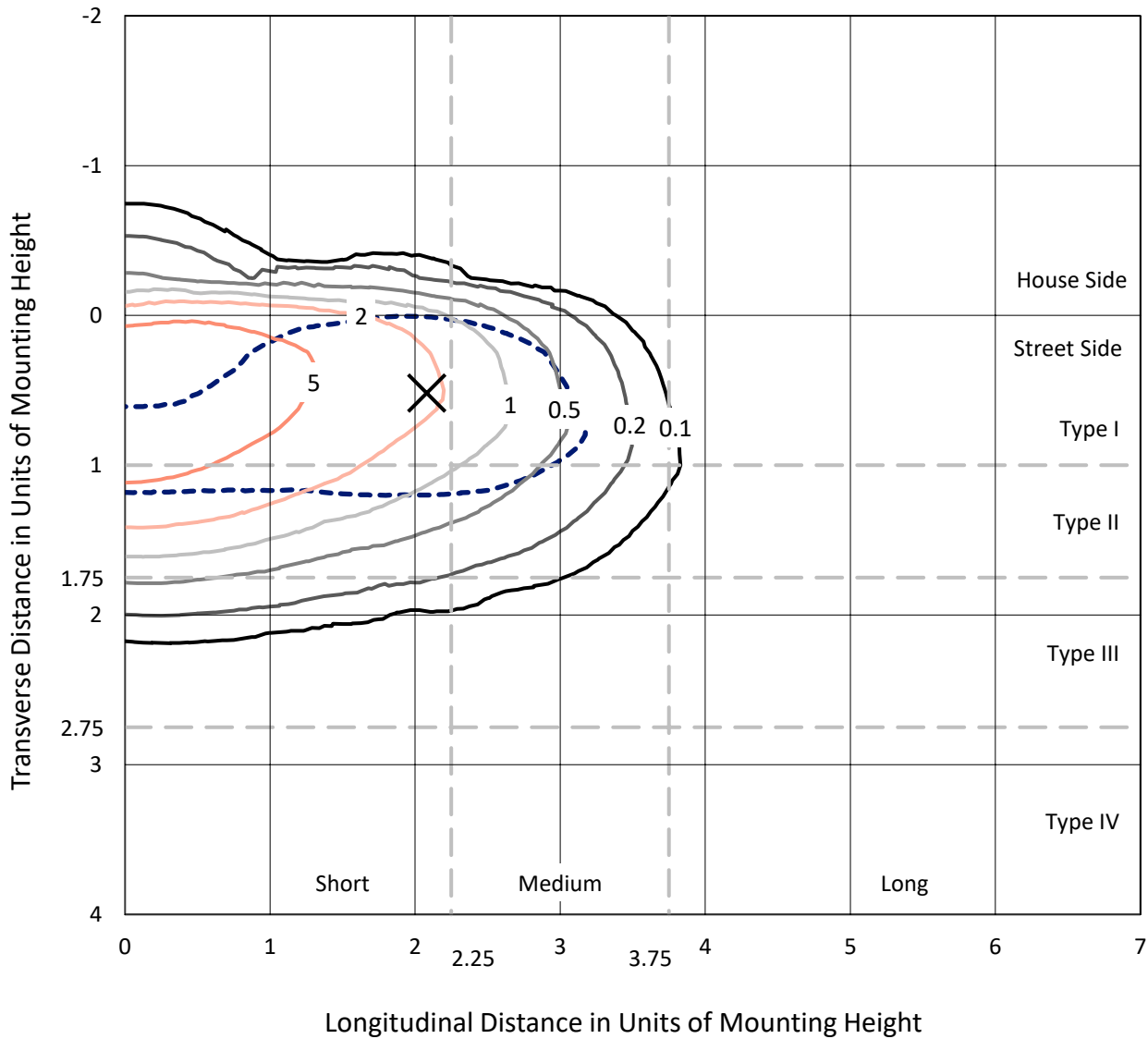
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

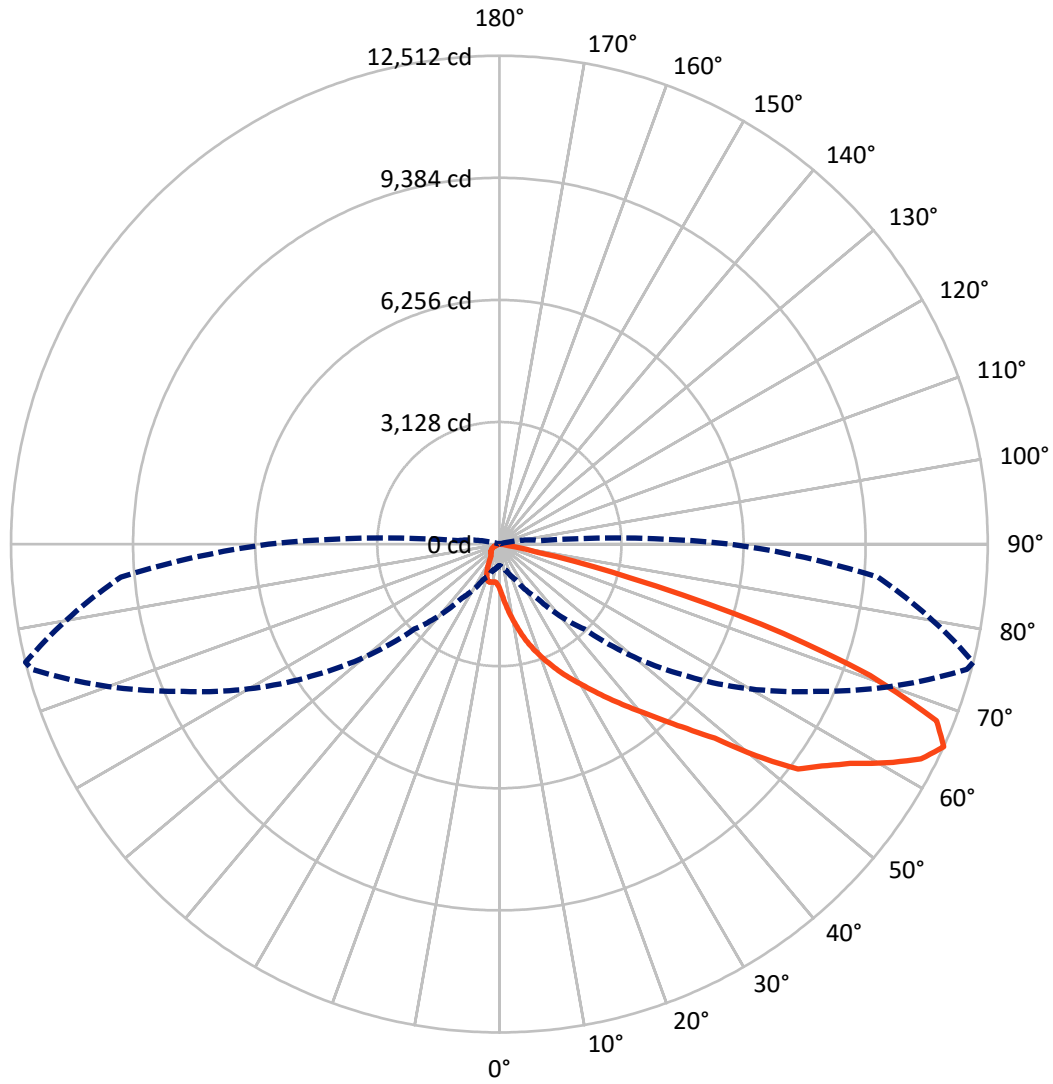
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	713.5	0.0	713.5
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	12190.4	0.0	12190.4
	% Fixture	94.5	0.0	94.5
Total	Lumens	12903.9	0.0	12903.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	1.1
10°-20°	527.4	4.1
20°-30°	1075.9	8.3
30°-40°	1913.6	14.8
40°-50°	2828.7	21.9
50°-60°	3238.7	25.1
60°-70°	2471.0	19.1
70°-80°	692.2	5.4
80°-90°	17.4	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°	12903.9	100.0
0°-180°	12903.9	100.0

Coefficient of Utilization



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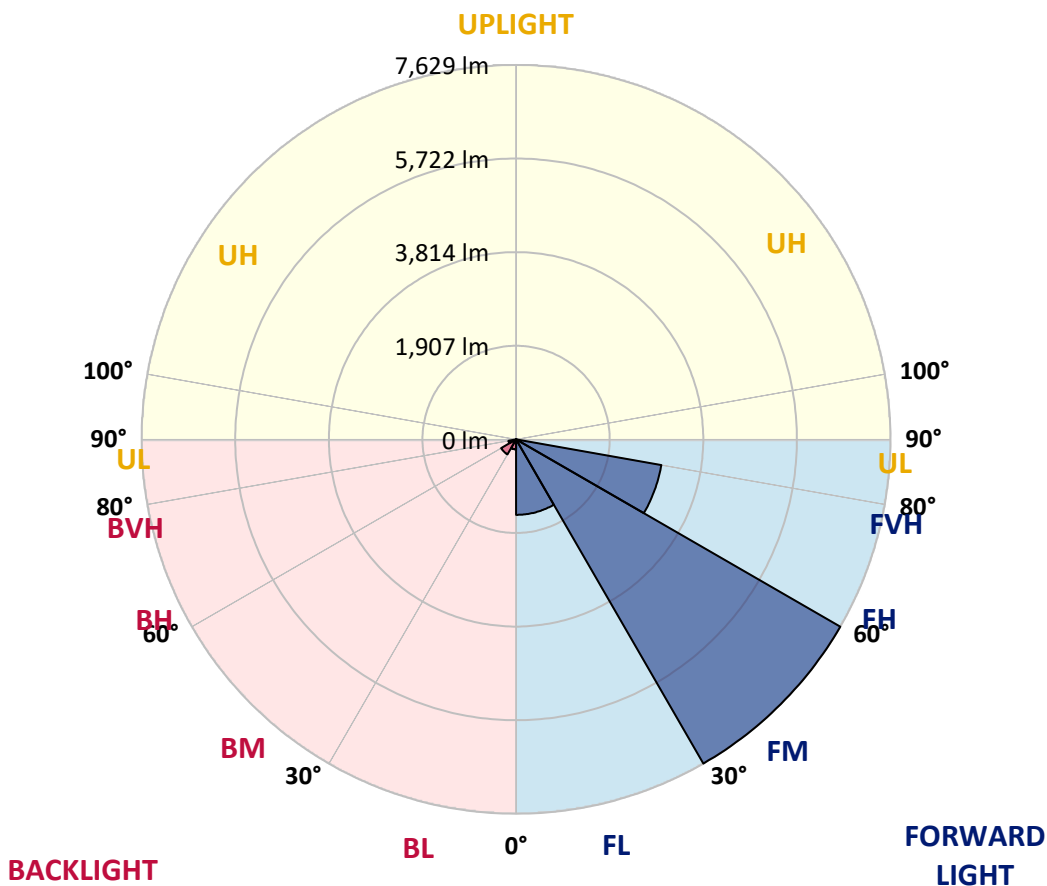
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.7	11.9			
FM (30°-60°)	7629.0	59.1			
FH (60°-80°)	3006.3	23.3			G2/5000
FVH (80°-90°)	16.4	0.1			G1/100
BL (0°-30°)	203.6	1.6	B1/500		
BM (30°-60°)	352.0	2.7	B1/1000		
BH (60°-80°)	156.8	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°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1760.7	1787.1	1766.5	1732.1	1665.5	1601.3	1518.7	1405.1	1314.5	1303.1	1218.2
5°	2377.8	2375.5	2330.8	2286.1	2216.1	2106.0	1939.7	1728.6	1525.6	1508.4	1318.0
7.5°	2744.9	2748.3	2723.1	2688.7	2619.9	2506.3	2333.1	2078.5	1781.4	1747.0	1454.5
10°	3053.5	3052.3	3034.0	3017.9	2956.0	2880.3	2694.4	2414.5	2056.7	2002.8	1607.0
12.5°	3285.2	3293.2	3302.4	3318.4	3292.0	3217.5	3042.0	2736.9	2335.4	2275.8	1781.4
15°	3468.7	3471.0	3505.4	3567.3	3589.1	3550.1	3390.7	3048.9	2610.7	2559.1	1982.1
17.5°	3523.7	3528.3	3586.8	3700.4	3815.1	3836.9	3716.5	3363.2	2881.4	2826.3	2177.1
20°	3639.6	3649.9	3693.5	3793.3	3937.8	4054.8	4007.8	3680.9	3152.1	3079.8	2376.7
22.5°	4004.4	4010.1	3995.2	4007.8	4082.4	4217.7	4246.4	3988.3	3429.7	3352.8	2592.3
25°	4631.8	4634.1	4529.7	4431.1	4374.9	4400.1	4463.2	4271.6	3705.0	3629.3	2793.1
27.5°	5283.3	5291.4	5166.3	4998.9	4798.1	4683.4	4665.1	4530.9	3982.6	3898.8	2991.5
30°	5897.0	5897.0	5765.1	5560.9	5292.5	5068.8	4936.9	4792.4	4279.7	4187.9	3194.5
32.5°	6448.7	6444.1	6275.5	6054.2	5789.2	5543.7	5266.1	5065.4	4610.0	4507.9	3428.5
35°	6904.1	6892.6	6701.1	6488.9	6205.6	6023.2	5713.5	5359.0	4967.9	4865.8	3669.4
37.5°	7248.2	7235.6	7060.1	6835.3	6572.6	6454.5	6195.2	5711.2	5345.3	5252.4	3936.7
40°	7435.2	7410.0	7288.4	7120.9	6900.7	6797.4	6689.6	6148.2	5789.2	5673.3	4252.1
42.5°	7490.3	7460.4	7380.1	7302.1	7169.1	7087.6	7203.5	6641.4	6276.7	6176.9	4612.3
45°	7327.4	7310.2	7303.3	7359.5	7383.6	7406.5	7692.1	7187.4	6814.6	6738.9	5065.4
47.5°	6935.1	6930.5	6991.3	7225.3	7479.9	7722.0	8223.2	7860.8	7512.1	7430.6	5698.6
50°	6210.2	6257.2	6426.9	6837.6	7346.9	7900.9	8719.9	8794.5	8640.8	8521.5	6524.4
52.5°	5076.9	5167.5	5548.3	6172.3	6904.1	7850.4	8949.3	9542.3	9699.5	9575.6	7116.3
55°	3983.7	4068.6	4408.1	5199.6	6175.7	7466.2	8959.6	9800.4	10143.4	10028.7	7516.6
57.5°	2967.4	3045.4	3354.0	4111.0	5184.7	6710.3	8714.2	9943.8	10669.9	10596.5	8148.7
60°	1939.7	2016.5	2295.3	2957.1	4021.6	5609.1	8109.7	9914.0	11386.8	11379.9	8925.2
62.5°	1075.9	1136.7	1338.6	1854.8	2806.8	4343.9	7159.9	9614.6	12080.8	12124.4	9565.3
65°	550.6	589.6	712.3	1019.7	1698.8	3079.8	5910.8	8928.7	12401.9	12512.1	9733.9
67.5°	360.2	372.8	402.6	529.9	909.6	1937.4	4448.3	7828.6	11950.0	12078.5	9168.4
70°	292.5	302.8	320.0	353.3	469.1	1028.9	2921.5	6252.6	9985.1	10072.3	7301.0
72.5°	214.5	228.3	261.5	283.3	338.4	564.4	1519.8	4104.2	6857.1	7010.8	4588.2
75°	158.3	166.3	193.9	223.7	276.4	356.7	581.6	2157.6	3541.0	3451.5	1927.1
77.5°	95.2	100.9	123.9	143.4	197.3	222.5	203.0	797.2	1077.1	1012.8	465.7
80°	47.0	52.8	81.4	107.8	126.2	89.5	84.9	222.5	239.7	239.7	117.0
82.5°	16.1	20.6	43.6	71.1	61.9	34.4	40.1	57.4	64.2	67.7	34.4
85°	0.0	0.0	10.3	20.6	9.2	4.6	10.3	12.6	16.1	17.2	11.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	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°	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1172.3	1118.4	1036.9	963.5	907.3	854.6	814.4	782.3	776.6	758.2	760.5
5°	1225.1	1127.6	977.3	861.4	780.0	724.9	679.1	644.6	629.7	614.8	603.4
7.5°	1306.5	1165.4	954.3	813.3	718.1	633.2	562.1	504.7	477.2	460.0	448.5
10°	1406.3	1218.2	955.5	784.6	643.5	513.9	416.4	353.3	323.5	314.3	313.1
12.5°	1525.6	1284.7	964.7	737.6	535.7	382.0	308.6	279.9	270.7	262.7	262.7
15°	1651.8	1359.3	964.7	651.5	408.4	298.2	267.3	248.9	237.4	232.9	230.6
17.5°	1784.8	1429.2	941.7	533.4	313.1	262.7	237.4	220.2	211.1	204.2	201.9
20°	1927.1	1495.8	884.4	408.4	268.4	235.1	211.1	193.9	184.7	177.8	177.8
22.5°	2071.6	1557.7	791.5	314.3	237.4	208.8	185.8	169.8	160.6	153.7	153.7
25°	2205.8	1599.0	672.2	259.2	214.5	185.8	165.2	149.1	138.8	134.2	131.9
27.5°	2330.8	1625.4	540.3	228.3	192.7	166.3	144.5	129.6	121.6	118.1	115.9
30°	2460.4	1632.3	412.9	207.6	174.4	146.8	126.2	114.7	107.8	103.2	103.2
32.5°	2586.6	1624.2	315.4	190.4	158.3	129.6	112.4	102.1	96.4	92.9	91.8
35°	2715.1	1587.5	255.8	175.5	142.2	113.6	99.8	91.8	88.3	83.7	83.7
37.5°	2855.0	1538.2	222.5	160.6	126.2	102.1	89.5	83.7	79.1	75.7	74.6
40°	3029.4	1480.8	204.2	148.0	111.3	91.8	80.3	74.6	71.1	67.7	66.5
42.5°	3235.8	1424.6	195.0	134.2	99.8	81.4	72.3	65.4	61.9	57.4	56.2
45°	3528.3	1412.0	184.7	119.3	89.5	73.4	63.1	56.2	51.6	48.2	47.0
47.5°	3998.6	1447.6	167.5	103.2	79.1	64.2	53.9	48.2	42.4	39.0	36.7
50°	4465.5	1438.4	150.3	89.5	70.0	55.1	45.9	40.1	34.4	31.0	29.8
52.5°	4720.1	1394.8	134.2	79.1	60.8	47.0	39.0	32.1	28.7	25.2	24.1
55°	4950.7	1377.6	118.1	68.8	51.6	41.3	32.1	26.4	24.1	20.6	19.5
57.5°	5402.6	1417.8	104.4	59.6	44.7	35.6	27.5	21.8	19.5	16.1	14.9
60°	5875.2	1422.3	89.5	51.6	39.0	29.8	21.8	17.2	14.9	11.5	10.3
62.5°	6121.8	1306.5	73.4	43.6	32.1	25.2	18.4	13.8	11.5	6.9	6.9
65°	5915.4	1056.4	61.9	35.6	25.2	19.5	13.8	10.3	6.9	3.4	1.1
67.5°	5235.2	751.3	51.6	28.7	18.4	13.8	10.3	6.9	1.1	0.0	0.0
70°	3833.5	429.0	40.1	20.6	13.8	9.2	6.9	3.4	0.0	0.0	0.0
72.5°	2356.0	229.4	29.8	13.8	10.3	6.9	5.7	2.3	0.0	0.0	0.0
75°	893.6	110.1	18.4	9.2	8.0	5.7	3.4	1.1	0.0	0.0	0.0
77.5°	242.0	53.9	10.3	6.9	5.7	3.4	2.3	0.0	0.0	0.0	0.0
80°	63.1	25.2	6.9	4.6	3.4	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	21.8	11.5	3.4	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0
85°	9.2	4.6	2.3	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.1	1.1	1.1	1.1	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)