

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: P641684

Luminaire Tested: GWS-SA6B-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641684
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-SA6B-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16841.2 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

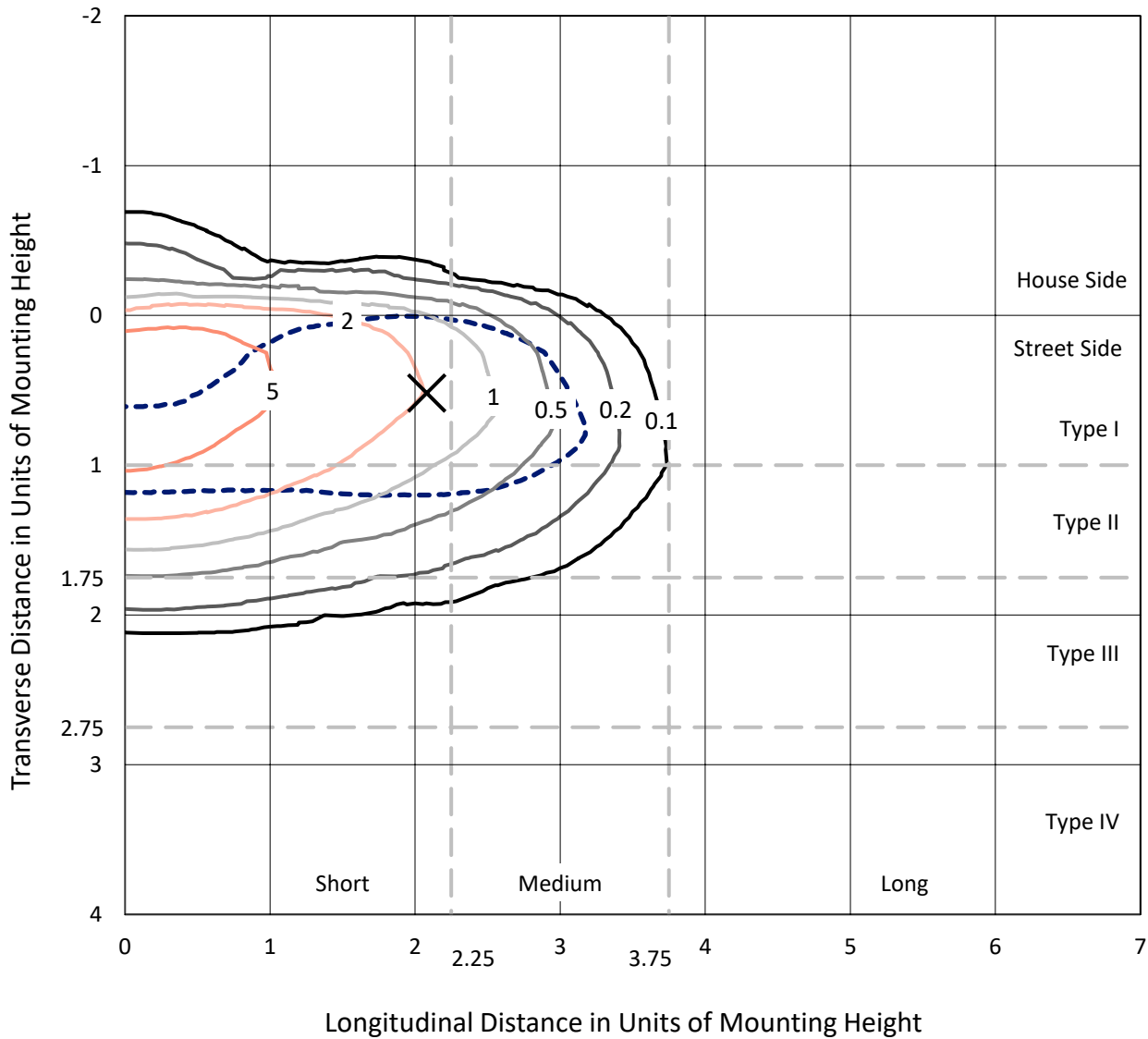
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

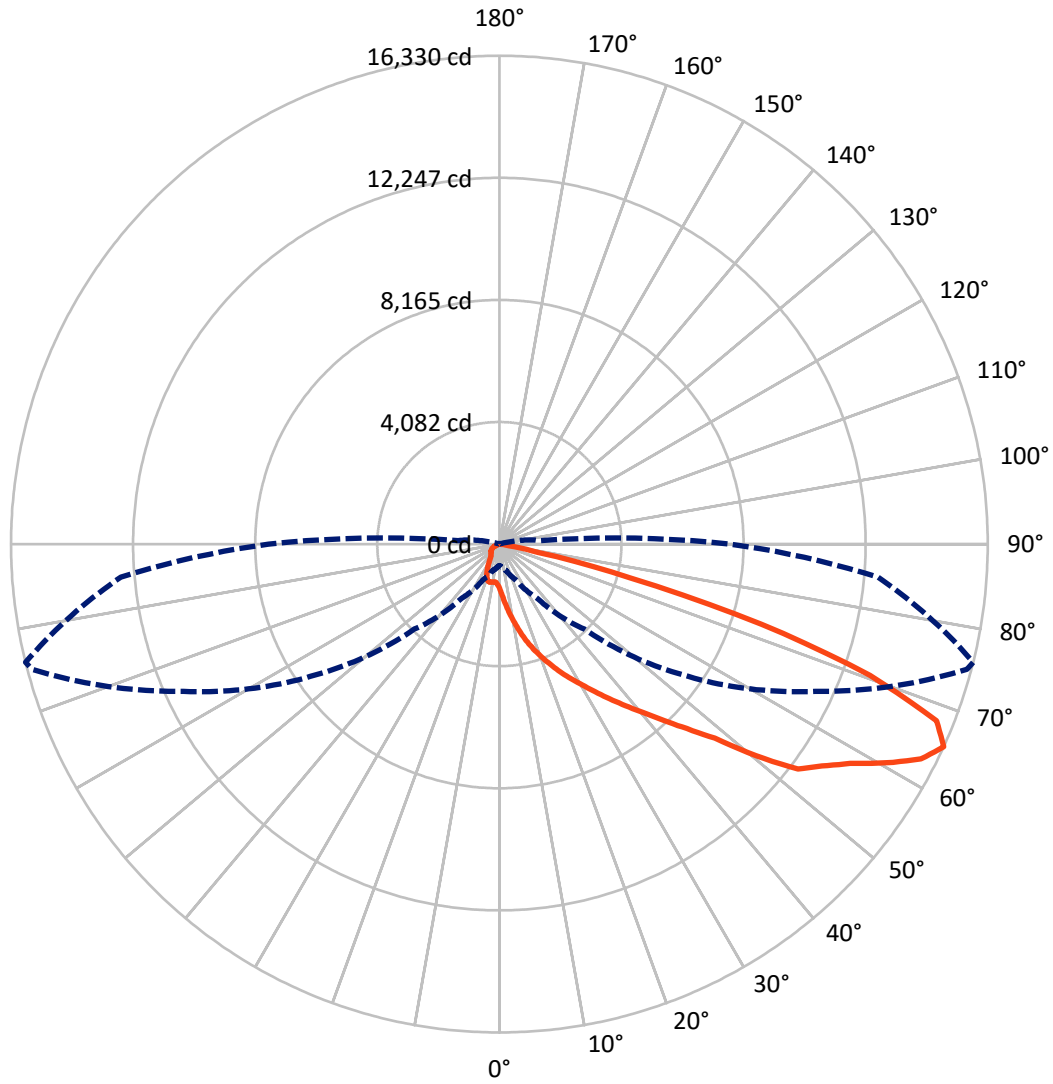
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	931.2	0.0	931.2
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	15910.0	0.0	15910.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	16841.2	0.0	16841.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	1.1
10°-20°	688.3	4.1
20°-30°	1404.2	8.3
30°-40°	2497.5	14.8
40°-50°	3691.9	21.9
50°-60°	4226.9	25.1
60°-70°	3224.9	19.1
70°-80°	903.4	5.4
80°-90°	22.7	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°	16841.2	100.0
0°-180°	16841.2	100.0

Coefficient of Utilization



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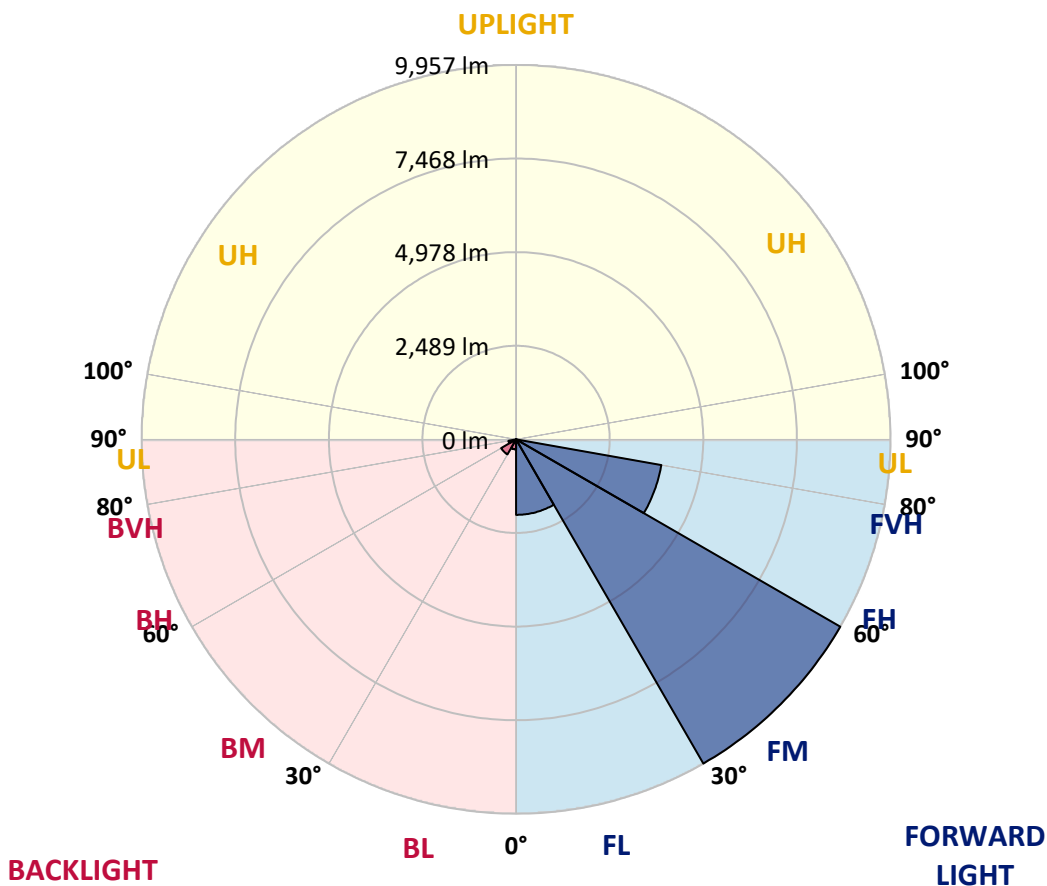
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.2	11.9			
FM (30°-60°)	9956.8	59.1			
FH (60°-80°)	3923.6	23.3			G2/5000
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	265.7	1.6	B1/500		
BM (30°-60°)	459.5	2.7	B1/1000		
BH (60°-80°)	204.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1
2.5°	2298.0	2332.4	2305.5	2260.5	2173.7	2089.9	1982.1	1833.9	1715.6	1700.6	1589.9
5°	3103.4	3100.4	3042.0	2983.6	2892.3	2748.6	2531.5	2256.1	1991.1	1968.6	1720.1
7.5°	3582.4	3586.9	3554.0	3509.1	3419.3	3271.1	3045.0	2712.7	2324.9	2280.0	1898.3
10°	3985.1	3983.6	3959.7	3938.7	3857.9	3759.1	3516.6	3151.3	2684.2	2613.8	2097.4
12.5°	4287.5	4298.0	4310.0	4331.0	4296.5	4199.2	3970.2	3572.0	3048.0	2970.1	2324.9
15°	4527.1	4530.1	4575.0	4655.8	4684.3	4633.4	4425.3	3979.2	3407.3	3339.9	2586.9
17.5°	4598.9	4604.9	4681.3	4829.5	4979.2	5007.6	4850.4	4389.3	3760.6	3688.7	2841.4
20°	4750.1	4763.6	4820.5	4950.7	5139.4	5292.1	5230.7	4804.0	4113.9	4019.6	3101.9
22.5°	5226.2	5233.7	5214.2	5230.7	5328.0	5504.6	5542.1	5205.2	4476.2	4375.9	3383.3
25°	6045.1	6048.1	5911.8	5783.1	5709.7	5742.7	5825.0	5575.0	4835.5	4736.7	3645.3
27.5°	6895.4	6905.9	6742.7	6524.1	6262.2	6112.4	6088.5	5913.3	5197.8	5088.5	3904.3
30°	7696.3	7696.3	7524.2	7257.7	6907.4	6615.5	6443.3	6254.7	5585.5	5465.7	4169.3
32.5°	8416.4	8410.4	8190.4	7901.4	7555.6	7235.2	6873.0	6611.0	6016.6	5883.4	4474.7
35°	9010.7	8995.8	8745.8	8468.8	8099.0	7861.0	7456.8	6994.2	6483.7	6350.5	4789.1
37.5°	9459.9	9443.4	9214.3	8920.9	8578.1	8423.9	8085.6	7453.8	6976.2	6855.0	5137.9
40°	9703.9	9670.9	9512.2	9293.7	9006.2	8871.5	8730.8	8024.2	7555.6	7404.4	5549.6
42.5°	9775.7	9736.8	9632.0	9530.2	9356.6	9250.3	9401.5	8667.9	8191.9	8061.6	6019.6
45°	9563.1	9540.7	9531.7	9605.1	9636.5	9666.4	10039.2	9380.5	8894.0	8795.2	6611.0
47.5°	9051.2	9045.2	9124.5	9429.9	9762.3	10078.1	10732.3	10259.3	9804.2	9697.9	7437.3
50°	8105.0	8166.4	8388.0	8923.9	9588.6	10311.7	11380.6	11477.9	11277.3	11121.6	8515.2
52.5°	6625.9	6744.2	7241.2	8055.6	9010.7	10245.8	11680.0	12453.9	12659.0	12497.4	9287.7
55°	5199.3	5310.0	5753.2	6786.1	8060.1	9744.3	11693.4	12790.8	13238.4	13088.7	9810.2
57.5°	3872.9	3974.7	4377.4	5365.4	6766.7	8757.7	11373.1	12977.9	13925.5	13829.7	10635.0
60°	2531.5	2631.8	2995.6	3859.4	5248.7	7320.6	10584.1	12939.0	14861.2	14852.2	11648.5
62.5°	1404.2	1483.6	1747.1	2420.7	3663.3	5669.3	9344.6	12548.3	15766.9	15823.8	12483.9
65°	718.6	769.5	929.7	1330.9	2217.1	4019.6	7714.3	11653.0	16186.1	16329.8	12704.0
67.5°	470.1	486.5	525.5	691.6	1187.2	2528.5	5805.6	10217.4	15596.3	15763.9	11965.9
70°	381.7	395.2	417.7	461.1	612.3	1342.9	3813.0	8160.4	13031.8	13145.6	9528.7
72.5°	279.9	297.9	341.3	369.8	441.6	736.5	1983.6	5356.4	8949.4	9150.0	5988.2
75°	206.6	217.1	253.0	291.9	360.8	465.6	759.0	2815.9	4621.4	4504.6	2515.0
77.5°	124.3	131.7	161.7	187.1	257.5	290.4	265.0	1040.4	1405.7	1321.9	607.8
80°	61.4	68.9	106.3	140.7	164.7	116.8	110.8	290.4	312.9	312.9	152.7
82.5°	21.0	26.9	56.9	92.8	80.8	44.9	52.4	74.9	83.8	88.3	44.9
85°	0.0	0.0	13.5	26.9	12.0	6.0	13.5	16.5	21.0	22.5	15.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	6.0	6.0
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°	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1	1491.1
2.5°	1530.0	1459.6	1353.3	1257.5	1184.2	1115.3	1062.9	1021.0	1013.5	989.5	992.5
5°	1598.8	1471.6	1275.5	1124.3	1018.0	946.1	886.3	841.3	821.9	802.4	787.4
7.5°	1705.1	1521.0	1245.5	1061.4	937.2	826.4	733.6	658.7	622.8	600.3	585.3
10°	1835.4	1589.9	1247.0	1024.0	839.8	670.7	543.4	461.1	422.2	410.2	408.7
12.5°	1991.1	1676.7	1259.0	962.6	699.1	498.5	402.7	365.3	353.3	342.8	342.8
15°	2155.8	1774.0	1259.0	850.3	532.9	389.2	348.8	324.9	309.9	303.9	300.9
17.5°	2329.4	1865.3	1229.1	696.1	408.7	342.8	309.9	287.4	275.5	266.5	263.5
20°	2515.0	1952.2	1154.2	532.9	350.3	306.9	275.5	253.0	241.0	232.0	232.0
22.5°	2703.7	2033.0	1033.0	410.2	309.9	272.5	242.5	221.6	209.6	200.6	200.6
25°	2878.8	2086.9	877.3	338.3	279.9	242.5	215.6	194.6	181.1	175.2	172.2
27.5°	3042.0	2121.3	705.1	297.9	251.5	217.1	188.6	169.2	158.7	154.2	151.2
30°	3211.2	2130.3	538.9	271.0	227.6	191.6	164.7	149.7	140.7	134.7	134.7
32.5°	3375.8	2119.8	411.7	248.5	206.6	169.2	146.7	133.2	125.8	121.3	119.8
35°	3543.5	2071.9	333.8	229.0	185.6	148.2	130.2	119.8	115.3	109.3	109.3
37.5°	3726.2	2007.5	290.4	209.6	164.7	133.2	116.8	109.3	103.3	98.8	97.3
40°	3953.7	1932.7	266.5	193.1	145.2	119.8	104.8	97.3	92.8	88.3	86.8
42.5°	4223.2	1859.3	254.5	175.2	130.2	106.3	94.3	85.3	80.8	74.9	73.4
45°	4604.9	1842.9	241.0	155.7	116.8	95.8	82.3	73.4	67.4	62.9	61.4
47.5°	5218.7	1889.3	218.6	134.7	103.3	83.8	70.4	62.9	55.4	50.9	47.9
50°	5828.0	1877.3	196.1	116.8	91.3	71.9	59.9	52.4	44.9	40.4	38.9
52.5°	6160.4	1820.4	175.2	103.3	79.3	61.4	50.9	41.9	37.4	32.9	31.4
55°	6461.3	1798.0	154.2	89.8	67.4	53.9	41.9	34.4	31.4	26.9	25.4
57.5°	7051.1	1850.4	136.2	77.8	58.4	46.4	35.9	28.4	25.4	21.0	19.5
60°	7667.9	1856.3	116.8	67.4	50.9	38.9	28.4	22.5	19.5	15.0	13.5
62.5°	7989.7	1705.1	95.8	56.9	41.9	32.9	24.0	18.0	15.0	9.0	9.0
65°	7720.3	1378.8	80.8	46.4	32.9	25.4	18.0	13.5	9.0	4.5	1.5
67.5°	6832.5	980.6	67.4	37.4	24.0	18.0	13.5	9.0	1.5	0.0	0.0
70°	5003.1	559.9	52.4	26.9	18.0	12.0	9.0	4.5	0.0	0.0	0.0
72.5°	3074.9	299.4	38.9	18.0	13.5	9.0	7.5	3.0	0.0	0.0	0.0
75°	1166.2	143.7	24.0	12.0	10.5	7.5	4.5	1.5	0.0	0.0	0.0
77.5°	315.9	70.4	13.5	9.0	7.5	4.5	3.0	0.0	0.0	0.0	0.0
80°	82.3	32.9	9.0	6.0	4.5	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.4	15.0	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	12.0	6.0	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.5	1.5	1.5	1.5	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)