

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: P638299

Luminaire Tested: GWS-SA4E-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26251.3 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

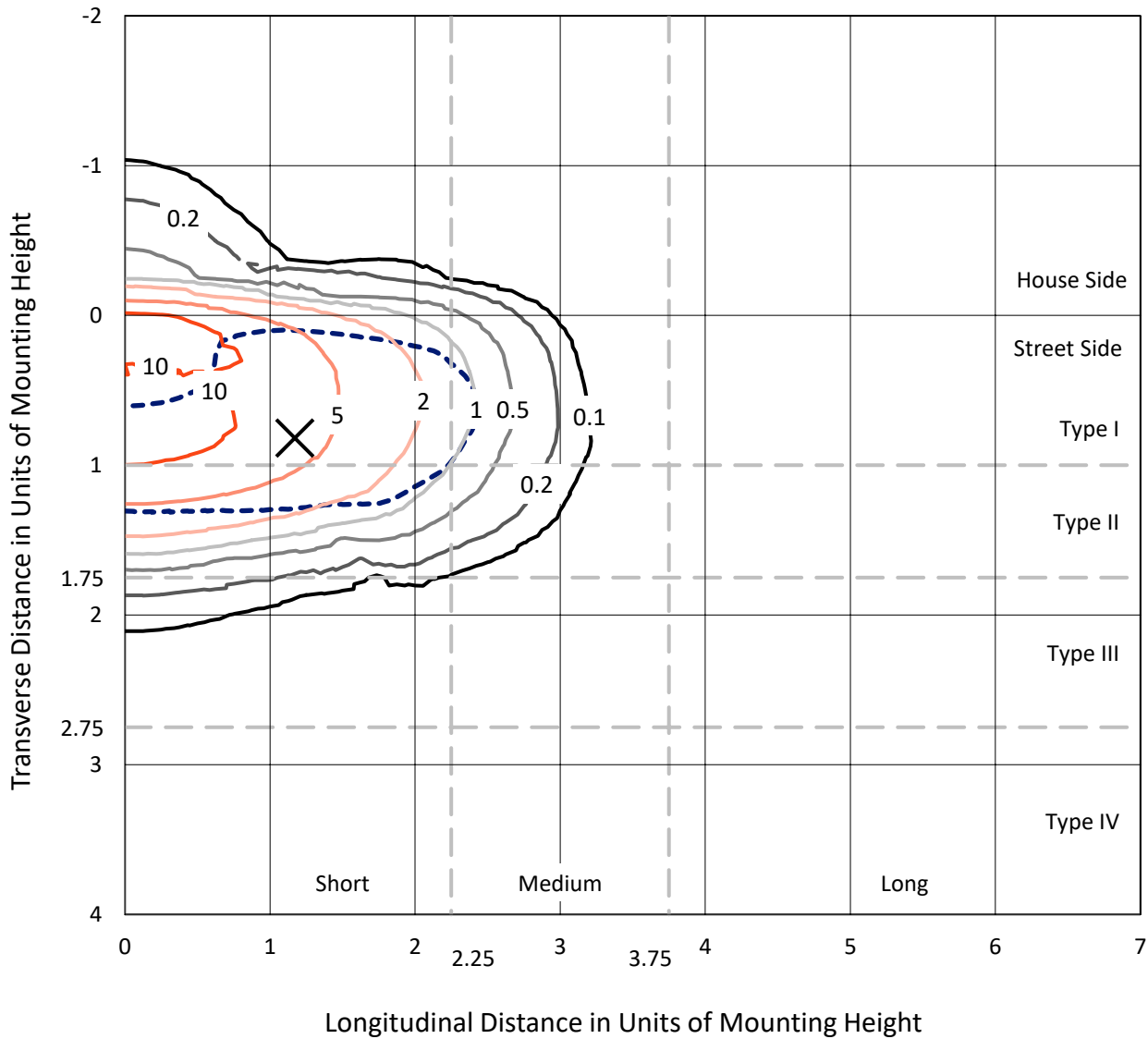
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

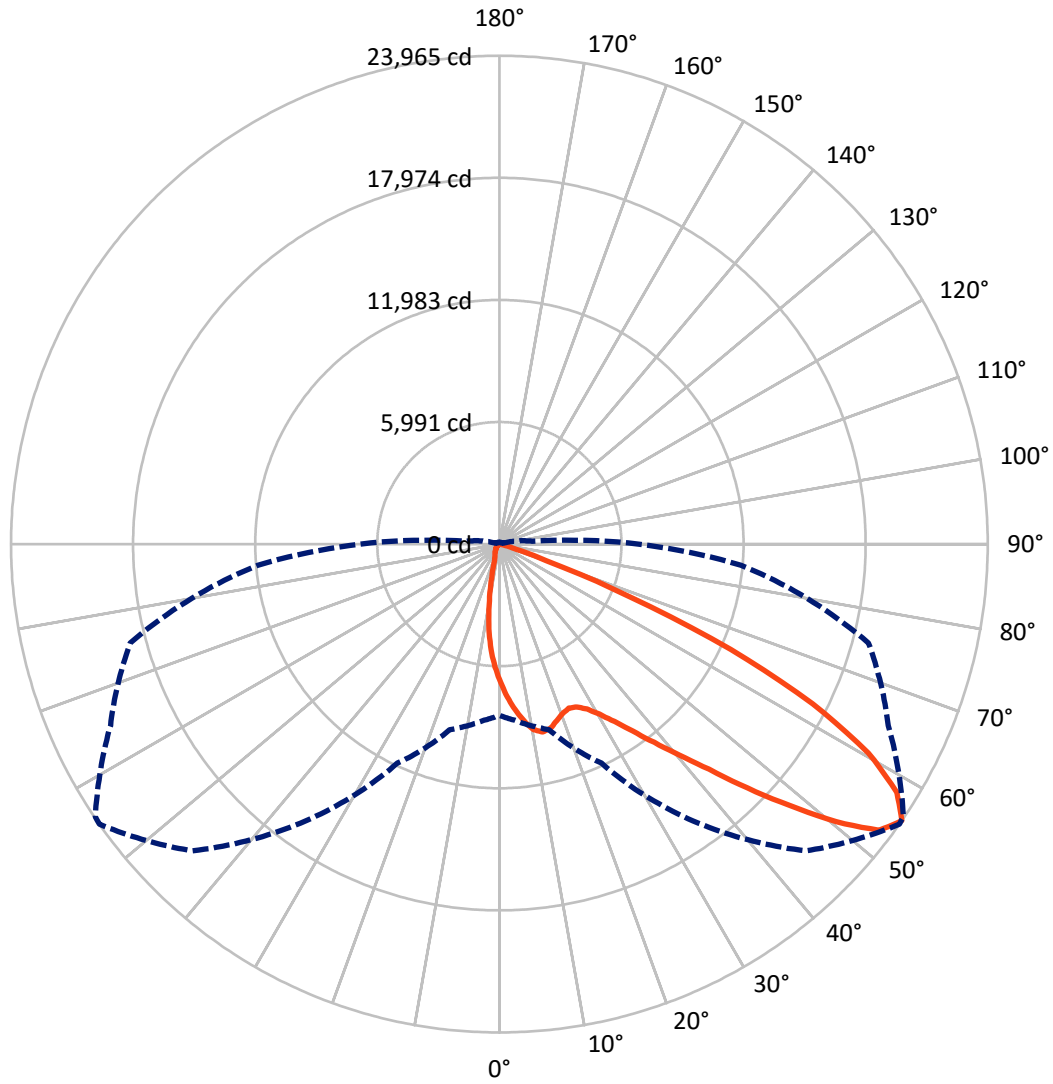
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1619.8	0.0	1619.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	24631.5	0.0	24631.5
	% Fixture	93.8	0.0	93.8
Total	Lumens	26251.3	0.0	26251.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	599.3	2.3
10°-20°	1445.0	5.5
20°-30°	2406.4	9.2
30°-40°	4100.7	15.6
40°-50°	6693.7	25.5
50°-60°	7008.0	26.7
60°-70°	3534.7	13.5
70°-80°	446.5	1.7
80°-90°	16.9	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°	26251.3	100.0
0°-180°	26251.3	100.0

Coefficient of Utilization



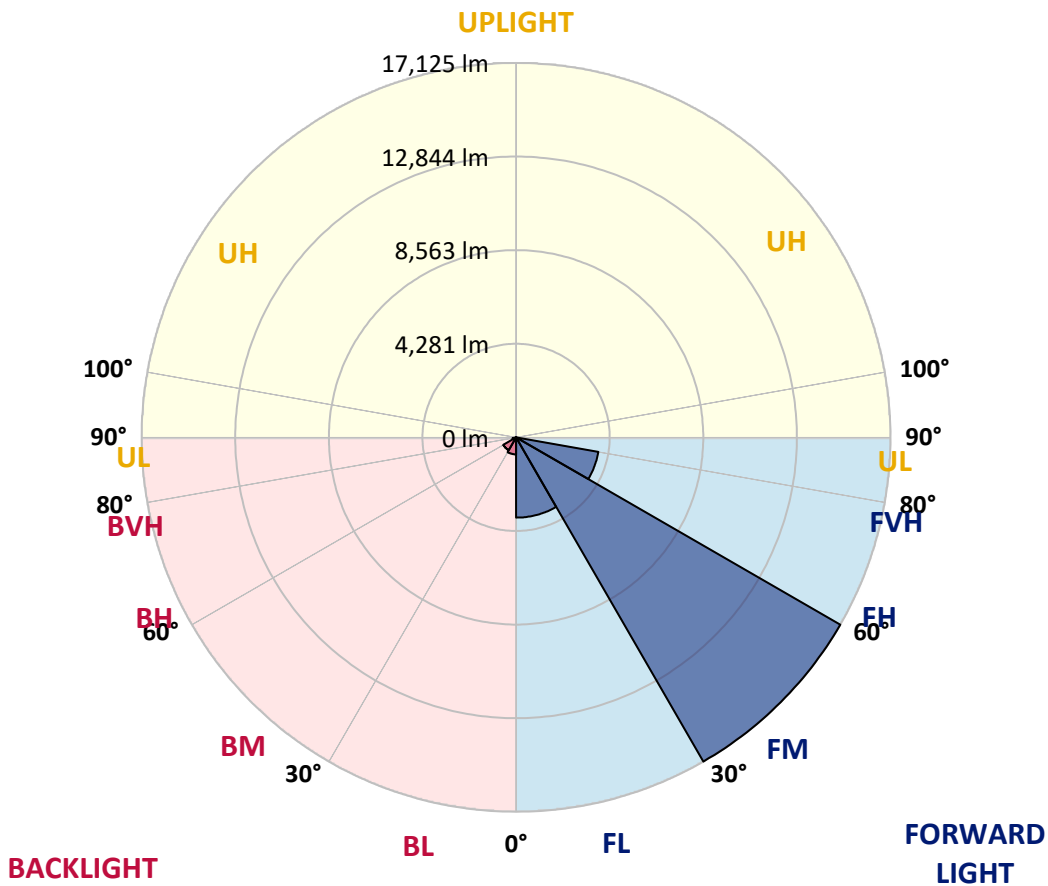
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3672.2	14.0			
FM (30°-60°)	17125.2	65.2			
FH (60°-80°)	3818.7	14.5			G2/5000
FVH (80°-90°)	15.4	0.1			G1/100
BL (0°-30°)	778.5	3.0	B2/1000		
BM (30°-60°)	677.3	2.6	B1/1000		
BH (60°-80°)	162.5	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8
2.5°	7906.1	7868.0	7926.3	7859.0	7744.5	7648.0	7522.4	7477.5	7275.5	7084.8	6900.7
5°	8866.6	8877.8	8859.9	8765.6	8604.0	8424.5	8170.9	8114.8	7762.5	7398.9	7006.2
7.5°	9104.5	9097.8	9135.9	9171.8	9144.9	9055.1	8779.1	8723.0	8285.4	7740.0	7167.8
10°	8370.7	8375.1	8453.7	8696.1	8996.8	9308.7	9266.1	9234.6	8806.0	8126.0	7347.3
12.5°	7333.9	7374.3	7457.3	7802.9	8312.3	9021.5	9461.3	9492.7	9284.0	8550.2	7558.3
15°	6885.0	6894.0	6961.3	7170.0	7549.3	8424.5	9378.3	9465.8	9683.5	8976.6	7787.2
17.5°	6873.8	6885.0	6914.2	7006.2	7253.1	7955.5	9111.2	9263.8	9984.2	9434.4	8061.0
20°	7295.7	7289.0	7268.8	7219.4	7327.1	7800.6	8864.4	9032.7	10148.0	9881.0	8337.0
22.5°	8061.0	8052.0	7962.2	7758.0	7670.5	7942.0	8743.2	8895.8	10246.8	10278.2	8563.6
25°	8942.9	9005.7	8837.4	8527.7	8312.3	8303.3	8850.9	8958.6	10332.0	10630.5	8718.5
27.5°	9910.1	9930.3	9786.7	9438.9	9126.9	8882.3	9162.8	9243.6	10426.3	10944.7	8806.0
30°	10971.6	10964.9	10801.1	10397.1	10017.9	9665.5	9688.0	9719.4	10646.2	11303.7	8902.5
32.5°	12297.9	12327.1	12035.3	11485.5	11030.0	10543.0	10374.7	10379.2	11043.4	11766.0	9048.4
35°	14099.9	14028.1	13642.1	12858.9	12082.5	11557.3	11270.1	11245.4	11656.1	12387.7	9302.0
37.5°	15816.7	15823.4	15419.5	14557.8	13577.1	12749.0	12342.8	12275.5	12517.8	13249.4	9723.9
40°	17008.4	17030.8	16862.5	16411.4	15372.4	14200.9	13604.0	13534.4	13635.4	14340.1	10275.9
42.5°	17639.0	17701.8	17748.9	17854.4	17066.7	16014.2	15096.3	15089.6	14984.1	15583.3	10915.5
45°	17663.6	17757.9	18045.1	18765.5	18855.3	18083.3	17084.7	16934.3	16528.1	16914.1	11487.8
47.5°	16687.4	16905.1	17515.5	18942.8	19885.3	20141.2	19151.5	19059.5	17919.5	17966.6	11916.4
50°	14411.9	14638.5	15762.9	18033.9	20145.7	21774.9	21420.3	21229.6	19081.9	18662.3	12122.9
52.5°	12078.0	12284.4	13047.4	15870.6	19066.2	22288.8	23332.3	23105.7	20125.5	18904.7	12037.6
55°	8404.3	8680.3	9425.4	11862.5	16579.7	21287.9	23965.2	23918.1	21056.8	18752.1	11905.2
57.5°	4120.2	4394.0	5136.8	7313.7	12282.2	18586.0	22998.0	23247.1	21613.3	18588.2	11797.5
60°	1721.3	1833.5	2089.3	3209.1	6871.6	14046.1	20814.4	21160.0	21272.2	18366.1	11786.2
62.5°	998.6	1016.6	1043.5	1330.8	2672.8	8052.0	17266.4	17757.9	19479.2	18072.1	11608.9
65°	754.0	760.8	749.5	816.9	1104.1	3054.3	12475.2	13143.9	16258.8	16923.1	10908.8
67.5°	619.4	619.4	590.2	603.7	693.4	1144.5	6887.3	7820.8	12030.8	13909.2	9008.0
70°	493.7	504.9	491.5	473.5	496.0	632.8	2450.6	3038.6	7006.2	8213.6	5253.5
72.5°	374.8	374.8	397.2	383.7	368.0	397.2	855.0	960.5	2811.9	3424.6	1896.3
75°	289.5	298.5	314.2	300.7	278.3	235.6	410.7	435.4	848.3	796.7	424.1
77.5°	148.1	150.4	199.7	219.9	206.5	143.6	179.5	197.5	276.0	246.9	157.1
80°	89.8	94.3	112.2	172.8	136.9	76.3	74.1	78.5	130.2	112.2	65.1
82.5°	38.2	40.4	62.8	62.8	56.1	29.2	29.2	29.2	62.8	58.3	26.9
85°	0.0	0.0	11.2	9.0	9.0	11.2	11.2	11.2	15.7	22.4	13.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7	6.7
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°	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8	6781.8
2.5°	6781.8	6638.2	6445.2	6270.1	6034.5	5902.1	5718.1	5567.7	5439.8	5399.4	5381.5
5°	6784.0	6537.2	6124.3	5711.3	5204.2	4804.7	4394.0	4068.6	3801.6	3716.3	3693.9
7.5°	6828.9	6465.4	5796.6	5047.1	4198.8	3498.6	2872.5	2311.5	2051.1	1963.6	1945.7
10°	6889.5	6404.8	5417.4	4250.4	3031.8	2131.9	1510.3	1151.2	980.7	886.4	899.9
12.5°	6968.1	6355.4	4997.7	3388.7	2006.3	1171.4	830.3	695.7	659.8	641.8	632.8
15°	7073.5	6297.1	4477.1	2533.6	1229.8	754.0	639.6	603.7	590.2	581.2	579.0
17.5°	7181.3	6229.7	3947.4	1781.8	816.9	626.1	574.5	556.5	547.6	540.8	538.6
20°	7295.7	6115.3	3325.8	1227.5	644.1	563.3	529.6	509.4	498.2	487.0	484.7
22.5°	7345.1	5931.3	2731.1	859.5	572.3	518.4	475.8	451.1	437.6	428.6	428.6
25°	7298.0	5632.8	2116.2	653.0	520.6	469.0	426.4	399.5	388.2	379.3	379.3
27.5°	7172.3	5249.0	1544.0	540.8	464.5	417.4	377.0	352.3	343.4	338.9	338.9
30°	7033.1	4764.3	1088.4	464.5	401.7	363.6	329.9	314.2	311.9	307.4	307.4
32.5°	6914.2	4311.0	749.5	408.4	354.6	316.4	294.0	287.3	289.5	285.0	287.3
35°	6849.1	3866.7	556.5	363.6	316.4	280.5	269.3	269.3	269.3	267.1	267.1
37.5°	6876.1	3429.0	453.3	332.1	282.8	255.8	244.6	249.1	253.6	253.6	253.6
40°	7010.7	3040.8	401.7	303.0	253.6	233.4	224.4	231.1	237.9	242.4	242.4
42.5°	7181.3	2726.6	363.6	278.3	233.4	210.9	206.5	213.2	219.9	224.4	224.4
45°	7289.0	2410.2	325.4	246.9	213.2	186.3	186.3	195.2	193.0	195.2	195.2
47.5°	7338.3	2158.9	287.3	213.2	181.8	161.6	163.8	168.3	163.8	168.3	168.3
50°	7217.2	1905.3	253.6	177.3	150.4	141.4	145.9	143.6	143.6	152.6	152.6
52.5°	6995.0	1716.8	224.4	150.4	127.9	125.7	130.2	121.2	123.4	123.4	121.2
55°	6831.2	1609.1	199.7	130.2	110.0	112.2	110.0	94.3	85.3	76.3	74.1
57.5°	6750.4	1566.4	181.8	116.7	98.7	98.7	89.8	65.1	49.4	38.2	33.7
60°	6732.4	1514.8	163.8	101.0	87.5	83.0	65.1	38.2	24.7	18.0	15.7
62.5°	6561.9	1389.1	148.1	80.8	76.3	67.3	40.4	22.4	13.5	9.0	6.7
65°	6003.1	1142.3	132.4	62.8	58.3	49.4	24.7	13.5	6.7	2.2	0.0
67.5°	4775.5	810.1	116.7	47.1	40.4	31.4	15.7	9.0	2.2	0.0	0.0
70°	2753.6	437.6	96.5	33.7	26.9	20.2	11.2	4.5	0.0	0.0	0.0
72.5°	920.1	204.2	74.1	22.4	20.2	15.7	6.7	2.2	0.0	0.0	0.0
75°	202.0	121.2	49.4	15.7	13.5	11.2	4.5	0.0	0.0	0.0	0.0
77.5°	76.3	85.3	24.7	11.2	9.0	6.7	2.2	0.0	0.0	0.0	0.0
80°	29.2	56.1	11.2	6.7	6.7	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.7	22.4	6.7	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.0	11.2	4.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	2.2	2.2	2.2	0.0	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)