

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: P638879

Luminaire Tested: GWS-SA4F-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638879
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-SA4F-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27684.3 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

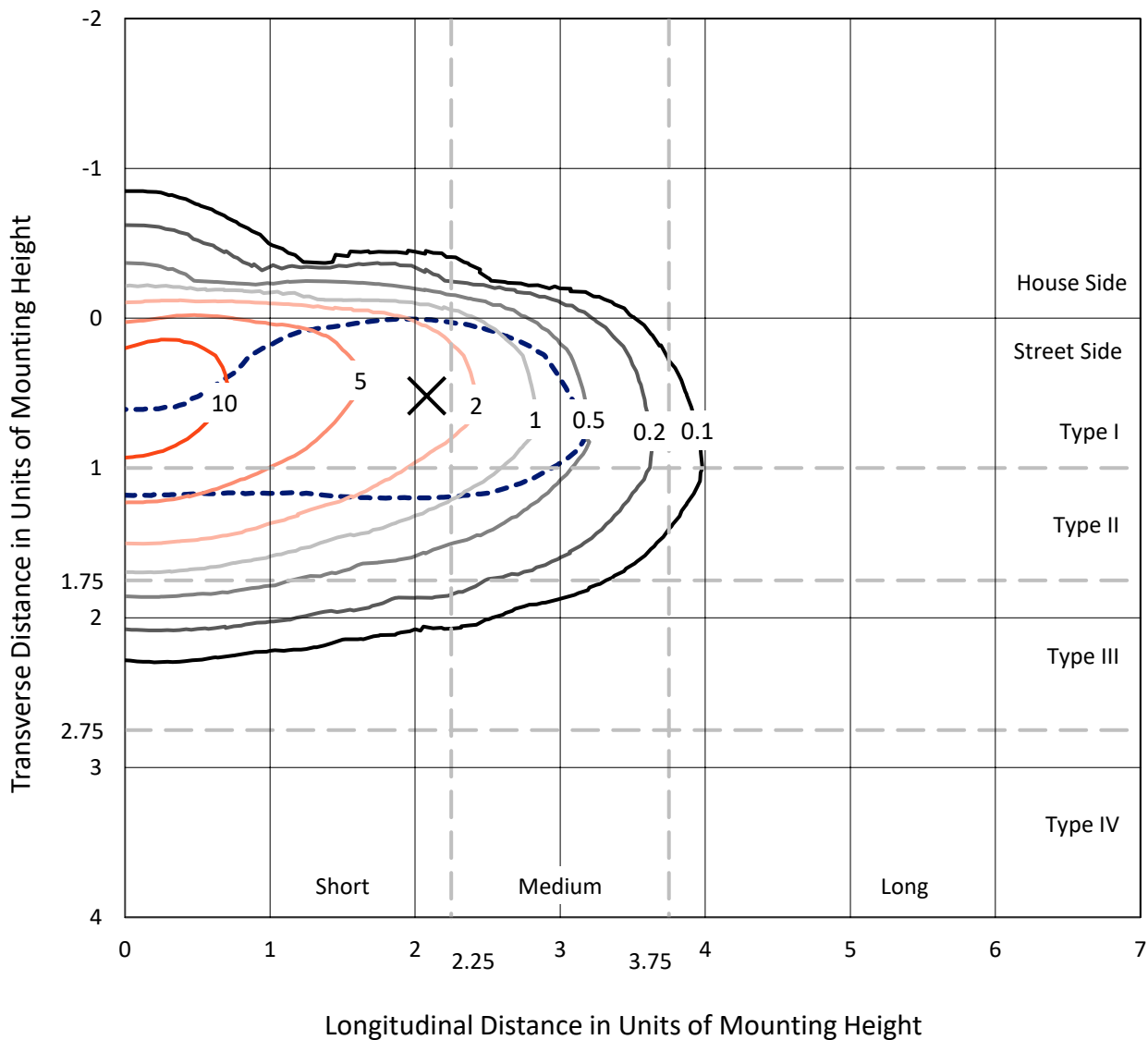
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

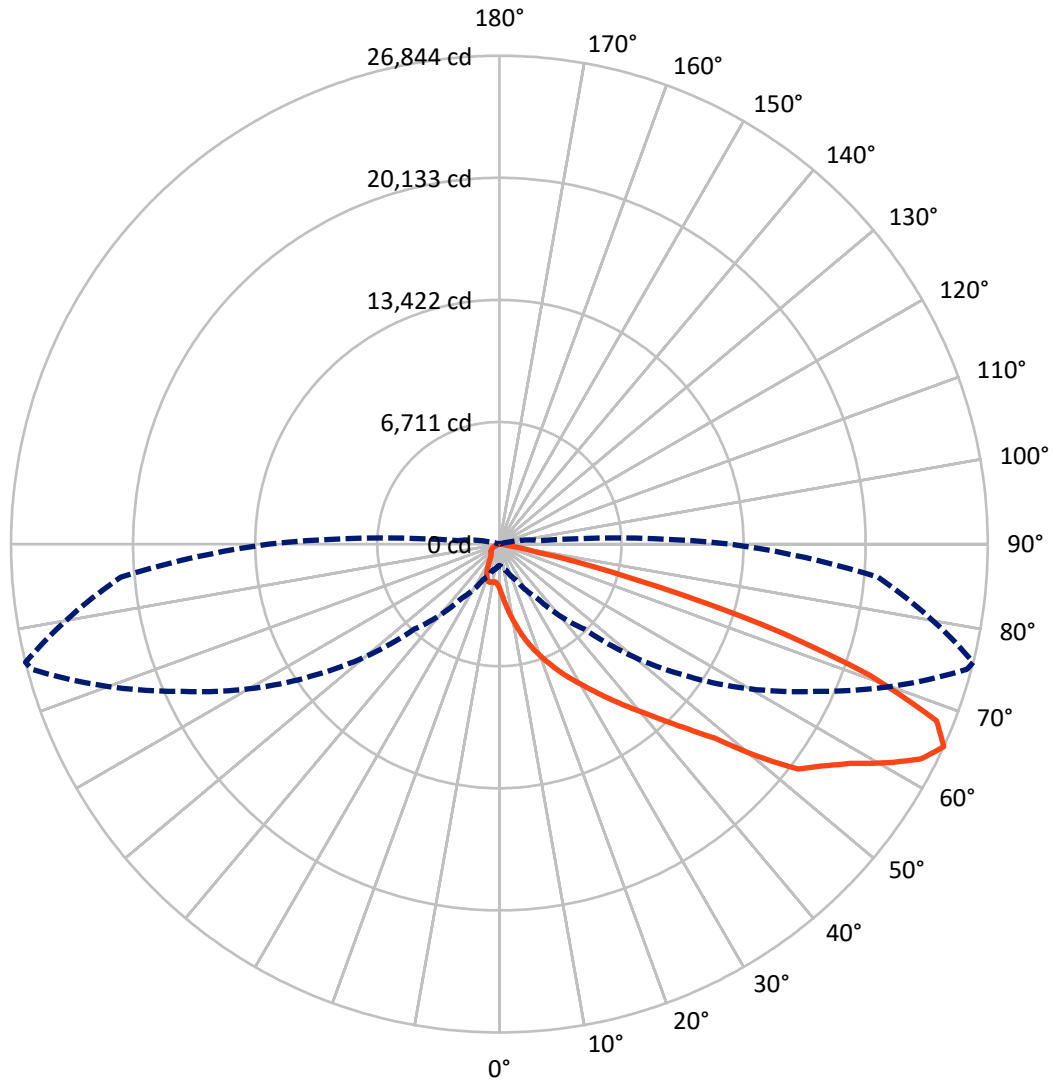
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	1530.8	0.0	1530.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	26153.5	0.0	26153.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	27684.3	0.0	27684.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	1.1
10°-20°	1131.5	4.1
20°-30°	2308.3	8.3
30°-40°	4105.5	14.8
40°-50°	6068.9	21.9
50°-60°	6948.4	25.1
60°-70°	5301.3	19.1
70°-80°	1485.0	5.4
80°-90°	37.4	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°	27684.3	100.0
0°-180°	27684.3	100.0

Coefficient of Utilization

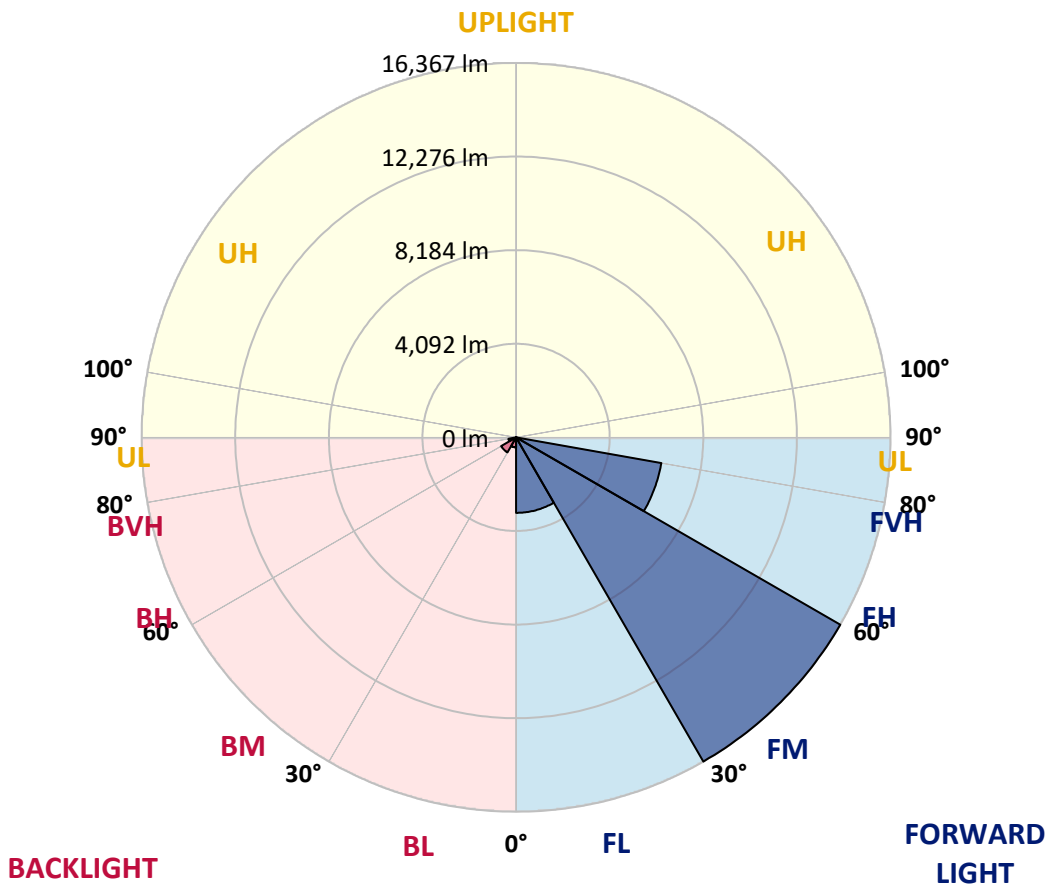


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3301.1	11.9			
FM (30°-60°)	16367.4	59.1			
FH (60°-80°)	6449.8	23.3			G3/7500
FVH (80°-90°)	35.2	0.1			G1/100
BL (0°-30°)	436.8	1.6	B1/500		
BM (30°-60°)	755.3	2.7	B1/1000		
BH (60°-80°)	336.5	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1
2.5°	3777.5	3834.1	3789.8	3716.0	3573.2	3435.4	3258.3	3014.6	2820.2	2795.6	2613.5
5°	5101.5	5096.6	5000.6	4904.6	4754.5	4518.2	4161.4	3708.6	3273.0	3236.1	2827.6
7.5°	5889.0	5896.3	5842.2	5768.4	5620.7	5377.1	5005.5	4459.2	3821.8	3748.0	3120.4
10°	6551.0	6548.5	6509.1	6474.7	6341.8	6179.4	5780.7	5180.2	4412.4	4296.8	3447.7
12.5°	7048.1	7065.3	7085.0	7119.4	7062.8	6902.9	6526.3	5871.7	5010.4	4882.5	3821.8
15°	7441.8	7446.7	7520.6	7653.4	7700.2	7616.5	7274.5	6541.1	5601.0	5490.3	4252.5
17.5°	7559.9	7569.8	7695.3	7938.9	8185.0	8231.8	7973.4	7215.4	6181.8	6063.7	4670.8
20°	7808.5	7830.6	7924.1	8138.2	8448.3	8699.3	8598.4	7897.1	6762.6	6607.6	5099.0
22.5°	8591.1	8603.4	8571.4	8598.4	8758.4	9048.8	9110.3	8556.6	7358.1	7193.3	5561.7
25°	9937.2	9942.1	9718.1	9506.5	9385.9	9440.1	9575.4	9164.4	7948.8	7786.3	5992.3
27.5°	11335.0	11352.2	11084.0	10724.7	10294.0	10047.9	10008.5	9720.6	8544.3	8364.6	6418.1
30°	12651.6	12651.6	12368.6	11930.5	11354.7	10874.8	10591.8	10281.7	9181.7	8984.8	6853.6
32.5°	13835.3	13825.4	13463.7	12988.7	12420.2	11893.6	11298.1	10867.4	9890.4	9671.4	7355.7
35°	14812.2	14787.6	14376.7	13921.4	13313.5	12922.3	12257.8	11497.4	10658.2	10439.2	7872.5
37.5°	15550.5	15523.4	15146.9	14664.6	14101.0	13847.6	13291.4	12252.9	11467.9	11268.5	8445.9
40°	15951.6	15897.5	15636.6	15277.4	14804.9	14583.4	14352.1	13190.5	12420.2	12171.7	9122.6
42.5°	16069.8	16005.8	15833.5	15666.2	15380.7	15206.0	15454.5	14248.7	13466.1	13252.0	9895.3
45°	15720.3	15683.4	15668.6	15789.2	15840.9	15890.1	16502.9	15420.1	14620.3	14457.9	10867.4
47.5°	14878.7	14868.8	14999.3	15501.3	16047.6	16566.9	17642.3	16864.6	16116.5	15941.8	12225.8
50°	13323.4	13424.3	13788.5	14669.5	15762.2	16950.8	18707.9	18867.8	18538.1	18282.1	13997.7
52.5°	10892.0	11086.4	11903.4	13242.2	14812.2	16842.5	19200.1	20472.3	20809.5	20543.7	15267.5
55°	8546.8	8728.9	9457.3	11155.3	13249.6	16018.1	19222.2	21026.0	21761.9	21515.8	16126.4
57.5°	6366.4	6533.7	7195.7	8819.9	11123.3	14396.3	18695.6	21333.7	22891.4	22733.9	17482.3
60°	4161.4	4326.3	4924.3	6344.2	8628.0	12033.9	17398.7	21269.7	24429.5	24414.7	19148.4
62.5°	2308.3	2438.8	2871.9	3979.3	6021.9	9319.5	15361.0	20627.4	25918.3	26011.9	20521.6
65°	1181.2	1264.9	1528.2	2187.8	3644.6	6607.6	12681.1	19155.8	26607.4	26843.6	20883.3
67.5°	772.7	799.8	863.8	1136.9	1951.5	4156.5	9543.4	16795.7	25637.8	25913.4	19670.1
70°	627.5	649.7	686.6	758.0	1006.5	2207.4	6267.9	13414.4	21422.3	21609.3	15663.7
72.5°	460.2	489.7	561.1	607.8	726.0	1210.8	3260.7	8805.2	14711.3	15041.1	9843.7
75°	339.6	356.8	415.9	479.9	593.1	765.3	1247.7	4629.0	7596.8	7404.9	4134.3
77.5°	204.3	216.6	265.8	307.6	423.3	477.4	435.6	1710.3	2310.8	2173.0	999.1
80°	100.9	113.2	174.7	231.3	270.7	192.0	182.1	477.4	514.3	514.3	251.0
82.5°	34.5	44.3	93.5	152.6	132.9	73.8	86.1	123.0	137.8	145.2	73.8
85°	0.0	0.0	22.1	44.3	19.7	9.8	22.1	27.1	34.5	36.9	24.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.4	9.8	9.8
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°	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1	2451.1
2.5°	2515.1	2399.4	2224.7	2067.2	1946.6	1833.4	1747.2	1678.3	1666.0	1626.7	1631.6
5°	2628.3	2419.1	2096.7	1848.1	1673.4	1555.3	1456.9	1383.0	1351.0	1319.0	1294.4
7.5°	2803.0	2500.3	2047.5	1744.8	1540.5	1358.4	1205.8	1082.8	1023.7	986.8	962.2
10°	3017.1	2613.5	2049.9	1683.3	1380.6	1102.5	893.3	758.0	694.0	674.3	671.8
12.5°	3273.0	2756.2	2069.6	1582.4	1149.2	819.5	662.0	600.5	580.8	563.5	563.5
15°	3543.7	2916.2	2069.6	1397.8	876.1	639.8	573.4	534.0	509.4	499.6	494.6
17.5°	3829.2	3066.3	2020.4	1144.3	671.8	563.5	509.4	472.5	452.8	438.0	433.1
20°	4134.3	3209.0	1897.4	876.1	575.9	504.5	452.8	415.9	396.2	381.4	381.4
22.5°	4444.4	3341.9	1698.0	674.3	509.4	447.9	398.7	364.2	344.5	329.8	329.8
25°	4732.3	3430.5	1442.1	556.2	460.2	398.7	354.4	319.9	297.8	287.9	283.0
27.5°	5000.6	3487.1	1159.1	489.7	413.4	356.8	310.1	278.1	260.9	253.5	248.6
30°	5278.7	3501.9	885.9	445.4	374.1	315.0	270.7	246.1	231.3	221.5	221.5
32.5°	5549.4	3484.7	676.8	408.5	339.6	278.1	241.2	219.0	206.7	199.3	196.9
35°	5825.0	3405.9	548.8	376.5	305.2	243.6	214.1	196.9	189.5	179.6	179.6
37.5°	6125.2	3300.1	477.4	344.5	270.7	219.0	192.0	179.6	169.8	162.4	160.0
40°	6499.3	3177.0	438.0	317.5	238.7	196.9	172.3	160.0	152.6	145.2	142.7
42.5°	6942.2	3056.5	418.4	287.9	214.1	174.7	155.0	140.3	132.9	123.0	120.6
45°	7569.8	3029.4	396.2	255.9	192.0	157.5	135.4	120.6	110.7	103.4	100.9
47.5°	8578.7	3105.7	359.3	221.5	169.8	137.8	115.7	103.4	91.1	83.7	78.7
50°	9580.3	3086.0	322.4	192.0	150.1	118.1	98.4	86.1	73.8	66.4	64.0
52.5°	10126.7	2992.5	287.9	169.8	130.4	100.9	83.7	68.9	61.5	54.1	51.7
55°	10621.3	2955.6	253.5	147.7	110.7	88.6	68.9	56.6	51.7	44.3	41.8
57.5°	11590.9	3041.7	223.9	128.0	96.0	76.3	59.1	46.8	41.8	34.5	32.0
60°	12604.8	3051.5	192.0	110.7	83.7	64.0	46.8	36.9	32.0	24.6	22.1
62.5°	13133.9	2803.0	157.5	93.5	68.9	54.1	39.4	29.5	24.6	14.8	14.8
65°	12690.9	2266.5	132.9	76.3	54.1	41.8	29.5	22.1	14.8	7.4	2.5
67.5°	11231.6	1611.9	110.7	61.5	39.4	29.5	22.1	14.8	2.5	0.0	0.0
70°	8224.4	920.4	86.1	44.3	29.5	19.7	14.8	7.4	0.0	0.0	0.0
72.5°	5054.7	492.2	64.0	29.5	22.1	14.8	12.3	4.9	0.0	0.0	0.0
75°	1917.1	236.2	39.4	19.7	17.2	12.3	7.4	2.5	0.0	0.0	0.0
77.5°	519.3	115.7	22.1	14.8	12.3	7.4	4.9	0.0	0.0	0.0	0.0
80°	135.4	54.1	14.8	9.8	7.4	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	46.8	24.6	7.4	7.4	4.9	2.5	0.0	0.0	0.0	0.0	0.0
85°	19.7	9.8	4.9	4.9	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	2.5	2.5	2.5	2.5	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)