

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: P640694

Luminaire Tested: GWS-SA5E-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640694
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-SA5E-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: 29860.8 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

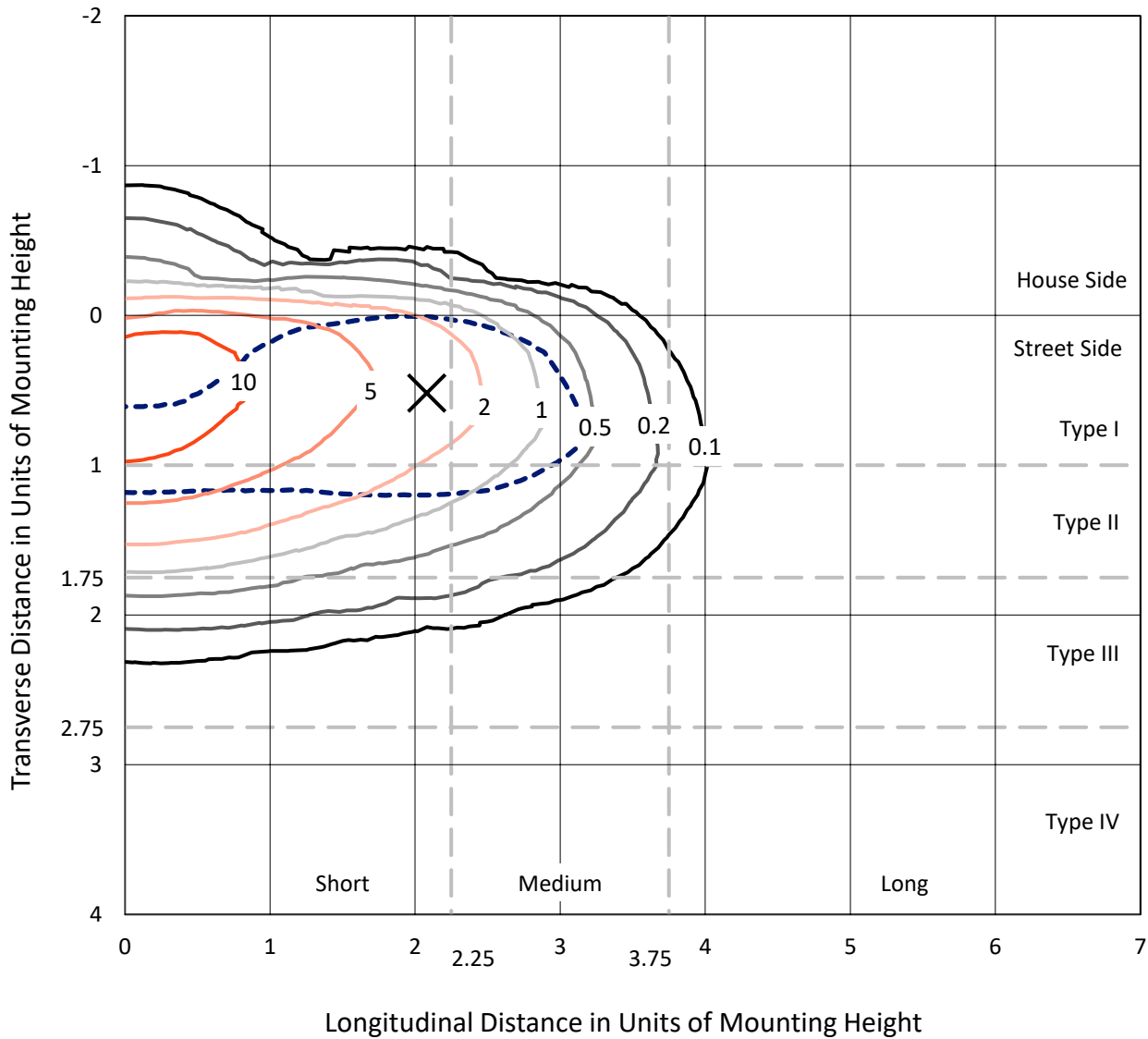
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

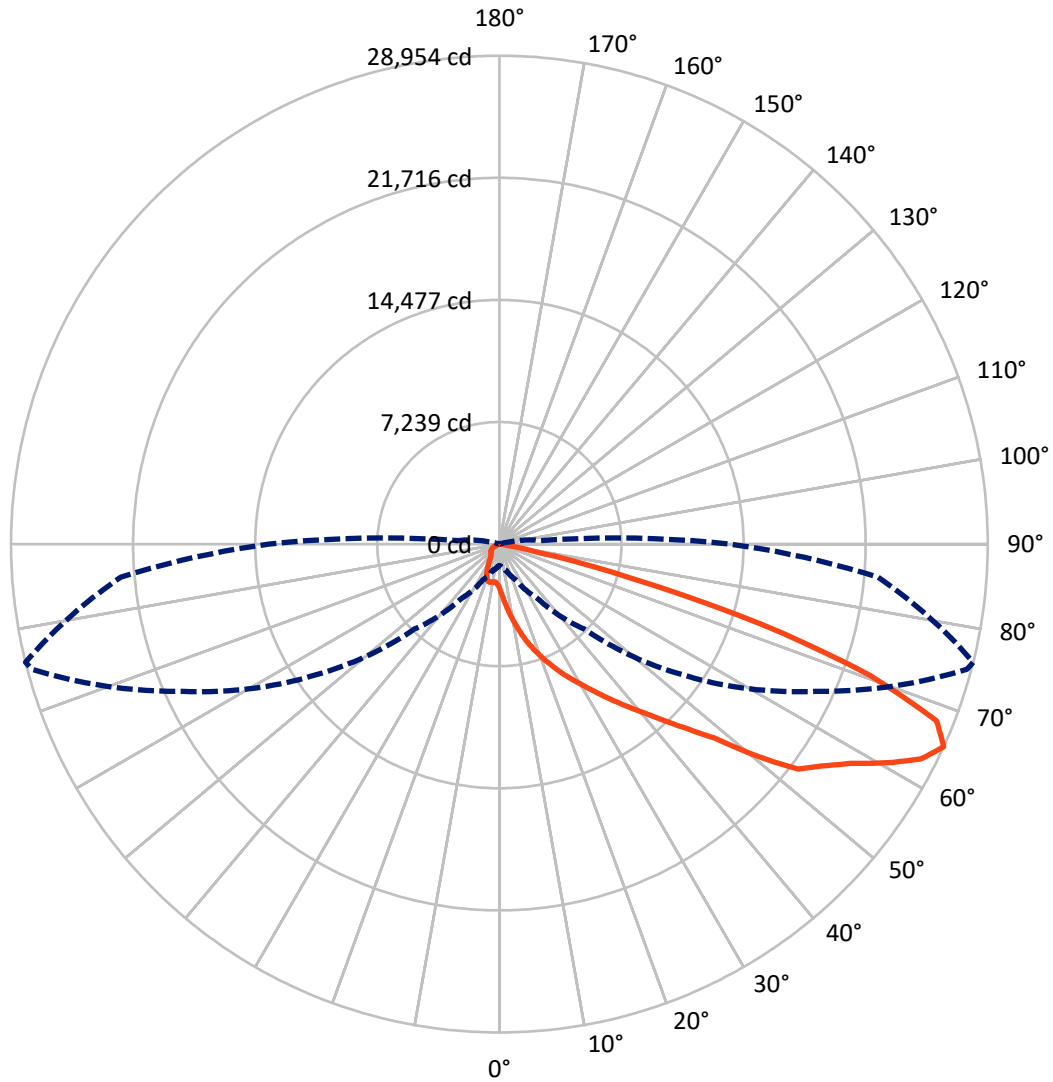
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	1651.1	0.0	1651.1
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	28209.7	0.0	28209.7
	% Fixture	94.5	0.0	94.5
Total	Lumens	29860.8	0.0	29860.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.6	1.1
10°-20°	1220.4	4.1
20°-30°	2489.8	8.3
30°-40°	4428.2	14.8
40°-50°	6546.0	21.9
50°-60°	7494.6	25.1
60°-70°	5718.1	19.1
70°-80°	1601.8	5.4
80°-90°	40.3	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°	29860.8	100.0
0°-180°	29860.8	100.0

Coefficient of Utilization



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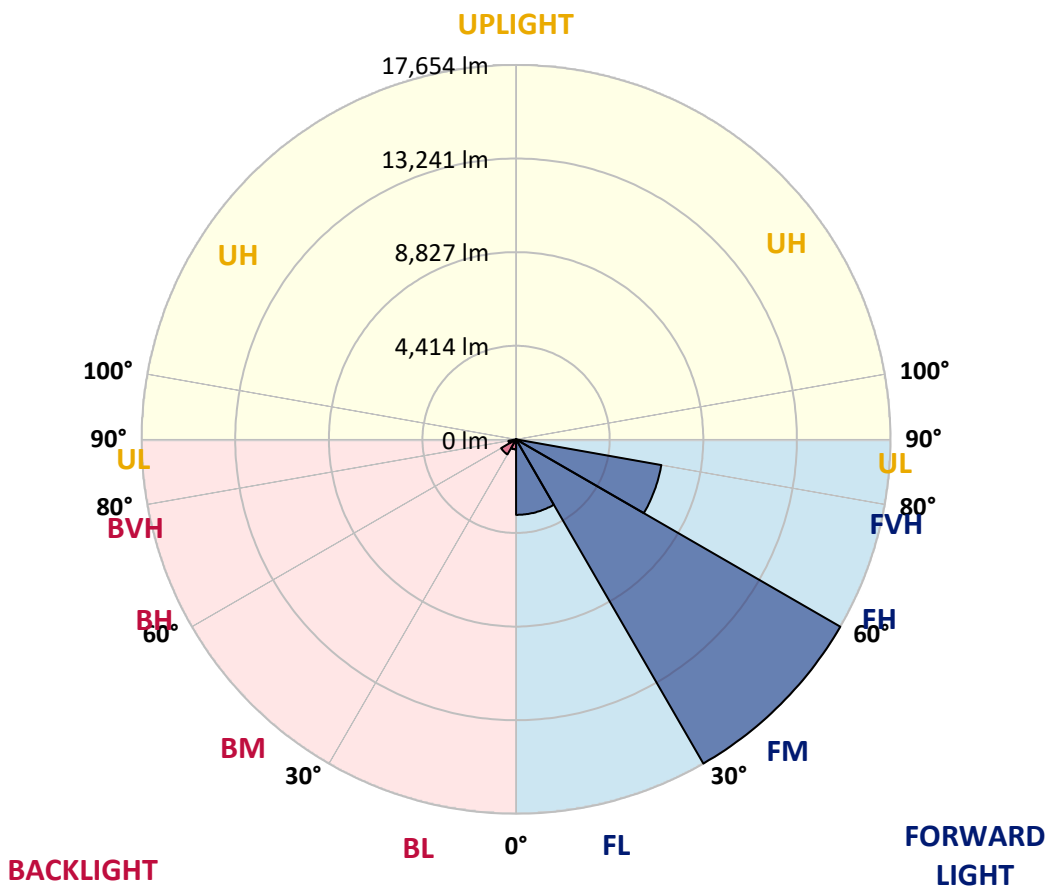
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3560.7	11.9			
FM (30°-60°)	17654.2	59.1			
FH (60°-80°)	6956.8	23.3			G3/7500
FVH (80°-90°)	38.0	0.1			G1/100
BL (0°-30°)	471.2	1.6	B1/500		
BM (30°-60°)	814.6	2.7	B1/1000		
BH (60°-80°)	363.0	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8
2.5°	4074.5	4135.5	4087.8	4008.1	3854.2	3705.5	3514.4	3251.6	3041.9	3015.4	2819.0
5°	5502.5	5497.2	5393.7	5290.2	5128.3	4873.5	4488.6	4000.2	3530.3	3490.5	3049.9
7.5°	6351.9	6359.9	6301.5	6221.9	6062.6	5799.8	5399.0	4809.8	4122.3	4042.6	3365.8
10°	7066.0	7063.3	7020.9	6983.7	6840.4	6665.2	6235.2	5587.5	4759.3	4634.6	3718.8
12.5°	7602.2	7620.7	7642.0	7679.1	7618.1	7445.6	7039.4	6333.4	5404.3	5266.3	4122.3
15°	8026.9	8032.2	8111.8	8255.1	8305.6	8215.3	7846.4	7055.4	6041.4	5921.9	4586.8
17.5°	8154.3	8164.9	8300.3	8563.1	8828.5	8878.9	8600.2	7782.7	6667.8	6540.4	5038.0
20°	8422.4	8446.3	8547.1	8778.1	9112.5	9383.3	9274.4	8517.9	7294.3	7127.0	5499.9
22.5°	9266.5	9279.7	9245.2	9274.4	9447.0	9760.2	9826.5	9229.3	7936.6	7758.8	5998.9
25°	10718.4	10723.7	10482.2	10253.9	10123.8	10182.2	10328.2	9884.9	8573.7	8398.5	6463.4
27.5°	12226.1	12244.7	11955.4	11567.8	11103.3	10837.9	10795.4	10484.8	9216.0	9022.3	6922.6
30°	13646.2	13646.2	13341.0	12868.5	12247.3	11729.7	11424.5	11090.0	9903.5	9691.2	7392.5
32.5°	14923.0	14912.3	14522.2	14009.9	13396.7	12828.7	12186.3	11721.8	10668.0	10431.7	7934.0
35°	15976.8	15950.2	15506.9	15015.9	14360.2	13938.2	13221.5	12401.3	11496.2	11259.9	8491.4
37.5°	16773.1	16743.9	16337.8	15817.5	15209.6	14936.2	14336.3	13216.2	12369.4	12154.4	9109.9
40°	17205.7	17147.3	16866.0	16478.4	15968.8	15729.9	15480.4	14227.5	13396.7	13128.6	9839.8
42.5°	17333.2	17264.1	17078.3	16897.8	16589.9	16401.5	16669.6	15368.9	14524.8	14293.9	10673.3
45°	16956.2	16916.4	16900.5	17030.6	17086.3	17139.4	17800.3	16632.4	15769.7	15594.5	11721.8
47.5°	16048.4	16037.8	16178.5	16720.0	17309.3	17869.3	19029.3	18190.5	17383.6	17195.1	13187.0
50°	14370.9	14479.7	14872.5	15822.8	17001.4	18283.4	20178.7	20351.2	19995.5	19719.4	15098.2
52.5°	11748.3	11958.0	12839.3	14283.3	15976.8	18166.6	20709.5	22081.8	22445.5	22158.8	16467.8
55°	9218.7	9415.1	10200.8	12032.3	14291.2	17277.4	20733.4	22679.1	23472.7	23207.3	17394.2
57.5°	6866.9	7047.4	7761.4	9513.3	11997.8	15528.2	20165.4	23010.9	24691.1	24521.2	18856.8
60°	4488.6	4666.4	5311.4	6843.0	9306.3	12980.0	18766.5	22941.9	26350.1	26334.2	20653.8
62.5°	2489.8	2630.5	3097.7	4292.1	6495.3	10052.2	16568.7	22249.1	27956.0	28056.9	22134.9
65°	1274.1	1364.4	1648.4	2359.8	3931.1	7127.0	13678.1	20661.8	28699.2	28954.1	22525.1
67.5°	833.5	862.7	931.7	1226.3	2104.9	4483.3	10293.7	18116.2	27653.4	27950.7	21216.5
70°	676.9	700.8	740.6	817.6	1085.6	2381.0	6760.7	14469.1	23106.4	23308.2	16895.2
72.5°	496.4	528.2	605.2	655.6	783.0	1306.0	3517.1	9497.4	15867.9	16223.6	10617.6
75°	366.3	384.9	448.6	517.6	639.7	825.5	1345.8	4992.9	8194.1	7987.1	4459.4
77.5°	220.3	233.6	286.7	331.8	456.6	515.0	469.8	1844.8	2492.5	2343.8	1077.7
80°	108.8	122.1	188.5	249.5	292.0	207.0	196.4	515.0	554.8	554.8	270.7
82.5°	37.2	47.8	100.9	164.6	143.3	79.6	92.9	132.7	148.6	156.6	79.6
85°	0.0	0.0	23.9	47.8	21.2	10.6	23.9	29.2	37.2	39.8	26.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	8.0	10.6	10.6
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°	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8	2643.8
2.5°	2712.8	2588.0	2399.6	2229.7	2099.6	1977.5	1884.6	1810.3	1797.0	1754.6	1759.9
5°	2834.9	2609.3	2261.5	1993.4	1805.0	1677.6	1571.4	1491.8	1457.3	1422.8	1396.2
7.5°	3023.3	2696.9	2208.5	1882.0	1661.6	1465.2	1300.6	1167.9	1104.2	1064.4	1037.9
10°	3254.3	2819.0	2211.1	1815.6	1489.1	1189.2	963.5	817.6	748.5	727.3	724.6
12.5°	3530.3	2972.9	2232.3	1706.8	1239.6	883.9	714.0	647.7	626.4	607.9	607.9
15°	3822.3	3145.4	2232.3	1507.7	945.0	690.1	618.5	576.0	549.5	538.8	533.5
17.5°	4130.2	3307.4	2179.3	1234.3	724.6	607.9	549.5	509.6	488.4	472.5	467.2
20°	4459.4	3461.3	2046.5	945.0	621.1	544.1	488.4	448.6	427.4	411.4	411.4
22.5°	4793.8	3604.7	1831.5	727.3	549.5	483.1	430.0	392.8	371.6	355.7	355.7
25°	5104.4	3700.2	1555.5	599.9	496.4	430.0	382.2	345.1	321.2	310.6	305.3
27.5°	5393.7	3761.3	1250.2	528.2	445.9	384.9	334.5	299.9	281.4	273.4	268.1
30°	5693.7	3777.2	955.6	480.4	403.5	339.8	292.0	265.4	249.5	238.9	238.9
32.5°	5985.6	3758.6	730.0	440.6	366.3	299.9	260.1	236.2	223.0	215.0	212.4
35°	6282.9	3673.7	591.9	406.1	329.1	262.8	230.9	212.4	204.4	193.8	193.8
37.5°	6606.8	3559.5	515.0	371.6	292.0	236.2	207.0	193.8	183.2	175.2	172.5
40°	7010.2	3426.8	472.5	342.4	257.5	212.4	185.8	172.5	164.6	156.6	154.0
42.5°	7488.0	3296.7	451.2	310.6	230.9	188.5	167.2	151.3	143.3	132.7	130.1
45°	8164.9	3267.6	427.4	276.1	207.0	169.9	146.0	130.1	119.4	111.5	108.8
47.5°	9253.2	3349.8	387.5	238.9	183.2	148.6	124.8	111.5	98.2	90.2	84.9
50°	10333.5	3328.6	347.7	207.0	161.9	127.4	106.2	92.9	79.6	71.7	69.0
52.5°	10922.8	3227.7	310.6	183.2	140.7	108.8	90.2	74.3	66.4	58.4	55.7
55°	11456.3	3187.9	273.4	159.3	119.4	95.6	74.3	61.1	55.7	47.8	45.1
57.5°	12502.2	3280.8	241.5	138.0	103.5	82.3	63.7	50.4	45.1	37.2	34.5
60°	13595.8	3291.4	207.0	119.4	90.2	69.0	50.4	39.8	34.5	26.5	23.9
62.5°	14166.5	3023.3	169.9	100.9	74.3	58.4	42.5	31.9	26.5	15.9	15.9
65°	13688.7	2444.7	143.3	82.3	58.4	45.1	31.9	23.9	15.9	8.0	2.7
67.5°	12114.6	1738.6	119.4	66.4	42.5	31.9	23.9	15.9	2.7	0.0	0.0
70°	8871.0	992.7	92.9	47.8	31.9	21.2	15.9	8.0	0.0	0.0	0.0
72.5°	5452.1	530.9	69.0	31.9	23.9	15.9	13.3	5.3	0.0	0.0	0.0
75°	2067.8	254.8	42.5	21.2	18.6	13.3	8.0	2.7	0.0	0.0	0.0
77.5°	560.1	124.8	23.9	15.9	13.3	8.0	5.3	0.0	0.0	0.0	0.0
80°	146.0	58.4	15.9	10.6	8.0	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	50.4	26.5	8.0	8.0	5.3	2.7	0.0	0.0	0.0	0.0	0.0
85°	21.2	10.6	5.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	2.7	2.7	2.7	2.7	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)