

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: P643825

Luminaire Tested: GWS-SA6F-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-760-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37612.4 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

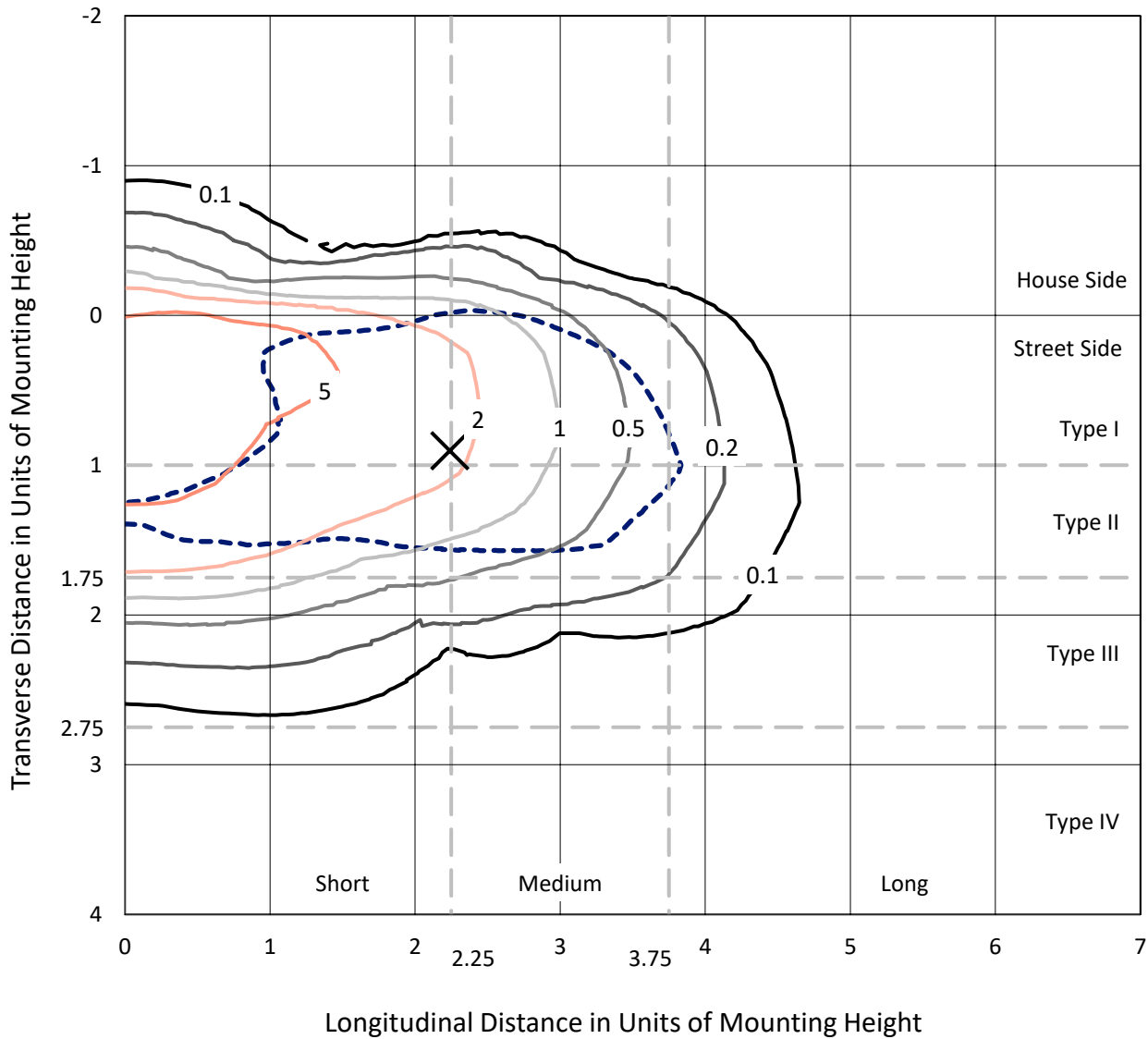
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

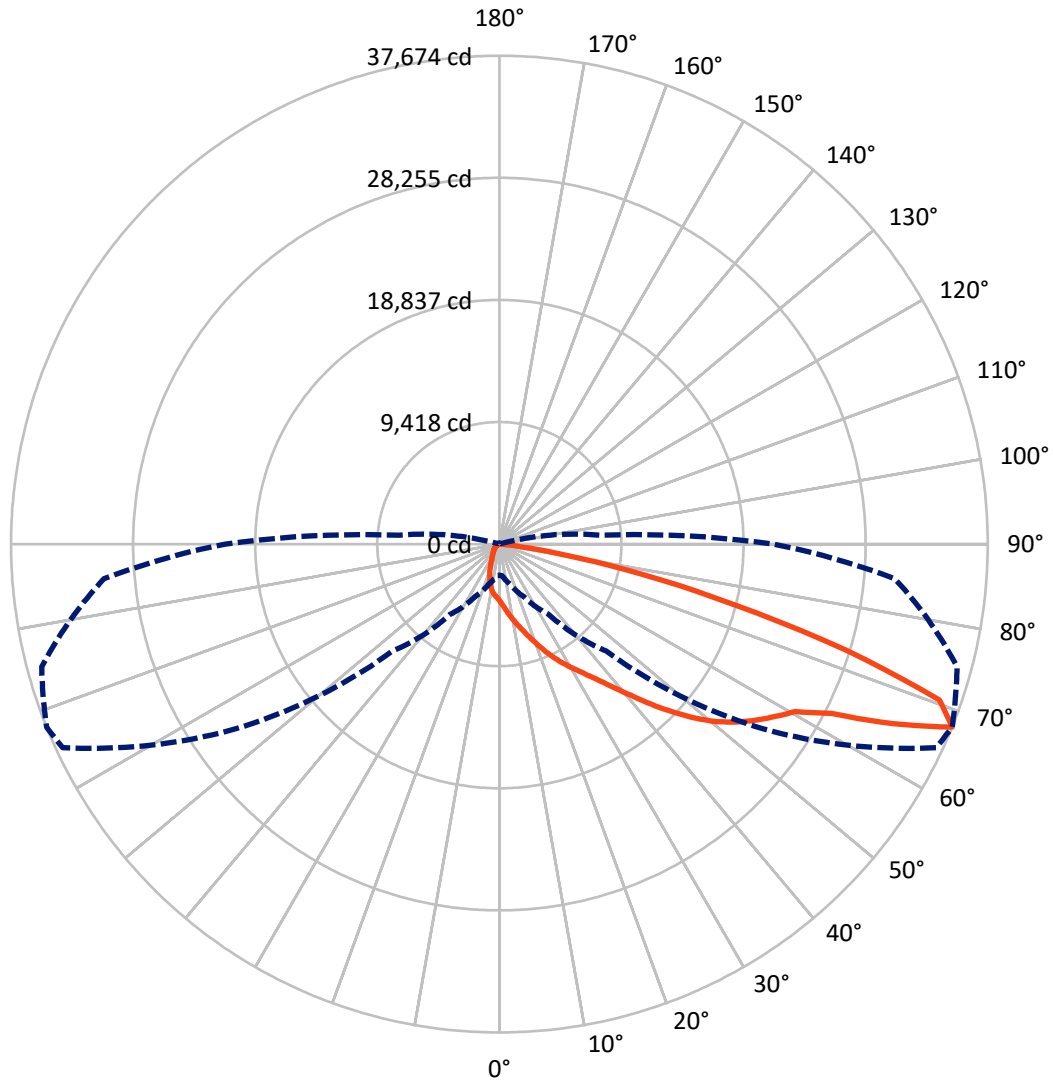
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2716.1	0.0	2716.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	34896.3	0.0	34896.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	37612.4	0.0	37612.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	1.1
10°-20°	1225.9	3.3
20°-30°	2106.8	5.6
30°-40°	3662.9	9.7
40°-50°	6391.4	17.0
50°-60°	9639.8	25.6
60°-70°	9666.2	25.7
70°-80°	4264.7	11.3
80°-90°	227.8	0.6
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°	37612.4	100.0
0°-180°	37612.4	100.0

Coefficient of Utilization



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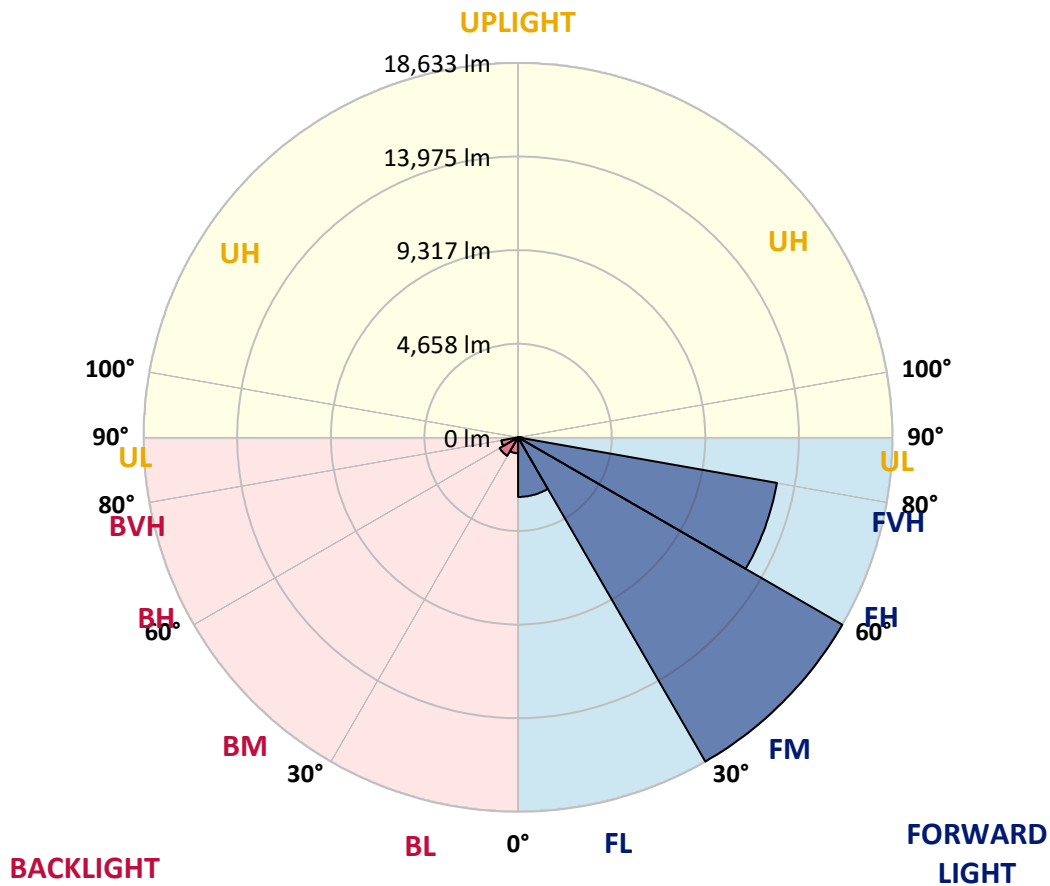
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2965.0	7.9			
FM (30°-60°)	18633.1	49.5			
FH (60°-80°)	13083.3	34.8			G5
FVH (80°-90°)	215.0	0.6			G2/225
BL (0°-30°)	794.6	2.1	B2/1000		
BM (30°-60°)	1061.0	2.8	B2/2500		
BH (60°-80°)	847.6	2.3	B2/1000		G2/1000
BVH (80°-90°)	12.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1
2.5°	5097.0	5129.4	5097.0	5104.2	5010.7	4967.5	4873.9	4744.3	4711.9	4629.1	4503.1
5°	5719.8	5748.6	5716.2	5709.0	5601.0	5521.8	5367.0	5143.8	5079.1	4917.1	4668.7
7.5°	6058.1	6076.1	6086.9	6104.9	6065.3	6000.6	5860.2	5583.0	5514.6	5251.8	4902.7
10°	6094.1	6108.5	6162.5	6270.5	6349.7	6389.3	6310.1	6054.5	5946.6	5691.0	5190.6
12.5°	5993.4	6014.9	6101.3	6281.3	6500.9	6702.5	6752.9	6529.7	6432.5	6104.9	5529.0
15°	5860.2	5878.2	5997.0	6241.7	6572.9	6943.6	7152.4	7055.2	6947.2	6605.3	5903.4
17.5°	5655.0	5680.2	5845.8	6176.9	6605.3	7134.4	7584.4	7616.8	7541.2	7170.4	6317.3
20°	5539.8	5557.8	5705.4	6047.3	6583.7	7274.8	7987.5	8293.5	8210.7	7822.0	6792.5
22.5°	5637.0	5651.4	5748.6	6014.9	6511.7	7354.0	8361.9	8970.2	8923.4	8520.3	7292.8
25°	6148.1	6194.9	6137.3	6184.1	6544.1	7397.2	8664.3	9647.0	9657.8	9251.0	7811.2
27.5°	7184.8	7123.6	6986.8	6752.9	6796.1	7512.4	8923.4	10284.1	10377.7	9963.7	8271.9
30°	8239.5	8203.5	8120.7	7757.2	7454.8	7768.0	9143.0	10935.6	11083.2	10665.6	8682.3
32.5°	9423.8	9459.8	9312.2	8876.6	8361.9	8286.3	9369.8	11554.8	11831.9	11461.2	9164.6
35°	10838.4	10849.2	10557.7	10075.3	9492.2	9143.0	9776.5	12238.7	12749.8	12476.3	9808.9
37.5°	12217.1	12281.9	12123.5	11364.0	10845.6	10208.5	10449.7	13117.0	13836.9	13728.9	10618.9
40°	13437.3	13538.1	13487.7	12753.4	12073.1	11536.8	11493.6	14146.5	15150.8	15273.1	11687.9
42.5°	14409.2	14474.0	14513.6	13991.7	13390.6	13088.2	12782.2	15341.5	16702.2	17202.5	12998.2
45°	15435.1	15456.7	15539.5	15186.8	14661.2	14686.4	14304.9	16792.2	18336.4	19340.7	14502.8
47.5°	16741.8	16813.8	16774.2	16403.4	15928.3	16212.6	15877.9	18286.0	19949.0	21622.9	16043.5
50°	18332.8	18408.4	18372.4	17940.5	17411.3	17530.1	17321.3	19736.7	21504.1	23775.4	17324.9
52.5°	19153.5	19214.7	19661.1	19855.5	19578.3	18822.4	18552.4	21331.3	22817.9	25546.4	18502.0
55°	18757.6	18800.8	19772.7	20593.4	21608.5	20852.5	19790.7	22562.4	23977.0	26928.7	19376.7
57.5°	17116.2	17350.1	18671.2	20060.6	22195.2	22857.5	21799.2	23901.4	25092.9	27889.8	20237.0
60°	13750.5	13739.7	15633.1	18127.6	21050.5	23408.3	24635.7	25712.0	26212.4	28627.7	21388.9
62.5°	7598.8	7667.2	10186.9	13473.3	17868.5	21982.8	26763.1	28840.1	28764.5	29916.4	23192.3
65°	3783.2	3920.0	5287.8	7717.6	11889.5	18167.2	27130.3	33613.2	33397.2	32950.8	26917.9
67.5°	2400.9	2454.9	3210.9	4485.1	6608.9	11677.1	24844.5	37173.2	37673.5	36550.5	30614.7
70°	1555.0	1645.0	2231.8	3066.9	3988.4	6018.5	18199.6	34865.8	36014.1	36154.5	28310.9
72.5°	845.9	910.7	1425.4	2188.6	2879.7	3009.3	10222.9	26165.6	28012.2	30668.7	22148.4
75°	482.3	529.1	781.1	1486.6	2113.0	1832.2	4531.9	17515.7	18692.8	21918.0	15870.7
77.5°	291.6	331.2	439.2	723.5	1324.7	1223.9	1713.4	10662.0	11410.8	13077.4	8329.5
80°	133.2	158.4	277.2	399.6	723.5	579.5	655.1	4971.1	5133.0	5367.0	2757.3
82.5°	61.2	72.0	126.0	237.6	410.4	334.8	252.0	1148.3	1616.2	1529.8	701.9
85°	7.2	7.2	46.8	97.2	115.2	86.4	104.4	259.2	327.6	460.8	201.6
87.5°	0.0	0.0	3.6	3.6	7.2	10.8	21.6	32.4	46.8	75.6	50.4
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°	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1	4377.1
2.5°	4445.5	4344.7	4254.7	4121.6	4031.6	3930.8	3862.4	3779.6	3747.2	3722.0	3686.0
5°	4546.3	4384.3	4164.7	3920.0	3718.4	3527.6	3351.2	3236.1	3135.3	3120.9	3070.5
7.5°	4711.9	4470.7	4100.0	3700.4	3358.4	3041.7	2793.3	2591.7	2490.9	2458.5	2400.9
10°	4931.5	4600.3	4002.8	3390.8	2897.7	2519.7	2239.0	2012.2	1853.8	1796.2	1753.0
12.5°	5176.2	4719.1	3848.0	3009.3	2447.7	2015.8	1659.4	1418.2	1317.5	1281.5	1249.1
15°	5457.0	4830.7	3603.2	2627.7	2008.6	1483.0	1231.1	1126.7	1083.5	1072.7	1061.9
17.5°	5727.0	4902.7	3311.6	2231.8	1544.2	1151.9	1033.1	993.5	982.7	971.9	964.7
20°	6032.9	4953.1	2969.7	1857.4	1198.7	975.5	917.9	889.1	867.5	845.9	842.3
22.5°	6346.1	4953.1	2598.9	1490.2	1004.3	874.7	809.9	755.9	716.3	694.7	687.5
25°	6644.9	4884.7	2231.8	1191.5	885.5	777.5	694.7	633.5	579.5	554.3	547.1
27.5°	6857.3	4708.3	1911.4	1007.9	802.7	691.1	590.3	521.9	478.7	453.6	450.0
30°	6990.4	4445.5	1616.2	899.9	730.7	601.1	500.3	442.8	410.4	392.4	385.2
32.5°	7091.2	4121.6	1353.5	824.3	662.3	521.9	435.6	388.8	360.0	345.6	342.0
35°	7292.8	3815.6	1159.1	755.9	590.3	457.2	381.6	345.6	324.0	306.0	302.4
37.5°	7573.6	3560.0	1004.3	694.7	521.9	406.8	345.6	313.2	295.2	277.2	273.6
40°	7987.5	3398.0	889.1	633.5	460.8	367.2	316.8	288.0	262.8	244.8	241.2
42.5°	8624.7	3322.4	813.5	572.3	406.8	331.2	291.6	255.6	230.4	212.4	208.8
45°	9384.2	3362.0	748.7	511.1	370.8	306.0	259.2	223.2	198.0	180.0	176.4
47.5°	10197.7	3502.4	694.7	453.6	334.8	280.8	230.4	190.8	169.2	151.2	147.6
50°	11047.2	3732.8	647.9	399.6	306.0	252.0	198.0	165.6	144.0	129.6	126.0
52.5°	11785.1	4046.0	601.1	360.0	280.8	223.2	172.8	144.0	122.4	108.0	104.4
55°	12490.7	4341.1	565.1	324.0	252.0	194.4	151.2	122.4	104.4	90.0	86.4
57.5°	13257.4	4654.3	521.9	291.6	226.8	172.8	133.2	104.4	90.0	75.6	72.0
60°	14373.2	5118.6	457.2	266.4	198.0	151.2	115.2	93.6	79.2	61.2	57.6
62.5°	15982.3	5964.6	385.2	230.4	169.2	129.6	97.2	79.2	64.8	50.4	43.2
65°	18991.5	7404.4	316.8	190.8	136.8	108.0	82.8	64.8	50.4	36.0	32.4
67.5°	21158.5	7778.8	255.6	154.8	111.6	82.8	68.4	50.4	36.0	25.2	21.6
70°	18498.4	5586.6	198.0	126.0	93.6	64.8	54.0	39.6	25.2	18.0	14.4
72.5°	13937.7	3650.0	147.6	97.2	72.0	54.0	39.6	32.4	21.6	14.4	10.8
75°	9823.3	2109.4	108.0	72.0	50.4	39.6	32.4	25.2	18.0	10.8	10.8
77.5°	5035.9	871.1	75.6	50.4	36.0	25.2	21.6	14.4	14.4	10.8	7.2
80°	1529.8	288.0	43.2	32.4	25.2	18.0	10.8	10.8	10.8	7.2	3.6
82.5°	349.2	93.6	25.2	25.2	18.0	14.4	10.8	3.6	3.6	0.0	0.0
85°	90.0	28.8	21.6	18.0	18.0	14.4	7.2	3.6	0.0	0.0	0.0
87.5°	32.4	18.0	18.0	18.0	14.4	10.8	7.2	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)