

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: P642725

Luminaire Tested: GWS-SA6D-740-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642725
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-SA6D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26832.5 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

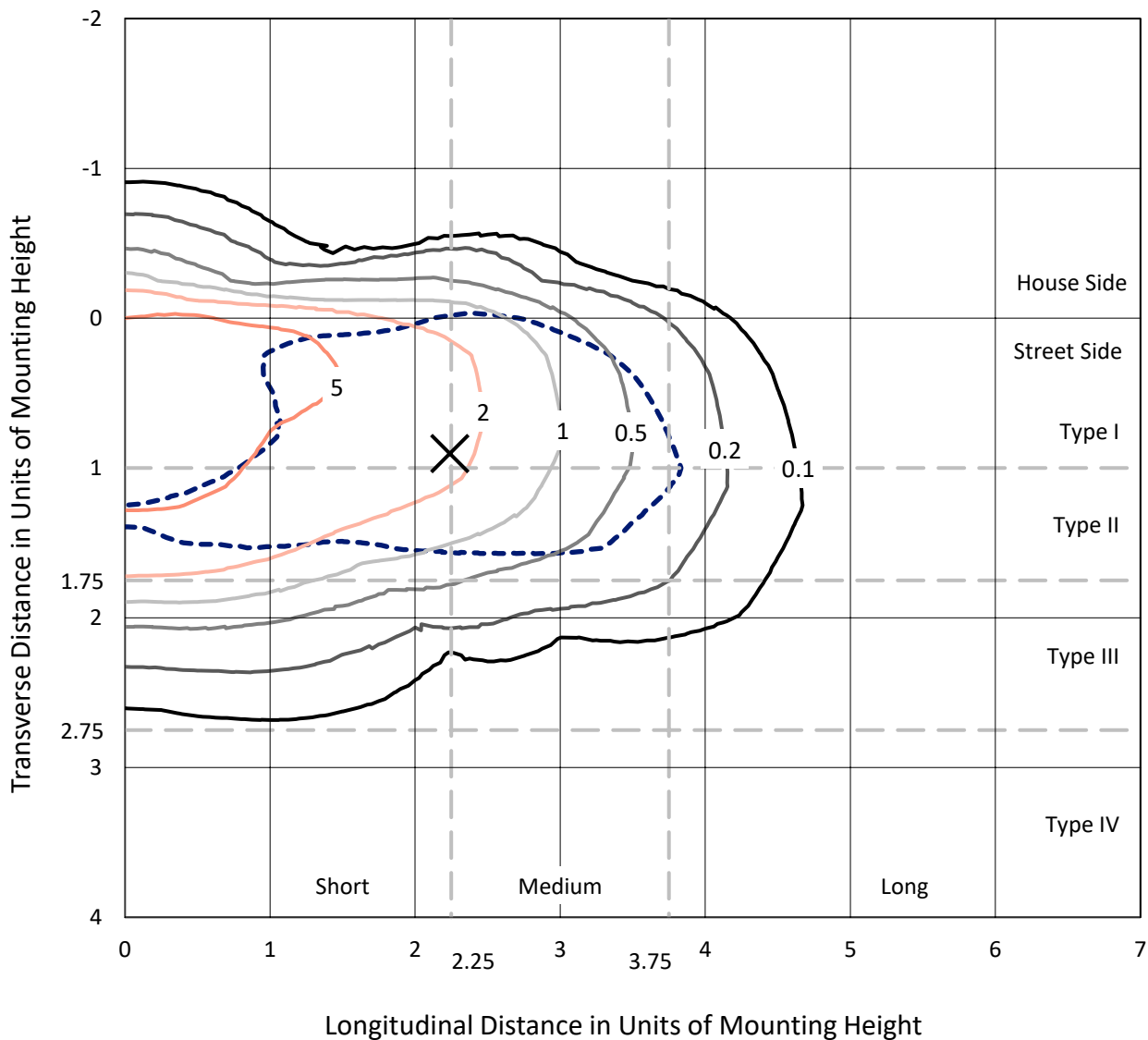
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

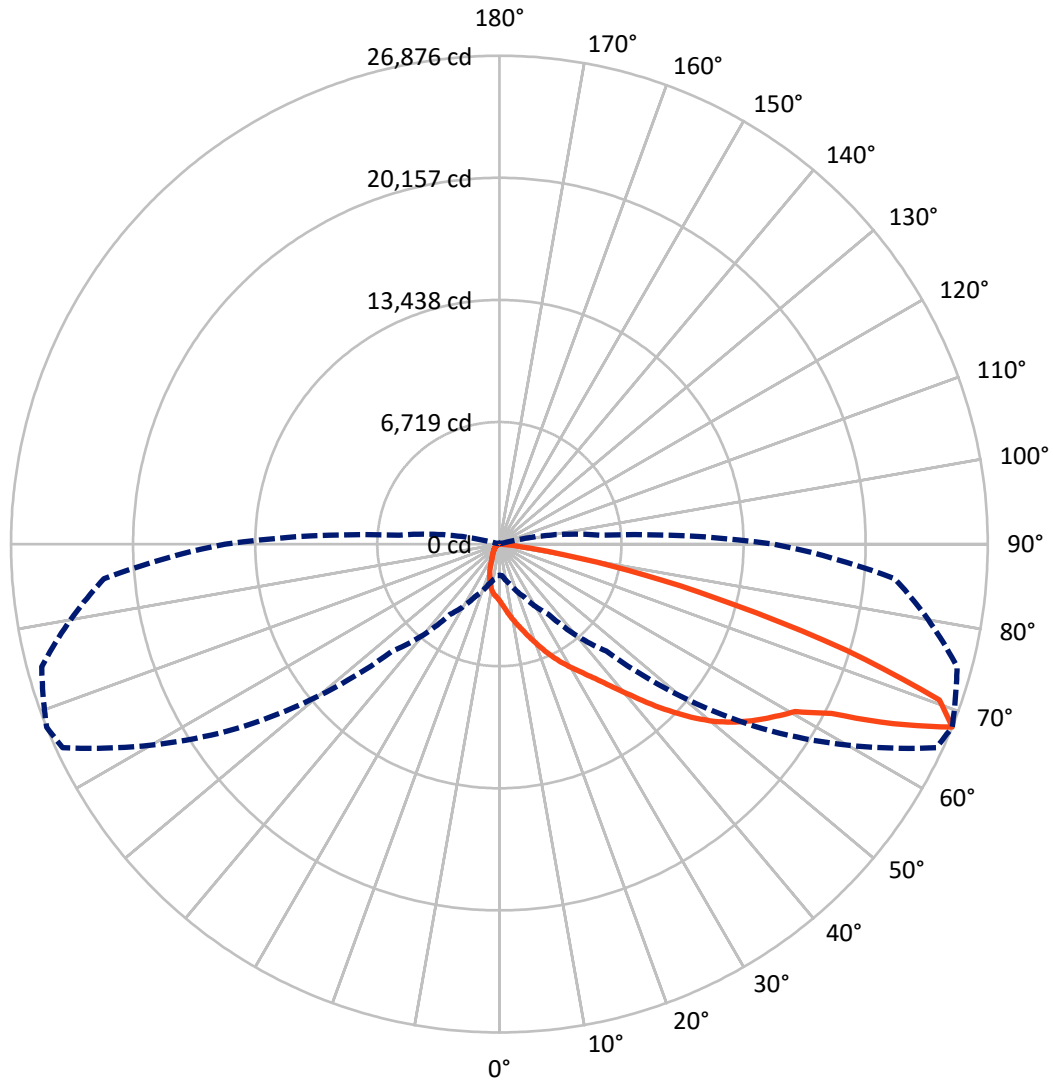
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1937.6	0.0	1937.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	24894.9	0.0	24894.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	26832.5	0.0	26832.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	1.1
10°-20°	874.6	3.3
20°-30°	1502.9	5.6
30°-40°	2613.1	9.7
40°-50°	4559.6	17.0
50°-60°	6877.0	25.6
60°-70°	6895.8	25.7
70°-80°	3042.4	11.3
80°-90°	162.5	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°	26832.5	100.0
0°-180°	26832.5	100.0

Coefficient of Utilization



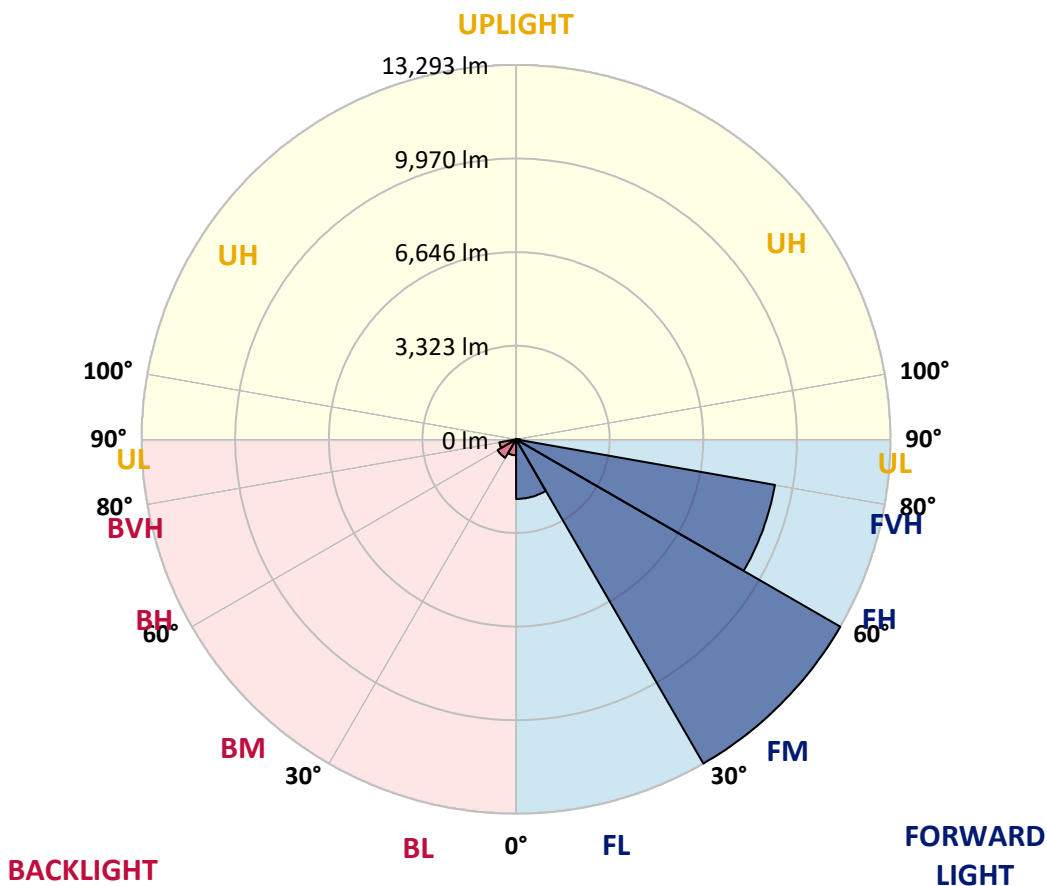
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2115.2	7.9			
FM (30°-60°)	13292.8	49.5			
FH (60°-80°)	9333.6	34.8			G4/12000
FVH (80°-90°)	153.3	0.6			G2/225
BL (0°-30°)	566.9	2.1	B2/1000		
BM (30°-60°)	756.9	2.8	B1/1000		
BH (60°-80°)	604.7	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6
2.5°	3636.2	3659.3	3636.2	3641.3	3574.6	3543.8	3477.0	3384.6	3361.4	3302.4	3212.5
5°	4080.5	4101.0	4077.9	4072.8	3995.7	3939.2	3828.8	3669.6	3623.4	3507.8	3330.6
7.5°	4321.9	4334.7	4342.4	4355.2	4327.0	4280.8	4180.6	3982.9	3934.1	3746.6	3497.5
10°	4347.5	4357.8	4396.3	4473.4	4529.9	4558.1	4501.6	4319.3	4242.2	4059.9	3703.0
12.5°	4275.6	4291.0	4352.7	4481.1	4637.7	4781.5	4817.5	4658.3	4588.9	4355.2	3944.4
15°	4180.6	4193.5	4278.2	4452.8	4689.1	4953.6	5102.5	5033.2	4956.1	4712.2	4211.4
17.5°	4034.2	4052.2	4170.3	4406.6	4712.2	5089.7	5410.7	5433.8	5379.8	5115.3	4506.7
20°	3952.1	3964.9	4070.2	4314.1	4696.8	5189.8	5698.3	5916.5	5857.5	5580.1	4845.7
22.5°	4021.4	4031.7	4101.0	4291.0	4645.4	5246.3	5965.3	6399.3	6365.9	6078.3	5202.7
25°	4386.0	4419.4	4378.3	4411.7	4668.5	5277.1	6181.0	6882.1	6889.8	6599.6	5572.4
27.5°	5125.6	5082.0	4984.4	4817.5	4848.3	5359.3	6365.9	7336.6	7403.4	7108.1	5901.1
30°	5878.0	5852.3	5793.3	5533.9	5318.2	5541.6	6522.6	7801.4	7906.7	7608.8	6193.9
32.5°	6722.9	6748.6	6643.3	6332.6	5965.3	5911.4	6684.4	8243.1	8440.8	8176.3	6538.0
35°	7732.1	7739.8	7531.8	7187.7	6771.7	6522.6	6974.5	8731.0	9095.7	8900.5	6997.6
37.5°	8715.6	8761.8	8648.8	8107.0	7737.2	7282.7	7454.7	9357.6	9871.2	9794.1	7575.4
40°	9586.1	9658.0	9622.1	9098.2	8612.9	8230.3	8199.4	10092.0	10808.5	10895.8	8338.1
42.5°	10279.5	10325.7	10354.0	9981.6	9552.8	9337.0	9118.8	10944.6	11915.3	12272.2	9272.8
45°	11011.3	11026.8	11085.8	10834.2	10459.2	10477.2	10205.0	11979.5	13081.1	13797.6	10346.2
47.5°	11943.5	11994.9	11966.6	11702.1	11363.2	11566.0	11327.2	13045.2	14231.5	15425.6	11445.3
50°	13078.5	13132.5	13106.8	12798.6	12421.1	12505.9	12356.9	14080.0	15340.9	16961.3	12359.5
52.5°	13664.0	13707.7	14026.1	14164.8	13967.1	13427.8	13235.2	15217.6	16278.2	18224.7	13199.2
55°	13381.6	13412.4	14105.7	14691.2	15415.4	14876.1	14118.6	16095.9	17105.1	19210.8	13823.2
57.5°	12210.6	12377.5	13319.9	14311.2	15833.9	16306.4	15551.5	17051.2	17901.1	19896.4	14437.0
60°	9809.5	9801.8	11152.6	12932.2	15017.3	16699.3	17575.0	18342.8	18699.8	20422.9	15258.7
62.5°	5420.9	5469.7	7267.3	9611.8	12747.3	15682.4	19092.7	20574.4	20520.4	21342.2	16545.3
65°	2698.9	2796.5	3772.3	5505.7	8481.9	12960.4	19354.6	23979.5	23825.4	23507.0	19203.1
67.5°	1712.8	1751.3	2290.6	3199.7	4714.7	8330.4	17724.0	26519.2	26876.1	26074.9	21840.4
70°	1109.4	1173.6	1592.1	2187.9	2845.3	4293.6	12983.5	24873.1	25692.3	25792.4	20196.9
72.5°	603.5	649.7	1016.9	1561.3	2054.4	2146.8	7293.0	18666.4	19983.7	21878.9	15800.6
75°	344.1	377.5	557.2	1060.6	1507.4	1307.1	3233.0	12495.6	13335.3	15636.2	11322.1
77.5°	208.0	236.3	313.3	516.2	945.0	873.1	1222.3	7606.3	8140.4	9329.3	5942.2
80°	95.0	113.0	197.7	285.0	516.2	413.4	467.4	3546.3	3661.9	3828.8	1967.0
82.5°	43.7	51.4	89.9	169.5	292.7	238.8	179.8	819.2	1153.0	1091.4	500.7
85°	5.1	5.1	33.4	69.3	82.2	61.6	74.5	184.9	233.7	328.7	143.8
87.5°	0.0	0.0	2.6	2.6	5.1	7.7	15.4	23.1	33.4	53.9	36.0
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°	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6	3122.6
2.5°	3171.4	3099.5	3035.3	2940.3	2876.1	2804.2	2755.4	2696.3	2673.2	2655.3	2629.6
5°	3243.3	3127.8	2971.1	2796.5	2652.7	2516.6	2390.8	2308.6	2236.7	2226.4	2190.5
7.5°	3361.4	3189.4	2924.9	2639.8	2395.9	2169.9	1992.7	1848.9	1777.0	1753.9	1712.8
10°	3518.1	3281.8	2855.6	2419.0	2067.2	1797.6	1597.3	1435.5	1322.5	1281.4	1250.6
12.5°	3692.7	3366.6	2745.1	2146.8	1746.2	1438.0	1183.8	1011.8	939.9	914.2	891.1
15°	3893.0	3446.2	2570.5	1874.6	1432.9	1058.0	878.2	803.8	773.0	765.2	757.5
17.5°	4085.6	3497.5	2362.5	1592.1	1101.6	821.7	737.0	708.8	701.0	693.3	688.2
20°	4303.9	3533.5	2118.6	1325.1	855.1	695.9	654.8	634.3	618.9	603.5	600.9
22.5°	4527.3	3533.5	1854.1	1063.1	716.5	624.0	577.8	539.3	511.0	495.6	490.5
25°	4740.4	3484.7	1592.1	850.0	631.7	554.7	495.6	452.0	413.4	395.5	390.3
27.5°	4891.9	3358.9	1363.6	719.0	572.7	493.0	421.1	372.4	341.5	323.6	321.0
30°	4986.9	3171.4	1153.0	642.0	521.3	428.8	356.9	315.9	292.7	279.9	274.8
32.5°	5058.9	2940.3	965.5	588.1	472.5	372.4	310.7	277.3	256.8	246.5	244.0
35°	5202.7	2722.0	826.9	539.3	421.1	326.1	272.2	246.5	231.1	218.3	215.7
37.5°	5403.0	2539.7	716.5	495.6	372.4	290.2	246.5	223.4	210.6	197.7	195.2
40°	5698.3	2424.1	634.3	452.0	328.7	261.9	226.0	205.4	187.5	174.6	172.1
42.5°	6152.8	2370.2	580.4	408.3	290.2	236.3	208.0	182.3	164.3	151.5	148.9
45°	6694.6	2398.5	534.1	364.6	264.5	218.3	184.9	159.2	141.2	128.4	125.8
47.5°	7275.0	2498.6	495.6	323.6	238.8	200.3	164.3	136.1	120.7	107.9	105.3
50°	7881.0	2663.0	462.2	285.0	218.3	179.8	141.2	118.1	102.7	92.4	89.9
52.5°	8407.5	2886.4	428.8	256.8	200.3	159.2	123.3	102.7	87.3	77.0	74.5
55°	8910.8	3096.9	403.2	231.1	179.8	138.7	107.9	87.3	74.5	64.2	61.6
57.5°	9457.7	3320.4	372.4	208.0	161.8	123.3	95.0	74.5	64.2	53.9	51.4
60°	10253.8	3651.6	326.1	190.0	141.2	107.9	82.2	66.8	56.5	43.7	41.1
62.5°	11401.7	4255.1	274.8	164.3	120.7	92.4	69.3	56.5	46.2	36.0	30.8
65°	13548.5	5282.3	226.0	136.1	97.6	77.0	59.1	46.2	36.0	25.7	23.1
67.5°	15094.4	5549.3	182.3	110.4	79.6	59.1	48.8	36.0	25.7	18.0	15.4
70°	13196.7	3985.5	141.2	89.9	66.8	46.2	38.5	28.2	18.0	12.8	10.3
72.5°	9943.1	2603.9	105.3	69.3	51.4	38.5	28.2	23.1	15.4	10.3	7.7
75°	7007.9	1504.8	77.0	51.4	36.0	28.2	23.1	18.0	12.8	7.7	7.7
77.5°	3592.6	621.4	53.9	36.0	25.7	18.0	15.4	10.3	10.3	7.7	5.1
80°	1091.4	205.4	30.8	23.1	18.0	12.8	7.7	7.7	7.7	5.1	2.6
82.5°	249.1	66.8	18.0	18.0	12.8	10.3	7.7	2.6	2.6	0.0	0.0
85°	64.2	20.5	15.4	12.8	12.8	10.3	5.1	2.6	0.0	0.0	0.0
87.5°	23.1	12.8	12.8	12.8	10.3	7.7	5.1	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)