

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: P638875

Luminaire Tested: GWS-SA4F-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638875
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-SA4F-760-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25713.1 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

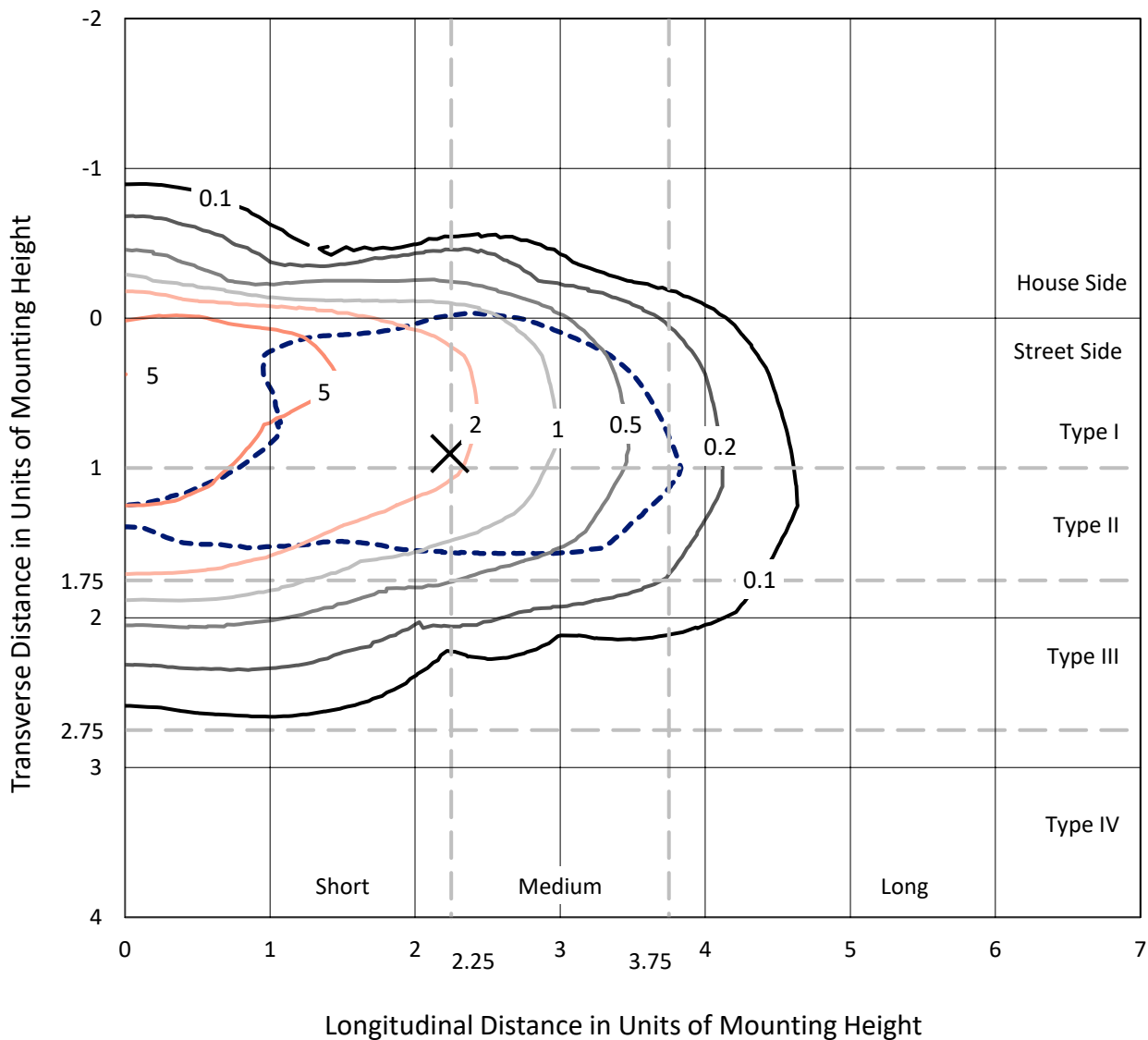
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

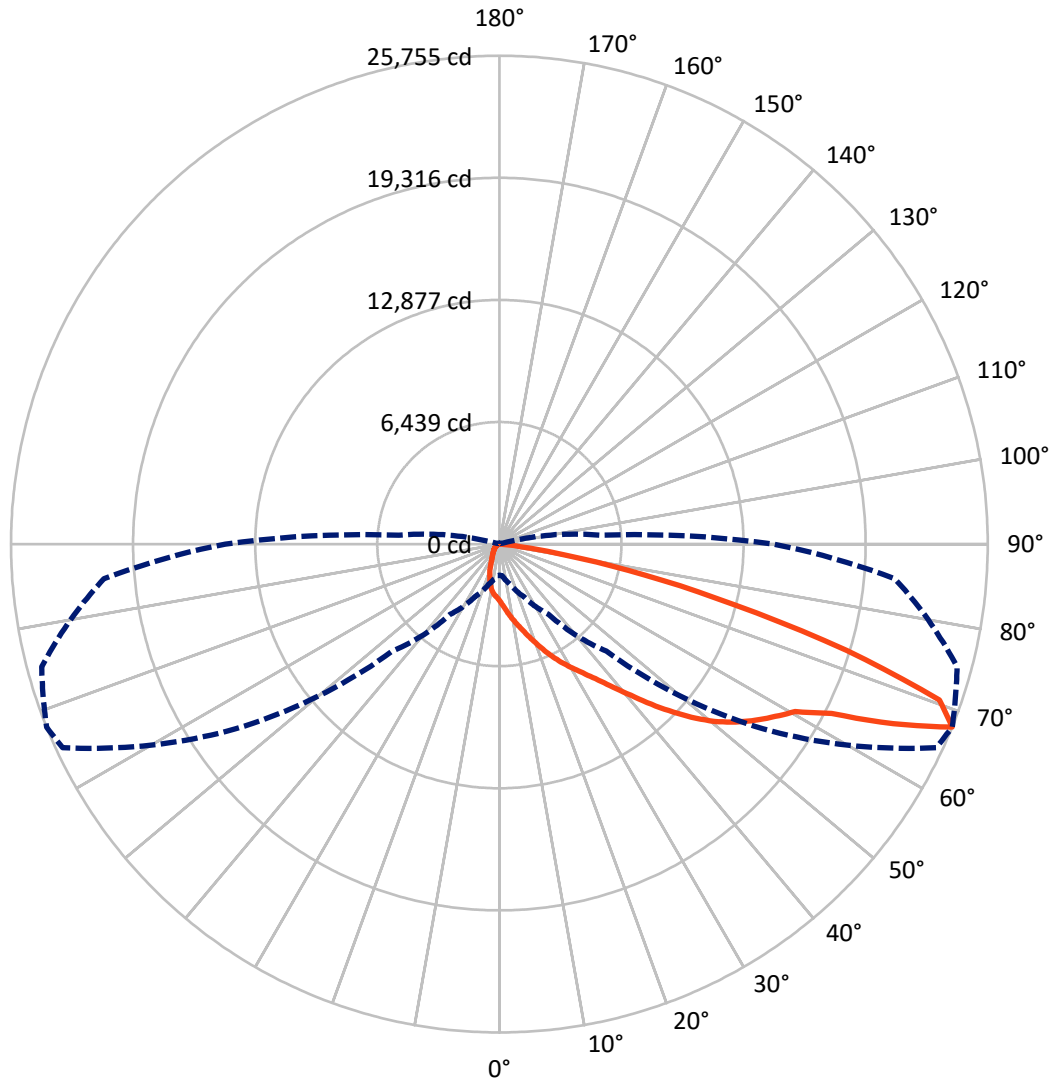
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	1856.8	0.0	1856.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23856.3	0.0	23856.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	25713.1	0.0	25713.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	1.1
10°-20°	838.1	3.3
20°-30°	1440.3	5.6
30°-40°	2504.1	9.7
40°-50°	4369.3	17.0
50°-60°	6590.1	25.6
60°-70°	6608.2	25.7
70°-80°	2915.5	11.3
80°-90°	155.8	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°	25713.1	100.0
0°-180°	25713.1	100.0

Coefficient of Utilization



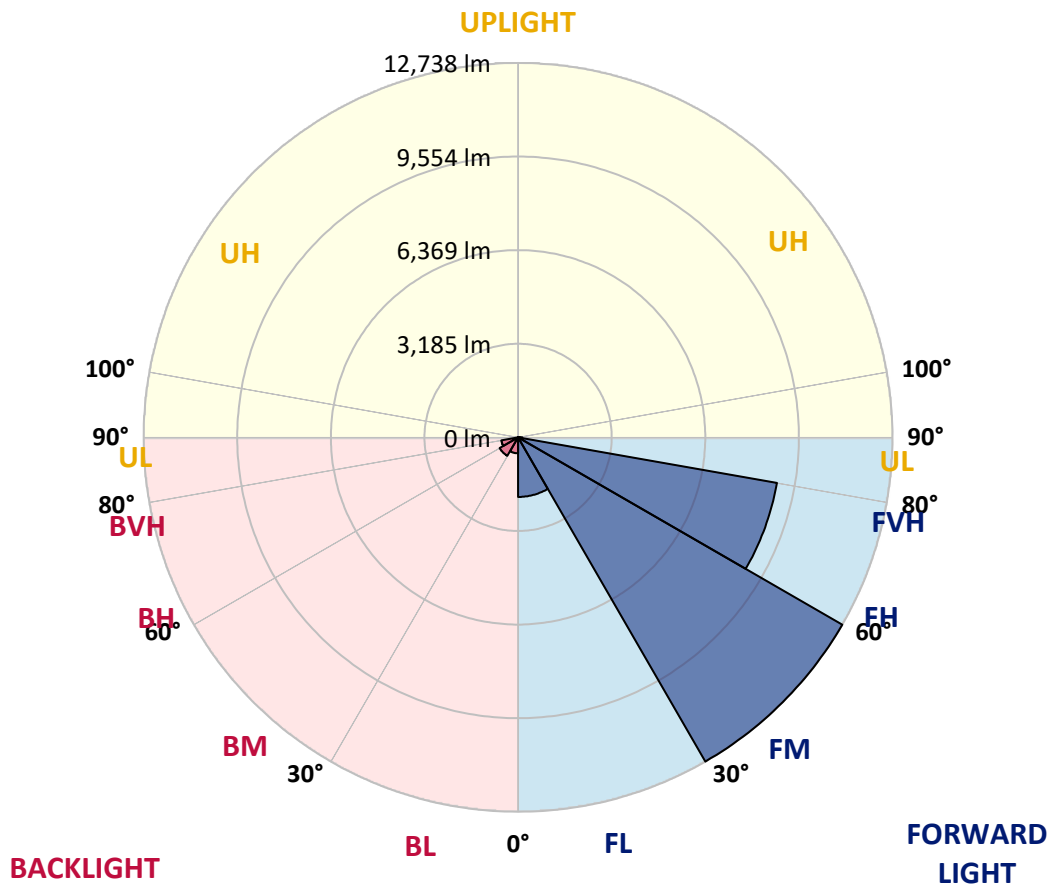
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2027.0	7.9			
FM (30°-60°)	12738.2	49.5			
FH (60°-80°)	8944.2	34.8			G4/12000
FVH (80°-90°)	146.9	0.6			G2/225
BL (0°-30°)	543.2	2.1	B2/1000		
BM (30°-60°)	725.3	2.8	B1/1000		
BH (60°-80°)	579.5	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.8	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°	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4
2.5°	3484.5	3506.7	3484.5	3489.4	3425.5	3395.9	3331.9	3243.4	3221.2	3164.6	3078.5
5°	3910.2	3929.9	3907.8	3902.9	3829.0	3774.9	3669.1	3516.5	3472.2	3361.5	3191.7
7.5°	4141.6	4153.9	4161.2	4173.5	4146.5	4102.2	4006.2	3816.7	3770.0	3590.3	3351.6
10°	4166.2	4176.0	4212.9	4286.7	4340.9	4367.9	4313.8	4139.1	4065.3	3890.5	3548.5
12.5°	4097.3	4112.0	4171.1	4294.1	4444.2	4582.0	4616.5	4463.9	4397.5	4173.5	3779.8
15°	4006.2	4018.5	4099.7	4267.1	4493.4	4746.9	4889.6	4823.2	4749.4	4515.6	4035.7
17.5°	3865.9	3883.2	3996.4	4222.8	4515.6	4877.3	5184.9	5207.1	5155.4	4901.9	4318.7
20°	3787.2	3799.5	3900.4	4134.2	4500.8	4973.3	5460.5	5669.7	5613.1	5347.4	4643.6
22.5°	3853.6	3863.5	3929.9	4112.0	4451.6	5027.4	5716.5	6132.4	6100.4	5824.7	4985.6
25°	4203.1	4235.1	4195.7	4227.7	4473.8	5057.0	5923.2	6595.0	6602.4	6324.3	5340.0
27.5°	4911.8	4870.0	4776.4	4616.5	4646.0	5135.7	6100.4	7030.5	7094.5	6811.5	5655.0
30°	5632.8	5608.2	5551.6	5303.1	5096.3	5310.4	6250.5	7476.0	7576.8	7291.4	5935.5
32.5°	6442.4	6467.0	6366.1	6068.4	5716.5	5664.8	6405.5	7899.2	8088.7	7835.2	6265.2
35°	7409.5	7416.9	7217.6	6887.8	6489.2	6250.5	6683.6	8366.8	8716.2	8529.2	6705.7
37.5°	8352.0	8396.3	8288.0	7768.8	7414.4	6978.9	7143.7	8967.2	9459.4	9385.5	7259.4
40°	9186.2	9255.1	9220.7	8718.7	8253.6	7886.9	7857.4	9671.0	10357.6	10441.2	7990.3
42.5°	9850.6	9894.9	9922.0	9565.2	9154.2	8947.5	8738.4	10488.0	11418.2	11760.2	8886.0
45°	10552.0	10566.7	10623.3	10382.2	10022.9	10040.1	9779.3	11479.7	12535.4	13222.0	9914.6
47.5°	11445.3	11494.5	11467.4	11213.9	10889.1	11083.5	10854.7	12500.9	13637.8	14782.1	10967.9
50°	12532.9	12584.6	12560.0	12264.7	11903.0	11984.2	11841.4	13492.6	14700.9	16253.7	11843.9
52.5°	13094.0	13135.8	13441.0	13573.9	13384.4	12867.6	12683.0	14582.8	15599.1	17464.4	12648.6
55°	12823.3	12852.8	13517.3	14078.3	14772.3	14255.5	13529.6	15424.4	16391.5	18409.4	13246.6
57.5°	11701.2	11861.1	12764.2	13714.1	15173.4	15626.2	14902.7	16339.8	17154.3	19066.4	13834.7
60°	9400.3	9392.9	10687.3	12392.7	14390.8	16002.7	16841.8	17577.6	17919.7	19570.9	14622.2
62.5°	5194.8	5241.5	6964.1	9210.8	12215.5	15028.2	18296.2	19716.0	19664.4	20451.8	15855.0
65°	2586.3	2679.8	3614.9	5276.0	8128.1	12419.7	18547.2	22979.1	22831.4	22526.3	18402.0
67.5°	1641.4	1678.3	2195.0	3066.2	4518.1	7982.9	16984.5	25412.8	25754.9	24987.1	20929.2
70°	1063.1	1124.6	1525.7	2096.6	2726.6	4114.5	12441.9	23835.5	24620.5	24716.4	19354.3
72.5°	578.3	622.6	974.5	1496.2	1968.7	2057.2	6988.7	17887.7	19150.1	20966.1	15141.4
75°	329.7	361.7	534.0	1016.3	1444.5	1252.6	3098.2	11974.3	12779.0	14983.9	10849.7
77.5°	199.3	226.4	300.2	494.6	905.6	836.7	1171.3	7288.9	7800.8	8940.1	5694.3
80°	91.1	108.3	189.5	273.2	494.6	396.2	447.9	3398.4	3509.1	3669.1	1885.0
82.5°	41.8	49.2	86.1	162.4	280.5	228.9	172.3	785.0	1104.9	1045.8	479.9
85°	4.9	4.9	32.0	66.4	78.7	59.1	71.4	177.2	223.9	315.0	137.8
87.5°	0.0	0.0	2.5	2.5	4.9	7.4	14.8	22.1	32.0	51.7	34.5
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°	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4	2992.4
2.5°	3039.1	2970.2	2908.7	2817.6	2756.1	2687.2	2640.5	2583.9	2561.7	2544.5	2519.9
5°	3108.0	2997.3	2847.2	2679.8	2542.0	2411.6	2291.0	2212.3	2143.4	2133.5	2099.1
7.5°	3221.2	3056.3	2802.9	2529.7	2295.9	2079.4	1909.6	1771.8	1702.9	1680.7	1641.4
10°	3371.3	3144.9	2736.4	2318.1	1981.0	1722.6	1530.6	1375.6	1267.3	1227.9	1198.4
12.5°	3538.7	3226.1	2630.6	2057.2	1673.4	1378.1	1134.4	969.6	900.7	876.1	853.9
15°	3730.6	3302.4	2463.3	1796.4	1373.1	1013.9	841.6	770.2	740.7	733.3	725.9
17.5°	3915.2	3351.6	2263.9	1525.7	1055.7	787.5	706.3	679.2	671.8	664.4	659.5
20°	4124.3	3386.1	2030.2	1269.8	819.5	666.9	627.5	607.8	593.1	578.3	575.8
22.5°	4338.4	3386.1	1776.7	1018.8	686.6	598.0	553.7	516.8	489.7	474.9	470.0
25°	4542.7	3339.3	1525.7	814.5	605.4	531.5	474.9	433.1	396.2	379.0	374.0
27.5°	4687.9	3218.7	1306.7	689.0	548.8	472.5	403.6	356.8	327.3	310.1	307.6
30°	4778.9	3039.1	1104.9	615.2	499.5	411.0	342.1	302.7	280.5	268.2	263.3
32.5°	4847.8	2817.6	925.3	563.5	452.8	356.8	297.8	265.8	246.1	236.2	233.8
35°	4985.6	2608.5	792.4	516.8	403.6	312.5	260.8	236.2	221.5	209.2	206.7
37.5°	5177.6	2433.7	686.6	474.9	356.8	278.1	236.2	214.1	201.8	189.5	187.0
40°	5460.5	2323.0	607.8	433.1	315.0	251.0	216.6	196.9	179.6	167.3	164.9
42.5°	5896.1	2271.3	556.1	391.3	278.1	226.4	199.3	174.7	157.5	145.2	142.7
45°	6415.3	2298.4	511.8	349.4	253.5	209.2	177.2	152.6	135.3	123.0	120.6
47.5°	6971.5	2394.4	474.9	310.1	228.9	191.9	157.5	130.4	115.7	103.4	100.9
50°	7552.2	2551.9	442.9	273.2	209.2	172.3	135.3	113.2	98.4	88.6	86.1
52.5°	8056.7	2766.0	411.0	246.1	191.9	152.6	118.1	98.4	83.7	73.8	71.4
55°	8539.0	2967.7	386.3	221.5	172.3	132.9	103.4	83.7	71.4	61.5	59.1
57.5°	9063.2	3181.8	356.8	199.3	155.0	118.1	91.1	71.4	61.5	51.7	49.2
60°	9826.0	3499.3	312.5	182.1	135.3	103.4	78.7	64.0	54.1	41.8	39.4
62.5°	10926.0	4077.6	263.3	157.5	115.7	88.6	66.4	54.1	44.3	34.5	29.5
65°	12983.3	5061.9	216.6	130.4	93.5	73.8	56.6	44.3	34.5	24.6	22.1
67.5°	14464.7	5317.8	174.7	105.8	76.3	56.6	46.8	34.5	24.6	17.2	14.8
70°	12646.1	3819.2	135.3	86.1	64.0	44.3	36.9	27.1	17.2	12.3	9.8
72.5°	9528.3	2495.3	100.9	66.4	49.2	36.9	27.1	22.1	14.8	9.8	7.4
75°	6715.6	1442.0	73.8	49.2	34.5	27.1	22.1	17.2	12.3	7.4	7.4
77.5°	3442.7	595.5	51.7	34.5	24.6	17.2	14.8	9.8	9.8	7.4	4.9
80°	1045.8	196.9	29.5	22.1	17.2	12.3	7.4	7.4	7.4	4.9	2.5
82.5°	238.7	64.0	17.2	17.2	12.3	9.8	7.4	2.5	2.5	0.0	0.0
85°	61.5	19.7	14.8	12.3	12.3	9.8	4.9	2.5	0.0	0.0	0.0
87.5°	22.1	12.3	12.3	12.3	9.8	7.4	4.9	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)