

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: P643507

Luminaire Tested: GWS-SA6F-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28698.6 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

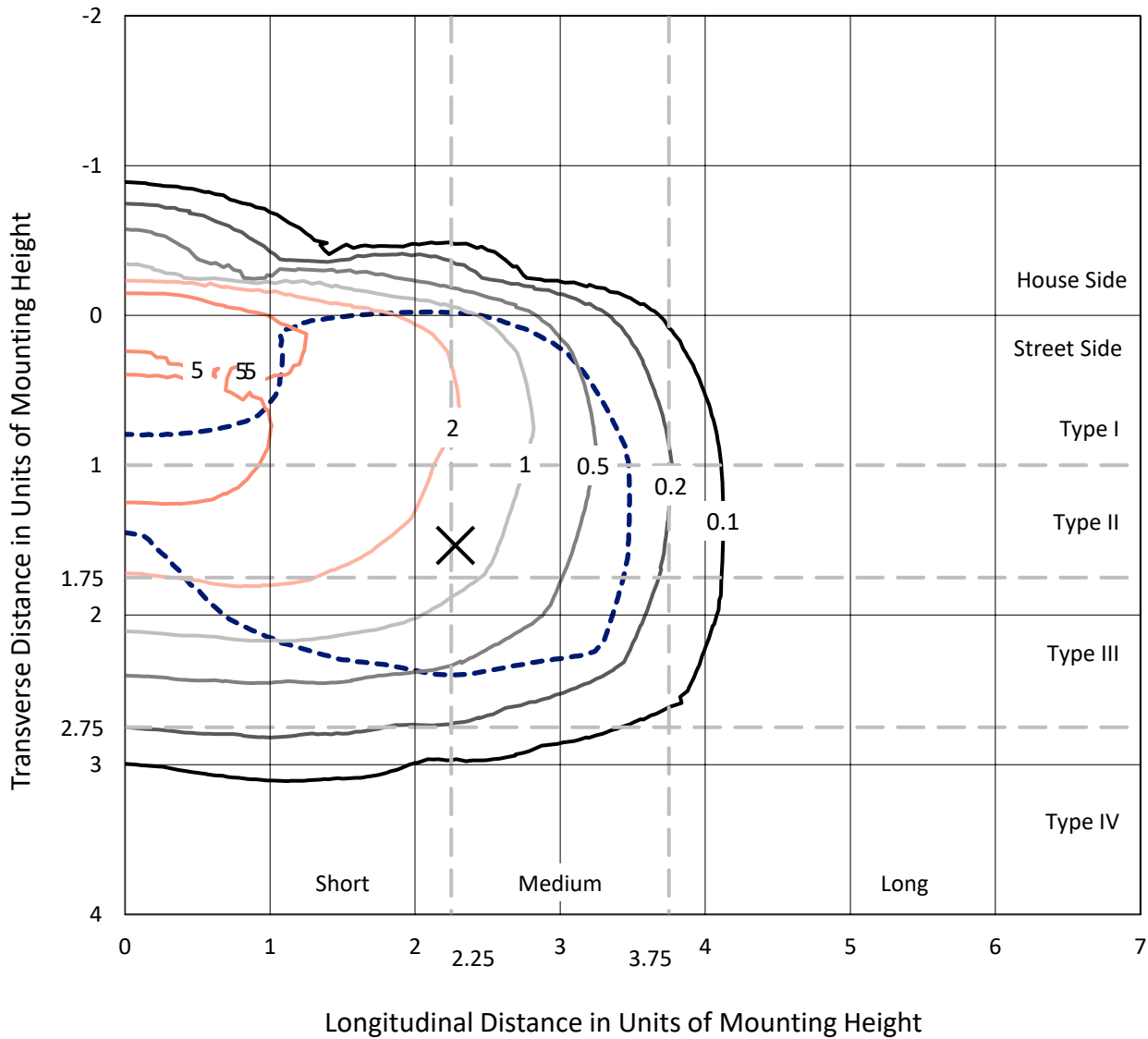
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

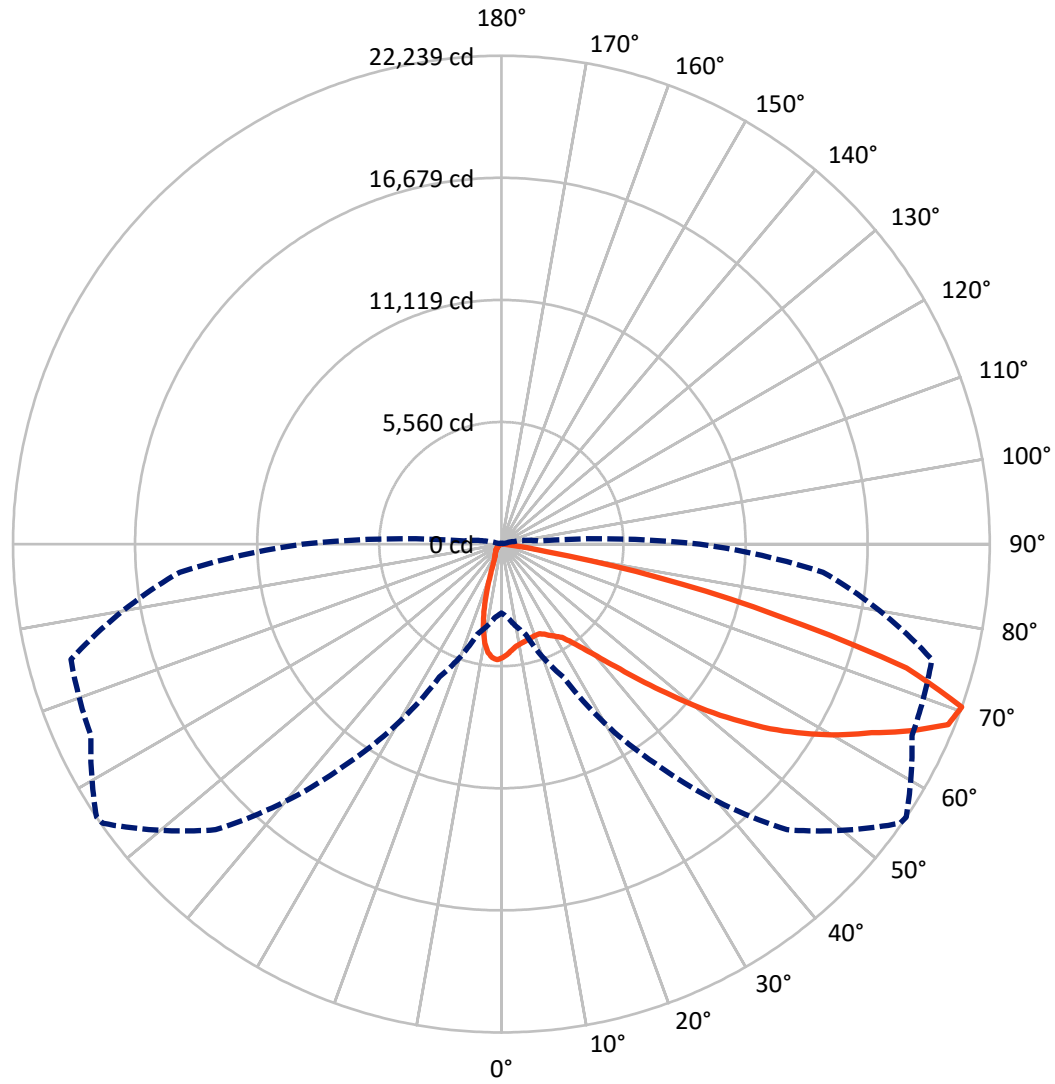
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2577.7	0.0	2577.7
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	26120.9	0.0	26120.9
	% Fixture	91.0	0.0	91.0
Total	Lumens	28698.6	0.0	28698.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.3	1.5
10°-20°	999.2	3.5
20°-30°	1582.8	5.5
30°-40°	2729.6	9.5
40°-50°	4609.3	16.1
50°-60°	6772.6	23.6
60°-70°	8029.3	28.0
70°-80°	3424.0	11.9
80°-90°	107.5	0.4
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°	28698.6	100.0
0°-180°	28698.6	100.0

Coefficient of Utilization



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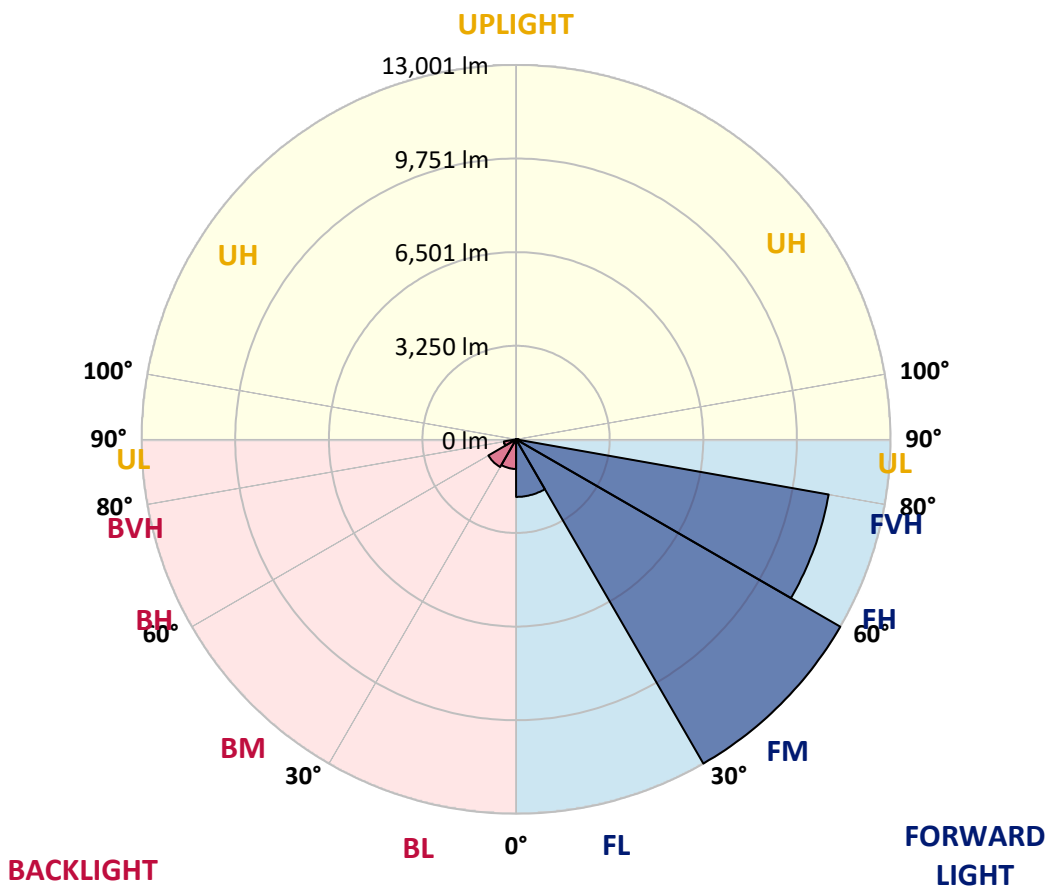
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1999.8	7.0			
FM (30°-60°)	13001.2	45.3			
FH (60°-80°)	11023.3	38.4			G4/12000
FVH (80°-90°)	96.6	0.3			G1/100
BL (0°-30°)	1026.6	3.6	B3/2500		
BM (30°-60°)	1110.3	3.9	B2/2500		
BH (60°-80°)	429.9	1.5	B1/500		G1/500
BVH (80°-90°)	10.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6
2.5°	4817.2	4809.3	4814.6	4854.0	4927.6	4961.8	5019.6	5030.1	5077.4	5137.9	5161.5
5°	4504.5	4478.2	4491.4	4546.5	4630.6	4725.2	4833.0	4861.9	4980.2	5114.2	5214.1
7.5°	4218.0	4189.1	4220.7	4307.4	4425.6	4528.1	4688.5	4706.9	4896.1	5132.6	5313.9
10°	3768.6	3776.5	3839.6	3992.0	4173.4	4386.2	4601.7	4628.0	4861.9	5193.0	5474.2
12.5°	3424.4	3406.0	3474.3	3647.7	3902.7	4212.8	4536.0	4570.2	4864.5	5285.0	5679.2
15°	3264.0	3258.8	3287.7	3413.8	3660.9	4026.2	4475.6	4520.3	4898.7	5369.1	5873.7
17.5°	3269.3	3261.4	3258.8	3332.4	3516.3	3886.9	4409.9	4467.7	4927.6	5461.1	6078.7
20°	3497.9	3461.2	3395.5	3361.3	3471.7	3797.5	4365.2	4430.9	4969.7	5558.3	6296.8
22.5°	3976.3	3989.4	3813.3	3629.3	3576.8	3808.1	4359.9	4436.2	5061.6	5710.8	6564.9
25°	4932.9	4911.8	4586.0	4173.4	3886.9	3928.9	4451.9	4543.9	5243.0	5928.9	6817.2
27.5°	6131.3	6149.7	5702.9	5045.9	4446.7	4178.6	4620.1	4712.1	5453.2	6065.6	6985.4
30°	7437.4	7419.0	6940.7	6212.7	5240.3	4593.8	4788.3	4869.8	5558.3	6139.1	7158.8
32.5°	8672.6	8630.5	8157.5	7395.4	6252.2	5248.2	5019.6	5066.9	5697.6	6299.5	7392.7
35°	9726.4	9723.8	9311.2	8499.1	7292.9	6068.2	5416.4	5455.8	5957.8	6554.4	7737.0
37.5°	10814.5	10777.7	10315.1	9574.0	8362.5	6967.0	6023.5	6007.7	6367.8	6930.2	8160.1
40°	11708.0	11684.3	11329.6	10617.4	9474.1	7960.4	6759.4	6712.1	6854.0	7450.5	8748.8
42.5°	12370.3	12372.9	12262.5	11828.9	10651.5	9108.8	7684.4	7610.9	7608.2	8236.3	9526.7
45°	12872.2	12906.4	13072.0	13006.3	12041.8	10446.5	8869.7	8793.5	8664.7	9256.0	10417.6
47.5°	13106.1	13150.8	13650.1	13912.9	13258.6	11773.7	10281.0	10120.7	9868.4	10612.1	11413.7
50°	13082.5	13161.3	13857.8	14656.7	14362.3	13119.3	11818.4	11742.2	11329.6	12047.0	12399.2
52.5°	12546.3	12714.5	13870.9	15108.7	15211.2	14359.7	13408.4	13266.4	13066.7	13545.0	13324.3
55°	11090.4	11295.4	13316.4	15253.2	15873.5	15442.5	14964.2	14848.5	14517.4	14958.9	14131.1
57.5°	10299.4	10475.4	12149.5	15182.3	16435.9	16443.8	16349.1	16254.5	15981.2	16357.0	15077.2
60°	9823.7	9999.8	11526.7	14922.1	16945.7	17500.2	17650.0	17639.5	17245.3	17947.0	16186.2
62.5°	9127.2	9369.0	10877.5	14246.7	17308.4	18540.9	18993.0	18922.0	18483.1	19602.7	17284.7
65°	7721.2	7931.5	9547.7	13132.4	17095.5	19403.0	20448.9	20485.7	19978.5	21161.1	18152.0
67.5°	5413.8	5568.9	7174.6	10793.4	15650.1	19686.8	21939.0	21936.4	21071.8	21960.1	17768.3
70°	3137.9	3350.8	4239.1	6672.6	12175.8	18396.4	22162.4	22238.6	20627.6	20291.2	14704.0
72.5°	1214.2	1390.2	2402.0	3545.3	6349.4	14091.6	19063.9	19287.3	17263.7	15652.7	10233.7
75°	362.7	404.7	1130.1	1886.9	2549.2	6806.7	12906.4	12969.5	11842.0	9763.2	5245.6
77.5°	270.7	299.6	494.1	954.0	893.5	2063.0	6677.9	7292.9	6286.3	3487.4	1445.4
80°	184.0	218.1	352.2	465.2	331.1	549.3	1876.4	2060.4	1918.5	783.2	362.7
82.5°	81.5	105.1	249.7	233.9	120.9	157.7	578.2	615.0	396.8	236.5	126.1
85°	7.9	10.5	94.6	102.5	44.7	36.8	120.9	120.9	86.7	81.5	52.6
87.5°	0.0	0.0	2.6	5.3	5.3	7.9	10.5	13.1	15.8	21.0	26.3
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°	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6	5174.6
2.5°	5222.0	5190.4	5229.8	5261.4	5269.3	5211.4	5177.3	5127.3	5116.8	5119.5	5106.3
5°	5292.9	5277.1	5306.0	5271.9	5182.5	5014.3	4869.8	4709.5	4622.8	4572.8	4567.6
7.5°	5424.3	5416.4	5384.9	5229.8	4951.3	4578.1	4218.0	3865.9	3647.7	3568.9	3555.8
10°	5618.8	5603.0	5474.2	5106.3	4512.4	3794.9	3190.5	2685.9	2378.4	2289.0	2178.7
12.5°	5842.2	5810.6	5529.4	4840.9	3850.1	2856.7	2102.4	1537.4	1272.0	1193.1	1193.1
15°	6057.7	5989.3	5497.9	4402.0	3035.4	1858.0	1174.7	888.3	806.8	785.8	785.8
17.5°	6278.4	6147.0	5374.4	3802.8	2097.2	1098.5	783.2	728.0	717.5	720.1	722.7
20°	6486.0	6281.1	5156.2	3082.7	1337.7	767.4	701.7	688.6	683.3	688.6	685.9
22.5°	6712.1	6404.6	4825.1	2296.9	869.9	691.2	667.5	657.0	651.8	659.6	659.6
25°	6935.4	6493.9	4386.2	1545.3	691.2	643.9	630.7	620.2	615.0	617.6	617.6
27.5°	7051.1	6459.8	3810.7	985.5	620.2	596.6	583.4	570.3	562.4	559.8	562.4
30°	7129.9	6354.6	3106.4	701.7	562.4	533.5	520.4	509.8	488.8	475.7	480.9
32.5°	7253.4	6249.5	2341.6	588.7	515.1	470.4	449.4	423.1	394.2	381.1	381.1
35°	7400.6	6105.0	1642.5	530.9	465.2	417.9	378.4	333.8	299.6	289.1	289.1
37.5°	7595.1	5968.3	1093.3	491.4	423.1	373.2	318.0	265.4	228.6	223.4	220.8
40°	7886.8	5852.7	770.0	462.5	386.3	325.9	260.2	205.0	178.7	170.8	170.8
42.5°	8265.2	5734.4	609.7	433.6	354.8	281.2	207.6	162.9	141.9	136.7	134.0
45°	8733.0	5595.1	530.9	407.3	323.3	233.9	165.6	136.7	120.9	115.6	115.6
47.5°	9240.3	5405.9	494.1	373.2	286.5	189.2	139.3	118.3	110.4	107.8	105.1
50°	9739.6	5151.0	462.5	341.6	244.4	155.1	120.9	107.8	102.5	99.9	99.9
52.5°	10175.8	4854.0	423.1	304.9	199.7	134.0	107.8	99.9	94.6	89.4	86.7
55°	10549.0	4530.8	373.2	262.8	162.9	118.3	99.9	92.0	86.7	81.5	78.8
57.5°	11030.0	4346.8	299.6	212.9	134.0	105.1	92.0	84.1	78.8	71.0	71.0
60°	11563.5	4212.8	223.4	168.2	115.6	97.2	84.1	76.2	71.0	63.1	63.1
62.5°	11991.8	4013.0	176.1	136.7	99.9	86.7	76.2	68.3	63.1	55.2	55.2
65°	12154.8	3600.4	144.5	107.8	81.5	76.2	68.3	63.1	55.2	47.3	47.3
67.5°	11418.9	2775.2	120.9	86.7	68.3	65.7	60.4	57.8	47.3	42.0	39.4
70°	9043.1	1692.5	99.9	71.0	57.8	55.2	55.2	49.9	42.0	39.4	36.8
72.5°	6197.0	872.5	81.5	57.8	49.9	49.9	47.3	44.7	39.4	36.8	36.8
75°	3219.4	291.7	63.1	44.7	39.4	42.0	42.0	39.4	36.8	36.8	34.2
77.5°	922.4	131.4	47.3	34.2	31.5	31.5	34.2	34.2	34.2	31.5	31.5
80°	239.2	76.2	34.2	26.3	26.3	26.3	26.3	28.9	31.5	28.9	28.9
82.5°	97.2	42.0	23.7	21.0	21.0	21.0	21.0	23.7	26.3	26.3	26.3
85°	60.4	21.0	18.4	18.4	18.4	15.8	15.8	18.4	18.4	21.0	21.0
87.5°	36.8	15.8	15.8	15.8	15.8	13.1	13.1	13.1	13.1	13.1	13.1
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)