

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: P641024

Luminaire Tested: GWS-SA5F-722-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641024
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-SA5F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24794.7 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

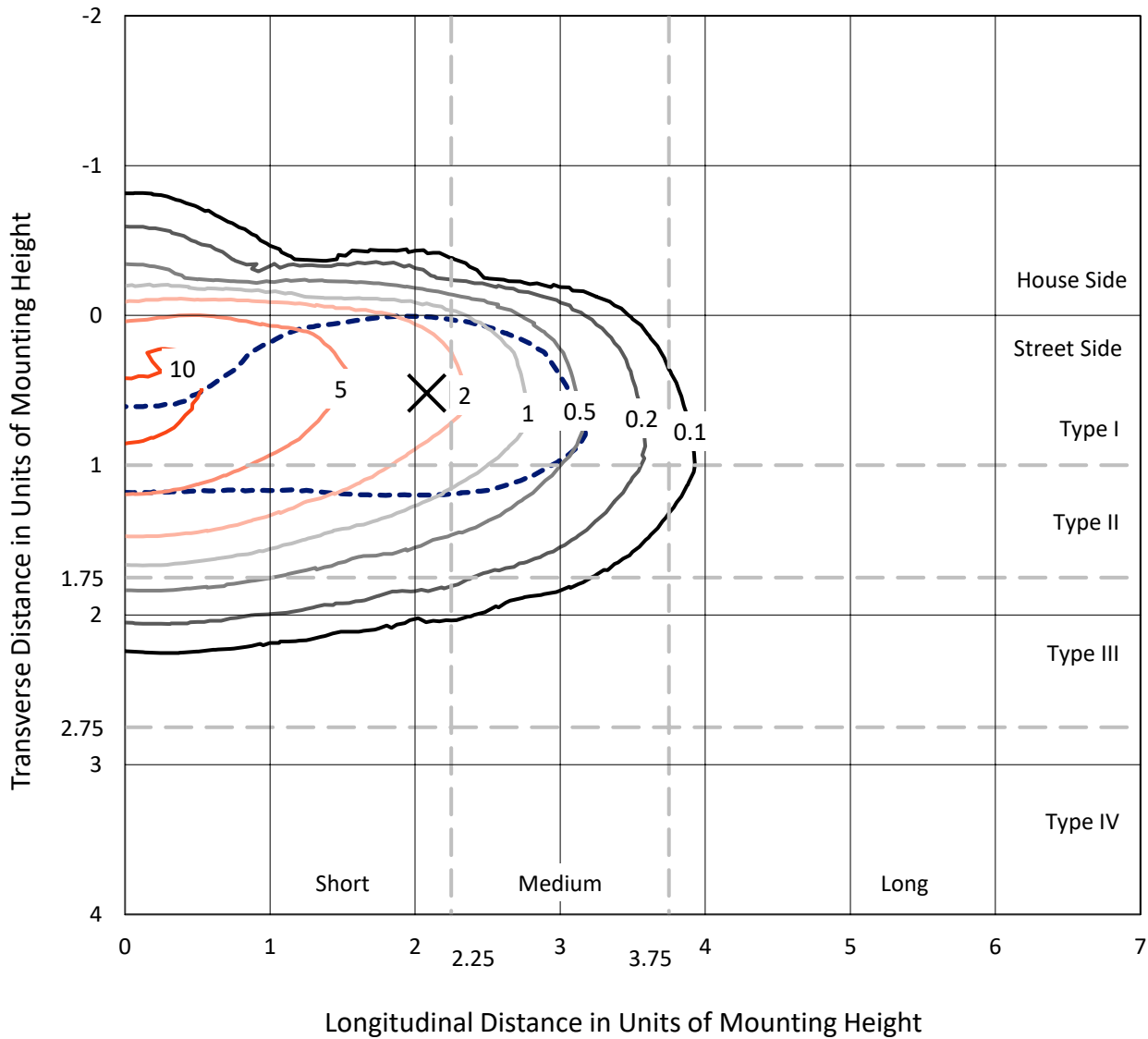
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

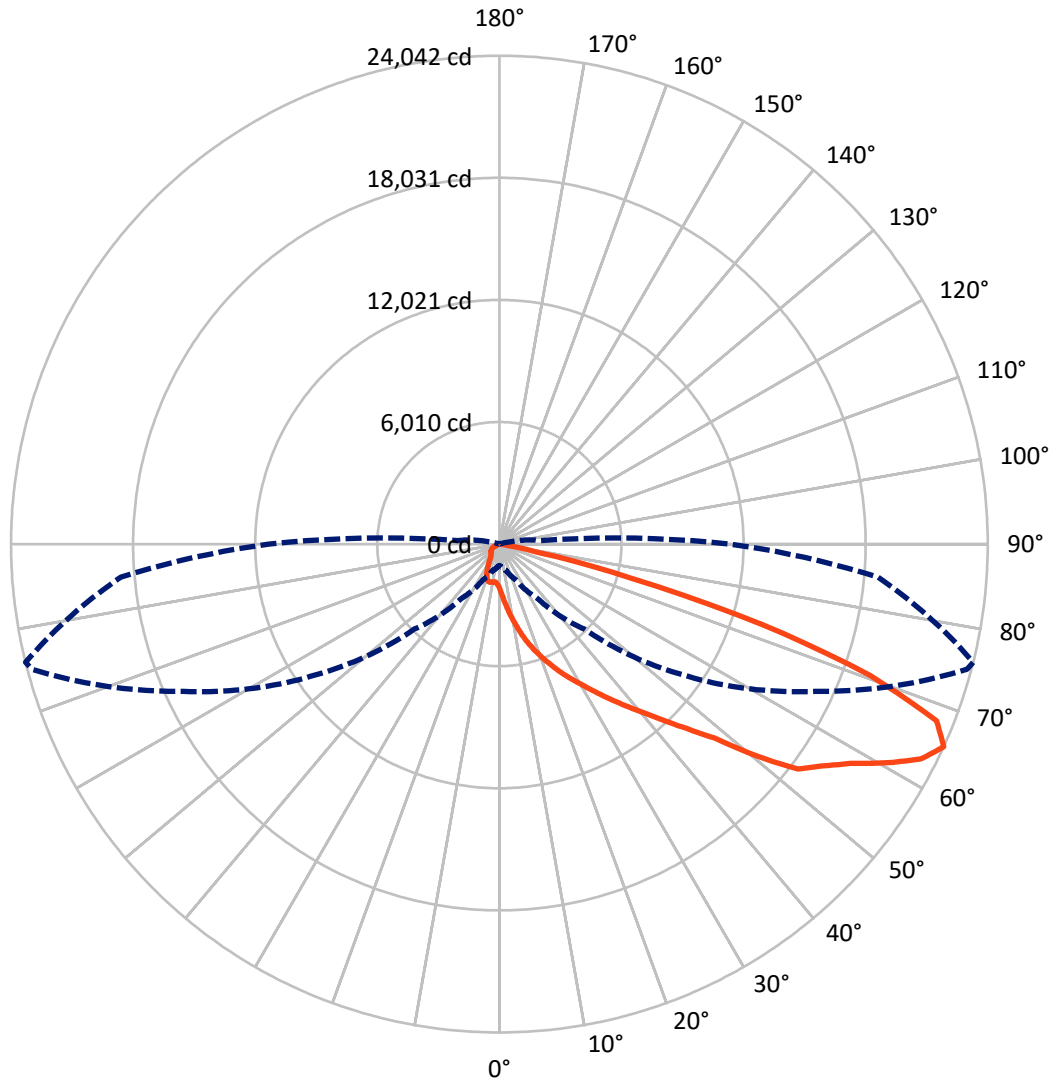
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	1371.0	0.0	1371.0
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	23423.7	0.0	23423.7
	% Fixture	94.5	0.0	94.5
Total	Lumens	24794.7	0.0	24794.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	1.1
10°-20°	1013.4	4.1
20°-30°	2067.4	8.3
30°-40°	3676.9	14.8
40°-50°	5435.4	21.9
50°-60°	6223.1	25.1
60°-70°	4747.9	19.1
70°-80°	1330.0	5.4
80°-90°	33.5	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°	24794.7	100.0
0°-180°	24794.7	100.0

Coefficient of Utilization



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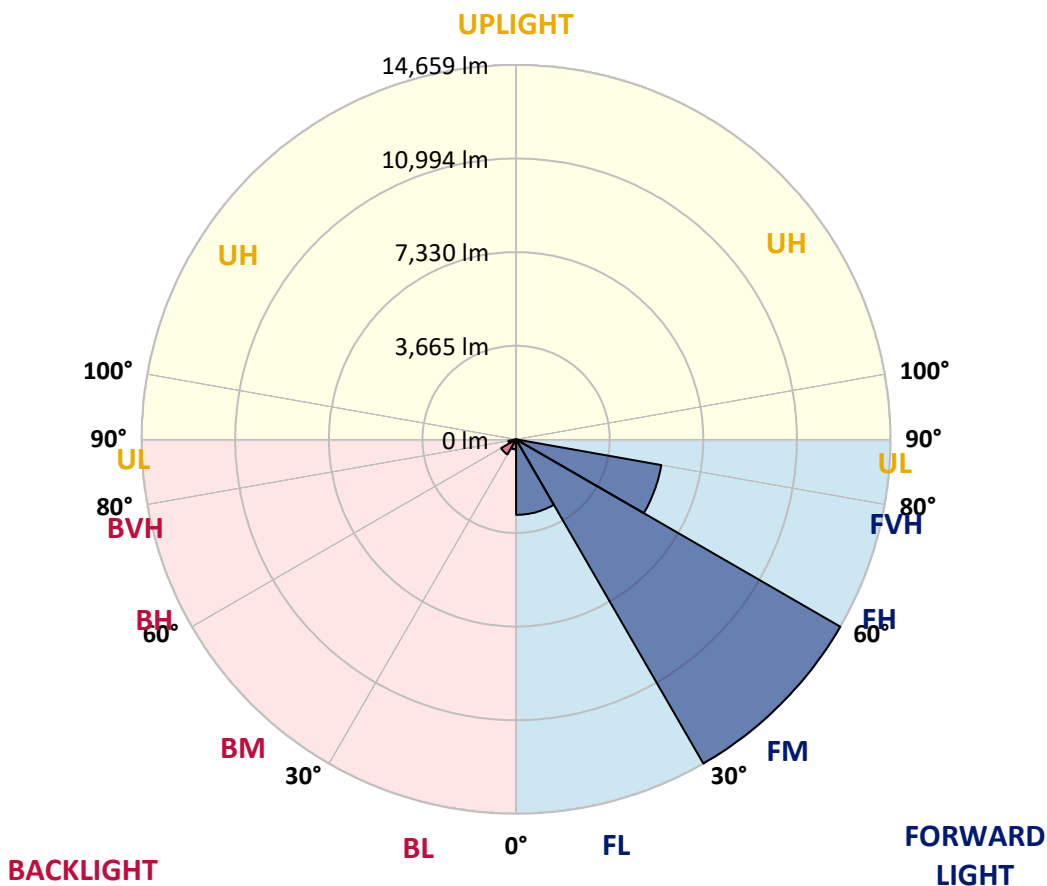
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2956.6	11.9			
FM (30°-60°)	14659.0	59.1			
FH (60°-80°)	5776.6	23.3			G3/7500
FVH (80°-90°)	31.5	0.1			G1/100
BL (0°-30°)	391.2	1.6	B1/500		
BM (30°-60°)	676.4	2.7	B1/1000		
BH (60°-80°)	301.4	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	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°	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2
2.5°	3383.2	3433.9	3394.2	3328.1	3200.3	3076.9	2918.2	2700.0	2525.8	2503.8	2340.7
5°	4569.0	4564.6	4478.6	4392.7	4258.2	4046.6	3727.1	3321.5	2931.4	2898.3	2532.5
7.5°	5274.3	5280.9	5232.4	5166.3	5034.1	4815.9	4483.0	3993.7	3422.9	3356.8	2794.7
10°	5867.2	5865.0	5829.7	5798.9	5679.8	5534.4	5177.3	4639.5	3951.9	3848.3	3087.9
12.5°	6312.4	6327.8	6345.5	6376.3	6325.6	6182.4	5845.1	5258.9	4487.4	4372.8	3422.9
15°	6665.1	6669.5	6735.6	6854.6	6896.5	6821.5	6515.2	5858.4	5016.4	4917.2	3808.6
17.5°	6770.8	6779.7	6892.1	7110.3	7330.7	7372.6	7141.1	6462.3	5536.6	5430.8	4183.3
20°	6993.5	7013.3	7097.0	7288.8	7566.5	7791.3	7701.0	7072.8	6056.7	5917.9	4566.8
22.5°	7694.3	7705.4	7676.7	7701.0	7844.2	8104.3	8159.4	7663.5	6590.1	6442.4	4981.2
25°	8900.0	8904.4	8703.8	8514.3	8406.3	8454.7	8576.0	8207.9	7119.1	6973.6	5366.9
27.5°	10151.9	10167.3	9927.0	9605.3	9219.5	8999.1	8963.9	8706.0	7652.5	7491.6	5748.2
30°	11331.0	11331.0	11077.6	10685.2	10169.5	9739.7	9486.2	9208.5	8223.3	8047.0	6138.3
32.5°	12391.2	12382.4	12058.4	11633.0	11123.8	10652.2	10118.8	9733.1	8858.1	8661.9	6587.9
35°	13266.2	13244.1	12876.1	12468.3	11923.9	11573.5	10978.4	10297.3	9545.7	9349.6	7050.8
37.5°	13927.4	13903.2	13565.9	13133.9	12629.2	12402.2	11904.1	10974.0	10270.9	10092.4	7564.3
40°	14286.7	14238.2	14004.5	13682.8	13259.6	13061.2	12854.0	11813.7	11123.8	10901.2	8170.4
42.5°	14392.5	14335.2	14180.9	14031.0	13775.3	13618.8	13841.4	12761.5	12060.6	11868.8	8862.5
45°	14079.5	14046.4	14033.2	14141.2	14187.5	14231.6	14780.4	13810.6	13094.3	12948.8	9733.1
47.5°	13325.7	13316.9	13433.7	13883.3	14372.6	14837.7	15800.8	15104.4	14434.3	14277.8	10949.7
50°	11932.7	12023.1	12349.3	13138.4	14117.0	15181.5	16755.2	16898.5	16603.1	16373.9	12536.6
52.5°	9755.1	9929.3	10661.0	11860.0	13266.2	15084.5	17196.0	18335.5	18637.5	18399.4	13673.9
55°	7654.7	7817.8	8470.2	9991.0	11866.6	14346.2	17215.8	18831.4	19490.4	19270.0	14443.1
57.5°	5701.9	5851.8	6444.6	7899.3	9962.3	12893.7	16744.2	19106.9	20502.1	20361.0	15657.6
60°	3727.1	3874.7	4410.3	5682.0	7727.4	10777.8	15582.6	19049.6	21879.6	21866.4	17149.7
62.5°	2067.4	2184.2	2572.1	3564.0	5393.3	8346.7	13757.7	18474.4	23213.1	23296.8	18379.6
65°	1057.9	1132.9	1368.7	1959.4	3264.2	5917.9	11357.5	17156.3	23830.2	24041.8	18703.6
67.5°	692.1	716.3	773.6	1018.3	1747.8	3722.6	8547.3	15042.7	22961.8	23208.7	17617.0
70°	562.0	581.9	614.9	678.8	901.5	1977.0	5613.7	12014.3	19186.3	19353.8	14028.8
72.5°	412.2	438.6	502.5	544.4	650.2	1084.4	2920.4	7886.1	13175.8	13471.2	8816.2
75°	304.2	319.6	372.5	429.8	531.2	685.5	1117.5	4145.8	6803.9	6632.0	3702.8
77.5°	182.9	194.0	238.0	275.5	379.1	427.6	390.1	1531.8	2069.6	1946.2	894.8
80°	90.4	101.4	156.5	207.2	242.4	171.9	163.1	427.6	460.6	460.6	224.8
82.5°	30.9	39.7	83.8	136.7	119.0	66.1	77.1	110.2	123.4	130.0	66.1
85°	0.0	0.0	19.8	39.7	17.6	8.8	19.8	24.2	30.9	33.1	22.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	8.8	8.8
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°	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2	2195.2
2.5°	2252.5	2149.0	1992.5	1851.4	1743.4	1642.0	1564.9	1503.2	1492.1	1456.9	1461.3
5°	2353.9	2166.6	1877.9	1655.2	1498.8	1393.0	1304.8	1238.7	1210.0	1181.4	1159.3
7.5°	2510.4	2239.3	1833.8	1562.7	1379.7	1216.6	1080.0	969.8	916.9	883.8	861.8
10°	2702.2	2340.7	1836.0	1507.6	1236.5	987.4	800.1	678.8	621.5	603.9	601.7
12.5°	2931.4	2468.5	1853.6	1417.2	1029.3	733.9	592.9	537.8	520.2	504.7	504.7
15°	3173.8	2611.8	1853.6	1251.9	784.6	573.1	513.5	478.3	456.2	447.4	443.0
17.5°	3429.5	2746.2	1809.5	1024.9	601.7	504.7	456.2	423.2	405.5	392.3	387.9
20°	3702.8	2874.1	1699.3	784.6	515.7	451.8	405.5	372.5	354.9	341.6	341.6
22.5°	3980.5	2993.1	1520.8	603.9	456.2	401.1	357.1	326.2	308.6	295.3	295.3
25°	4238.4	3072.4	1291.6	498.1	412.2	357.1	317.4	286.5	266.7	257.9	253.5
27.5°	4478.6	3123.1	1038.1	438.6	370.3	319.6	277.7	249.1	233.6	227.0	222.6
30°	4727.7	3136.4	793.5	398.9	335.0	282.1	242.4	220.4	207.2	198.4	198.4
32.5°	4970.1	3120.9	606.1	365.9	304.2	249.1	216.0	196.2	185.1	178.5	176.3
35°	5217.0	3050.4	491.5	337.2	273.3	218.2	191.8	176.3	169.7	160.9	160.9
37.5°	5485.9	2955.6	427.6	308.6	242.4	196.2	171.9	160.9	152.1	145.5	143.3
40°	5820.9	2845.4	392.3	284.3	213.8	176.3	154.3	143.3	136.7	130.0	127.8
42.5°	6217.6	2737.4	374.7	257.9	191.8	156.5	138.9	125.6	119.0	110.2	108.0
45°	6779.7	2713.2	354.9	229.2	171.9	141.1	121.2	108.0	99.2	92.6	90.4
47.5°	7683.3	2781.5	321.8	198.4	152.1	123.4	103.6	92.6	81.5	74.9	70.5
50°	8580.4	2763.9	288.7	171.9	134.4	105.8	88.2	77.1	66.1	59.5	57.3
52.5°	9069.7	2680.1	257.9	152.1	116.8	90.4	74.9	61.7	55.1	48.5	46.3
55°	9512.7	2647.1	227.0	132.2	99.2	79.3	61.7	50.7	46.3	39.7	37.5
57.5°	10381.1	2724.2	200.6	114.6	86.0	68.3	52.9	41.9	37.5	30.9	28.7
60°	11289.2	2733.0	171.9	99.2	74.9	57.3	41.9	33.1	28.7	22.0	19.8
62.5°	11763.0	2510.4	141.1	83.8	61.7	48.5	35.3	26.4	22.0	13.2	13.2
65°	11366.3	2029.9	119.0	68.3	48.5	37.5	26.4	19.8	13.2	6.6	2.2
67.5°	10059.3	1443.7	99.2	55.1	35.3	26.4	19.8	13.2	2.2	0.0	0.0
70°	7365.9	824.3	77.1	39.7	26.4	17.6	13.2	6.6	0.0	0.0	0.0
72.5°	4527.1	440.8	57.3	26.4	19.8	13.2	11.0	4.4	0.0	0.0	0.0
75°	1717.0	211.6	35.3	17.6	15.4	11.0	6.6	2.2	0.0	0.0	0.0
77.5°	465.1	103.6	19.8	13.2	11.0	6.6	4.4	0.0	0.0	0.0	0.0
80°	121.2	48.5	13.2	8.8	6.6	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	41.9	22.0	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	17.6	8.8	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	2.2	2.2	2.2	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)