

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: P636895

Luminaire Tested: GWS-SA4B-760-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636895
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-SA4B-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: 10938.6 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

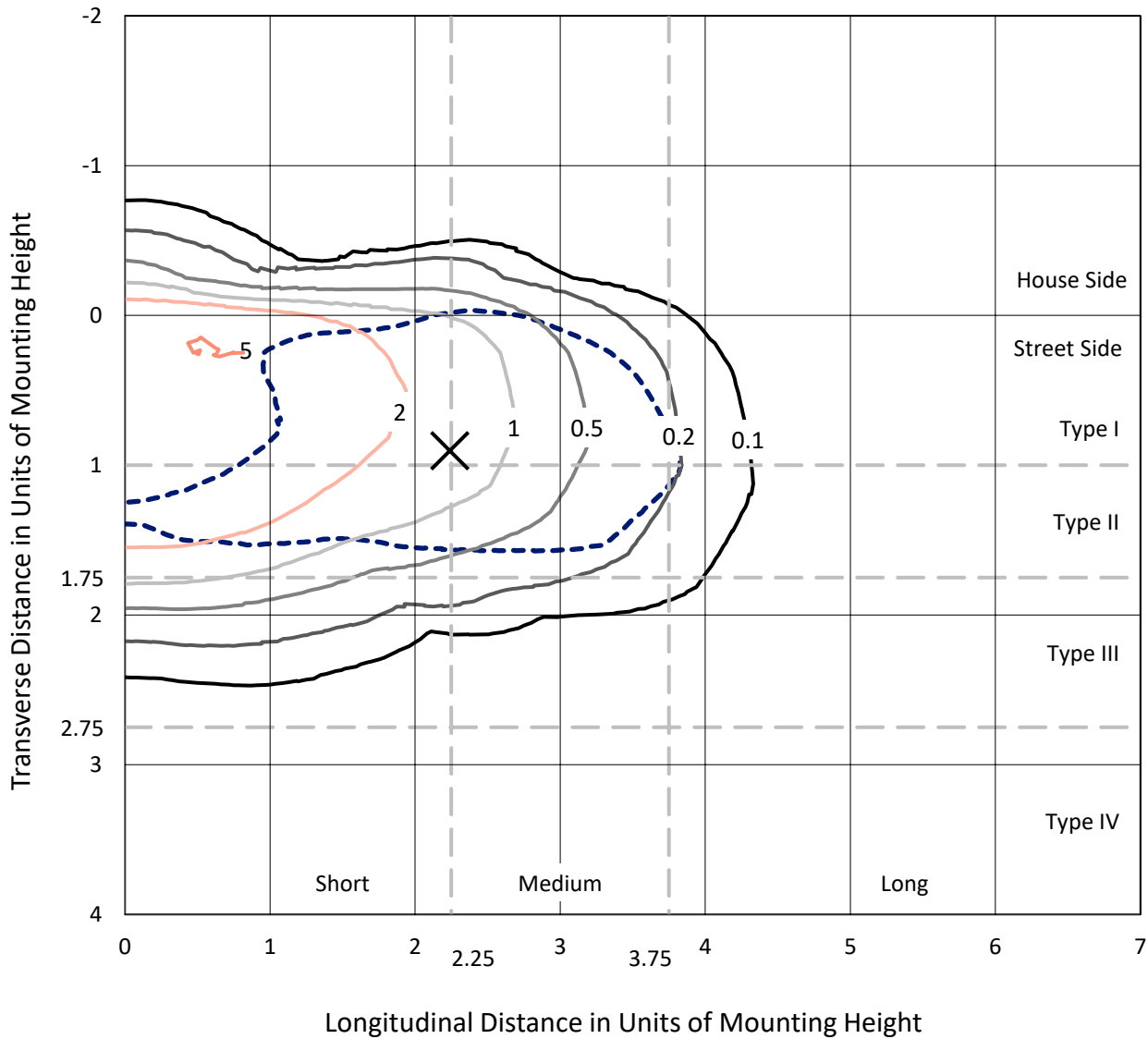
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

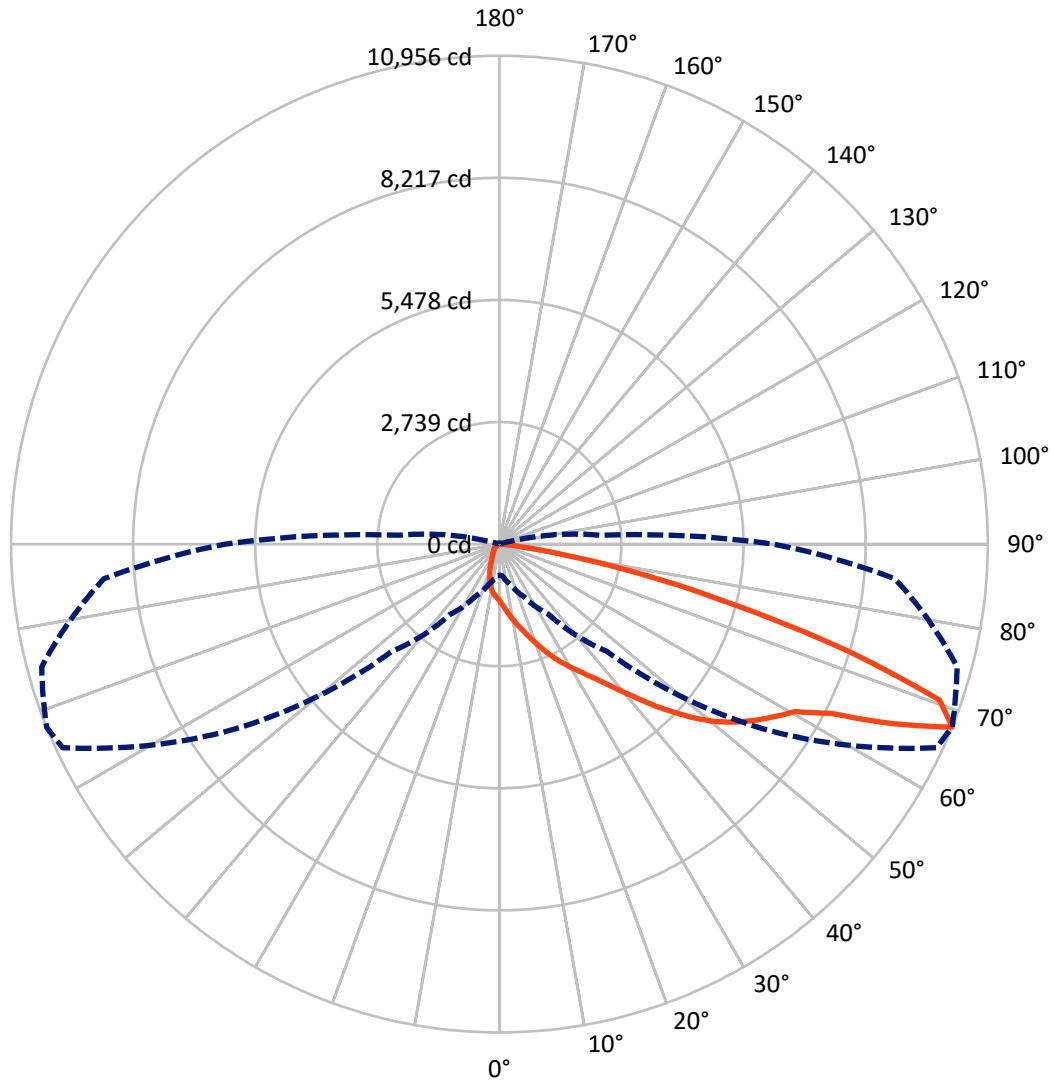
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	789.9	0.0	789.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10148.7	0.0	10148.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	10938.6	0.0	10938.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.1
10°-20°	356.5	3.3
20°-30°	612.7	5.6
30°-40°	1065.3	9.7
40°-50°	1858.8	17.0
50°-60°	2803.5	25.6
60°-70°	2811.2	25.7
70°-80°	1240.3	11.3
80°-90°	66.2	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°	10938.6	100.0
0°-180°	10938.6	100.0

Coefficient of Utilization

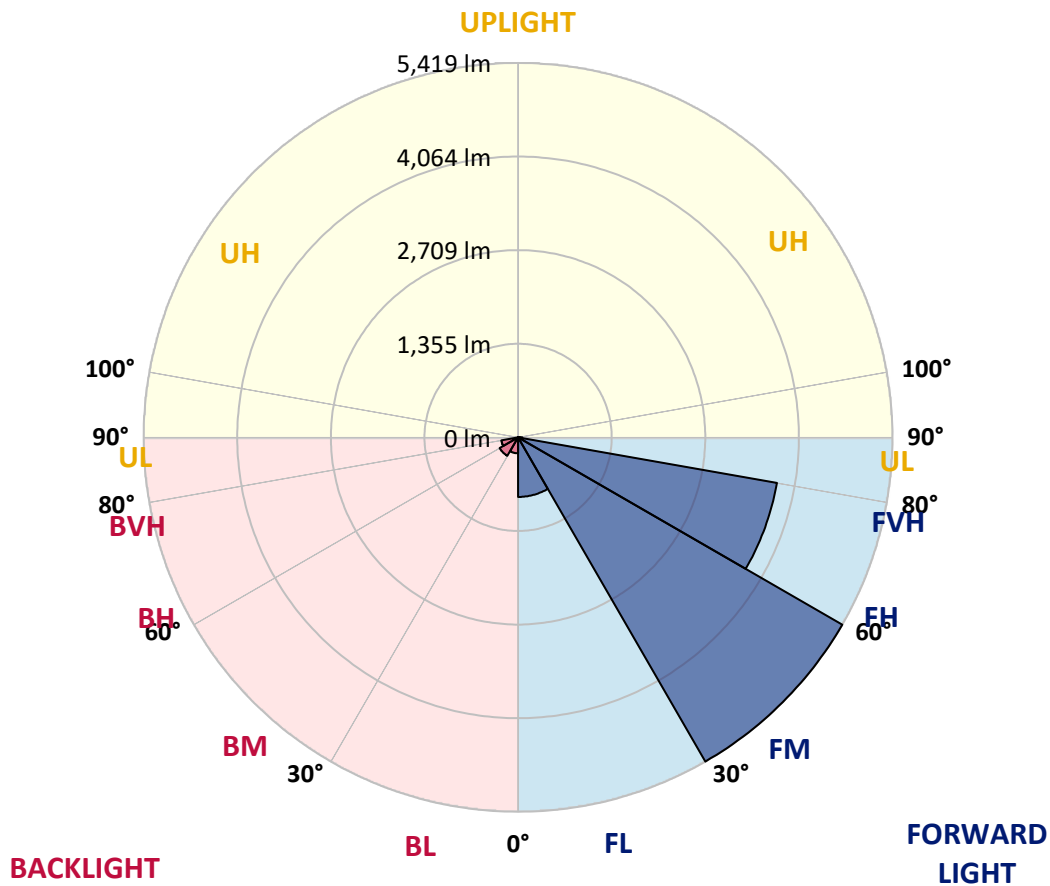


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	862.3	7.9			
FM (30°-60°)	5419.0	49.5			
FH (60°-80°)	3804.9	34.8			G2/5000
FVH (80°-90°)	62.5	0.6			G1/100
BL (0°-30°)	231.1	2.1	B1/500		
BM (30°-60°)	308.6	2.8	B1/1000		
BH (60°-80°)	246.5	2.3	B1/500		G1/500
BVH (80°-90°)	3.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0
2.5°	1482.3	1491.8	1482.3	1484.4	1457.2	1444.7	1417.4	1379.8	1370.3	1346.3	1309.6
5°	1663.5	1671.8	1662.4	1660.3	1628.9	1605.9	1560.9	1496.0	1477.1	1430.0	1357.8
7.5°	1761.9	1767.1	1770.2	1775.5	1763.9	1745.1	1704.3	1623.7	1603.8	1527.4	1425.8
10°	1772.3	1776.5	1792.2	1823.6	1846.7	1858.2	1835.1	1760.8	1729.4	1655.1	1509.6
12.5°	1743.0	1749.3	1774.4	1826.8	1890.6	1949.2	1963.9	1899.0	1870.7	1775.5	1608.0
15°	1704.3	1709.5	1744.1	1815.2	1911.6	2019.4	2080.1	2051.8	2020.4	1921.0	1716.8
17.5°	1644.6	1651.9	1700.1	1796.4	1921.0	2074.9	2205.7	2215.1	2193.2	2085.3	1837.2
20°	1611.1	1616.3	1659.3	1758.7	1914.7	2115.7	2323.0	2412.0	2387.9	2274.8	1975.4
22.5°	1639.4	1643.6	1671.8	1749.3	1893.8	2138.7	2431.8	2608.8	2595.2	2477.9	2120.9
25°	1788.0	1801.6	1784.9	1798.5	1903.2	2151.3	2519.8	2805.6	2808.7	2690.4	2271.7
27.5°	2089.5	2071.7	2031.9	1963.9	1976.5	2184.8	2595.2	2990.9	3018.1	2897.7	2405.7
30°	2396.2	2385.8	2361.7	2256.0	2168.0	2259.1	2659.0	3180.3	3223.3	3101.8	2525.0
32.5°	2740.7	2751.1	2708.2	2581.5	2431.8	2409.9	2725.0	3360.4	3441.0	3333.2	2665.3
35°	3152.1	3155.2	3070.4	2930.1	2760.6	2659.0	2843.3	3559.3	3708.0	3628.4	2852.7
37.5°	3553.0	3571.9	3525.8	3304.9	3154.2	2968.9	3039.0	3814.7	4024.1	3992.7	3088.2
40°	3907.9	3937.2	3922.6	3709.0	3511.1	3355.2	3342.6	4114.1	4406.2	4441.8	3399.1
42.5°	4190.6	4209.4	4220.9	4069.1	3894.3	3806.4	3717.4	4461.7	4857.4	5002.9	3780.2
45°	4488.9	4495.2	4519.3	4416.7	4263.8	4271.2	4160.2	4883.6	5332.7	5624.7	4217.8
47.5°	4868.9	4889.9	4878.3	4770.5	4632.3	4715.0	4617.7	5318.0	5801.7	6288.5	4665.8
50°	5331.6	5353.6	5343.1	5217.5	5063.6	5098.2	5037.5	5739.9	6253.9	6914.5	5038.5
52.5°	5570.3	5588.1	5717.9	5774.4	5693.8	5474.0	5395.5	6203.7	6636.0	7429.5	5380.8
55°	5455.2	5467.7	5750.4	5989.1	6284.3	6064.4	5755.6	6561.7	6973.1	7831.5	5635.2
57.5°	4977.8	5045.8	5430.0	5834.1	6454.9	6647.5	6339.8	6951.1	7297.6	8111.0	5885.4
60°	3999.0	3995.8	4546.5	5272.0	6122.0	6807.7	7164.7	7477.7	7623.2	8325.6	6220.4
62.5°	2209.9	2229.8	2962.6	3918.4	5196.6	6393.1	7783.4	8387.4	8365.4	8700.4	6744.9
65°	1100.2	1140.0	1537.8	2244.5	3457.8	5283.5	7890.1	9775.5	9712.7	9582.9	7828.4
67.5°	698.3	714.0	933.8	1304.4	1922.0	3396.0	7225.4	10810.9	10956.4	10629.8	8903.5
70°	452.2	478.4	649.0	891.9	1159.9	1750.3	5292.9	10139.8	10473.8	10514.6	8233.5
72.5°	246.0	264.9	414.6	636.5	837.5	875.2	2973.1	7609.6	8146.6	8919.2	6441.3
75°	140.3	153.9	227.2	432.4	614.5	532.8	1318.0	5094.0	5436.3	6374.3	4615.6
77.5°	84.8	96.3	127.7	210.4	385.2	355.9	498.3	3100.8	3318.5	3803.2	2422.4
80°	38.7	46.1	80.6	116.2	210.4	168.5	190.5	1445.7	1492.8	1560.9	801.9
82.5°	17.8	20.9	36.6	69.1	119.3	97.4	73.3	333.9	470.0	444.9	204.1
85°	2.1	2.1	13.6	28.3	33.5	25.1	30.4	75.4	95.3	134.0	58.6
87.5°	0.0	0.0	1.0	1.0	2.1	3.1	6.3	9.4	13.6	22.0	14.7
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°	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0	1273.0
2.5°	1292.9	1263.6	1237.4	1198.6	1172.5	1143.2	1123.3	1099.2	1089.8	1082.4	1072.0
5°	1322.2	1275.1	1211.2	1140.0	1081.4	1025.9	974.6	941.1	911.8	907.6	893.0
7.5°	1370.3	1300.2	1192.4	1076.2	976.7	884.6	812.4	753.7	724.4	715.0	698.3
10°	1434.2	1337.9	1164.1	986.1	842.7	732.8	651.1	585.2	539.1	522.4	509.8
12.5°	1505.4	1372.4	1119.1	875.2	711.9	586.2	482.6	412.5	383.1	372.7	363.3
15°	1587.0	1404.9	1047.9	764.2	584.1	431.3	358.0	327.7	315.1	312.0	308.8
17.5°	1665.5	1425.8	963.1	649.0	449.1	335.0	300.4	288.9	285.8	282.7	280.6
20°	1754.5	1440.5	863.7	540.2	348.6	283.7	266.9	258.6	252.3	246.0	245.0
22.5°	1845.6	1440.5	755.8	433.4	292.1	254.4	235.5	219.8	208.3	202.0	199.9
25°	1932.5	1420.6	649.0	346.5	257.5	226.1	202.0	184.2	168.5	161.2	159.1
27.5°	1994.3	1369.3	555.9	293.1	233.4	201.0	171.7	151.8	139.2	131.9	130.9
30°	2033.0	1292.9	470.0	261.7	212.5	174.8	145.5	128.8	119.3	114.1	112.0
32.5°	2062.3	1198.6	393.6	239.7	192.6	151.8	126.7	113.1	104.7	100.5	99.5
35°	2120.9	1109.7	337.1	219.8	171.7	133.0	111.0	100.5	94.2	89.0	87.9
37.5°	2202.6	1035.3	292.1	202.0	151.8	118.3	100.5	91.1	85.8	80.6	79.6
40°	2323.0	988.2	258.6	184.2	134.0	106.8	92.1	83.7	76.4	71.2	70.1
42.5°	2508.3	966.2	236.6	166.4	118.3	96.3	84.8	74.3	67.0	61.8	60.7
45°	2729.1	977.8	217.7	148.7	107.8	89.0	75.4	64.9	57.6	52.3	51.3
47.5°	2965.7	1018.6	202.0	131.9	97.4	81.7	67.0	55.5	49.2	44.0	42.9
50°	3212.8	1085.6	188.4	116.2	89.0	73.3	57.6	48.2	41.9	37.7	36.6
52.5°	3427.4	1176.7	174.8	104.7	81.7	64.9	50.2	41.9	35.6	31.4	30.4
55°	3632.6	1262.5	164.4	94.2	73.3	56.5	44.0	35.6	30.4	26.2	25.1
57.5°	3855.6	1353.6	151.8	84.8	66.0	50.2	38.7	30.4	26.2	22.0	20.9
60°	4180.1	1488.6	133.0	77.5	57.6	44.0	33.5	27.2	23.0	17.8	16.7
62.5°	4648.0	1734.6	112.0	67.0	49.2	37.7	28.3	23.0	18.8	14.7	12.6
65°	5523.2	2153.4	92.1	55.5	39.8	31.4	24.1	18.8	14.7	10.5	9.4
67.5°	6153.4	2262.3	74.3	45.0	32.5	24.1	19.9	14.7	10.5	7.3	6.3
70°	5379.8	1624.7	57.6	36.6	27.2	18.8	15.7	11.5	7.3	5.2	4.2
72.5°	4053.4	1061.5	42.9	28.3	20.9	15.7	11.5	9.4	6.3	4.2	3.1
75°	2856.9	613.5	31.4	20.9	14.7	11.5	9.4	7.3	5.2	3.1	3.1
77.5°	1464.5	253.3	22.0	14.7	10.5	7.3	6.3	4.2	4.2	3.1	2.1
80°	444.9	83.7	12.6	9.4	7.3	5.2	3.1	3.1	3.1	2.1	1.0
82.5°	101.5	27.2	7.3	7.3	5.2	4.2	3.1	1.0	1.0	0.0	0.0
85°	26.2	8.4	6.3	5.2	5.2	4.2	2.1	1.0	0.0	0.0	0.0
87.5°	9.4	5.2	5.2	5.2	4.2	3.1	2.1	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)