

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: P630050

Luminaire Tested: GWS-SA1C-830-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-830-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

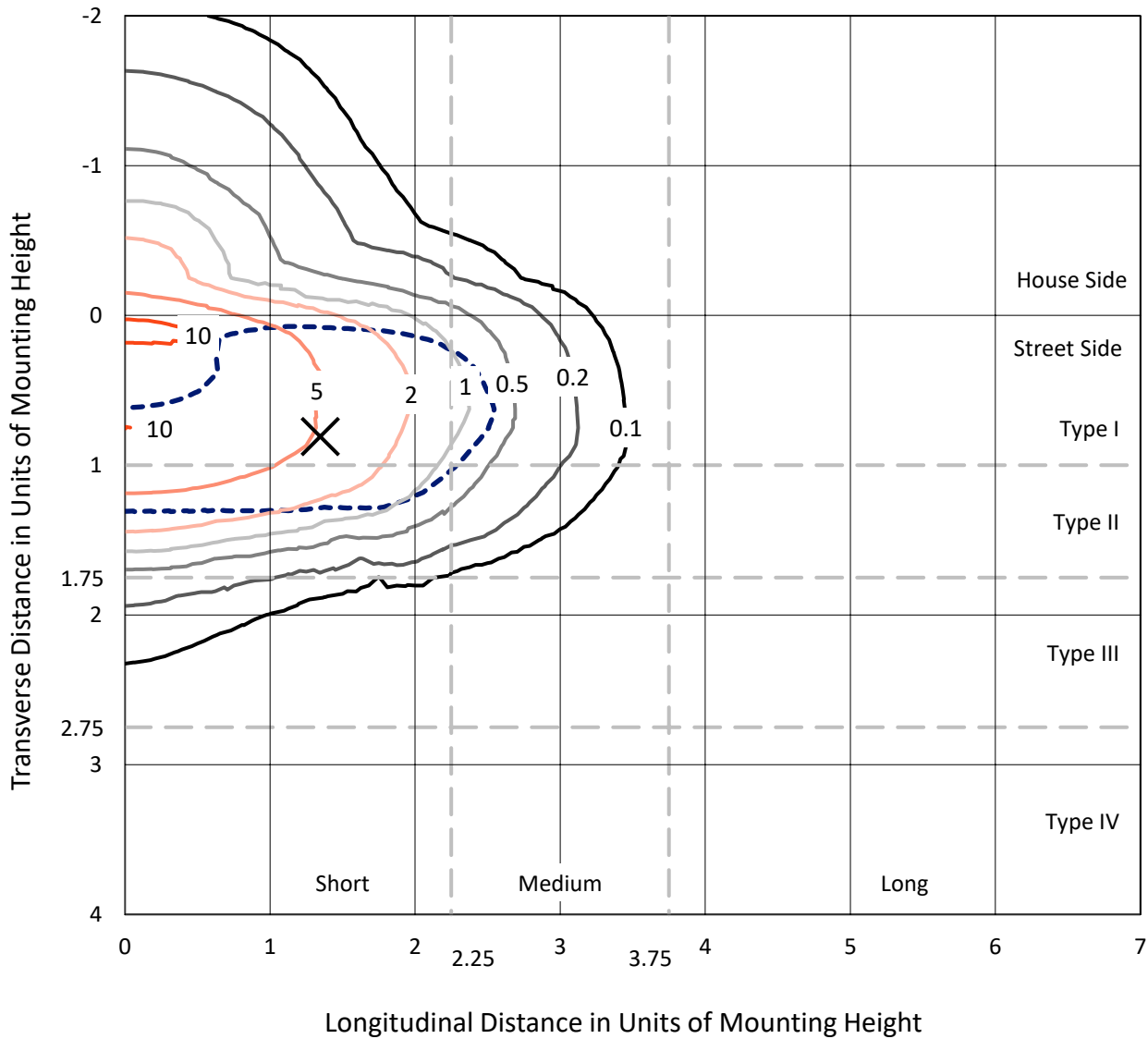
Lumens per Lamp: N/A  
Luminaire Lumens: 3888.2 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

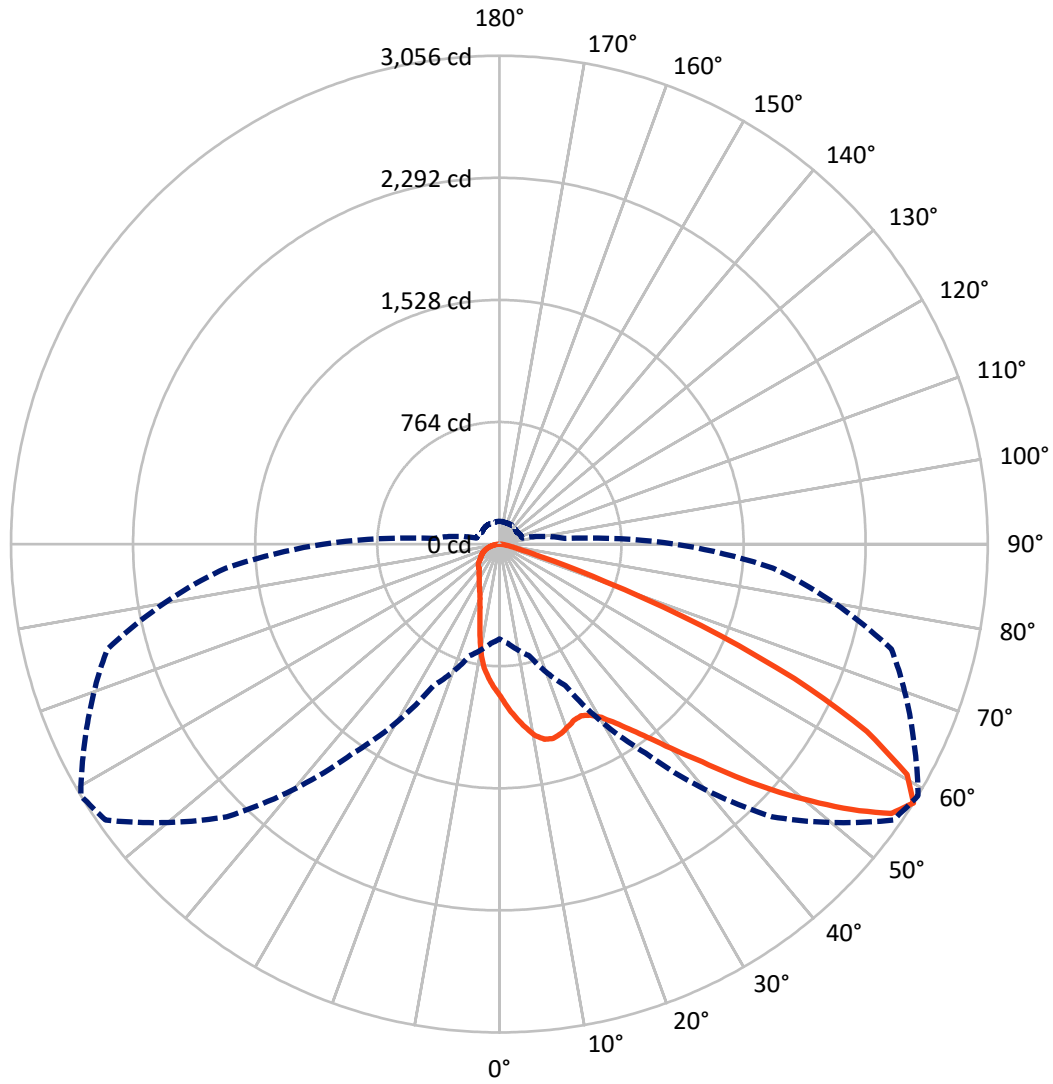
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	603.4	0.0	603.4
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	3284.8	0.0	3284.8
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	3888.2	0.0	3888.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.6	2.3
10°-20°	224.6	5.8
20°-30°	364.0	9.4
30°-40°	585.6	15.1
40°-50°	909.4	23.4
50°-60°	979.5	25.2
60°-70°	568.5	14.6
70°-80°	148.4	3.8
80°-90°	19.5	0.5
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°	3888.2	100.0
0°-180°	3888.2	100.0

**Coefficient of Utilization**



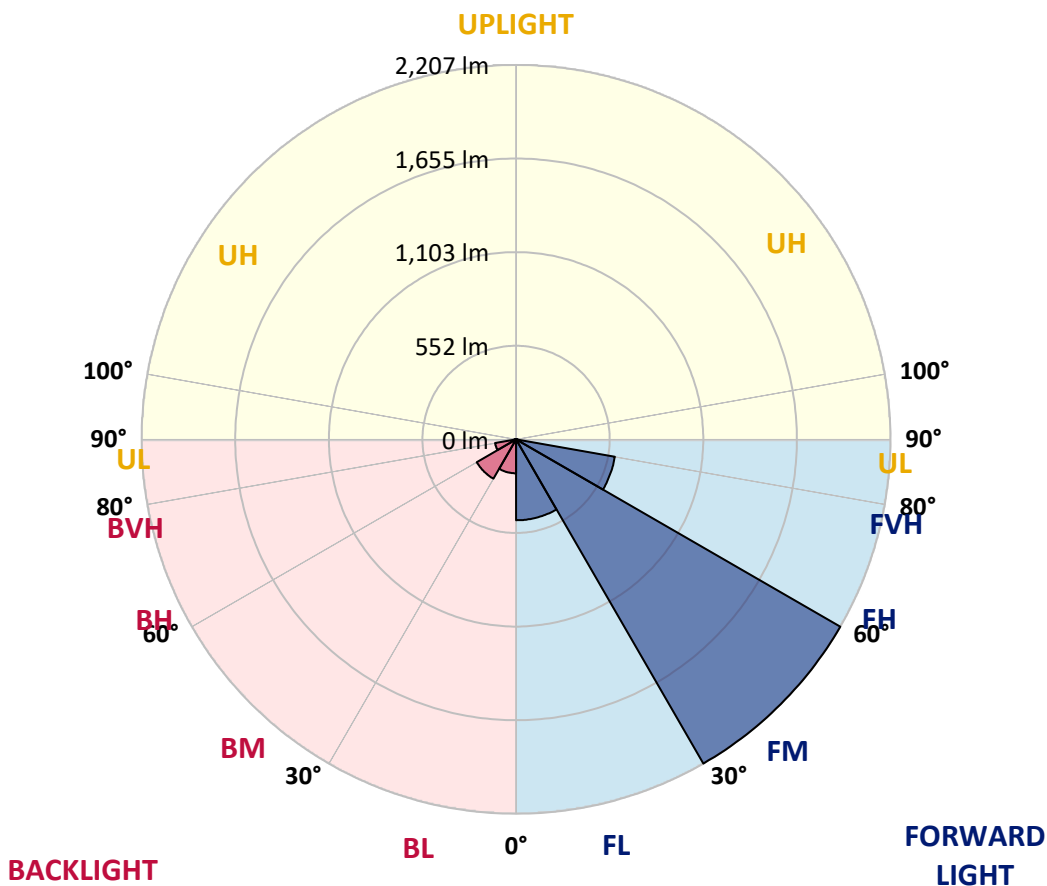
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	477.0	12.3			
FM (30°-60°)	2207.0	56.8			
FH (60°-80°)	591.4	15.2			G0/660
FVH (80°-90°)	9.4	0.2			G0/10
BL (0°-30°)	200.2	5.1	B1/500		
BM (30°-60°)	267.5	6.9	B1/1000		
BH (60°-80°)	125.5	3.2	B1/500		G1/500
BVH (80°-90°)	10.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5
2.5°	1082.6	1073.5	1079.8	1068.6	1064.0	1051.6	1035.8	1025.1	1008.7	987.3	968.7
5°	1190.2	1183.9	1185.2	1173.2	1162.5	1142.0	1109.4	1091.3	1063.4	1020.4	980.5
7.5°	1186.9	1194.3	1198.4	1208.8	1211.8	1209.9	1180.6	1155.4	1124.7	1060.1	999.9
10°	1064.0	1077.9	1090.5	1126.1	1169.3	1224.1	1230.9	1215.9	1185.0	1110.8	1023.2
12.5°	930.1	940.8	952.0	994.7	1061.0	1170.4	1244.6	1253.9	1241.6	1160.9	1049.5
15°	864.4	869.3	880.0	908.2	961.0	1082.6	1220.8	1261.6	1283.8	1214.0	1079.0
17.5°	861.7	863.9	869.1	884.1	920.8	1014.7	1177.8	1246.3	1316.9	1270.1	1113.5
20°	918.3	912.6	909.3	909.0	927.1	992.0	1136.2	1221.6	1332.5	1327.6	1150.5
22.5°	996.9	998.8	991.7	974.2	972.0	1008.1	1115.4	1196.7	1337.1	1378.5	1184.7
25°	1108.3	1117.9	1096.8	1063.4	1047.0	1054.9	1128.3	1189.1	1336.6	1420.9	1206.0
27.5°	1238.3	1245.7	1224.4	1180.6	1146.6	1127.5	1166.6	1211.8	1341.2	1457.6	1218.9
30°	1386.4	1388.9	1359.6	1313.6	1264.1	1223.0	1230.4	1258.6	1365.1	1505.8	1233.9
32.5°	1567.3	1577.7	1533.4	1460.6	1391.3	1338.8	1316.1	1334.1	1416.5	1562.7	1257.2
35°	1797.0	1800.6	1744.2	1639.9	1541.9	1469.1	1421.4	1431.0	1494.8	1642.3	1292.3
37.5°	2013.5	2017.1	1957.1	1860.2	1720.1	1620.4	1551.5	1547.1	1595.0	1754.8	1349.5
40°	2150.9	2161.1	2134.2	2073.5	1939.6	1805.2	1711.6	1696.5	1726.4	1892.5	1429.1
42.5°	2224.8	2229.2	2228.7	2236.6	2156.9	2023.4	1892.3	1862.1	1882.1	2041.2	1509.6
45°	2225.4	2236.3	2265.6	2342.0	2345.5	2262.3	2120.5	2073.5	2055.1	2190.9	1593.6
47.5°	2125.7	2137.5	2218.0	2368.3	2479.1	2498.0	2394.0	2299.6	2222.4	2319.8	1662.6
50°	1824.1	1853.7	2006.9	2272.7	2505.4	2686.9	2654.8	2526.7	2371.0	2419.4	1705.8
52.5°	1562.1	1561.0	1655.5	2002.8	2395.6	2770.1	2907.2	2760.5	2518.0	2482.7	1716.8
55°	1143.9	1150.2	1246.8	1531.8	2102.7	2689.6	3046.0	2975.7	2686.6	2516.3	1712.4
57.5°	593.2	624.4	723.5	977.5	1597.7	2412.6	3009.0	3055.9	2858.0	2540.2	1718.2
60°	299.7	293.7	329.3	466.7	925.7	1884.3	2781.3	2930.5	2888.9	2558.8	1721.7
62.5°	200.1	198.4	188.6	216.2	378.3	1116.0	2371.0	2580.1	2674.0	2515.0	1676.3
65°	173.3	170.0	151.9	150.8	183.7	462.9	1737.9	2028.3	2210.0	2320.4	1567.6
67.5°	156.0	151.1	132.8	123.7	131.9	203.4	979.4	1360.4	1631.9	1962.3	1329.5
70°	139.3	136.9	118.5	105.4	104.6	124.0	360.8	702.1	998.5	1338.8	972.0
72.5°	124.8	120.4	104.8	92.2	85.9	87.9	156.6	270.4	516.8	835.1	581.4
75°	108.1	104.8	91.2	78.6	70.9	64.3	95.5	125.1	235.7	396.9	274.5
77.5°	83.5	81.3	72.0	62.4	58.0	47.9	58.0	78.8	108.9	167.2	142.9
80°	48.4	49.8	53.6	48.7	42.7	34.2	37.8	45.4	65.4	90.6	81.0
82.5°	24.4	26.0	34.8	28.2	25.5	20.0	22.4	26.8	34.2	50.1	31.8
85°	1.9	1.9	6.3	7.1	8.8	7.1	9.0	10.9	15.6	20.0	10.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.4	2.5	4.7	3.0
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°	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5	954.5
2.5°	956.1	942.2	925.5	911.8	890.7	879.5	865.2	847.7	840.6	837.3	835.4
5°	958.0	933.4	897.8	865.0	828.6	799.8	767.8	734.4	715.2	710.6	707.3
7.5°	965.2	930.7	874.0	819.8	752.2	689.5	628.5	568.0	537.0	525.3	524.2
10°	975.0	929.6	849.9	759.9	645.7	546.6	475.2	427.8	407.8	401.3	399.1
12.5°	987.3	928.7	818.2	676.6	522.8	429.2	388.4	380.7	383.5	382.9	382.9
15°	1002.9	929.8	779.8	582.5	422.9	372.5	373.4	382.4	390.9	392.2	392.2
17.5°	1019.9	928.7	724.3	488.0	363.0	359.1	371.7	384.3	392.0	393.1	393.1
20°	1038.2	923.5	654.2	399.1	336.7	350.6	364.3	374.2	378.8	379.9	379.9
22.5°	1049.2	908.8	578.1	337.8	320.0	337.2	346.3	356.4	356.9	348.2	347.9
25°	1047.5	881.1	491.3	298.4	302.2	317.2	328.7	321.6	312.9	307.9	307.1
27.5°	1037.1	839.5	402.9	268.5	281.1	298.1	294.5	288.5	286.3	280.8	280.3
30°	1024.0	788.3	323.5	245.3	259.2	274.8	269.3	268.8	266.6	260.6	260.6
32.5°	1011.4	735.5	263.6	228.0	245.3	246.4	254.0	254.6	253.5	243.1	242.0
35°	1007.9	682.7	223.1	214.3	231.6	231.0	242.0	241.7	222.8	208.3	208.0
37.5°	1018.5	629.0	199.0	203.1	212.7	219.8	228.6	212.7	206.4	197.6	197.1
40°	1041.2	579.5	186.7	196.5	200.6	211.0	197.4	198.4	196.8	190.2	189.4
42.5°	1071.4	537.3	179.8	194.3	193.8	196.5	181.5	185.9	188.3	183.4	182.6
45°	1100.4	500.6	176.3	186.1	188.9	173.0	170.0	174.1	177.9	176.0	175.2
47.5°	1121.7	468.9	174.4	174.9	182.6	165.1	160.1	162.0	166.7	167.5	167.2
50°	1128.3	441.8	172.2	165.6	164.0	157.1	153.3	152.7	158.2	162.0	162.6
52.5°	1115.7	417.7	166.4	157.4	149.5	150.5	149.2	146.4	151.9	157.1	157.7
55°	1097.1	404.0	157.4	149.5	140.1	144.5	145.1	142.6	146.2	149.7	149.7
57.5°	1098.5	412.0	148.6	142.1	131.9	137.7	140.7	139.6	139.6	142.3	142.6
60°	1107.5	423.5	142.9	132.8	123.7	129.7	136.6	135.5	133.0	136.6	136.6
62.5°	1081.5	408.1	139.1	123.7	115.0	122.1	130.3	129.7	127.0	132.8	133.3
65°	1004.8	367.1	134.7	112.5	106.2	114.4	121.5	123.4	121.0	128.7	130.0
67.5°	842.2	308.8	126.2	101.8	97.4	105.1	112.0	114.7	112.8	121.8	122.9
70°	627.9	249.9	112.8	90.1	86.8	93.6	99.9	101.0	101.3	112.0	113.0
72.5°	400.5	194.3	95.0	76.9	74.5	79.7	84.3	88.7	90.6	100.7	100.5
75°	223.4	144.5	76.4	65.1	60.8	64.9	70.3	75.5	81.0	95.8	97.4
77.5°	128.7	101.6	60.5	52.3	47.1	51.5	56.1	63.5	79.9	92.8	91.2
80°	72.5	66.0	45.7	38.3	35.0	38.3	41.9	55.8	63.0	68.4	69.3
82.5°	33.9	37.0	31.2	23.5	23.5	25.7	29.0	43.2	47.6	38.9	33.9
85°	12.3	16.7	15.3	12.0	10.7	10.4	18.1	24.6	15.3	13.7	11.8
87.5°	3.3	4.7	4.4	3.0	1.6	1.4	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)