

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: P629722

Luminaire Tested: GWS-SA1C-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P629722
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-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4457.1 lumens
Efficiency: N/A
Efficacy: 130.7 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

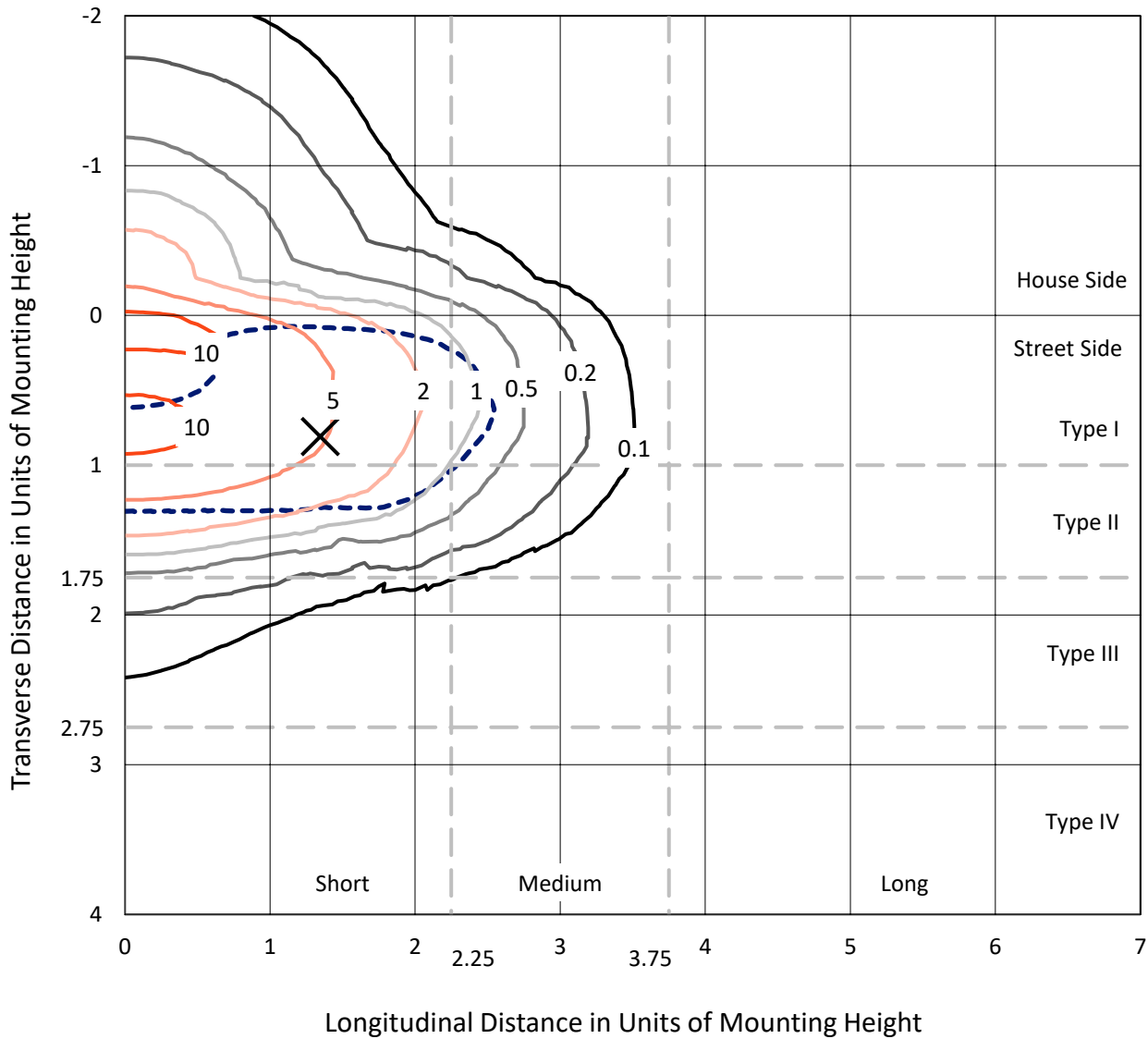


REPORT NUMBER: P629722

CATALOG NUMBER: GWS-SA1C-730-U-AFL-W

Iso-Footcandle Lines of Horizontal Illumination

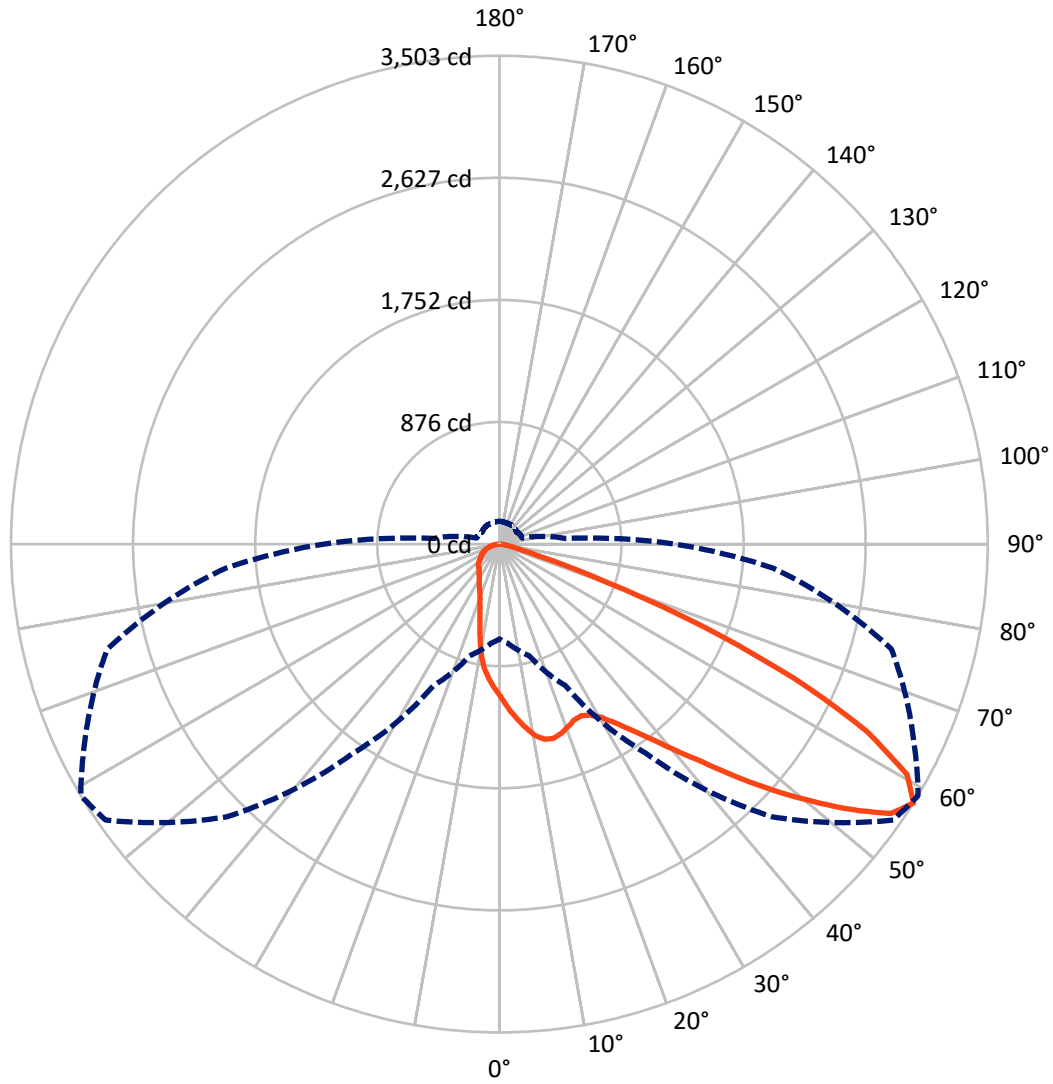
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - N/A

REPORT NUMBER: P629722
CATALOG NUMBER: GWS-SA1C-730-U-AFL-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P629722

CATALOG NUMBER: GWS-SA1C-730-U-AFL-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.7	0.0	691.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	3765.4	0.0	3765.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	4457.1	0.0	4457.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	2.3
10°-20°	257.4	5.8
20°-30°	417.3	9.4
30°-40°	671.3	15.1
40°-50°	1042.4	23.4
50°-60°	1122.9	25.2
60°-70°	651.7	14.6
70°-80°	170.1	3.8
80°-90°	22.4	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°	4457.1	100.0
0°-180°	4457.1	100.0

Coefficient of Utilization



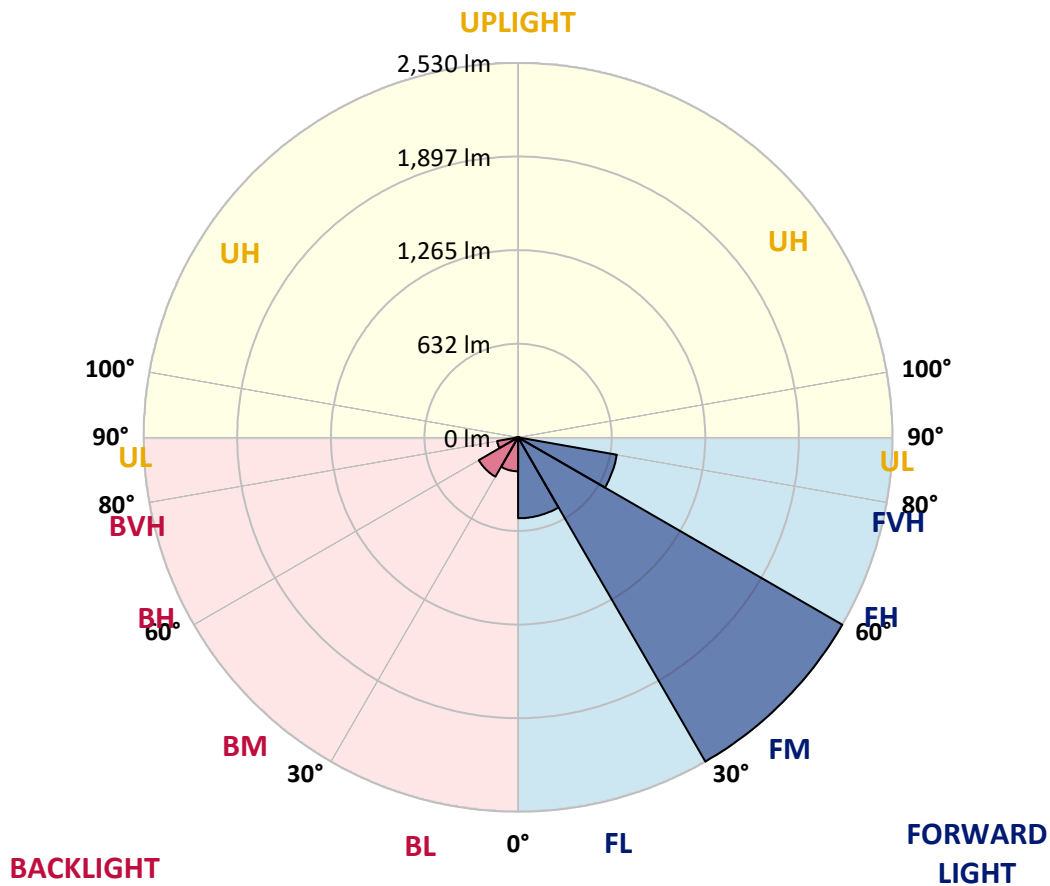
REPORT NUMBER: P629722

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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°)	546.8	12.3			
FM (30°-60°)	2529.9	56.8			
FH (60°-80°)	677.9	15.2			G1/1800
FVH (80°-90°)	10.7	0.2			G1/100
BL (0°-30°)	229.5	5.1	B1/500		
BM (30°-60°)	306.7	6.9	B1/1000		
BH (60°-80°)	143.9	3.2	B1/500		G1/500
BVH (80°-90°)	11.7	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





REPORT NUMBER: P629722
 CATALOG NUMBER: GWS-SA1C-730-U-AFL-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1241.0	1230.6	1237.8	1225.0	1219.6	1205.5	1187.3	1175.1	1156.3	1131.8	1110.4
5°	1364.3	1357.1	1358.6	1344.8	1332.6	1309.1	1271.7	1251.0	1219.0	1169.7	1123.9
7.5°	1360.5	1369.0	1373.7	1385.6	1389.1	1386.9	1353.3	1324.4	1289.3	1215.2	1146.2
10°	1219.6	1235.6	1250.1	1290.9	1340.4	1403.2	1411.0	1393.8	1358.3	1273.3	1172.9
12.5°	1066.2	1078.4	1091.3	1140.3	1216.2	1341.7	1426.7	1437.4	1423.3	1330.7	1203.0
15°	990.9	996.5	1008.8	1041.1	1101.7	1241.0	1399.4	1446.2	1471.6	1391.6	1236.9
17.5°	987.8	990.3	996.2	1013.5	1055.5	1163.2	1350.2	1428.6	1509.6	1455.9	1276.4
20°	1052.7	1046.1	1042.4	1042.0	1062.8	1137.1	1302.5	1400.4	1527.5	1521.8	1318.8
22.5°	1142.8	1145.0	1136.8	1116.7	1114.2	1155.6	1278.6	1371.8	1532.8	1580.2	1358.0
25°	1270.5	1281.5	1257.3	1219.0	1200.2	1209.3	1293.4	1363.0	1532.2	1628.8	1382.5
27.5°	1419.5	1428.0	1403.5	1353.3	1314.4	1292.4	1337.3	1389.1	1537.5	1670.8	1397.2
30°	1589.3	1592.1	1558.5	1505.8	1449.0	1401.9	1410.4	1442.7	1564.8	1726.1	1414.5
32.5°	1796.7	1808.6	1757.8	1674.3	1594.9	1534.7	1508.6	1529.3	1623.8	1791.3	1441.2
35°	2059.9	2064.0	1999.4	1879.8	1767.5	1684.0	1629.4	1640.4	1713.5	1882.6	1481.3
37.5°	2308.1	2312.2	2243.5	2132.4	1971.8	1857.5	1778.5	1773.4	1828.4	2011.6	1546.9
40°	2465.6	2477.2	2446.5	2376.8	2223.4	2069.3	1962.0	1944.8	1979.0	2169.4	1638.2
42.5°	2550.4	2555.4	2554.7	2563.8	2472.5	2319.4	2169.1	2134.6	2157.5	2339.8	1730.5
45°	2551.0	2563.5	2597.1	2684.6	2688.7	2593.3	2430.8	2376.8	2355.8	2511.4	1826.8
47.5°	2436.8	2450.3	2542.5	2714.8	2841.8	2863.5	2744.3	2636.0	2547.5	2659.2	1905.9
50°	2091.0	2124.9	2300.6	2605.3	2872.0	3080.0	3043.3	2896.4	2717.9	2773.4	1955.4
52.5°	1790.7	1789.5	1897.7	2295.9	2746.1	3175.4	3332.6	3164.4	2886.4	2845.9	1968.0
55°	1311.3	1318.5	1429.2	1755.9	2410.4	3083.1	3491.7	3411.0	3079.7	2884.5	1963.0
57.5°	679.9	715.7	829.3	1120.5	1831.5	2765.6	3449.3	3503.0	3276.1	2911.8	1969.6
60°	343.6	336.7	377.5	535.0	1061.2	2160.0	3188.3	3359.3	3311.6	2933.2	1973.6
62.5°	229.4	227.5	216.2	247.9	433.6	1279.3	2717.9	2957.6	3065.3	2883.0	1921.6
65°	198.6	194.9	174.1	172.9	210.5	530.6	1992.1	2325.1	2533.4	2659.9	1797.0
67.5°	178.9	173.2	152.2	141.8	151.2	233.1	1122.7	1559.5	1870.7	2249.4	1524.0
70°	159.7	156.9	135.9	120.8	119.9	142.1	413.6	804.8	1144.6	1534.7	1114.2
72.5°	143.1	138.1	120.2	105.7	98.5	100.7	179.5	310.0	592.4	957.3	666.5
75°	123.9	120.2	104.5	90.1	81.3	73.7	109.5	143.4	270.2	455.0	314.7
77.5°	95.7	93.2	82.5	71.5	66.5	54.9	66.5	90.4	124.9	191.7	163.8
80°	55.5	57.1	61.5	55.9	48.9	39.2	43.3	52.1	75.0	103.9	92.9
82.5°	27.9	29.8	39.8	32.3	29.2	22.9	25.7	30.7	39.2	57.4	36.4
85°	2.2	2.2	7.2	8.2	10.0	8.2	10.4	12.6	17.9	22.9	12.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.6	2.8	5.3	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P629722
 CATALOG NUMBER: GWS-SA1C-730-U-AFL-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1096.0	1080.0	1060.9	1045.2	1021.0	1008.2	991.8	971.8	963.6	959.8	957.6
5°	1098.2	1070.0	1029.2	991.5	949.8	916.8	880.1	841.9	819.9	814.6	810.8
7.5°	1106.4	1066.8	1001.9	939.8	862.3	790.4	720.4	651.1	615.6	602.1	600.9
10°	1117.7	1065.6	974.3	871.0	740.2	626.6	544.7	490.4	467.5	460.0	457.5
12.5°	1131.8	1064.6	937.9	775.6	599.3	492.0	445.2	436.5	439.6	439.0	439.0
15°	1149.7	1065.9	893.9	667.7	484.8	427.0	428.0	438.3	448.1	449.6	449.6
17.5°	1169.1	1064.6	830.2	559.5	416.1	411.7	426.1	440.5	449.3	450.6	450.6
20°	1190.1	1058.7	749.9	457.5	385.9	401.9	417.6	428.9	434.3	435.5	435.5
22.5°	1202.7	1041.7	662.7	387.2	366.8	386.6	396.9	408.5	409.2	399.1	398.8
25°	1200.8	1010.0	563.2	342.0	346.4	363.7	376.8	368.7	358.6	353.0	352.1
27.5°	1188.9	962.3	461.9	307.8	322.2	341.7	337.6	330.7	328.2	321.9	321.3
30°	1173.8	903.7	370.9	281.1	297.1	315.0	308.8	308.1	305.6	298.7	298.7
32.5°	1159.4	843.1	302.2	261.4	281.1	282.4	291.2	291.8	290.6	278.6	277.4
35°	1155.3	782.6	255.7	245.7	265.5	264.8	277.4	277.1	255.4	238.8	238.5
37.5°	1167.6	721.1	228.1	232.8	243.8	252.0	262.0	243.8	236.6	226.5	225.9
40°	1193.6	664.3	214.0	225.3	230.0	241.9	226.2	227.5	225.6	218.1	217.1
42.5°	1228.1	615.9	206.1	222.8	222.2	225.3	208.0	213.1	215.9	210.2	209.3
45°	1261.4	573.9	202.1	213.4	216.5	198.3	194.9	199.6	204.0	201.8	200.8
47.5°	1285.8	537.5	199.9	200.5	209.3	189.2	183.6	185.8	191.1	192.0	191.7
50°	1293.4	506.4	197.4	189.8	188.0	180.1	175.7	175.1	181.4	185.8	186.4
52.5°	1278.9	478.8	190.8	180.4	171.3	172.6	171.0	167.9	174.1	180.1	180.7
55°	1257.6	463.1	180.4	171.3	160.7	165.7	166.3	163.5	167.6	171.6	171.6
57.5°	1259.2	472.2	170.4	162.8	151.2	157.8	161.3	160.0	160.0	163.2	163.5
60°	1269.5	485.4	163.8	152.2	141.8	148.7	156.6	155.3	152.5	156.6	156.6
62.5°	1239.7	467.8	159.4	141.8	131.8	139.9	149.4	148.7	145.6	152.2	152.8
65°	1151.9	420.8	154.4	129.0	121.7	131.2	139.3	141.5	138.7	147.5	149.0
67.5°	965.5	353.9	144.6	116.7	111.7	120.5	128.3	131.5	129.3	139.6	140.9
70°	719.8	286.5	129.3	103.2	99.5	107.3	114.5	115.8	116.1	128.3	129.6
72.5°	459.1	222.8	108.9	88.2	85.3	91.3	96.6	101.7	103.9	115.5	115.2
75°	256.0	165.7	87.5	74.7	69.7	74.4	80.6	86.6	92.9	109.8	111.7
77.5°	147.5	116.4	69.3	59.9	54.0	59.0	64.3	72.8	91.6	106.4	104.5
80°	83.2	75.6	52.4	43.9	40.2	43.9	48.0	64.0	72.2	78.4	79.4
82.5°	38.9	42.4	35.8	27.0	27.0	29.5	33.3	49.6	54.6	44.6	38.9
85°	14.1	19.1	17.6	13.8	12.2	11.9	20.7	28.2	17.6	15.7	13.5
87.5°	3.8	5.3	5.0	3.5	1.9	1.6	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)