

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: P631539

Luminaire Tested: GWS-SA1F-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3929.9 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

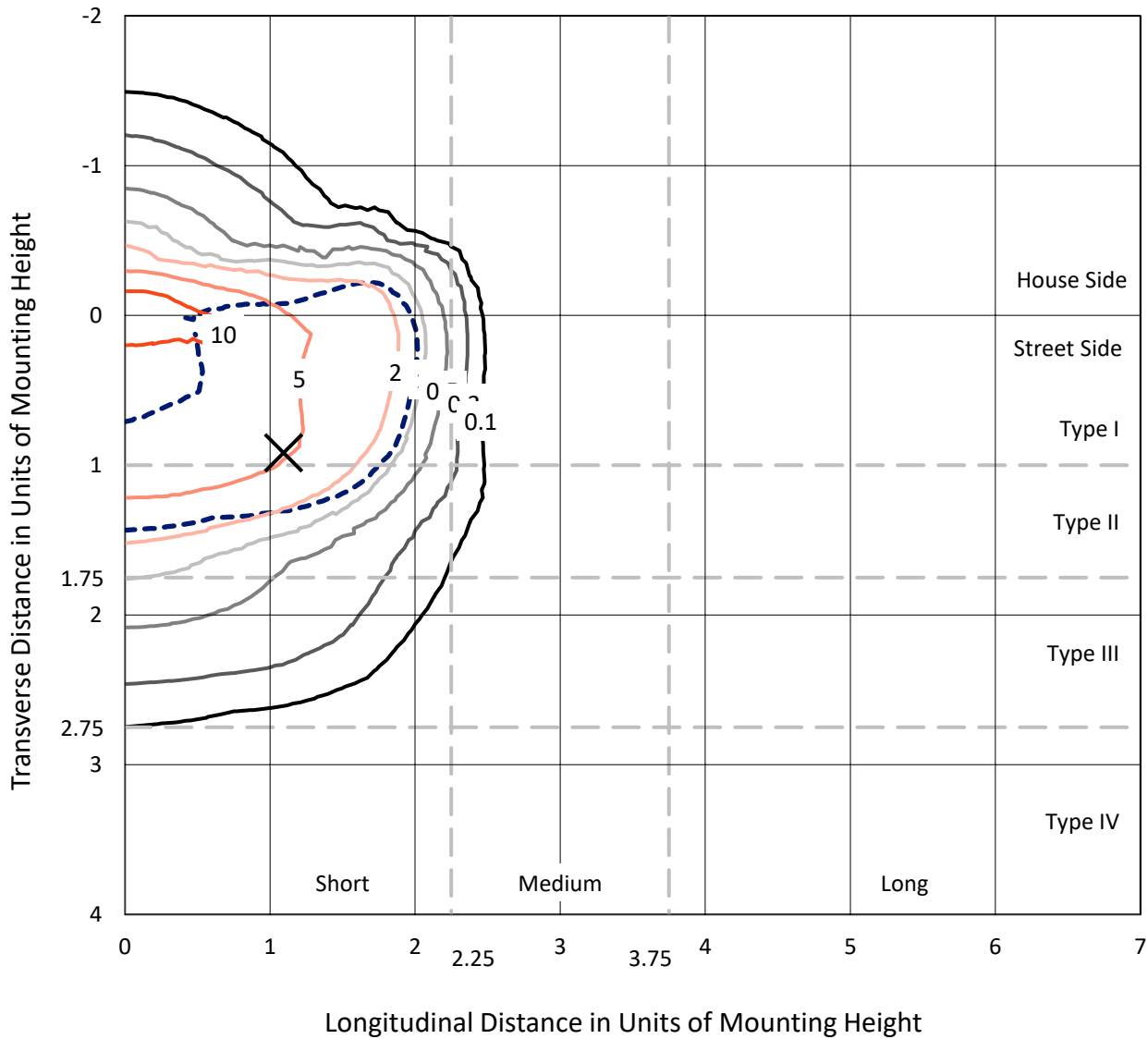
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

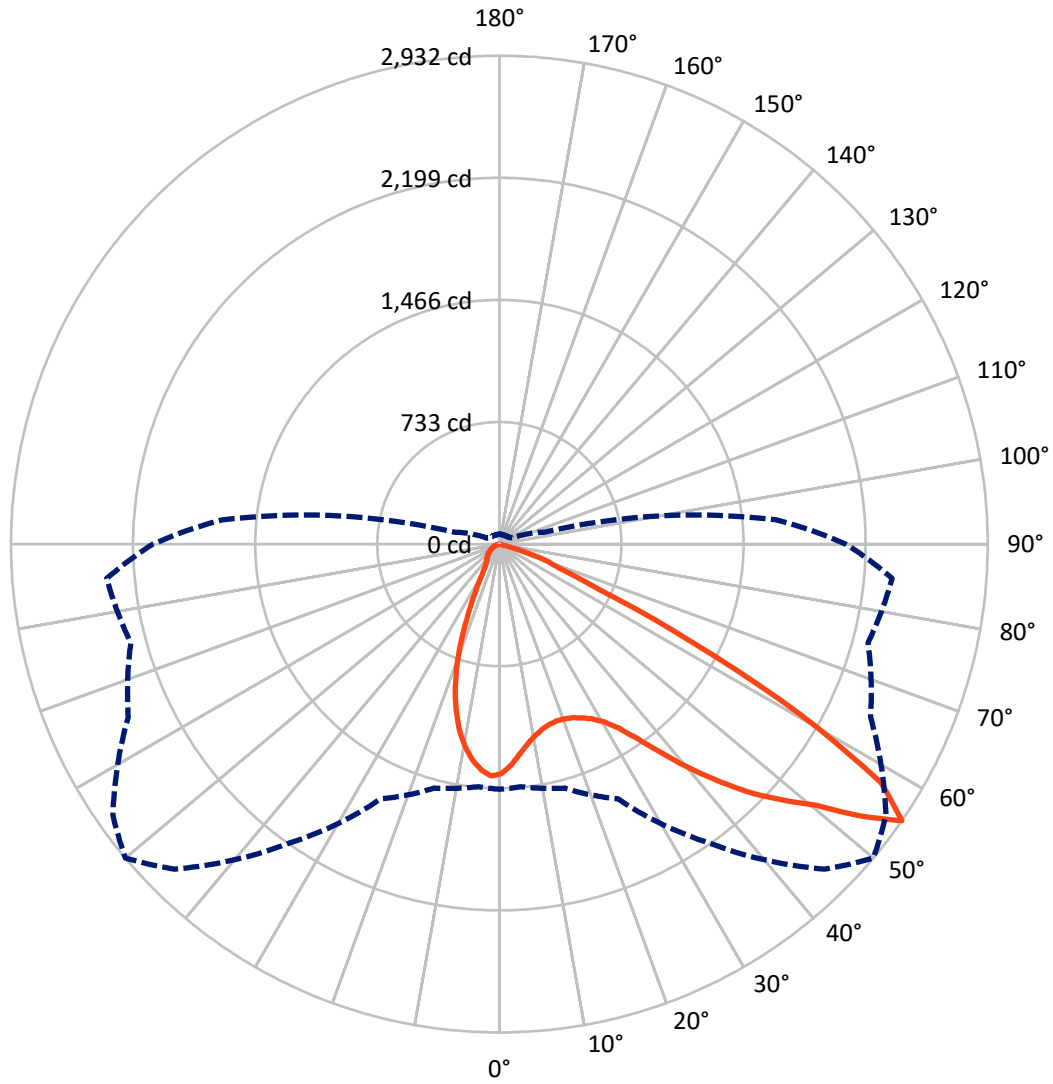
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	774.4	0.0	774.4
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	3155.5	0.0	3155.5
	% Fixture	80.3	0.0	80.3
Total	Lumens	3929.9	0.0	3929.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.1
10°-20°	298.0	7.6
20°-30°	420.3	10.7
30°-40°	622.0	15.8
40°-50°	897.3	22.8
50°-60°	1058.5	26.9
60°-70°	472.2	12.0
70°-80°	40.6	1.0
80°-90°	0.0	0.0
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°	3929.9	100.0
0°-180°	3929.9	100.0

Coefficient of Utilization



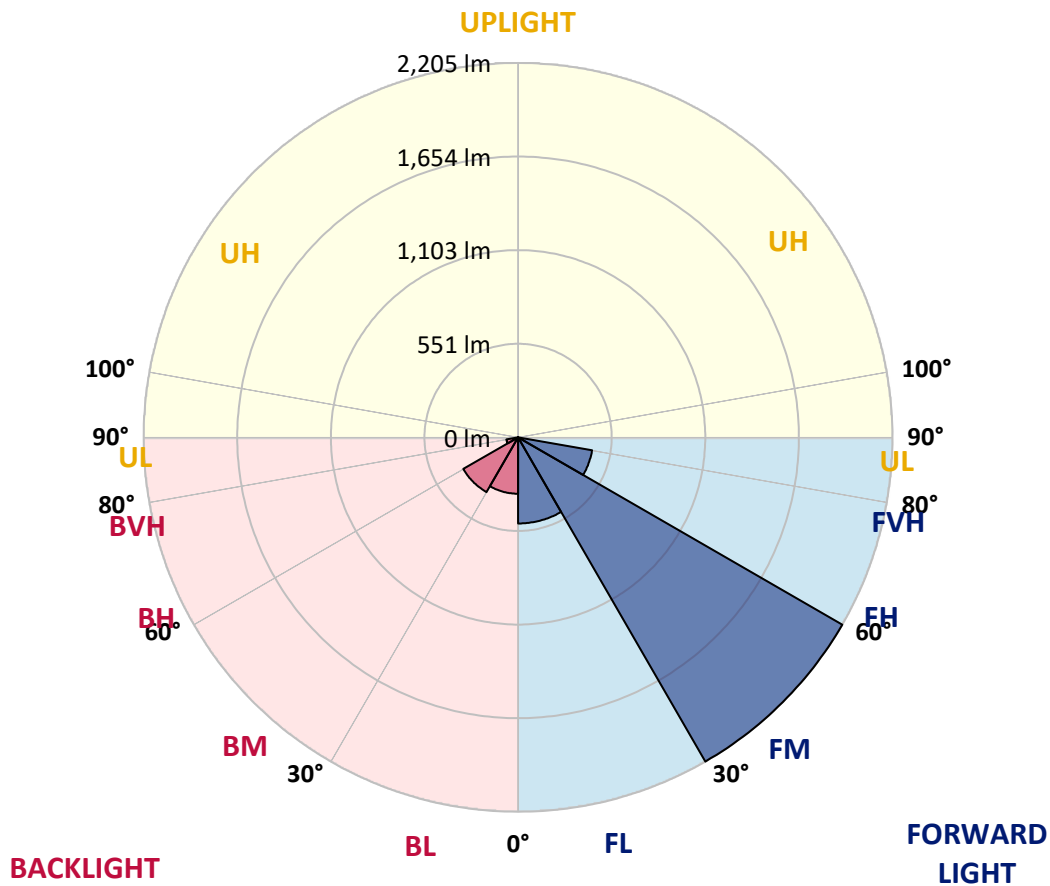
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	507.4	12.9			
FM (30°-60°)	2205.3	56.1			
FH (60°-80°)	442.8	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	332.0	8.4	B1/500		
BM (30°-60°)	372.4	9.5	B1/1000		
BH (60°-80°)	69.9	1.8	B0/110		G0/110
BVH (80°-90°)	0.0	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-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8
2.5°	1281.0	1281.9	1282.4	1295.3	1300.1	1319.3	1329.4	1334.7	1348.6	1364.9	1378.3
5°	1195.1	1193.6	1196.0	1212.4	1222.9	1251.2	1266.6	1277.1	1307.8	1346.2	1378.3
7.5°	1120.2	1123.1	1126.0	1143.7	1159.6	1190.3	1212.4	1228.2	1270.9	1328.0	1382.2
10°	1067.5	1067.5	1071.8	1091.9	1110.6	1148.5	1170.6	1190.8	1241.6	1311.7	1386.5
12.5°	1028.6	1029.1	1034.4	1057.4	1079.0	1118.3	1141.3	1161.0	1217.1	1295.3	1387.5
15°	1010.4	1008.9	1013.3	1037.7	1061.7	1098.6	1122.6	1141.8	1199.9	1286.2	1392.3
17.5°	1005.6	1004.6	1008.0	1032.0	1056.4	1092.4	1115.9	1135.1	1197.5	1289.1	1406.7
20°	1019.5	1017.6	1016.1	1036.8	1059.8	1095.3	1119.8	1141.3	1209.0	1304.9	1428.7
22.5°	1052.6	1052.6	1049.2	1059.3	1074.7	1106.8	1132.2	1160.5	1239.2	1336.6	1461.3
25°	1113.5	1108.7	1102.5	1106.8	1104.9	1125.0	1155.3	1194.6	1296.3	1388.9	1501.2
27.5°	1183.1	1187.4	1176.8	1177.3	1160.5	1153.3	1188.4	1247.9	1381.2	1462.8	1560.2
30°	1277.6	1274.2	1274.7	1273.3	1234.4	1200.4	1238.3	1317.4	1488.2	1575.5	1636.9
32.5°	1351.5	1356.3	1372.1	1381.2	1330.4	1275.7	1316.0	1411.9	1610.1	1704.1	1731.0
35°	1429.7	1438.3	1470.5	1500.2	1457.5	1394.7	1437.8	1537.1	1724.7	1831.2	1838.9
37.5°	1512.2	1529.5	1567.9	1620.1	1613.4	1557.8	1597.1	1684.4	1814.9	1908.0	1928.2
40°	1606.7	1623.5	1686.4	1761.7	1777.5	1765.0	1778.0	1828.8	1874.4	1911.4	1966.5
42.5°	1710.3	1733.4	1813.0	1913.8	1973.2	1984.3	1954.1	1948.8	1900.3	1873.0	1958.4
45°	1832.7	1859.5	1949.7	2080.2	2174.7	2189.6	2137.3	2069.7	1916.6	1844.7	1933.9
47.5°	1969.9	1995.3	2085.0	2241.9	2382.5	2388.2	2297.1	2188.2	1965.1	1877.3	1952.6
50°	2015.9	2031.8	2109.5	2293.7	2552.8	2596.9	2465.0	2321.6	2062.5	1973.2	2043.8
52.5°	1857.6	1863.9	1931.5	2117.7	2518.3	2801.8	2710.2	2520.7	2235.7	2119.6	2184.3
55°	1471.9	1461.8	1516.5	1687.3	2188.7	2760.1	2932.3	2833.5	2458.8	2291.3	2367.1
57.5°	1029.6	1017.6	1005.1	1120.7	1633.1	2339.8	2702.0	2877.1	2671.3	2461.6	2564.3
60°	846.3	834.8	774.3	721.1	987.3	1680.1	2075.4	2405.0	2654.0	2453.0	2558.1
62.5°	731.2	724.4	700.0	627.5	581.0	959.0	1299.7	1615.3	2036.6	1926.2	1932.0
65°	574.3	572.4	589.1	596.8	513.8	530.6	663.0	839.6	1101.0	1038.2	984.5
67.5°	392.4	388.1	419.8	516.2	494.2	418.8	388.1	391.5	476.4	291.2	231.2
70°	249.5	239.4	239.9	320.0	402.0	330.6	299.4	263.4	237.0	43.2	48.9
72.5°	159.8	153.5	131.9	144.4	186.1	161.2	162.6	140.1	93.6	23.0	26.9
75°	67.2	61.9	47.5	37.9	37.4	23.5	20.6	19.2	13.0	13.0	13.9
77.5°	0.5	0.0	0.0	0.5	1.0	0.5	0.5	1.0	1.9	2.9	3.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8	1378.8
2.5°	1386.5	1375.0	1387.9	1392.7	1392.3	1392.7	1378.8	1369.2	1368.8	1356.8	1351.0
5°	1391.8	1382.7	1392.3	1386.0	1371.2	1352.4	1327.5	1305.9	1296.3	1282.4	1275.7
7.5°	1401.9	1392.3	1390.8	1365.9	1328.9	1289.6	1245.5	1206.1	1185.0	1159.6	1161.0
10°	1409.1	1398.0	1379.3	1328.5	1267.0	1204.2	1138.5	1079.9	1043.0	1008.9	1003.2
12.5°	1411.9	1395.6	1352.0	1275.2	1188.8	1106.8	1010.4	926.9	869.3	824.7	818.5
15°	1417.2	1390.8	1316.9	1210.9	1092.4	976.3	853.5	739.3	663.0	611.7	616.0
17.5°	1425.4	1385.5	1277.6	1138.9	988.8	824.7	658.7	527.7	457.7	427.9	428.4
20°	1436.9	1379.3	1234.4	1059.8	864.5	653.4	460.6	361.7	342.1	341.1	339.7
22.5°	1452.2	1373.1	1188.4	973.0	717.2	457.7	306.6	275.9	284.0	299.8	302.7
25°	1470.5	1365.4	1137.0	875.1	556.5	300.3	229.8	225.0	244.7	265.8	270.6
27.5°	1498.8	1361.6	1078.5	763.8	390.5	215.4	188.1	190.9	208.7	226.4	230.8
30°	1546.7	1368.8	1014.7	639.0	250.9	171.8	163.1	167.4	177.0	186.1	190.0
32.5°	1612.0	1389.9	952.8	502.8	179.0	149.2	147.3	149.7	153.5	158.8	160.2
35°	1688.3	1426.3	889.0	359.8	147.8	136.3	134.3	134.3	136.3	137.2	137.7
37.5°	1751.1	1464.7	829.0	239.4	132.4	126.2	123.3	121.9	121.4	122.3	122.8
40°	1778.5	1480.5	763.8	174.2	121.4	117.1	112.7	108.4	108.4	111.8	112.3
42.5°	1759.3	1462.8	688.5	143.9	113.7	107.5	100.7	96.9	98.8	102.2	103.1
45°	1718.5	1419.1	605.5	127.1	106.0	97.9	90.2	87.8	89.7	94.0	95.0
47.5°	1711.8	1390.3	506.1	116.1	97.9	89.7	81.6	79.2	81.6	84.9	85.9
50°	1778.5	1415.3	395.8	106.5	90.2	81.1	74.4	72.0	73.4	75.3	76.3
52.5°	1900.3	1507.9	319.5	97.4	81.1	72.4	68.1	65.2	65.2	67.2	67.6
55°	2080.2	1669.6	275.9	86.8	70.5	65.7	61.9	59.0	59.0	60.0	60.4
57.5°	2287.5	1865.3	285.9	72.9	61.9	59.5	56.1	53.7	54.7	54.7	54.7
60°	2258.7	1850.9	306.1	61.4	54.7	53.7	50.9	49.9	52.3	50.4	49.4
62.5°	1663.8	1278.6	160.2	50.4	47.0	46.1	44.1	46.1	49.4	44.1	42.2
65°	807.9	618.9	64.3	41.3	39.8	38.9	37.9	40.8	42.7	34.5	32.6
67.5°	190.0	154.5	41.7	35.0	33.1	31.2	32.1	32.6	31.2	23.5	22.5
70°	49.4	48.5	32.6	29.3	26.4	24.5	24.5	24.0	20.6	14.9	13.9
72.5°	26.9	26.4	23.5	22.1	18.2	16.3	16.8	14.9	11.5	8.6	8.2
75°	13.4	14.4	13.4	12.5	10.1	9.1	9.1	8.2	5.8	3.4	3.4
77.5°	2.9	3.4	3.4	2.9	2.4	1.9	1.9	2.4	1.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)