

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: P631814

Luminaire Tested: GWS-SA2B-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631814
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-SA2B-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4052.3 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

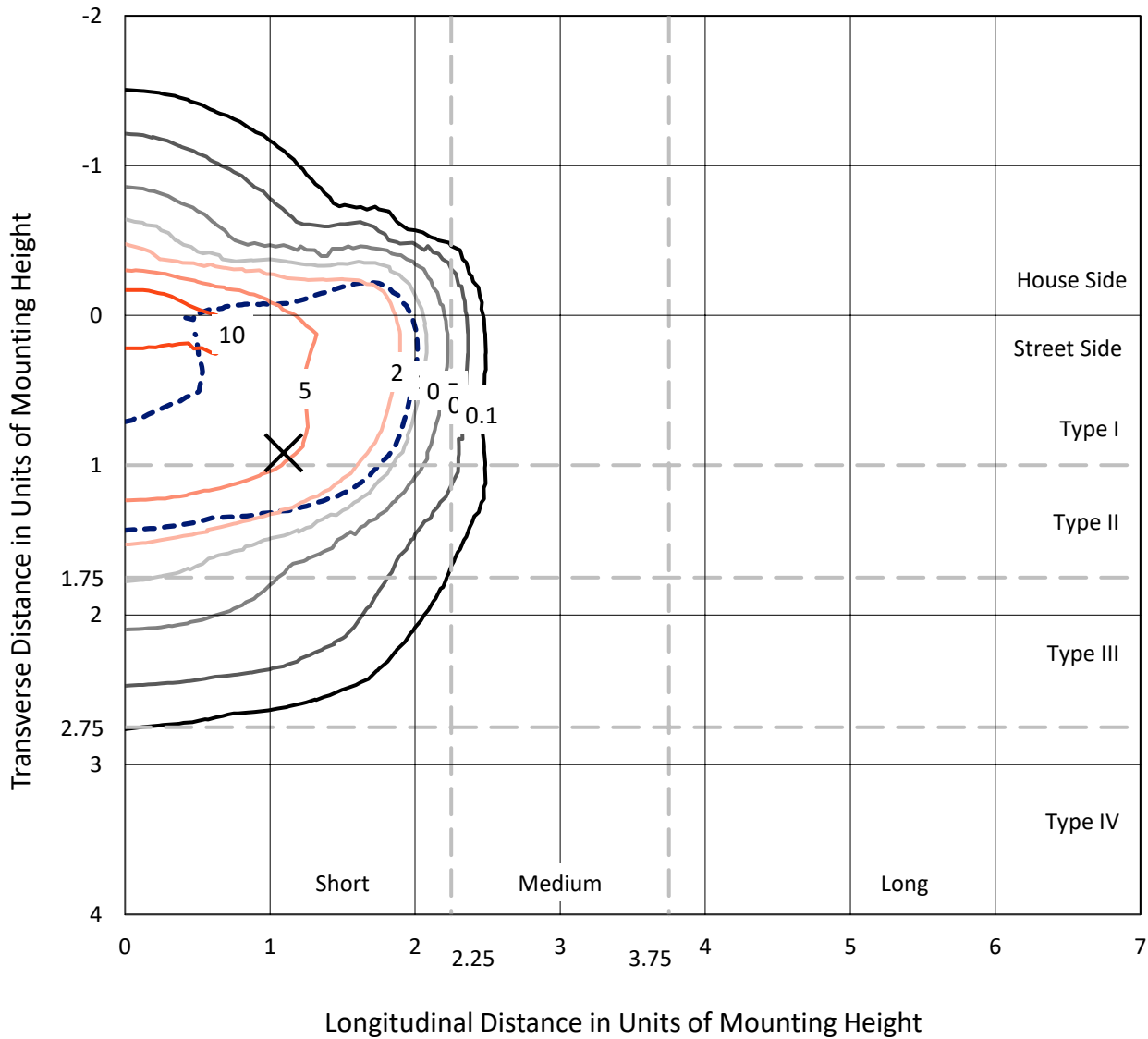
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

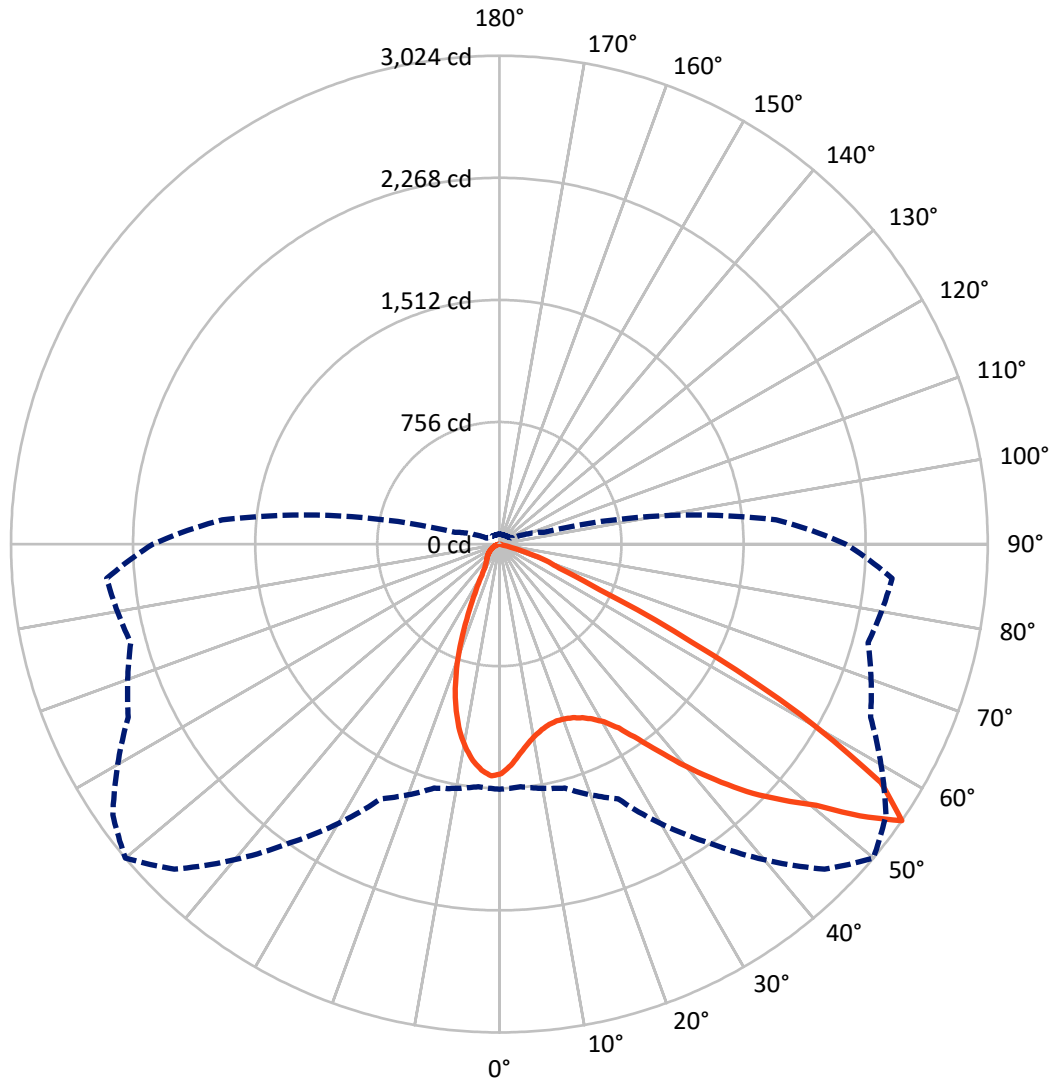
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 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	798.5	0.0	798.5
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	3253.8	0.0	3253.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	4052.3	0.0	4052.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	3.1
10°-20°	307.3	7.6
20°-30°	433.4	10.7
30°-40°	641.4	15.8
40°-50°	925.3	22.8
50°-60°	1091.4	26.9
60°-70°	486.9	12.0
70°-80°	41.9	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°	4052.3	100.0
0°-180°	4052.3	100.0

Coefficient of Utilization



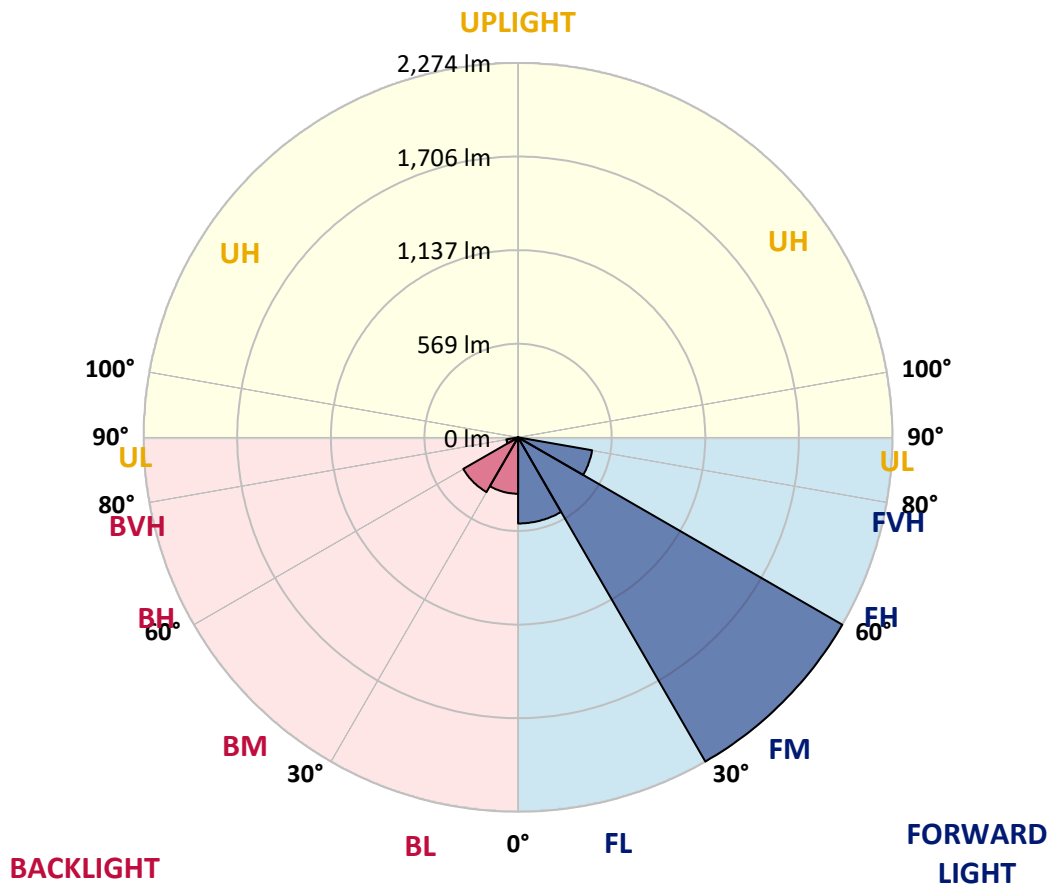
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.2	12.9			
FM (30°-60°)	2274.0	56.1			
FH (60°-80°)	456.6	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	342.4	8.4	B1/500		
BM (30°-60°)	384.0	9.5	B1/1000		
BH (60°-80°)	72.1	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°	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1320.9	1321.8	1322.3	1335.7	1340.6	1360.4	1370.8	1376.3	1390.6	1407.4	1421.3
5°	1232.3	1230.8	1233.3	1250.1	1261.0	1290.2	1306.0	1316.9	1348.6	1388.1	1421.3
7.5°	1155.1	1158.1	1161.1	1179.4	1195.7	1227.4	1250.1	1266.4	1310.5	1369.3	1425.2
10°	1100.7	1100.7	1105.2	1125.9	1145.2	1184.3	1207.1	1227.8	1280.3	1352.5	1429.7
12.5°	1060.6	1061.1	1066.6	1090.3	1112.6	1153.1	1176.9	1197.2	1255.1	1335.7	1430.7
15°	1041.8	1040.4	1044.8	1070.0	1094.8	1132.9	1157.6	1177.4	1237.2	1326.3	1435.6
17.5°	1036.9	1035.9	1039.4	1064.1	1089.3	1126.4	1150.7	1170.5	1234.8	1329.3	1450.5
20°	1051.2	1049.3	1047.8	1069.0	1092.8	1129.4	1154.6	1176.9	1246.6	1345.6	1473.2
22.5°	1085.4	1085.4	1081.9	1092.3	1108.1	1141.3	1167.5	1196.7	1277.8	1378.2	1506.9
25°	1148.2	1143.3	1136.8	1141.3	1139.3	1160.1	1191.2	1231.8	1336.7	1432.2	1547.9
27.5°	1219.9	1224.4	1213.5	1214.0	1196.7	1189.3	1225.4	1286.7	1424.2	1508.3	1608.8
30°	1317.4	1313.9	1314.4	1312.9	1272.9	1237.7	1276.8	1358.5	1534.6	1624.6	1687.9
32.5°	1393.6	1398.5	1414.8	1424.2	1371.8	1315.4	1357.0	1455.9	1660.2	1757.2	1784.9
35°	1474.2	1483.1	1516.3	1546.9	1502.9	1438.1	1482.6	1585.0	1778.5	1888.3	1896.2
37.5°	1559.3	1577.1	1616.7	1670.6	1663.7	1606.3	1646.9	1736.9	1871.5	1967.4	1988.2
40°	1656.8	1674.1	1738.9	1816.5	1832.9	1820.0	1833.4	1885.8	1932.8	1970.9	2027.8
42.5°	1763.6	1787.4	1869.5	1973.4	2034.7	2046.1	2014.9	2009.5	1959.5	1931.3	2019.4
45°	1889.8	1917.5	2010.5	2145.0	2242.5	2257.8	2203.9	2134.1	1976.3	1902.1	1994.1
47.5°	2031.2	2057.5	2150.0	2311.7	2456.7	2462.6	2368.6	2256.3	2026.3	1935.8	2013.4
50°	2078.7	2095.1	2175.2	2365.2	2632.3	2677.8	2541.8	2393.9	2126.7	2034.7	2107.4
52.5°	1915.5	1921.9	1991.7	2183.6	2596.7	2889.1	2794.6	2599.2	2305.3	2185.6	2252.4
55°	1517.7	1507.4	1563.8	1739.9	2256.8	2846.0	3023.6	2921.7	2535.3	2362.7	2440.9
57.5°	1061.6	1049.3	1036.4	1155.6	1684.0	2412.7	2786.2	2966.7	2754.5	2538.3	2644.2
60°	872.7	860.8	798.4	743.5	1018.1	1732.4	2140.1	2479.9	2736.7	2529.4	2637.7
62.5°	753.9	747.0	721.8	647.1	599.1	988.9	1340.1	1665.7	2100.0	1986.2	1992.2
65°	592.2	590.2	607.5	615.4	529.8	547.1	683.7	865.7	1135.3	1070.5	1015.1
67.5°	404.7	400.2	432.9	532.3	509.5	431.9	400.2	403.7	491.2	300.3	238.4
70°	257.2	246.9	247.4	330.0	414.6	340.8	308.7	271.6	244.4	44.5	50.5
72.5°	164.7	158.3	136.0	148.9	191.9	166.2	167.7	144.5	96.5	23.7	27.7
75°	69.3	63.8	49.0	39.1	38.6	24.2	21.3	19.8	13.4	13.4	14.3
77.5°	0.5	0.0	0.0	0.5	1.0	0.5	0.5	1.0	2.0	3.0	3.5
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°	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8	1421.8
2.5°	1429.7	1417.8	1431.2	1436.1	1435.6	1436.1	1421.8	1411.9	1411.4	1399.0	1393.1
5°	1435.1	1425.7	1435.6	1429.2	1413.9	1394.6	1368.8	1346.6	1336.7	1322.3	1315.4
7.5°	1445.5	1435.6	1434.1	1408.4	1370.3	1329.8	1284.2	1243.7	1221.9	1195.7	1197.2
10°	1452.9	1441.6	1422.3	1369.8	1306.5	1241.7	1173.9	1113.6	1075.5	1040.4	1034.4
12.5°	1455.9	1439.1	1394.1	1314.9	1225.9	1141.3	1041.8	955.8	896.4	850.4	844.0
15°	1461.3	1434.1	1358.0	1248.6	1126.4	1006.7	880.1	762.3	683.7	630.7	635.2
17.5°	1469.8	1428.7	1317.4	1174.4	1019.6	850.4	679.2	544.2	471.9	441.3	441.8
20°	1481.6	1422.3	1272.9	1092.8	891.5	673.8	474.9	373.0	352.7	351.7	350.2
22.5°	1497.5	1415.8	1225.4	1003.3	739.6	471.9	316.1	284.5	292.9	309.2	312.2
25°	1516.3	1407.9	1172.4	902.3	573.9	309.7	237.0	232.0	252.3	274.1	279.0
27.5°	1545.4	1404.0	1112.1	787.6	402.7	222.1	193.9	196.9	215.2	233.5	238.0
30°	1594.9	1411.4	1046.3	658.9	258.7	177.1	168.2	172.7	182.5	191.9	195.9
32.5°	1662.2	1433.2	982.5	518.4	184.5	153.9	151.9	154.3	158.3	163.7	165.2
35°	1740.9	1470.7	916.7	371.0	152.4	140.5	138.5	138.5	140.5	141.5	142.0
37.5°	1805.7	1510.3	854.8	246.9	136.5	130.1	127.1	125.7	125.2	126.1	126.6
40°	1833.9	1526.6	787.6	179.6	125.2	120.7	116.3	111.8	111.8	115.3	115.8
42.5°	1814.1	1508.3	709.9	148.4	117.2	110.8	103.9	99.9	101.9	105.4	106.4
45°	1772.0	1463.3	624.3	131.1	109.3	100.9	93.0	90.5	92.5	97.0	98.0
47.5°	1765.1	1433.6	521.9	119.7	100.9	92.5	84.1	81.6	84.1	87.6	88.6
50°	1833.9	1459.4	408.1	109.8	93.0	83.6	76.7	74.2	75.7	77.7	78.7
52.5°	1959.5	1554.8	329.5	100.4	83.6	74.7	70.2	67.3	67.3	69.3	69.8
55°	2145.0	1721.6	284.5	89.5	72.7	67.8	63.8	60.8	60.8	61.8	62.3
57.5°	2358.7	1923.4	294.8	75.2	63.8	61.3	57.9	55.4	56.4	56.4	56.4
60°	2329.1	1908.6	315.6	63.3	56.4	55.4	52.4	51.4	53.9	51.9	51.0
62.5°	1715.6	1318.4	165.2	51.9	48.5	47.5	45.5	47.5	51.0	45.5	43.5
65°	833.1	638.2	66.3	42.5	41.1	40.1	39.1	42.0	44.0	35.6	33.6
67.5°	195.9	159.3	43.0	36.1	34.1	32.2	33.1	33.6	32.2	24.2	23.3
70°	51.0	50.0	33.6	30.2	27.2	25.2	25.2	24.7	21.3	15.3	14.3
72.5°	27.7	27.2	24.2	22.8	18.8	16.8	17.3	15.3	11.9	8.9	8.4
75°	13.9	14.8	13.9	12.9	10.4	9.4	9.4	8.4	5.9	3.5	3.5
77.5°	3.0	3.5	3.5	3.0	2.5	2.0	2.0	2.5	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)