

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: P631264

Luminaire Tested: GWS-SA1F-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631264
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4879.2 lumens
Efficiency: N/A
Efficacy: 72.6 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

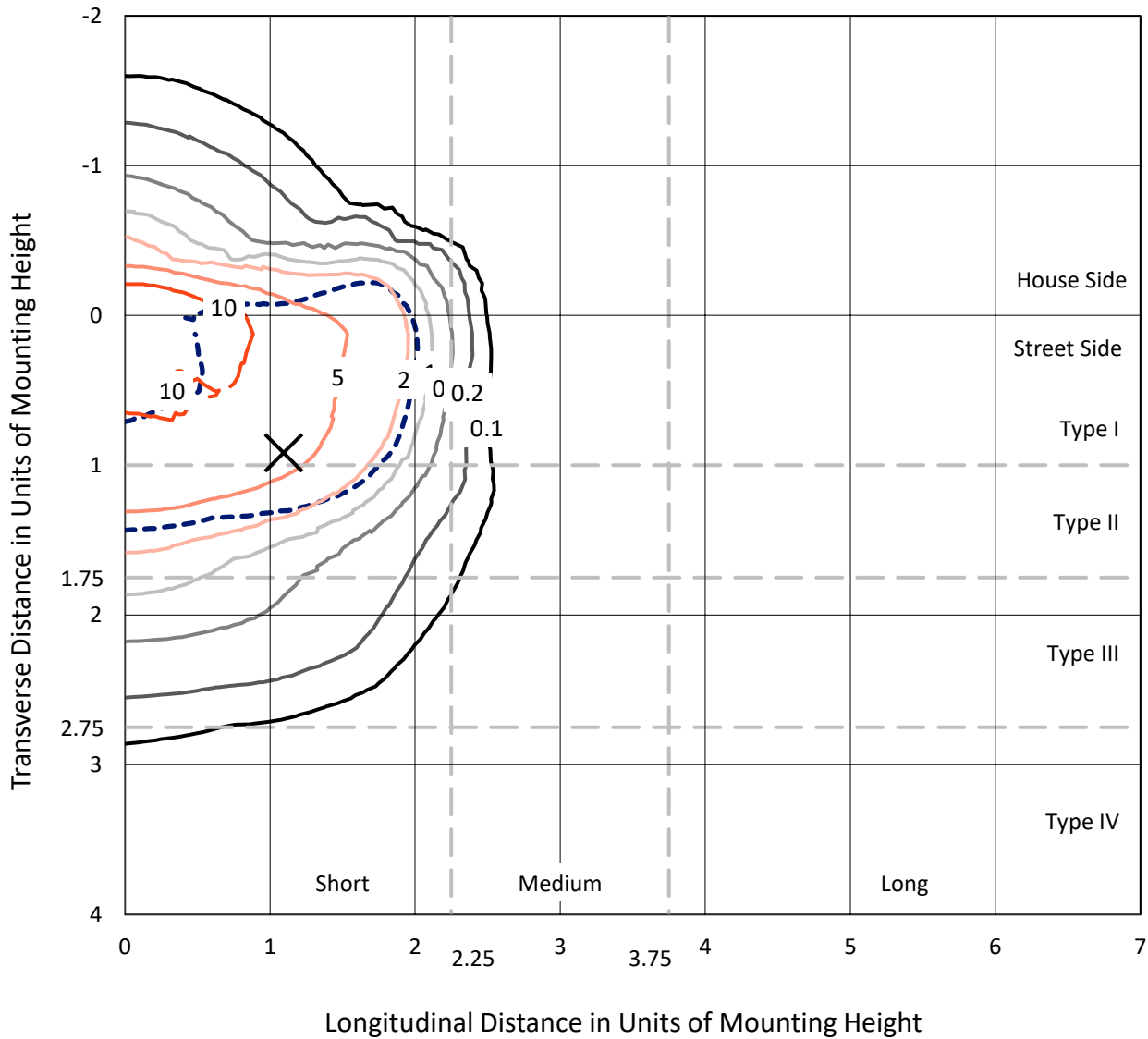
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

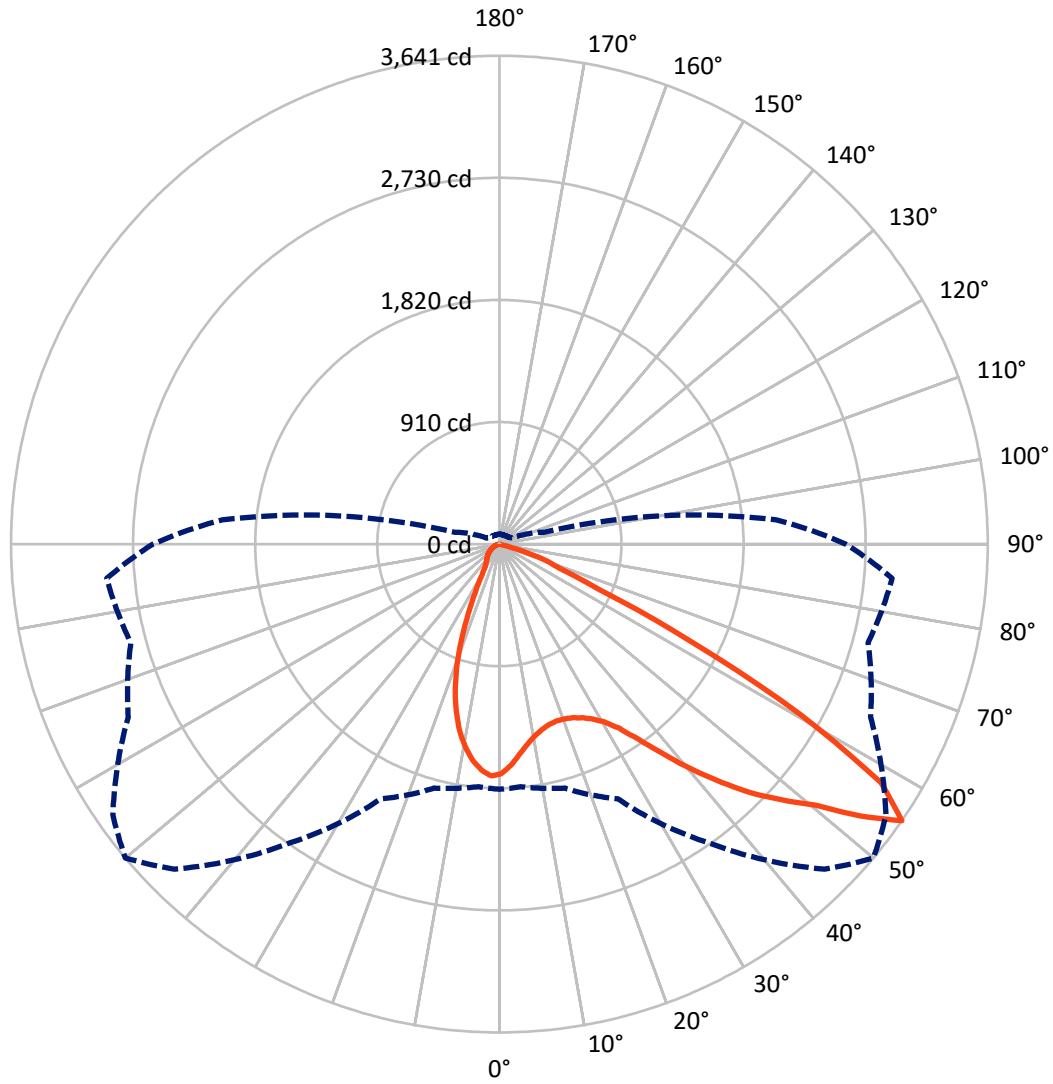
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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	961.4	0.0	961.4
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	3917.8	0.0	3917.8
	% Fixture	80.3	0.0	80.3
Total	Lumens	4879.2	0.0	4879.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	3.1
10°-20°	370.0	7.6
20°-30°	521.8	10.7
30°-40°	772.2	15.8
40°-50°	1114.1	22.8
50°-60°	1314.1	26.9
60°-70°	586.2	12.0
70°-80°	50.4	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°	4879.2	100.0
0°-180°	4879.2	100.0

Coefficient of Utilization



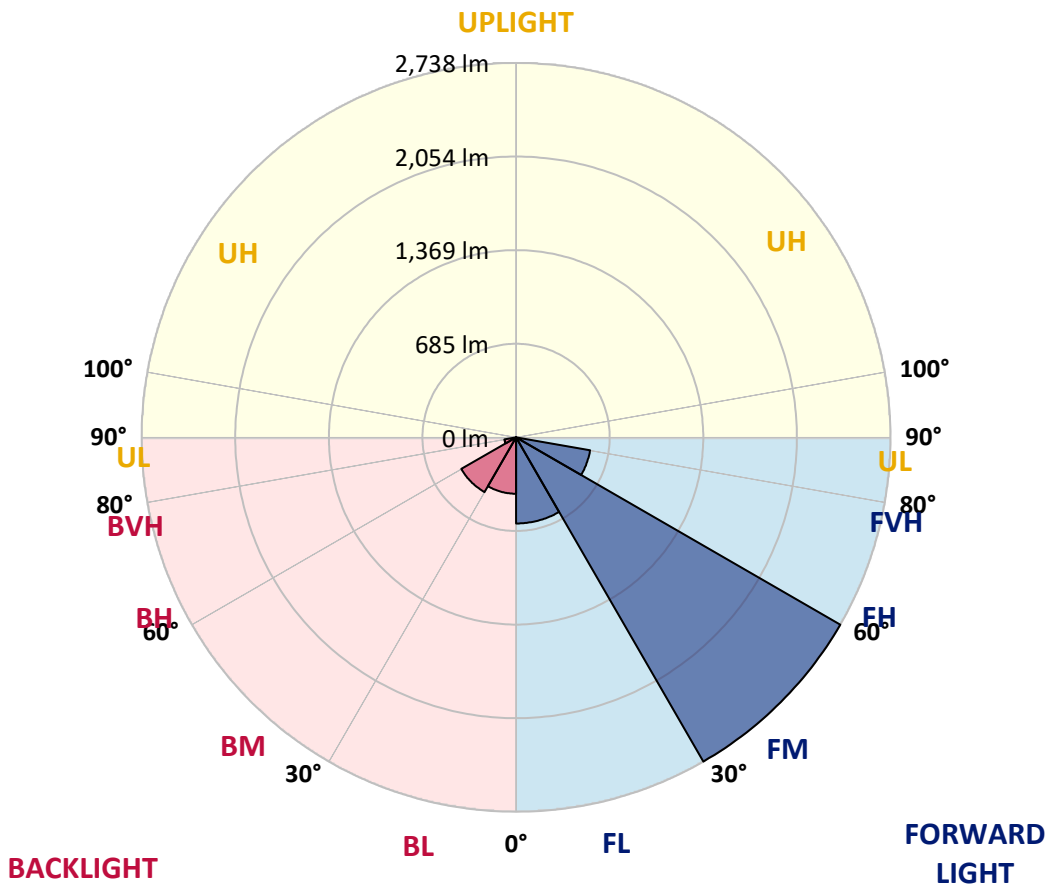
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	629.9	12.9			
FM (30°-60°)	2738.0	56.1			
FH (60°-80°)	549.8	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	412.2	8.4	B1/500		
BM (30°-60°)	462.4	9.5	B1/1000		
BH (60°-80°)	86.8	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°	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9
2.5°	1590.4	1591.6	1592.2	1608.3	1614.2	1638.0	1650.5	1657.1	1674.4	1694.6	1711.3
5°	1483.8	1482.0	1485.0	1505.2	1518.3	1553.5	1572.5	1585.6	1623.7	1671.4	1711.3
7.5°	1390.8	1394.4	1398.0	1420.0	1439.7	1477.8	1505.2	1524.9	1577.9	1648.8	1716.1
10°	1325.3	1325.3	1330.7	1355.7	1378.9	1426.0	1453.4	1478.4	1541.5	1628.5	1721.4
12.5°	1277.1	1277.7	1284.2	1312.8	1339.6	1388.5	1417.0	1441.5	1511.2	1608.3	1722.6
15°	1254.4	1252.6	1258.0	1288.4	1318.2	1364.0	1393.8	1417.6	1489.7	1596.9	1728.6
17.5°	1248.5	1247.3	1251.5	1281.2	1311.6	1356.3	1385.5	1409.3	1486.7	1600.5	1746.4
20°	1265.8	1263.4	1261.6	1287.2	1315.8	1359.9	1390.2	1417.0	1501.0	1620.2	1773.8
22.5°	1306.9	1306.9	1302.7	1315.2	1334.3	1374.2	1405.7	1440.9	1538.6	1659.5	1814.3
25°	1382.5	1376.5	1368.8	1374.2	1371.8	1396.8	1434.3	1483.2	1609.4	1724.4	1863.8
27.5°	1468.9	1474.2	1461.1	1461.7	1440.9	1431.9	1475.4	1549.3	1714.9	1816.1	1937.0
30°	1586.2	1582.0	1582.6	1580.9	1532.6	1490.3	1537.4	1635.7	1847.7	1956.1	2032.4
32.5°	1677.9	1683.9	1703.6	1714.9	1651.7	1583.8	1633.9	1753.0	1999.0	2115.7	2149.1
35°	1775.0	1785.8	1825.7	1862.6	1809.6	1731.6	1785.2	1908.5	2141.4	2273.6	2283.1
37.5°	1877.5	1898.9	1946.6	2011.5	2003.2	1934.1	1982.9	2091.3	2253.3	2368.9	2393.9
40°	1994.8	2015.7	2093.7	2187.2	2206.9	2191.4	2207.5	2270.6	2327.2	2373.1	2441.6
42.5°	2123.5	2152.1	2251.0	2376.0	2449.9	2463.6	2426.1	2419.5	2359.4	2325.4	2431.4
45°	2275.4	2308.7	2420.7	2582.7	2700.1	2718.5	2653.6	2569.6	2379.6	2290.3	2401.1
47.5°	2445.7	2477.3	2588.7	2783.5	2958.0	2965.1	2852.0	2716.8	2439.8	2330.8	2424.3
50°	2502.9	2522.6	2619.1	2847.8	3169.4	3224.2	3060.4	2882.3	2560.7	2449.9	2537.5
52.5°	2306.4	2314.1	2398.1	2629.2	3126.6	3478.6	3364.8	3129.5	2775.7	2631.6	2712.0
55°	1827.5	1814.9	1882.8	2094.9	2717.3	3426.8	3640.6	3517.9	3052.7	2844.8	2938.9
57.5°	1278.3	1263.4	1247.9	1391.4	2027.6	2905.0	3354.7	3572.1	3316.6	3056.3	3183.7
60°	1050.7	1036.4	961.4	895.3	1225.8	2086.0	2576.8	2986.0	3295.1	3045.6	3176.0
62.5°	907.8	899.4	869.1	779.1	721.3	1190.7	1613.6	2005.5	2528.5	2391.5	2398.7
65°	713.0	710.6	731.5	741.0	637.9	658.8	823.2	1042.4	1367.0	1289.0	1222.3
67.5°	487.2	481.9	521.2	640.9	613.5	520.0	481.9	486.0	591.5	361.6	287.1
70°	309.7	297.2	297.8	397.3	499.2	410.4	371.7	327.0	294.3	53.6	60.8
72.5°	198.4	190.6	163.8	179.3	231.1	200.1	201.9	173.9	116.2	28.6	33.4
75°	83.4	76.8	59.0	47.1	46.5	29.2	25.6	23.8	16.1	16.1	17.3
77.5°	0.6	0.0	0.0	0.6	1.2	0.6	0.6	1.2	2.4	3.6	4.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9	1711.9
2.5°	1721.4	1707.1	1723.2	1729.2	1728.6	1729.2	1711.9	1700.0	1699.4	1684.5	1677.3
5°	1728.0	1716.7	1728.6	1720.8	1702.4	1679.1	1648.2	1621.4	1609.4	1592.2	1583.8
7.5°	1740.5	1728.6	1726.8	1695.8	1649.9	1601.1	1546.3	1497.5	1471.3	1439.7	1441.5
10°	1749.4	1735.7	1712.5	1649.4	1573.1	1495.1	1413.5	1340.8	1294.9	1252.6	1245.5
12.5°	1753.0	1732.7	1678.5	1583.2	1476.0	1374.2	1254.4	1150.8	1079.3	1023.9	1016.2
15°	1759.5	1726.8	1635.1	1503.4	1356.3	1212.1	1059.7	917.9	823.2	759.5	764.8
17.5°	1769.7	1720.2	1586.2	1414.1	1227.6	1023.9	817.8	655.2	568.2	531.3	531.9
20°	1784.0	1712.5	1532.6	1315.8	1073.4	811.3	571.8	449.1	424.7	423.5	421.7
22.5°	1803.0	1704.7	1475.4	1208.0	890.5	568.2	380.6	342.5	352.6	372.3	375.9
25°	1825.7	1695.2	1411.7	1086.5	691.0	372.9	285.3	279.4	303.8	330.0	335.9
27.5°	1860.8	1690.5	1339.0	948.3	484.9	267.4	233.5	237.1	259.1	281.1	286.5
30°	1920.4	1699.4	1259.8	793.4	311.5	213.2	202.5	207.9	219.8	231.1	235.9
32.5°	2001.4	1725.6	1183.0	624.2	222.2	185.2	182.9	185.8	190.6	197.2	198.9
35°	2096.1	1770.9	1103.7	446.7	183.5	169.2	166.8	166.8	169.2	170.4	171.0
37.5°	2174.1	1818.5	1029.3	297.2	164.4	156.7	153.1	151.3	150.7	151.9	152.5
40°	2208.1	1838.2	948.3	216.2	150.7	145.3	140.0	134.6	134.6	138.8	139.4
42.5°	2184.2	1816.1	854.8	178.7	141.2	133.4	125.1	120.3	122.7	126.9	128.1
45°	2133.6	1761.9	751.7	157.8	131.6	121.5	112.0	109.0	111.4	116.7	117.9
47.5°	2125.3	1726.2	628.4	144.1	121.5	111.4	101.3	98.3	101.3	105.4	106.6
50°	2208.1	1757.2	491.4	132.2	112.0	100.7	92.3	89.3	91.1	93.5	94.7
52.5°	2359.4	1872.1	396.7	120.9	100.7	89.9	84.6	81.0	81.0	83.4	84.0
55°	2582.7	2072.9	342.5	107.8	87.6	81.6	76.8	73.3	73.3	74.5	75.1
57.5°	2840.1	2315.9	355.0	90.5	76.8	73.9	69.7	66.7	67.9	67.9	67.9
60°	2804.3	2298.0	380.0	76.2	67.9	66.7	63.1	61.9	64.9	62.5	61.4
62.5°	2065.7	1587.4	198.9	62.5	58.4	57.2	54.8	57.2	61.4	54.8	52.4
65°	1003.1	768.4	79.8	51.2	49.4	48.2	47.1	50.6	53.0	42.9	40.5
67.5°	235.9	191.8	51.8	43.5	41.1	38.7	39.9	40.5	38.7	29.2	28.0
70°	61.4	60.2	40.5	36.3	32.8	30.4	30.4	29.8	25.6	18.5	17.3
72.5°	33.4	32.8	29.2	27.4	22.6	20.3	20.8	18.5	14.3	10.7	10.1
75°	16.7	17.9	16.7	15.5	12.5	11.3	11.3	10.1	7.1	4.2	4.2
77.5°	3.6	4.2	4.2	3.6	3.0	2.4	2.4	3.0	1.2	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	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)