

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: P630322

Luminaire Tested: GWS-SA1D-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630322  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

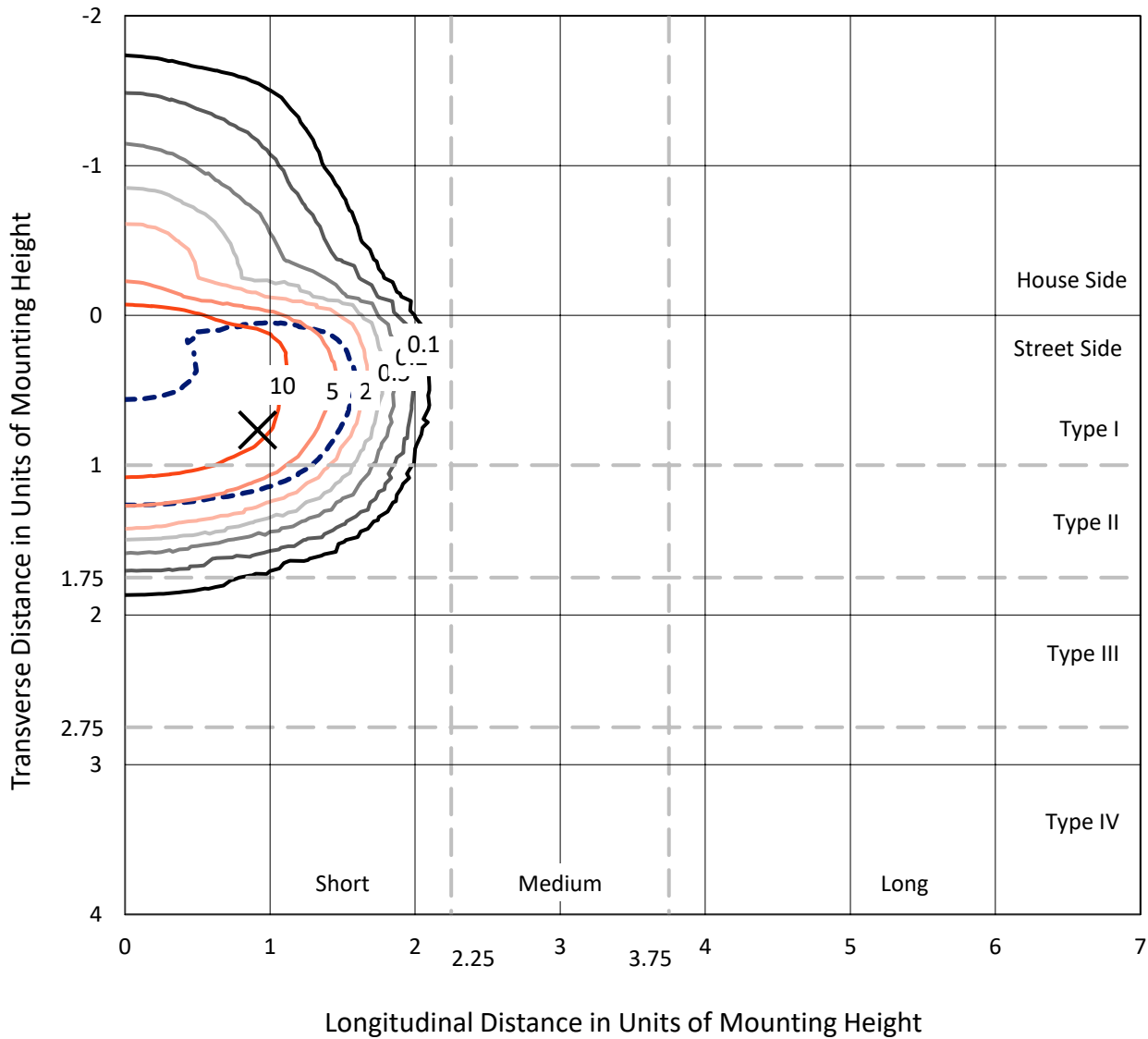
Lumens per Lamp: N/A  
Luminaire Lumens: 4566.9 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

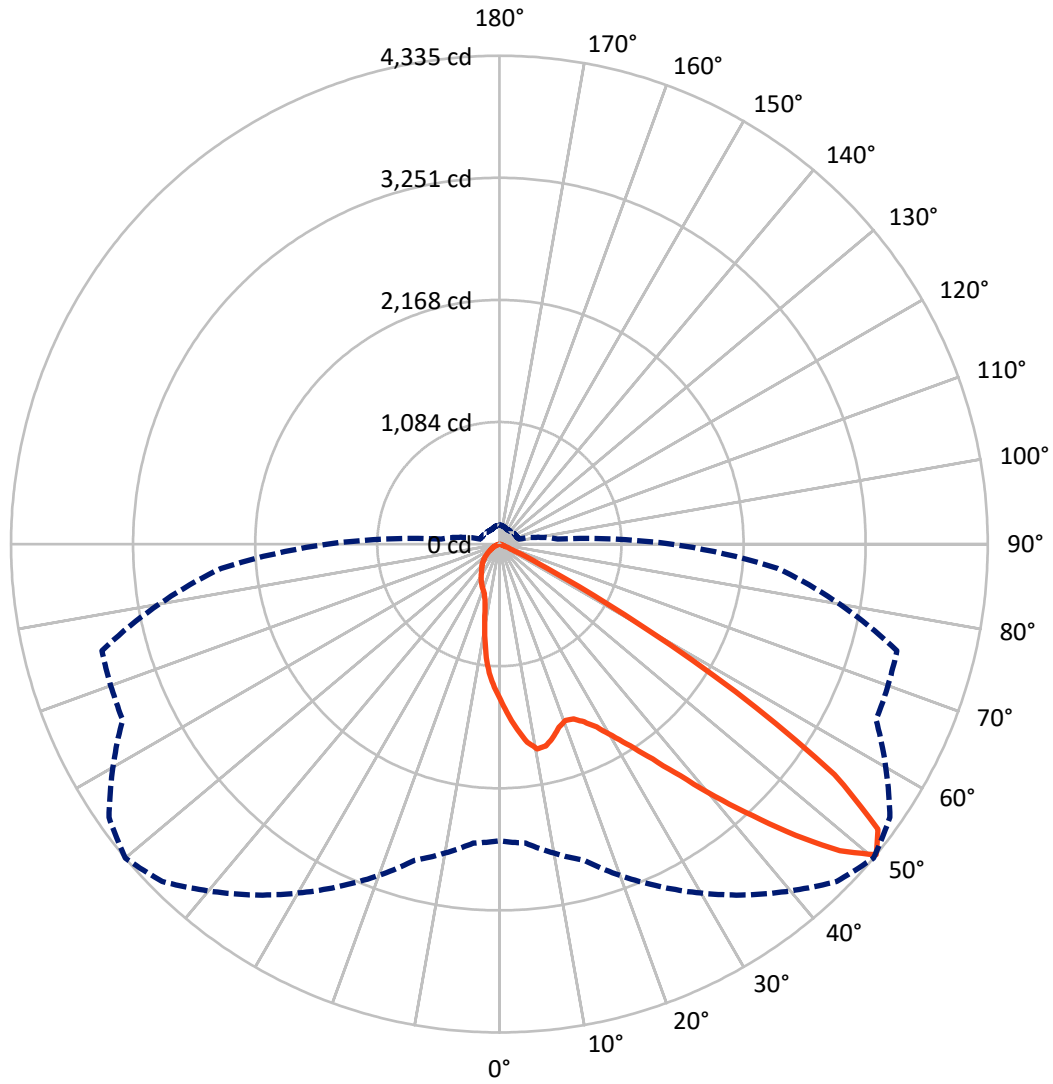
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	586.8	0.0	586.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	3980.1	0.0	3980.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	4566.9	0.0	4566.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	2.8
10°-20°	331.1	7.3
20°-30°	546.5	12.0
30°-40°	901.9	19.7
40°-50°	1427.0	31.2
50°-60°	1080.4	23.7
60°-70°	135.2	3.0
70°-80°	15.3	0.3
80°-90°	1.2	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°	4566.9	100.0
0°-180°	4566.9	100.0

**Coefficient of Utilization**



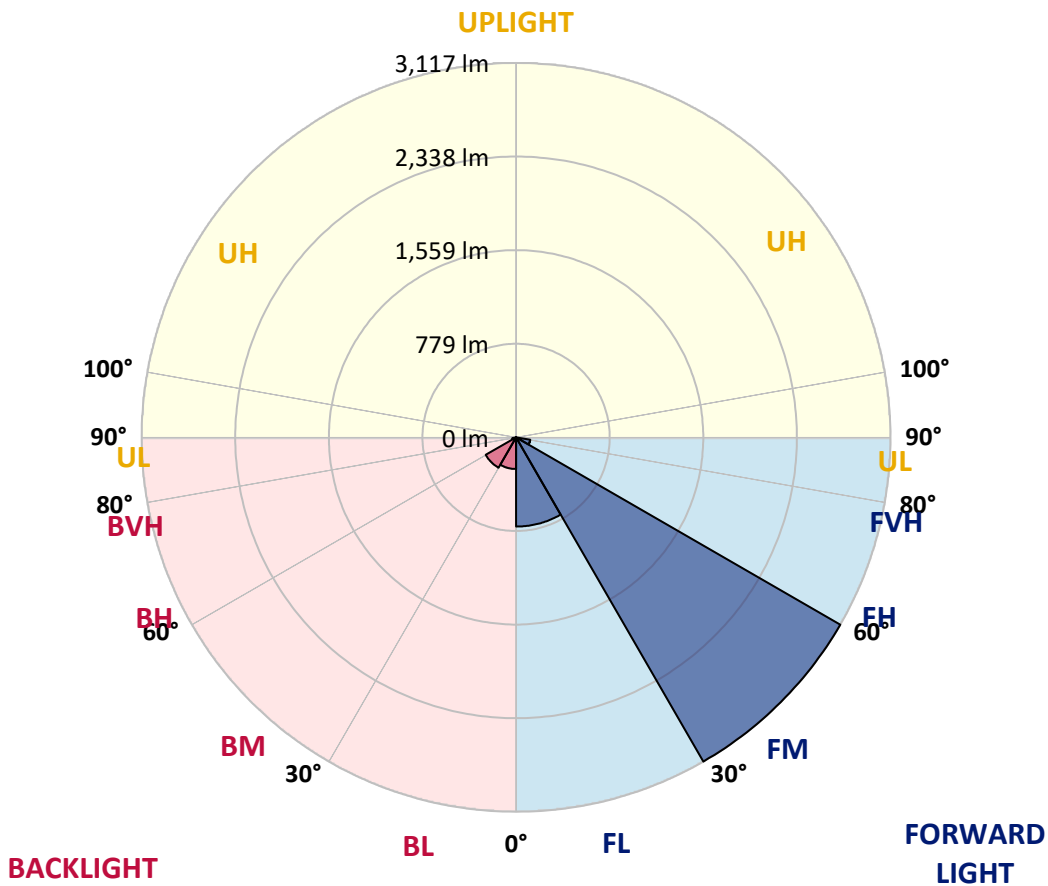
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.6	16.3			
FM (30°-60°)	3117.4	68.3			
FH (60°-80°)	119.5	2.6			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	263.4	5.8	B1/500		
BM (30°-60°)	291.8	6.4	B1/1000		
BH (60°-80°)	31.0	0.7	B0/110		G0/110
BVH (80°-90°)	0.6	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°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1576.6	1589.2	1585.7	1569.2	1551.4	1538.8	1519.2	1513.1	1468.8	1437.9	1405.3
5°	1767.0	1770.9	1766.5	1746.5	1715.3	1685.3	1653.1	1634.4	1560.1	1493.1	1424.9
7.5°	1812.6	1807.8	1816.1	1826.1	1821.7	1808.7	1774.8	1754.4	1665.7	1556.6	1453.1
10°	1670.0	1659.2	1690.0	1741.8	1796.1	1857.4	1848.7	1850.4	1768.7	1636.6	1490.1
12.5°	1481.0	1476.6	1499.6	1559.6	1666.1	1805.2	1838.7	1894.8	1863.0	1723.1	1532.2
15°	1397.9	1400.1	1414.0	1451.8	1528.3	1701.3	1781.8	1883.0	1947.4	1807.0	1578.8
17.5°	1410.5	1418.4	1417.9	1430.5	1477.0	1615.7	1709.6	1846.1	2012.6	1903.5	1632.2
20°	1496.2	1504.0	1492.3	1482.7	1498.3	1594.0	1671.8	1808.7	2056.5	2000.8	1688.7
22.5°	1624.4	1633.5	1605.7	1578.3	1568.3	1629.6	1686.1	1793.5	2089.9	2089.9	1739.2
25°	1779.6	1792.2	1749.2	1700.5	1672.7	1704.8	1747.4	1827.8	2124.3	2169.9	1773.5
27.5°	1953.0	1953.5	1916.5	1861.7	1809.6	1813.5	1839.1	1905.2	2162.1	2256.0	1800.4
30°	2148.2	2149.5	2100.4	2034.7	1969.1	1951.3	1973.0	2023.0	2240.8	2364.2	1837.8
32.5°	2400.3	2406.4	2336.0	2239.5	2154.3	2120.8	2133.4	2186.0	2366.0	2499.8	1893.9
35°	2741.1	2747.6	2643.7	2516.4	2380.7	2330.3	2342.9	2396.0	2547.2	2692.4	1983.4
37.5°	3077.5	3086.2	2981.0	2862.4	2676.3	2592.9	2605.9	2656.3	2819.3	2958.4	2126.9
40°	3310.1	3321.8	3289.2	3209.2	3036.7	2927.1	2942.8	2961.0	3118.8	3276.6	2312.9
42.5°	3432.7	3449.2	3463.1	3504.0	3413.1	3321.4	3294.9	3296.2	3423.5	3600.9	2506.4
45°	3440.1	3456.1	3527.4	3685.2	3754.3	3735.2	3687.0	3654.4	3656.1	3816.9	2627.2
47.5°	3201.0	3231.0	3364.4	3673.5	3933.4	4092.1	4067.7	3990.4	3753.9	3831.3	2614.2
50°	2634.6	2664.2	2906.7	3351.4	3803.0	4234.7	4335.1	4231.2	3690.0	3652.6	2479.9
52.5°	1913.5	1916.5	2073.9	2593.3	3274.5	3971.7	4208.1	4198.1	3592.6	3436.2	2296.4
55°	908.9	898.1	1075.0	1463.6	2264.7	3212.3	3610.9	3723.9	3454.4	3279.7	2154.3
57.5°	264.7	269.9	348.6	571.2	1132.8	2053.0	2472.9	2683.3	2835.4	2696.3	1670.9
60°	118.7	119.1	132.6	173.9	377.3	955.0	1278.4	1538.8	1695.3	1570.9	828.9
62.5°	86.1	86.5	91.7	98.2	128.2	323.4	479.5	639.0	650.7	426.0	210.0
65°	71.7	71.7	72.6	72.6	76.9	115.6	145.6	187.8	158.2	117.4	82.2
67.5°	57.8	58.2	59.1	59.1	57.8	57.8	62.6	68.7	73.5	90.8	75.6
70°	45.2	44.8	44.8	45.2	43.9	37.4	40.4	46.1	50.4	70.9	65.6
72.5°	35.2	35.6	35.2	33.5	30.4	22.2	23.9	30.0	32.2	44.3	44.3
75°	26.5	27.0	25.2	19.1	12.6	7.0	9.1	14.8	18.7	21.7	16.1
77.5°	3.5	3.5	2.6	2.6	2.2	2.6	2.6	3.5	5.2	5.2	3.9
80°	0.4	0.4	0.4	0.9	1.3	1.7	1.7	1.7	1.7	2.2	2.2
82.5°	0.4	0.4	0.4	0.4	1.3	1.3	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.4	0.9	1.3	1.3	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.4	0.9	1.3	1.3	1.3	1.7	1.7	1.7
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°	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6	1383.6
2.5°	1385.8	1360.6	1330.1	1309.3	1279.7	1260.1	1232.3	1213.6	1197.5	1184.9	1191.9
5°	1386.2	1346.2	1284.0	1231.0	1173.2	1120.2	1063.2	1018.5	978.0	959.8	969.8
7.5°	1394.9	1337.5	1242.3	1148.0	1037.1	927.6	825.0	741.6	700.3	680.7	686.8
10°	1411.8	1333.6	1195.8	1039.3	859.4	709.8	610.3	553.8	530.7	518.6	520.7
12.5°	1427.5	1331.0	1135.4	896.3	678.1	550.7	499.0	491.2	496.0	496.4	496.0
15°	1448.8	1326.2	1060.6	749.4	542.5	476.0	477.3	488.6	499.9	503.4	502.5
17.5°	1471.4	1318.8	964.1	608.6	460.3	454.2	469.5	484.7	496.0	497.7	498.1
20°	1494.9	1303.6	854.1	496.8	422.1	437.7	454.7	466.0	474.2	476.8	477.7
22.5°	1505.7	1271.4	727.2	416.9	396.4	417.3	429.9	444.7	447.3	437.7	439.5
25°	1500.1	1217.1	603.3	363.0	370.8	391.6	410.3	402.9	392.1	385.1	387.3
27.5°	1482.3	1144.9	482.1	323.4	343.4	369.9	372.1	363.8	362.1	356.4	358.2
30°	1463.1	1061.9	387.7	291.7	315.6	343.4	336.9	339.9	340.4	333.8	336.0
32.5°	1451.4	975.0	308.6	270.4	297.8	303.0	316.0	322.1	322.5	307.3	309.9
35°	1455.3	889.4	261.2	253.0	281.2	279.9	298.2	301.7	276.5	255.6	257.8
37.5°	1487.0	810.2	234.3	239.5	252.5	262.5	276.5	253.4	247.8	238.2	239.5
40°	1546.2	742.9	218.2	231.3	233.0	249.1	227.8	230.8	231.3	225.2	226.5
42.5°	1615.3	686.8	208.6	226.5	222.1	224.7	203.4	209.5	216.0	213.4	213.9
45°	1650.0	632.0	200.4	210.0	211.3	186.5	181.7	188.2	196.5	197.8	198.2
47.5°	1619.2	579.9	191.7	186.0	194.7	170.0	164.3	166.5	176.0	181.3	182.1
50°	1524.9	519.9	178.7	164.7	160.0	152.6	147.4	147.8	158.7	167.8	169.5
52.5°	1392.3	457.3	157.4	139.5	128.7	134.3	135.6	133.0	143.0	152.1	153.9
55°	1263.6	379.0	124.8	113.5	103.5	115.6	119.1	115.6	118.7	124.8	125.2
57.5°	889.8	214.3	95.6	93.9	85.6	99.1	104.8	99.5	94.3	98.2	99.1
60°	412.5	112.1	73.5	73.5	71.3	85.2	94.8	87.4	77.4	79.1	80.4
62.5°	129.1	70.9	53.9	50.9	58.2	72.6	80.4	73.0	61.3	61.3	63.0
65°	73.0	60.9	42.6	39.1	47.4	58.2	63.0	55.2	44.8	43.9	43.9
67.5°	67.8	57.8	37.8	31.7	33.5	37.4	39.1	33.9	30.9	30.4	30.9
70°	56.1	48.2	30.4	21.7	20.4	20.0	20.9	19.6	18.7	19.1	20.4
72.5°	34.8	29.1	19.1	13.0	11.3	10.9	10.9	10.9	10.4	10.4	10.4
75°	12.6	10.9	8.7	6.5	5.7	5.2	5.2	5.7	5.2	4.8	4.3
77.5°	3.9	3.5	3.5	3.5	3.0	2.6	2.2	2.2	1.7	1.3	1.3
80°	2.2	2.2	2.2	2.2	1.7	1.7	1.3	0.9	0.4	0.4	0.0
82.5°	2.2	2.2	2.2	1.7	1.7	1.7	1.3	0.9	0.4	0.0	0.0
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.3	0.9	0.4	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.3	0.9	0.4	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)