

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: P631316

Luminaire Tested: GWS-SA1F-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-740-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

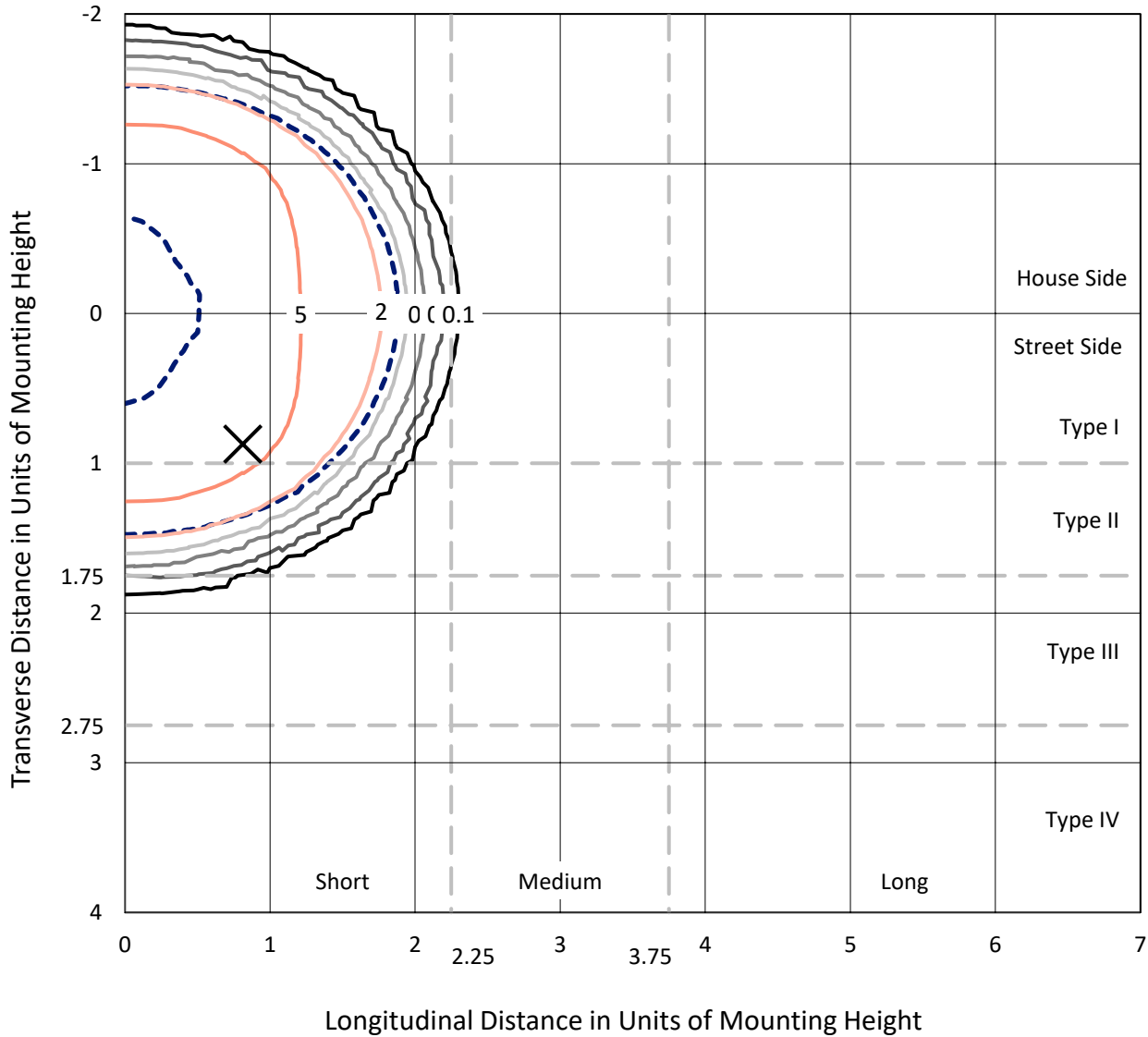
Lumens per Lamp: N/A  
Luminaire Lumens: 5460.4 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

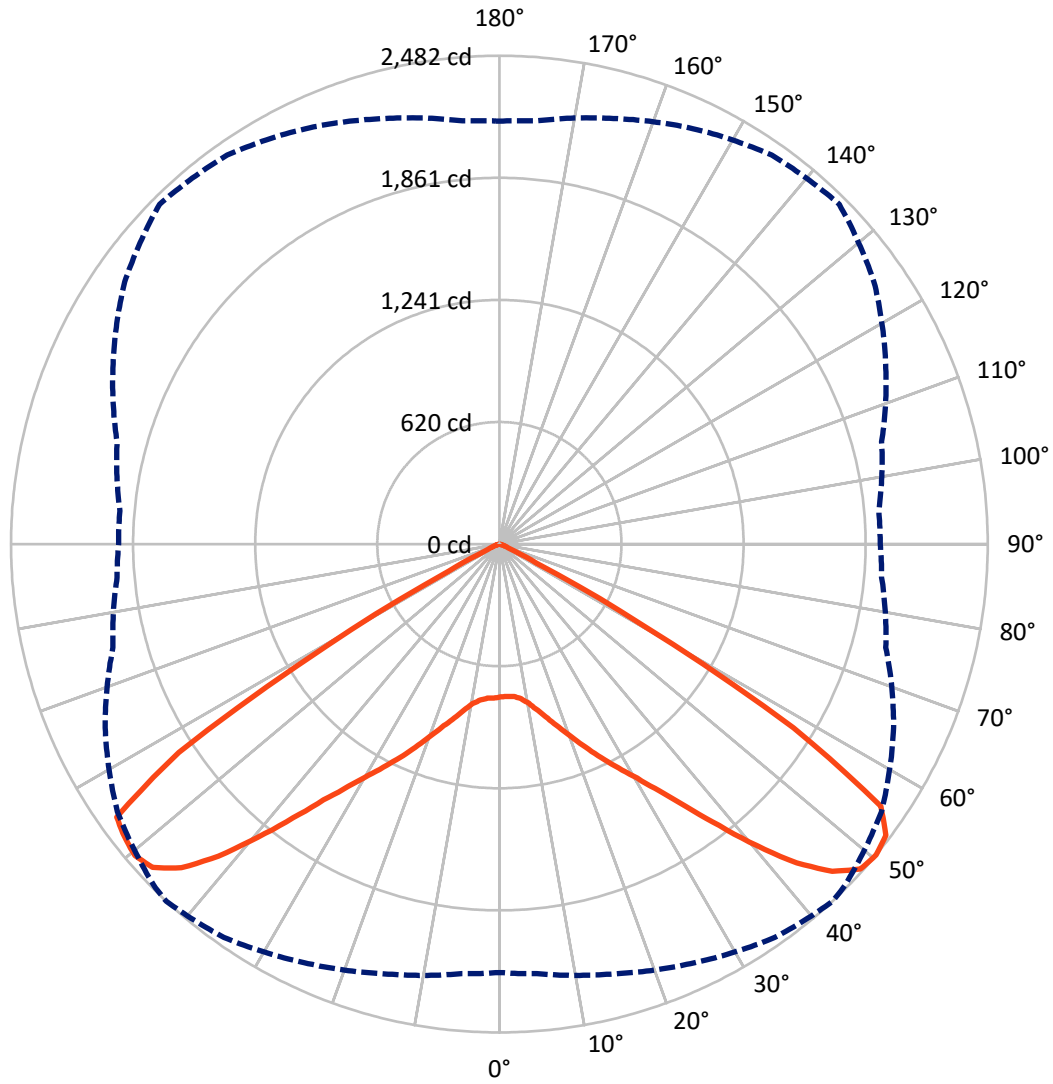
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2730.1	0.0	2730.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2730.3	0.0	2730.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5460.4	0.0	5460.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.5	1.4
10°-20°	263.2	4.8
20°-30°	532.5	9.8
30°-40°	988.0	18.1
40°-50°	1640.0	30.0
50°-60°	1673.7	30.7
60°-70°	274.5	5.0
70°-80°	12.0	0.2
80°-90°	0.2	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°	5460.4	100.0
0°-180°	5460.4	100.0

**Coefficient of Utilization**



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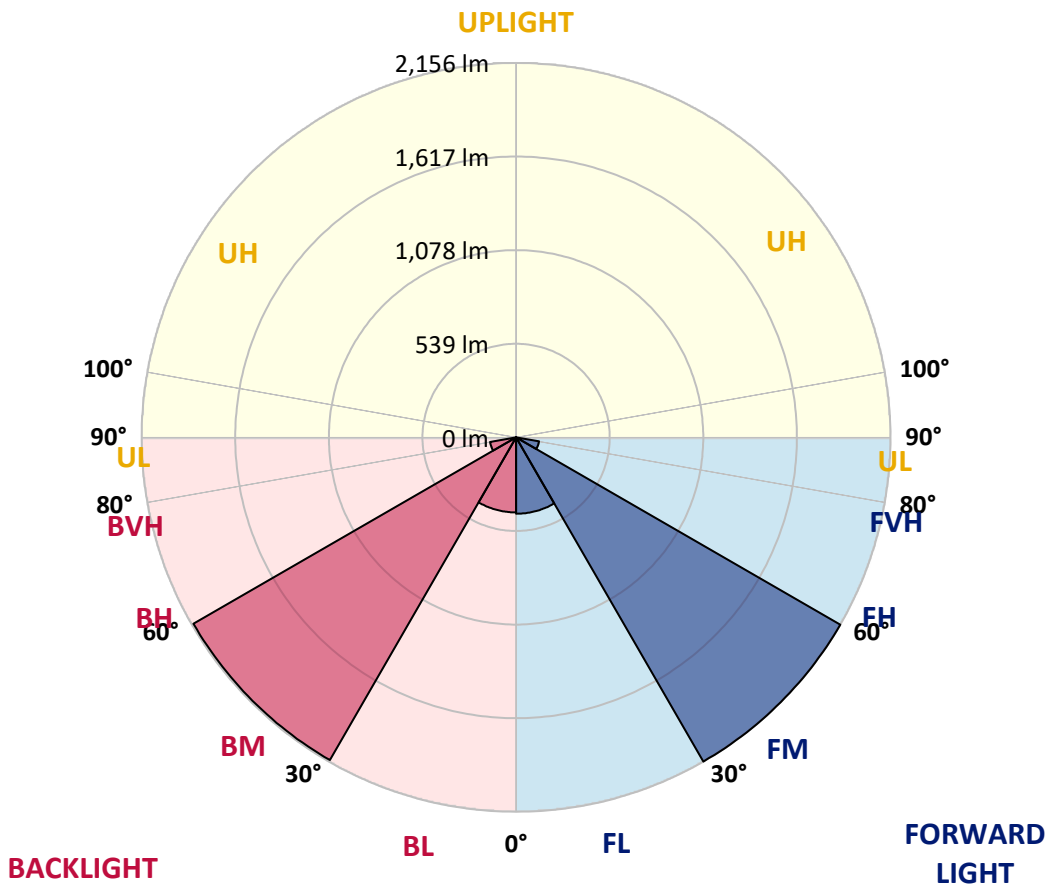
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.9	8.1			
FM (30°-60°)	2156.0	39.5			
FH (60°-80°)	134.3	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	432.3	7.9	B1/500		
BM (30°-60°)	2145.6	39.3	B2/2500		
BH (60°-80°)	152.2	2.8	B1/500		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	762.2	764.0	766.4	768.8	771.8	774.8	776.7	782.1	780.9	785.7	785.7
5°	753.7	755.5	758.5	764.0	770.6	777.3	782.1	793.0	799.0	808.7	812.3
7.5°	757.9	760.3	764.0	772.4	782.7	793.0	798.4	815.9	828.0	846.1	856.4
10°	771.8	774.2	780.3	794.8	808.1	822.6	829.2	851.5	870.9	895.6	910.1
12.5°	787.5	790.5	802.6	824.4	847.3	866.6	875.7	900.5	920.4	948.2	971.1
15°	803.8	808.7	827.4	859.4	892.0	918.0	927.6	954.2	974.1	1003.7	1029.7
17.5°	841.9	847.3	868.5	902.9	947.6	977.8	986.2	1014.0	1029.1	1049.0	1076.2
20°	889.6	899.9	925.8	967.5	1016.4	1045.4	1051.4	1078.6	1077.4	1085.9	1109.4
22.5°	948.8	956.0	984.4	1033.9	1088.9	1120.9	1134.8	1146.3	1131.2	1123.9	1139.0
25°	1010.4	1018.8	1049.6	1104.0	1165.6	1202.4	1213.9	1223.0	1198.8	1171.6	1173.4
27.5°	1090.1	1096.1	1126.3	1184.3	1245.9	1287.6	1297.8	1313.6	1281.5	1238.1	1226.0
30°	1184.9	1191.0	1223.0	1284.0	1345.0	1380.6	1396.3	1415.6	1380.6	1326.2	1312.3
32.5°	1296.0	1302.1	1343.1	1406.0	1456.1	1494.7	1509.8	1530.4	1502.6	1441.6	1425.9
35°	1428.9	1432.5	1480.8	1549.1	1602.2	1639.7	1649.9	1674.1	1643.3	1582.3	1573.8
37.5°	1582.9	1587.1	1639.7	1718.8	1773.1	1814.8	1831.1	1837.8	1800.3	1732.1	1725.4
40°	1752.0	1765.9	1817.2	1902.4	1963.4	2015.9	2030.4	2008.1	1955.5	1862.5	1850.4
42.5°	1928.4	1940.4	1997.8	2090.2	2160.9	2214.6	2215.2	2166.9	2077.5	1948.9	1930.8
45°	2075.1	2079.9	2154.2	2247.2	2334.2	2372.2	2375.9	2288.3	2153.6	1999.0	1960.4
47.5°	2176.0	2183.8	2248.4	2337.8	2433.8	2468.3	2461.0	2351.7	2189.9	2031.6	1967.6
50°	2177.2	2190.5	2260.5	2346.9	2439.9	2481.6	2471.3	2369.8	2210.4	2032.8	1950.1
52.5°	1984.5	2006.3	2120.4	2245.4	2387.9	2459.2	2461.6	2393.4	2202.5	2013.5	1934.4
55°	1497.1	1520.7	1664.4	1877.6	2153.0	2351.7	2386.1	2365.6	2193.5	2022.0	1962.2
57.5°	792.4	774.2	854.0	1065.3	1411.4	1762.9	1863.7	2028.0	2092.6	2032.2	2013.5
60°	172.7	184.2	245.2	330.4	550.8	829.2	927.6	1209.1	1543.6	1692.2	1799.7
62.5°	74.3	73.1	76.1	86.4	126.2	210.2	256.7	419.1	661.3	908.3	1075.6
65°	61.0	61.6	64.0	64.0	59.8	60.4	63.4	96.0	154.6	216.8	291.1
67.5°	45.9	46.5	50.7	51.9	48.9	43.5	42.9	36.2	38.0	47.7	49.5
70°	29.0	29.0	31.4	32.6	32.6	30.2	29.6	26.0	25.4	29.0	32.6
72.5°	15.7	15.7	16.9	17.5	16.9	16.3	16.3	15.7	15.1	17.5	22.3
75°	6.6	6.6	7.2	7.2	6.6	6.6	6.6	6.6	6.6	7.9	12.1
77.5°	1.2	1.8	2.4	1.8	1.2	1.2	1.2	1.8	1.8	2.4	3.6
80°	0.6	0.6	1.2	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
82.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7	776.7
2.5°	789.9	783.3	785.7	786.9	785.1	783.9	777.3	775.4	772.4	767.6	766.4
5°	816.5	811.1	810.5	806.9	798.4	788.1	775.4	770.0	764.0	757.9	756.7
7.5°	861.2	854.6	850.3	838.3	818.9	802.6	781.5	770.0	762.2	754.3	752.5
10°	918.6	910.7	898.6	876.3	850.3	826.8	802.0	786.9	774.8	764.0	763.4
12.5°	979.6	971.1	949.4	921.0	889.6	867.8	836.4	815.3	797.2	780.9	779.1
15°	1043.6	1033.3	1003.7	969.9	940.9	918.6	884.2	850.3	822.6	799.0	796.6
17.5°	1092.5	1079.8	1044.8	1019.4	995.9	972.9	934.3	889.6	852.8	824.4	817.7
20°	1123.3	1111.2	1078.0	1064.1	1053.3	1036.9	991.1	944.5	903.5	868.5	862.4
22.5°	1152.9	1138.4	1109.4	1109.4	1117.9	1111.2	1061.7	1008.6	960.3	919.8	910.7
25°	1186.1	1174.6	1154.1	1171.0	1192.2	1191.6	1140.8	1074.4	1018.8	973.5	964.5
27.5°	1234.4	1223.0	1215.7	1247.7	1274.3	1272.5	1216.9	1145.1	1086.5	1041.8	1033.3
30°	1319.6	1308.7	1300.9	1339.5	1373.3	1360.7	1299.7	1230.2	1171.0	1120.3	1114.3
32.5°	1433.1	1421.7	1411.4	1450.0	1480.2	1463.9	1406.0	1340.7	1272.5	1223.0	1210.9
35°	1582.3	1558.1	1547.9	1593.8	1606.5	1588.3	1532.8	1475.4	1402.9	1346.2	1338.3
37.5°	1736.3	1707.9	1700.7	1740.5	1761.1	1754.4	1689.2	1629.4	1550.9	1488.1	1479.0
40°	1868.0	1842.0	1829.3	1891.5	1938.0	1942.2	1883.7	1810.6	1718.2	1653.0	1636.7
42.5°	1945.3	1922.9	1919.9	2016.5	2092.6	2147.0	2076.9	2001.4	1904.2	1830.5	1817.2
45°	1962.8	1948.3	1973.6	2100.5	2218.8	2317.9	2258.1	2178.4	2073.3	1995.4	1982.7
47.5°	1961.0	1956.1	2001.4	2144.0	2293.7	2415.7	2386.1	2296.1	2194.7	2113.2	2101.1
50°	1935.0	1935.6	2011.1	2165.7	2323.9	2442.3	2412.7	2329.4	2238.8	2158.5	2148.8
52.5°	1924.7	1921.1	1993.0	2159.1	2354.7	2430.2	2363.8	2270.2	2169.3	2070.3	2055.8
55°	1961.0	1951.9	1995.4	2153.6	2358.4	2423.6	2248.4	2045.5	1839.0	1721.8	1712.1
57.5°	2015.3	2005.7	2026.2	2113.8	2169.3	2015.3	1654.8	1327.4	1114.9	1024.9	985.6
60°	1799.7	1793.1	1777.4	1671.7	1433.7	1081.6	736.8	469.9	337.6	273.0	273.0
62.5°	1116.7	1107.6	1022.5	759.7	552.0	319.5	175.7	109.9	83.3	77.9	77.3
65°	313.4	311.6	257.9	182.4	116.0	71.9	63.4	64.6	63.4	61.6	61.0
67.5°	47.1	51.9	51.9	42.3	40.5	45.3	53.1	56.8	53.7	50.7	49.5
70°	30.2	32.6	31.4	27.2	29.0	33.8	38.0	38.7	36.8	33.8	33.2
72.5°	21.1	23.6	19.3	17.5	18.1	19.9	21.7	21.7	21.1	19.9	18.7
75°	12.7	12.7	9.1	8.5	8.5	9.1	9.1	10.3	10.3	9.7	9.1
77.5°	4.2	4.8	3.0	2.4	2.4	2.4	3.0	3.6	3.6	3.0	2.4
80°	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	0.6
82.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
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)