

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: P631371

Luminaire Tested: GWS-SA1F-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631371  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

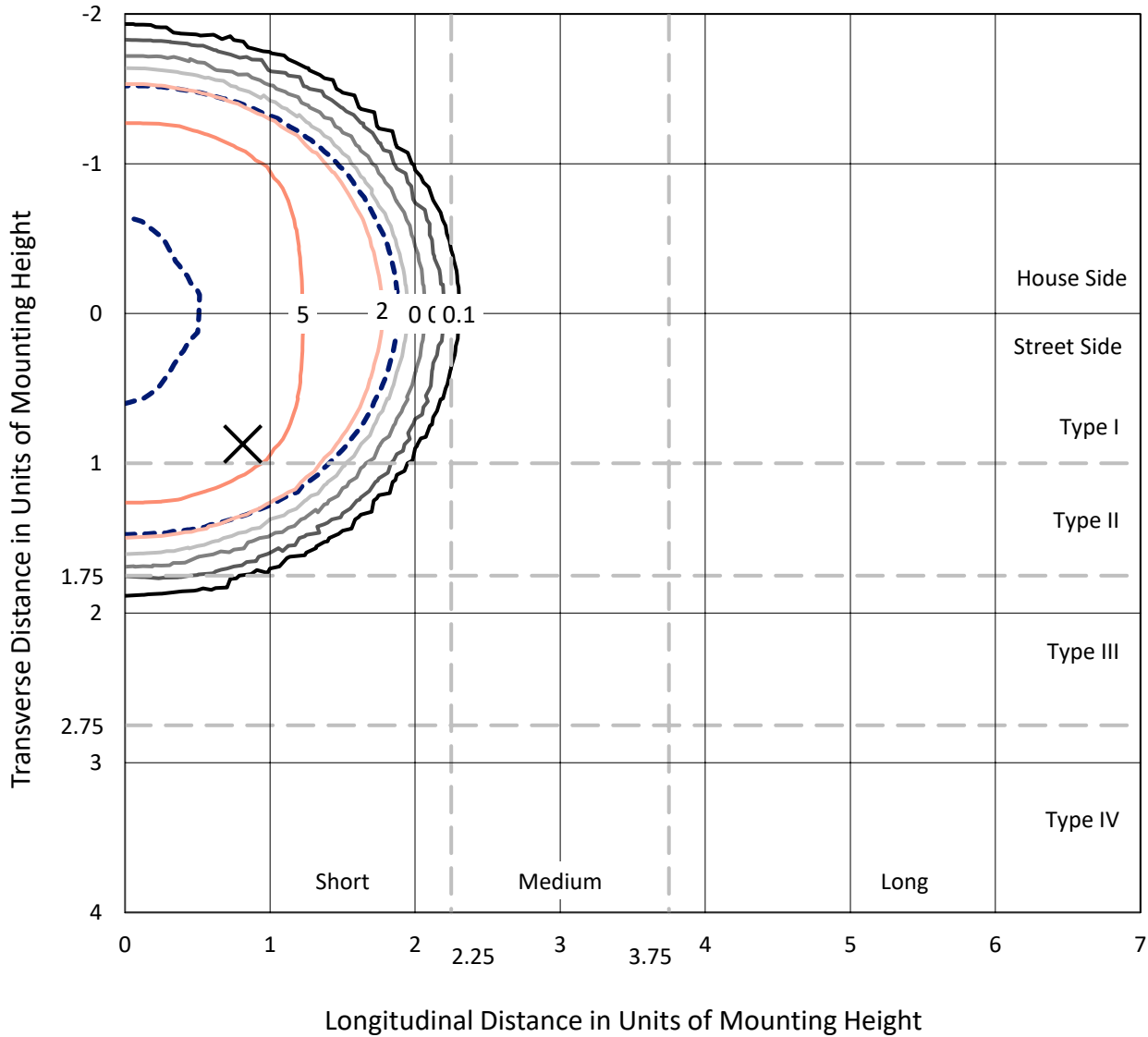
Lumens per Lamp: N/A  
Luminaire Lumens: 5585.5 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

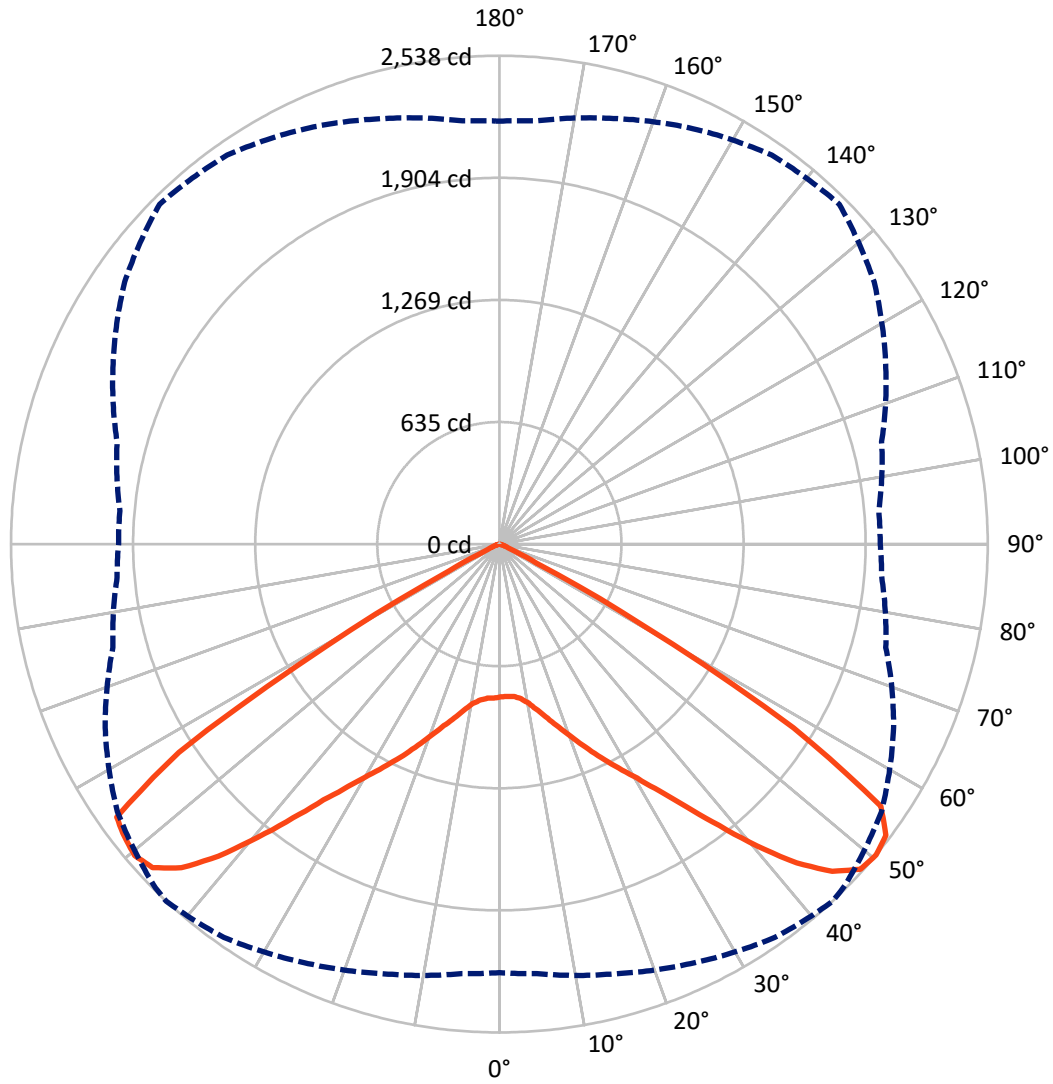
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.5 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	2792.7	0.0	2792.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2792.8	0.0	2792.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5585.5	0.0	5585.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.2	1.4
10°-20°	269.2	4.8
20°-30°	544.7	9.8
30°-40°	1010.6	18.1
40°-50°	1677.5	30.0
50°-60°	1712.0	30.7
60°-70°	280.8	5.0
70°-80°	12.3	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°	5585.5	100.0
0°-180°	5585.5	100.0

**Coefficient of Utilization**



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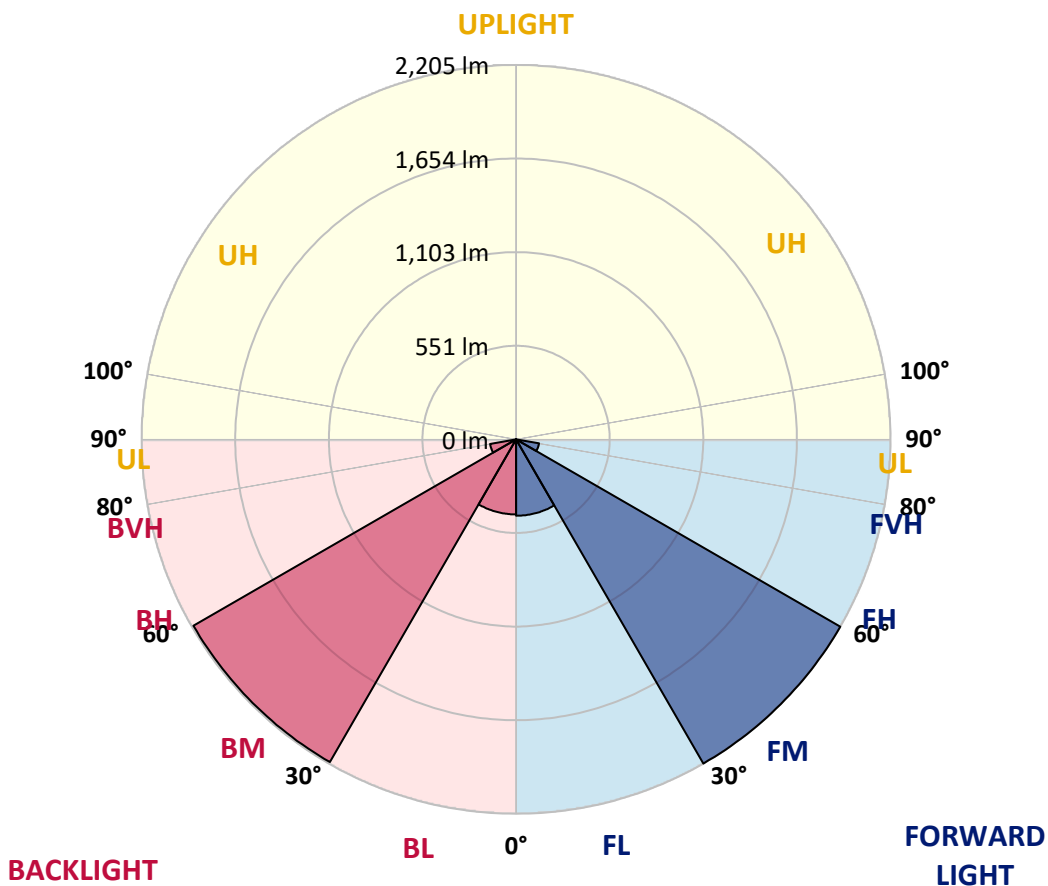
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.0	8.1			
FM (30°-60°)	2205.4	39.5			
FH (60°-80°)	137.3	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	442.2	7.9	B1/500		
BM (30°-60°)	2194.7	39.3	B2/2500		
BH (60°-80°)	155.7	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°	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4
2.5°	779.6	781.5	783.9	786.4	789.5	792.6	794.4	800.0	798.8	803.7	803.7
5°	771.0	772.8	775.9	781.5	788.3	795.1	800.0	811.1	817.3	827.2	830.9
7.5°	775.3	777.8	781.5	790.1	800.6	811.1	816.7	834.6	847.0	865.5	876.0
10°	789.5	792.0	798.2	813.0	826.6	841.4	848.2	871.1	890.8	916.1	931.0
12.5°	805.6	808.7	821.0	843.3	866.7	886.5	895.8	921.1	941.5	969.9	993.4
15°	822.2	827.2	846.3	879.1	912.4	939.0	948.9	976.1	996.5	1026.7	1053.3
17.5°	861.2	866.7	888.3	923.6	969.3	1000.2	1008.8	1037.2	1052.7	1073.1	1100.9
20°	910.0	920.5	947.0	989.7	1039.7	1069.4	1075.5	1103.3	1102.1	1110.7	1134.8
22.5°	970.5	977.9	1007.0	1057.6	1113.8	1146.6	1160.8	1172.5	1157.1	1149.7	1165.1
25°	1033.5	1042.2	1073.7	1129.3	1192.3	1230.0	1241.7	1251.0	1226.3	1198.5	1200.3
27.5°	1115.1	1121.2	1152.1	1211.4	1274.5	1317.1	1327.6	1343.6	1310.9	1266.4	1254.1
30°	1212.1	1218.2	1251.0	1313.4	1375.8	1412.2	1428.3	1448.0	1412.2	1356.6	1342.4
32.5°	1325.7	1331.9	1373.9	1438.2	1489.4	1529.0	1544.4	1565.4	1537.0	1474.6	1458.5
35°	1461.6	1465.3	1514.8	1584.6	1638.9	1677.2	1687.7	1712.5	1680.9	1618.6	1609.9
37.5°	1619.2	1623.5	1677.2	1758.2	1813.8	1856.4	1873.1	1879.9	1841.6	1771.8	1765.0
40°	1792.1	1806.4	1858.9	1946.0	2008.4	2062.1	2076.9	2054.1	2000.3	1905.2	1892.8
42.5°	1972.5	1984.9	2043.6	2138.1	2210.4	2265.4	2266.0	2216.5	2125.1	1993.5	1975.0
45°	2122.6	2127.6	2203.6	2298.7	2387.7	2426.6	2430.3	2340.7	2203.0	2044.8	2005.3
47.5°	2225.8	2233.8	2299.9	2391.4	2489.6	2524.8	2517.4	2405.6	2240.0	2078.2	2012.7
50°	2227.1	2240.6	2312.3	2400.6	2495.8	2538.4	2527.9	2424.1	2261.0	2079.4	1994.8
52.5°	2030.0	2052.2	2169.0	2296.9	2442.7	2515.5	2518.0	2448.2	2253.0	2059.6	1978.7
55°	1531.4	1555.5	1702.6	1920.6	2202.3	2405.6	2440.8	2419.8	2243.7	2068.3	2007.1
57.5°	810.5	792.0	873.5	1089.7	1443.7	1803.3	1906.4	2074.5	2140.6	2078.8	2059.6
60°	176.7	188.4	250.8	337.9	563.4	848.2	948.9	1236.8	1579.0	1731.0	1840.9
62.5°	76.0	74.7	77.8	88.3	129.1	215.0	262.6	428.7	676.5	929.1	1100.2
65°	62.4	63.0	65.5	65.5	61.2	61.8	64.9	98.2	158.1	221.8	297.8
67.5°	47.0	47.6	51.9	53.1	50.0	44.5	43.9	37.1	38.9	48.8	50.7
70°	29.7	29.7	32.1	33.4	33.4	30.9	30.3	26.6	25.9	29.7	33.4
72.5°	16.1	16.1	17.3	17.9	17.3	16.7	16.7	16.1	15.4	17.9	22.9
75°	6.8	6.8	7.4	7.4	6.8	6.8	6.8	6.8	6.8	8.0	12.4
77.5°	1.2	1.9	2.5	1.9	1.2	1.2	1.2	1.9	1.9	2.5	3.7
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°	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4	794.4
2.5°	808.0	801.2	803.7	805.0	803.1	801.9	795.1	793.2	790.1	785.2	783.9
5°	835.2	829.7	829.0	825.3	816.7	806.2	793.2	787.7	781.5	775.3	774.1
7.5°	880.9	874.1	869.8	857.5	837.7	821.0	799.4	787.7	779.6	771.6	769.7
10°	939.6	931.6	919.2	896.4	869.8	845.7	820.4	805.0	792.6	781.5	780.9
12.5°	1002.0	993.4	971.1	942.1	910.0	887.7	855.6	834.0	815.5	798.8	796.9
15°	1067.5	1057.0	1026.7	992.1	962.5	939.6	904.4	869.8	841.4	817.3	814.8
17.5°	1117.5	1104.6	1068.7	1042.8	1018.7	995.2	955.7	910.0	872.3	843.3	836.5
20°	1149.0	1136.7	1102.7	1088.5	1077.4	1060.7	1013.8	966.2	924.2	888.3	882.2
22.5°	1179.3	1164.5	1134.8	1134.8	1143.5	1136.7	1086.0	1031.7	982.3	940.9	931.6
25°	1213.3	1201.6	1180.6	1197.9	1219.5	1218.9	1167.0	1099.0	1042.2	995.8	986.6
27.5°	1262.7	1251.0	1243.6	1276.3	1303.5	1301.6	1244.8	1171.3	1111.4	1065.6	1057.0
30°	1349.8	1338.7	1330.7	1370.2	1404.8	1391.8	1329.4	1258.4	1197.9	1146.0	1139.8
32.5°	1466.0	1454.2	1443.7	1483.3	1514.1	1497.5	1438.2	1371.4	1301.6	1251.0	1238.6
35°	1618.6	1593.8	1583.3	1630.3	1643.3	1624.7	1567.9	1509.2	1435.1	1377.0	1369.0
37.5°	1776.1	1747.0	1739.6	1780.4	1801.4	1794.6	1727.9	1666.7	1586.4	1522.2	1512.9
40°	1910.8	1884.2	1871.2	1934.8	1982.4	1986.7	1926.8	1852.1	1757.5	1690.8	1674.1
42.5°	1989.8	1967.0	1963.9	2062.7	2140.6	2196.2	2124.5	2047.3	1947.8	1872.5	1858.9
45°	2007.7	1992.9	2018.9	2148.6	2269.7	2371.0	2309.8	2228.3	2120.8	2041.1	2028.1
47.5°	2005.9	2000.9	2047.3	2193.1	2346.3	2471.1	2440.8	2348.8	2245.0	2161.6	2149.2
50°	1979.3	1979.9	2057.2	2215.3	2377.2	2498.3	2468.0	2382.7	2290.1	2207.9	2198.0
52.5°	1968.8	1965.1	2038.6	2208.5	2408.7	2485.9	2417.9	2322.2	2219.0	2117.7	2102.9
55°	2005.9	1996.6	2041.1	2203.0	2412.4	2479.1	2299.9	2092.4	1881.1	1761.3	1751.4
57.5°	2061.5	2051.6	2072.6	2162.2	2219.0	2061.5	1692.7	1357.9	1140.4	1048.4	1008.2
60°	1840.9	1834.2	1818.1	1710.0	1466.6	1106.4	753.7	480.6	345.3	279.2	279.2
62.5°	1142.3	1133.0	1045.9	777.2	564.6	326.8	179.8	112.4	85.3	79.7	79.1
65°	320.6	318.8	263.8	186.6	118.6	73.5	64.9	66.1	64.9	63.0	62.4
67.5°	48.2	53.1	53.1	43.2	41.4	46.3	54.4	58.1	55.0	51.9	50.7
70°	30.9	33.4	32.1	27.8	29.7	34.6	38.9	39.5	37.7	34.6	34.0
72.5°	21.6	24.1	19.8	17.9	18.5	20.4	22.2	22.2	21.6	20.4	19.2
75°	13.0	13.0	9.3	8.6	8.6	9.3	9.3	10.5	10.5	9.9	9.3
77.5°	4.3	4.9	3.1	2.5	2.5	2.5	3.1	3.7	3.7	3.1	2.5
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)