

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: P632251

Luminaire Tested: GWS-SA2C-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632251  
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-SA2C-735-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

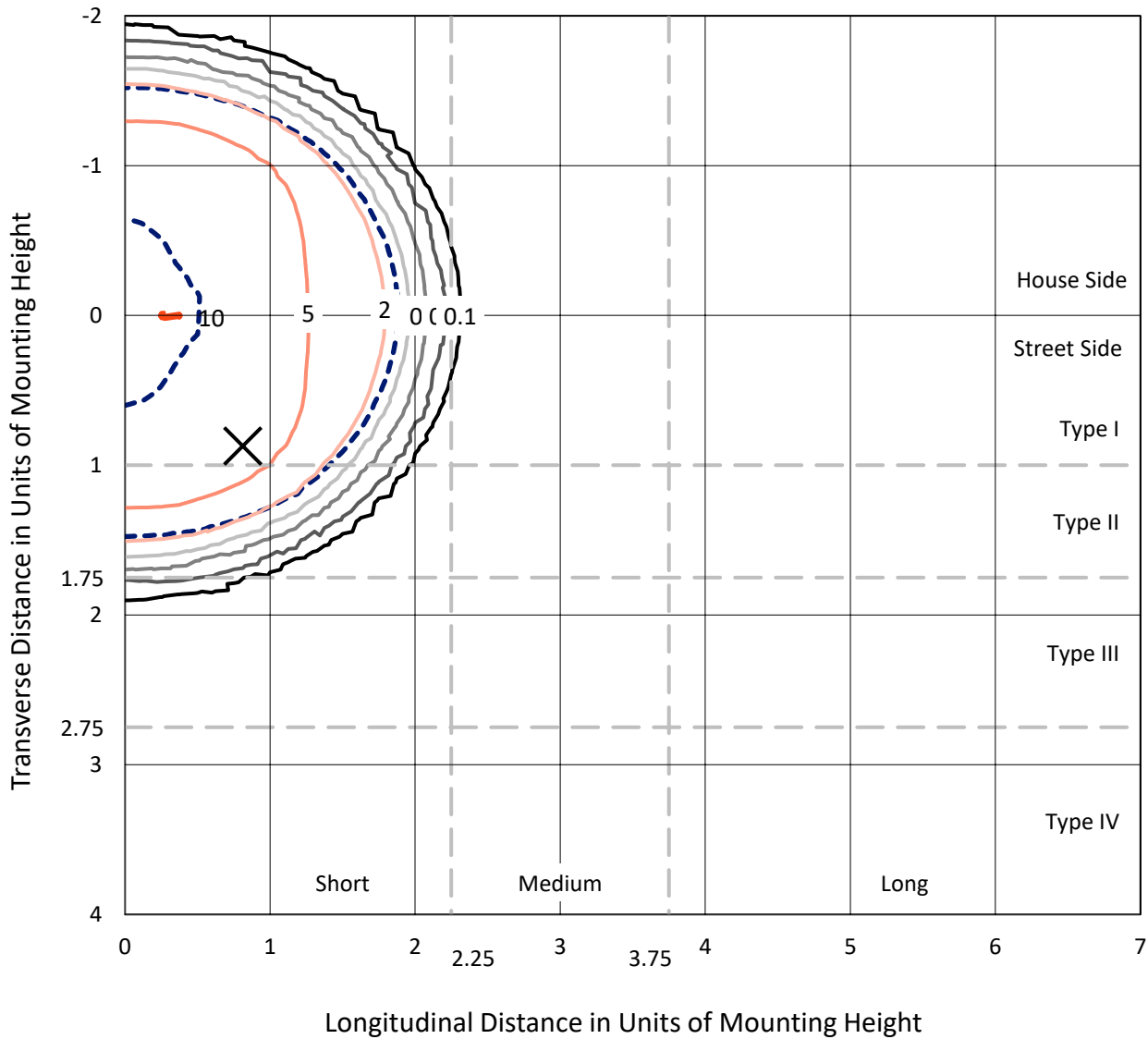
Lumens per Lamp: N/A  
Luminaire Lumens: 5916.4 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

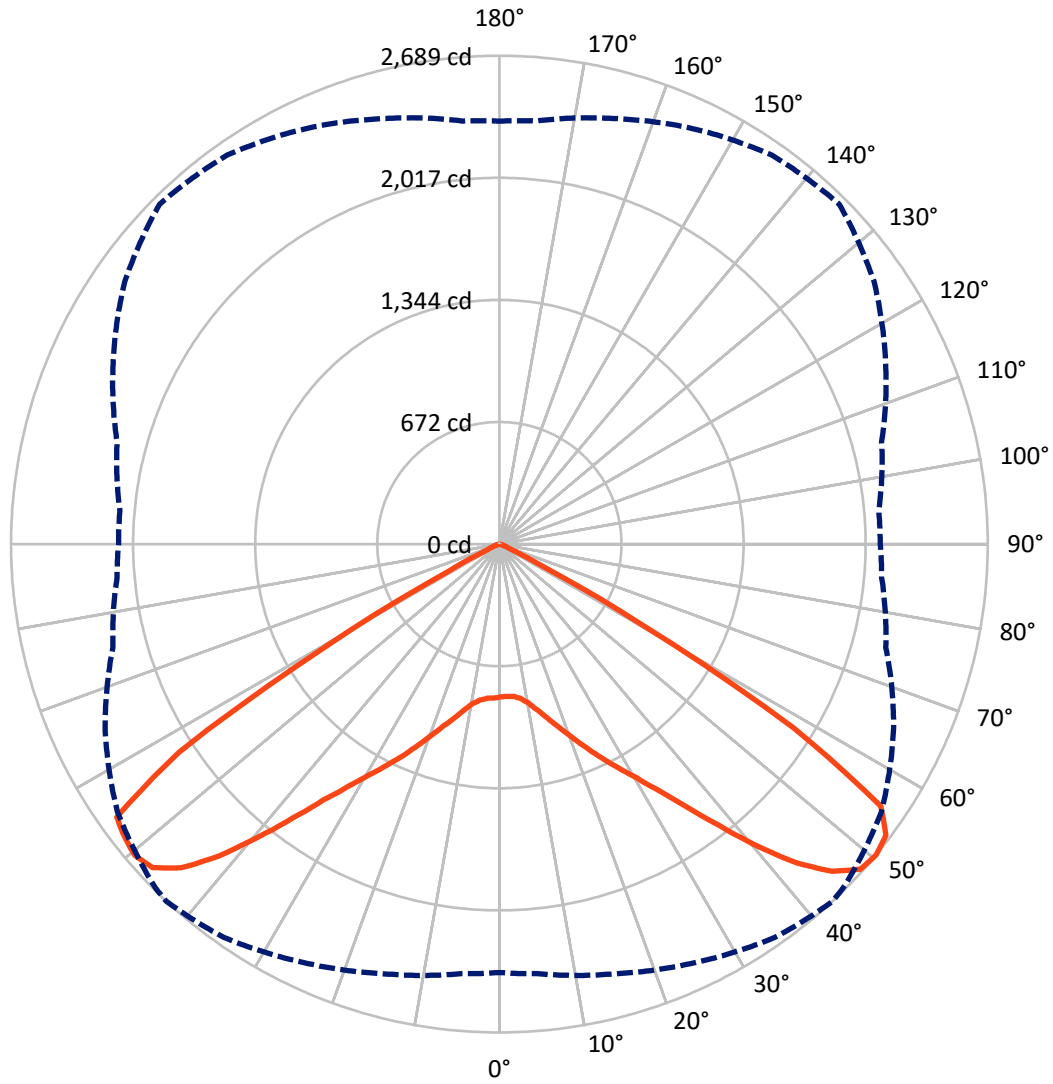
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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	2958.1	0.0	2958.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2958.3	0.0	2958.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5916.4	0.0	5916.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.9	1.4
10°-20°	285.2	4.8
20°-30°	577.0	9.8
30°-40°	1070.5	18.1
40°-50°	1776.9	30.0
50°-60°	1813.4	30.7
60°-70°	297.4	5.0
70°-80°	13.0	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°	5916.4	100.0
0°-180°	5916.4	100.0

**Coefficient of Utilization**



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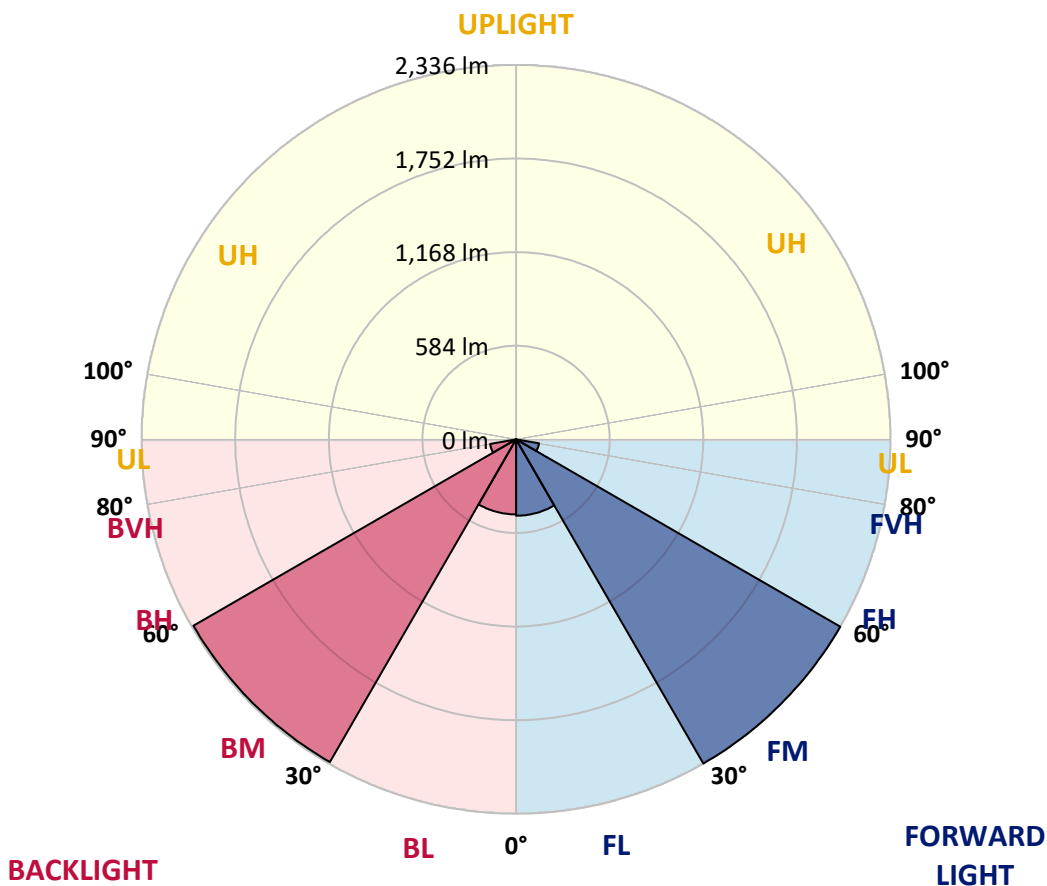
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.7	8.1			
FM (30°-60°)	2336.1	39.5			
FH (60°-80°)	145.5	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	468.4	7.9	B1/500		
BM (30°-60°)	2324.7	39.3	B2/2500		
BH (60°-80°)	164.9	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°	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5
2.5°	825.8	827.8	830.4	833.0	836.3	839.6	841.5	847.4	846.1	851.3	851.3
5°	816.6	818.6	821.9	827.8	835.0	842.2	847.4	859.2	865.7	876.2	880.1
7.5°	821.2	823.8	827.8	836.9	848.1	859.2	865.1	884.0	897.1	916.8	927.9
10°	836.3	838.9	845.4	861.1	875.5	891.2	898.4	922.7	943.6	970.4	986.1
12.5°	853.3	856.6	869.7	893.2	918.1	939.0	948.8	975.7	997.3	1027.4	1052.2
15°	871.0	876.2	896.5	931.2	966.5	994.6	1005.1	1033.9	1055.5	1087.6	1115.7
17.5°	912.2	918.1	941.0	978.3	1026.7	1059.4	1068.6	1098.7	1115.0	1136.6	1166.1
20°	963.9	975.0	1003.1	1048.3	1101.3	1132.7	1139.3	1168.7	1167.4	1176.5	1202.1
22.5°	1028.0	1035.9	1066.6	1120.3	1179.8	1214.5	1229.6	1242.0	1225.6	1217.8	1234.1
25°	1094.8	1103.9	1137.3	1196.2	1262.9	1302.8	1315.3	1325.1	1298.9	1269.5	1271.4
27.5°	1181.1	1187.7	1220.4	1283.2	1350.0	1395.1	1406.2	1423.2	1388.6	1341.4	1328.4
30°	1283.9	1290.4	1325.1	1391.2	1457.3	1495.9	1512.9	1533.8	1495.9	1437.0	1421.9
32.5°	1404.3	1410.8	1455.3	1523.4	1577.7	1619.6	1635.9	1658.2	1628.1	1562.0	1545.0
35°	1548.2	1552.2	1604.5	1678.4	1736.0	1776.6	1787.7	1813.9	1780.5	1714.4	1705.3
37.5°	1715.1	1719.7	1776.6	1862.3	1921.2	1966.4	1984.0	1991.2	1950.7	1876.7	1869.5
40°	1898.3	1913.4	1969.0	2061.3	2127.3	2184.3	2200.0	2175.8	2118.8	2018.1	2005.0
42.5°	2089.4	2102.5	2164.6	2264.8	2341.3	2399.6	2400.2	2347.9	2251.0	2111.6	2092.0
45°	2248.4	2253.6	2334.1	2434.9	2529.1	2570.3	2574.3	2479.4	2333.5	2166.0	2124.1
47.5°	2357.7	2366.2	2436.2	2533.0	2637.1	2674.4	2666.5	2548.1	2372.7	2201.3	2131.9
50°	2359.0	2373.4	2449.3	2542.9	2643.6	2688.8	2677.7	2567.7	2395.0	2202.6	2112.9
52.5°	2150.2	2173.8	2297.5	2432.9	2587.4	2664.6	2667.2	2593.3	2386.5	2181.7	2095.9
55°	1622.2	1647.7	1803.4	2034.4	2332.8	2548.1	2585.4	2563.2	2376.7	2190.8	2126.0
57.5°	858.5	838.9	925.3	1154.3	1529.3	1910.1	2019.4	2197.4	2267.4	2201.9	2181.7
60°	187.1	199.6	265.7	357.9	596.8	898.4	1005.1	1310.0	1672.6	1833.5	1950.0
62.5°	80.5	79.2	82.5	93.6	136.8	227.7	278.1	454.1	716.5	984.2	1165.4
65°	66.1	66.7	69.4	69.4	64.8	65.4	68.7	104.0	167.5	234.9	315.4
67.5°	49.7	50.4	55.0	56.3	53.0	47.1	46.5	39.3	41.2	51.7	53.7
70°	31.4	31.4	34.0	35.3	35.3	32.7	32.1	28.1	27.5	31.4	35.3
72.5°	17.0	17.0	18.3	19.0	18.3	17.7	17.7	17.0	16.4	19.0	24.2
75°	7.2	7.2	7.9	7.9	7.2	7.2	7.2	7.2	7.2	8.5	13.1
77.5°	1.3	2.0	2.6	2.0	1.3	1.3	1.3	2.0	2.0	2.6	3.9
80°	0.7	0.7	1.3	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
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°	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5	841.5
2.5°	855.9	848.7	851.3	852.6	850.7	849.4	842.2	840.2	836.9	831.7	830.4
5°	884.7	878.8	878.2	874.2	865.1	853.9	840.2	834.3	827.8	821.2	819.9
7.5°	933.1	925.9	921.3	908.3	887.3	869.7	846.7	834.3	825.8	817.3	815.3
10°	995.3	986.8	973.7	949.5	921.3	895.8	869.0	852.6	839.6	827.8	827.1
12.5°	1061.4	1052.2	1028.7	997.9	963.9	940.3	906.3	883.4	863.8	846.1	844.1
15°	1130.7	1119.6	1087.6	1050.9	1019.5	995.3	958.0	921.3	891.2	865.7	863.1
17.5°	1183.7	1170.0	1132.1	1104.6	1079.0	1054.2	1012.3	963.9	924.0	893.2	886.0
20°	1217.1	1204.0	1168.0	1153.0	1141.2	1123.5	1073.8	1023.4	978.9	941.0	934.4
22.5°	1249.2	1233.5	1202.1	1202.1	1211.2	1204.0	1150.4	1092.8	1040.4	996.6	986.8
25°	1285.2	1272.7	1250.5	1268.8	1291.7	1291.1	1236.1	1164.1	1103.9	1054.8	1045.0
27.5°	1337.5	1325.1	1317.2	1351.9	1380.7	1378.7	1318.5	1240.7	1177.2	1128.8	1119.6
30°	1429.8	1418.0	1409.5	1451.4	1488.0	1474.3	1408.2	1332.9	1268.8	1213.8	1207.3
32.5°	1552.8	1540.4	1529.3	1571.1	1603.9	1586.2	1523.4	1452.7	1378.7	1325.1	1312.0
35°	1714.4	1688.3	1677.1	1726.9	1740.6	1721.0	1660.8	1598.6	1520.1	1458.6	1450.1
37.5°	1881.3	1850.5	1842.7	1885.9	1908.1	1900.9	1830.3	1765.5	1680.4	1612.4	1602.5
40°	2024.0	1995.8	1982.1	2049.5	2099.9	2104.4	2041.0	1961.8	1861.7	1791.0	1773.3
42.5°	2107.7	2083.5	2080.2	2184.9	2267.4	2326.3	2250.4	2168.6	2063.2	1983.4	1969.0
45°	2126.7	2111.0	2138.5	2275.9	2404.1	2511.5	2446.7	2360.3	2246.4	2162.0	2148.3
47.5°	2124.7	2119.5	2168.6	2323.0	2485.3	2617.5	2585.4	2487.9	2378.0	2289.6	2276.5
50°	2096.6	2097.2	2179.0	2346.6	2518.0	2646.3	2614.2	2523.9	2425.7	2338.7	2328.2
52.5°	2085.5	2081.5	2159.4	2339.4	2551.4	2633.2	2561.2	2459.8	2350.5	2243.2	2227.5
55°	2124.7	2114.9	2162.0	2333.5	2555.3	2626.0	2436.2	2216.3	1992.5	1865.6	1855.1
57.5°	2183.6	2173.1	2195.4	2290.3	2350.5	2183.6	1793.0	1438.3	1208.0	1110.5	1067.9
60°	1950.0	1942.8	1925.8	1811.3	1553.5	1172.0	798.3	509.1	365.8	295.8	295.8
62.5°	1209.9	1200.1	1107.8	823.2	598.1	346.2	190.4	119.1	90.3	84.4	83.8
65°	339.6	337.7	279.4	197.6	125.6	77.9	68.7	70.0	68.7	66.7	66.1
67.5°	51.0	56.3	56.3	45.8	43.8	49.1	57.6	61.5	58.2	55.0	53.7
70°	32.7	35.3	34.0	29.4	31.4	36.6	41.2	41.9	39.9	36.6	36.0
72.5°	22.9	25.5	20.9	19.0	19.6	21.6	23.6	23.6	22.9	21.6	20.3
75°	13.7	13.7	9.8	9.2	9.2	9.8	9.8	11.1	11.1	10.5	9.8
77.5°	4.6	5.2	3.3	2.6	2.6	2.6	3.3	3.9	3.9	3.3	2.6
80°	0.7	1.3	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	0.7
82.5°	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
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)