

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: P636541

Luminaire Tested: GWS-SA4B-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636541  
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-SA4B-722-U-RW-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

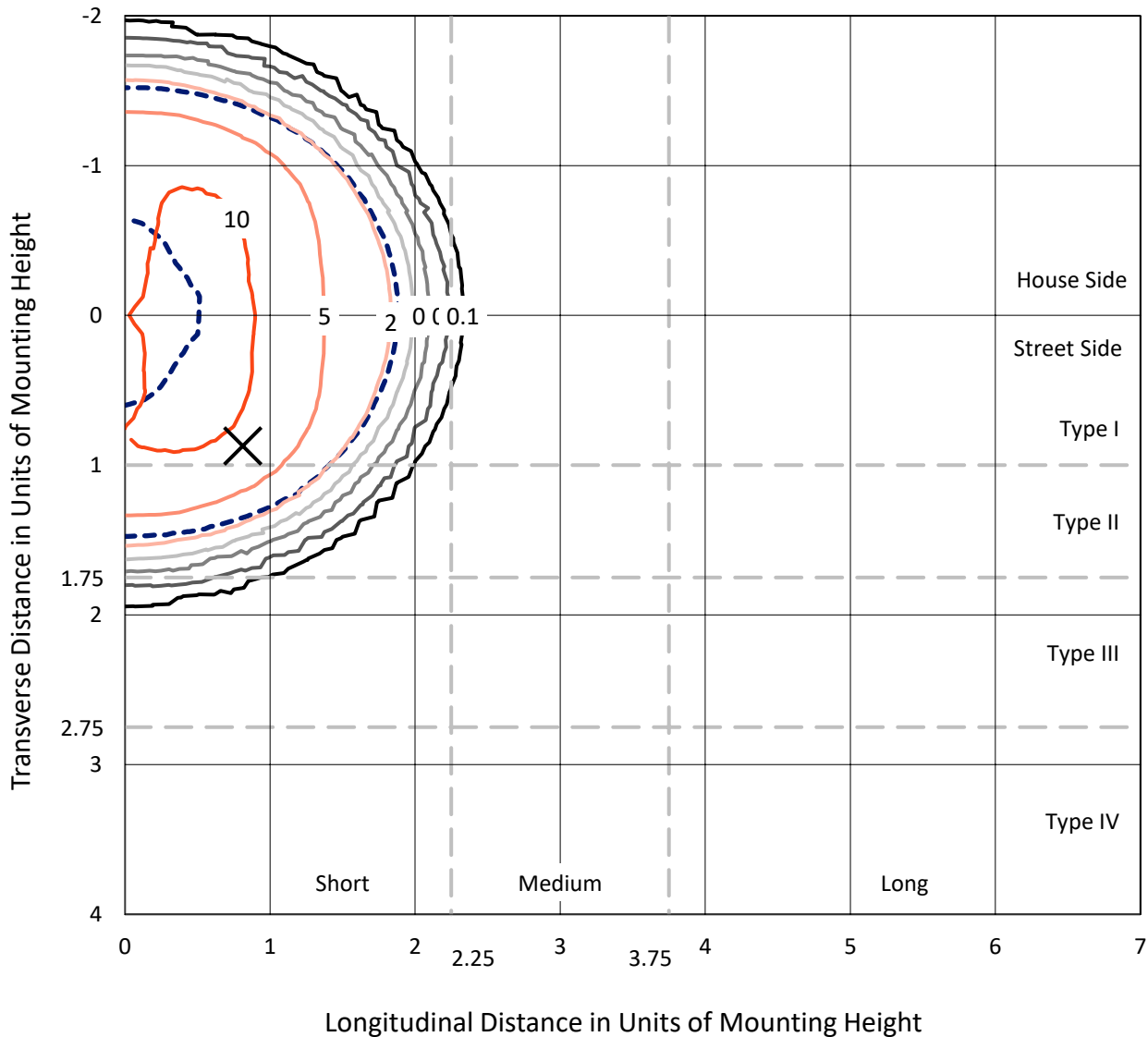
Lumens per Lamp: N/A  
Luminaire Lumens: 6910.1 lumens  
Efficiency: N/A  
Efficacy: 73.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

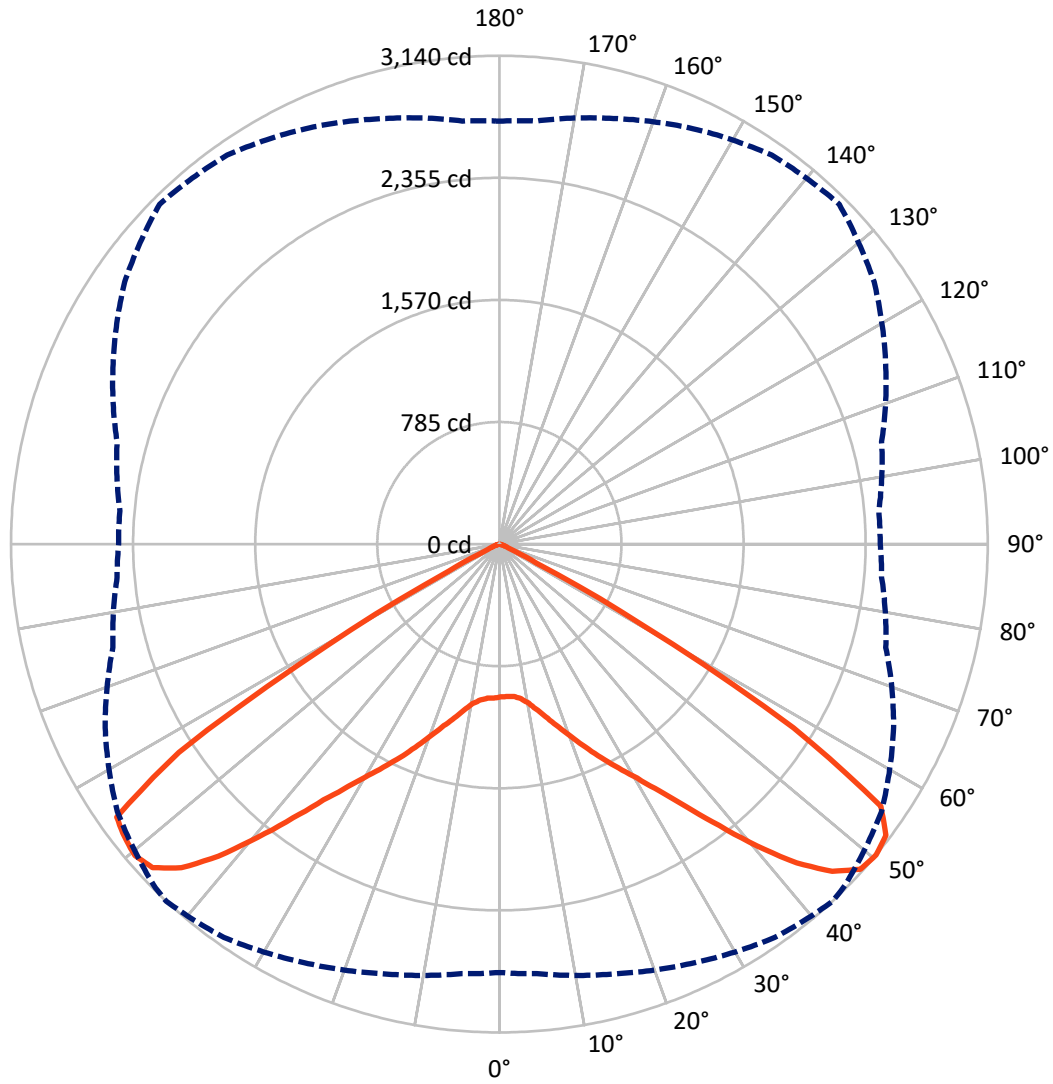
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 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	3455.0	0.0	3455.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3455.1	0.0	3455.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6910.1	0.0	6910.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.8	1.4
10°-20°	333.1	4.8
20°-30°	673.9	9.8
30°-40°	1250.3	18.1
40°-50°	2075.4	30.0
50°-60°	2118.0	30.7
60°-70°	347.3	5.0
70°-80°	15.2	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°	6910.1	100.0
0°-180°	6910.1	100.0

**Coefficient of Utilization**



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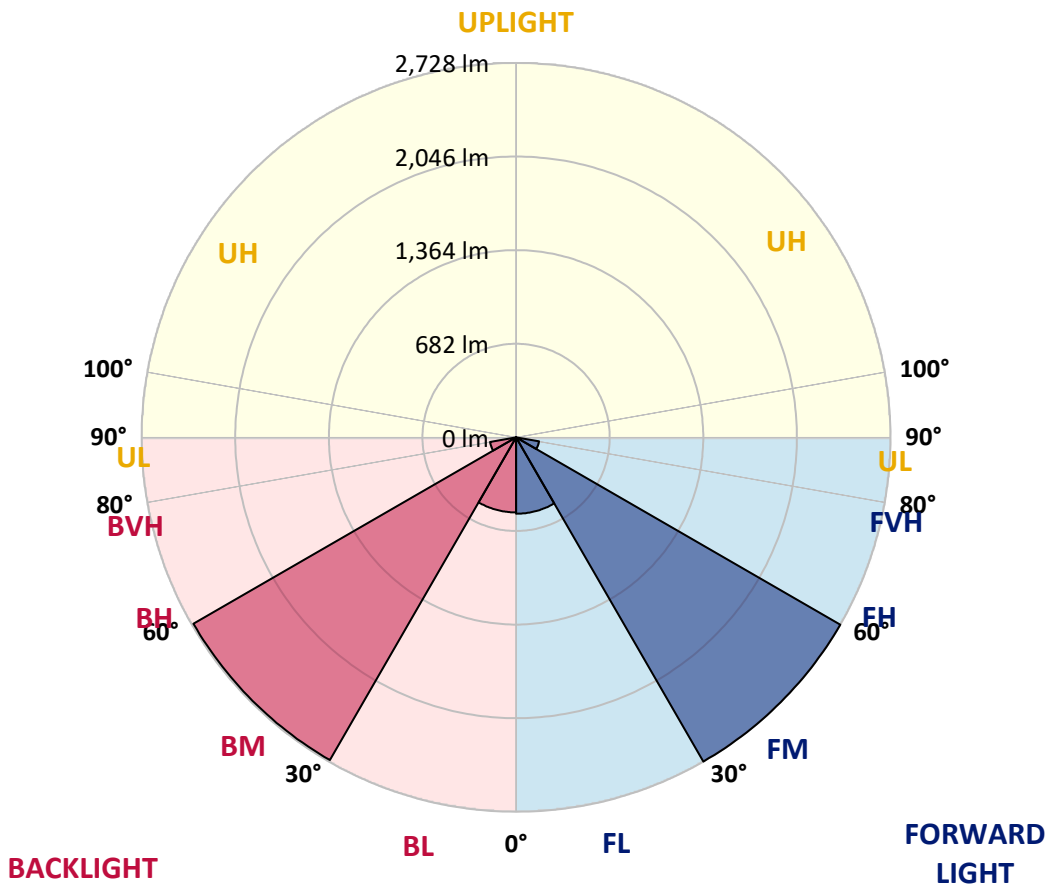
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	556.7	8.1			
FM (30°-60°)	2728.4	39.5			
FH (60°-80°)	169.9	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	547.0	7.9	B2/1000		
BM (30°-60°)	2715.2	39.3	B3/5000		
BH (60°-80°)	192.6	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: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	964.5	966.8	969.9	972.9	976.7	980.6	982.9	989.7	988.2	994.3	994.3
5°	953.8	956.1	959.9	966.8	975.2	983.6	989.7	1003.5	1011.1	1023.4	1027.9
7.5°	959.2	962.2	966.8	977.5	990.5	1003.5	1010.4	1032.5	1047.8	1070.7	1083.7
10°	976.7	979.8	987.4	1005.8	1022.6	1040.9	1049.3	1077.6	1102.1	1133.4	1151.8
12.5°	996.6	1000.4	1015.7	1043.2	1072.3	1096.7	1108.2	1139.5	1164.7	1199.9	1228.9
15°	1017.2	1023.4	1047.1	1087.6	1128.8	1161.7	1173.9	1207.5	1232.8	1270.2	1303.1
17.5°	1065.4	1072.3	1099.0	1142.6	1199.1	1237.4	1248.1	1283.2	1302.3	1327.5	1361.9
20°	1125.8	1138.8	1171.6	1224.4	1286.3	1323.0	1330.6	1365.0	1363.5	1374.2	1404.0
22.5°	1200.7	1209.8	1245.8	1308.4	1378.0	1418.5	1436.1	1450.6	1431.5	1422.3	1441.4
25°	1278.6	1289.3	1328.3	1397.1	1475.0	1521.7	1536.2	1547.6	1517.1	1482.7	1485.0
27.5°	1379.5	1387.2	1425.4	1498.7	1576.7	1629.4	1642.4	1662.3	1621.8	1566.8	1551.5
30°	1499.5	1507.1	1547.6	1624.8	1702.0	1747.1	1767.0	1791.5	1747.1	1678.3	1660.8
32.5°	1640.1	1647.8	1699.7	1779.2	1842.7	1891.6	1910.7	1936.7	1901.5	1824.3	1804.4
35°	1808.3	1812.9	1874.0	1960.4	2027.6	2075.0	2088.0	2118.6	2079.6	2002.4	1991.7
37.5°	2003.2	2008.5	2075.0	2175.1	2243.9	2296.6	2317.3	2325.7	2278.3	2191.9	2183.5
40°	2217.2	2234.7	2299.7	2407.5	2484.6	2551.1	2569.5	2541.2	2474.7	2357.0	2341.7
42.5°	2440.3	2455.6	2528.2	2645.1	2734.6	2802.6	2803.3	2742.2	2629.1	2466.3	2443.4
45°	2626.0	2632.1	2726.2	2843.9	2953.9	3002.1	3006.6	2895.8	2725.4	2529.7	2480.8
47.5°	2753.7	2763.6	2845.4	2958.5	3080.0	3123.6	3114.4	2976.1	2771.2	2571.0	2490.0
50°	2755.2	2772.0	2860.7	2970.0	3087.7	3140.4	3127.4	2999.0	2797.2	2572.5	2467.8
52.5°	2511.4	2538.9	2683.4	2841.6	3021.9	3112.1	3115.2	3028.8	2787.3	2548.1	2448.0
55°	1894.6	1924.4	2106.3	2376.1	2724.6	2976.1	3019.6	2993.6	2775.8	2558.8	2483.1
57.5°	1002.7	979.8	1080.7	1348.2	1786.1	2230.9	2358.5	2566.4	2648.2	2571.8	2548.1
60°	218.6	233.1	310.3	418.1	697.0	1049.3	1173.9	1530.1	1953.5	2141.5	2277.5
62.5°	94.0	92.5	96.3	109.3	159.7	266.0	324.8	530.4	836.9	1149.5	1361.2
65°	77.2	78.0	81.0	81.0	75.7	76.4	80.2	121.5	195.7	274.4	368.4
67.5°	58.1	58.8	64.2	65.7	61.9	55.0	54.3	45.9	48.1	60.4	62.7
70°	36.7	36.7	39.7	41.3	41.3	38.2	37.4	32.9	32.1	36.7	41.3
72.5°	19.9	19.9	21.4	22.2	21.4	20.6	20.6	19.9	19.1	22.2	28.3
75°	8.4	8.4	9.2	9.2	8.4	8.4	8.4	8.4	8.4	9.9	15.3
77.5°	1.5	2.3	3.1	2.3	1.5	1.5	1.5	2.3	2.3	3.1	4.6
80°	0.8	0.8	1.5	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
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°	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9	982.9
2.5°	999.7	991.3	994.3	995.8	993.6	992.0	983.6	981.3	977.5	971.4	969.9
5°	1033.3	1026.4	1025.7	1021.1	1010.4	997.4	981.3	974.4	966.8	959.2	957.6
7.5°	1089.9	1081.4	1076.1	1060.8	1036.4	1015.7	989.0	974.4	964.5	954.6	952.3
10°	1162.5	1152.5	1137.2	1109.0	1076.1	1046.3	1015.0	995.8	980.6	966.8	966.0
12.5°	1239.6	1228.9	1201.4	1165.5	1125.8	1098.3	1058.5	1031.8	1008.8	988.2	985.9
15°	1320.7	1307.7	1270.2	1227.4	1190.7	1162.5	1118.9	1076.1	1040.9	1011.1	1008.1
17.5°	1382.6	1366.5	1322.2	1290.1	1260.3	1231.2	1182.3	1125.8	1079.2	1043.2	1034.8
20°	1421.5	1406.3	1364.2	1346.6	1332.9	1312.3	1254.2	1195.3	1143.3	1099.0	1091.4
22.5°	1459.0	1440.7	1404.0	1404.0	1414.7	1406.3	1343.6	1276.3	1215.2	1164.0	1152.5
25°	1501.0	1486.5	1460.5	1481.9	1508.7	1507.9	1443.7	1359.6	1289.3	1232.0	1220.5
27.5°	1562.2	1547.6	1538.5	1579.0	1612.6	1610.3	1540.0	1449.1	1374.9	1318.4	1307.7
30°	1669.9	1656.2	1646.2	1695.2	1738.0	1721.9	1644.7	1556.8	1481.9	1417.7	1410.1
32.5°	1813.6	1799.1	1786.1	1835.0	1873.2	1852.6	1779.2	1696.7	1610.3	1547.6	1532.4
35°	2002.4	1971.8	1958.8	2016.9	2033.0	2010.0	1939.7	1867.1	1775.4	1703.6	1693.6
37.5°	2197.3	2161.4	2152.2	2202.6	2228.6	2220.2	2137.7	2062.0	1962.6	1883.2	1871.7
40°	2363.9	2331.0	2315.0	2393.7	2452.5	2457.9	2383.8	2291.3	2174.4	2091.8	2071.2
42.5°	2461.7	2433.4	2429.6	2551.9	2648.2	2717.0	2628.3	2532.8	2409.7	2316.5	2299.7
45°	2483.9	2465.5	2497.6	2658.1	2807.9	2933.3	2857.6	2756.7	2623.7	2525.2	2509.1
47.5°	2481.6	2475.5	2532.8	2713.2	2902.7	3057.1	3019.6	2905.8	2777.4	2674.2	2658.9
50°	2448.7	2449.5	2545.0	2740.7	2940.9	3090.7	3053.3	2947.8	2833.2	2731.5	2719.3
52.5°	2435.7	2431.1	2522.1	2732.3	2979.9	3075.4	2991.4	2872.9	2745.3	2619.9	2601.6
55°	2481.6	2470.1	2525.2	2725.4	2984.5	3067.0	2845.4	2588.6	2327.2	2178.9	2166.7
57.5°	2550.4	2538.1	2564.1	2674.9	2745.3	2550.4	2094.1	1679.9	1410.8	1297.0	1247.3
60°	2277.5	2269.1	2249.2	2115.5	1814.4	1368.8	932.4	594.6	427.2	345.5	345.5
62.5°	1413.1	1401.7	1293.9	961.5	698.5	404.3	222.4	139.1	105.5	98.6	97.8
65°	396.7	394.4	326.3	230.8	146.7	90.9	80.2	81.8	80.2	78.0	77.2
67.5°	59.6	65.7	65.7	53.5	51.2	57.3	67.3	71.8	68.0	64.2	62.7
70°	38.2	41.3	39.7	34.4	36.7	42.8	48.1	48.9	46.6	42.8	42.0
72.5°	26.7	29.8	24.5	22.2	22.9	25.2	27.5	27.5	26.7	25.2	23.7
75°	16.0	16.0	11.5	10.7	10.7	11.5	11.5	13.0	13.0	12.2	11.5
77.5°	5.3	6.1	3.8	3.1	3.1	3.1	3.8	4.6	4.6	3.8	3.1
80°	0.8	1.5	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	0.8
82.5°	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
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)