

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: P632801

Luminaire Tested: GWS-SA2D-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632801
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7567.6 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

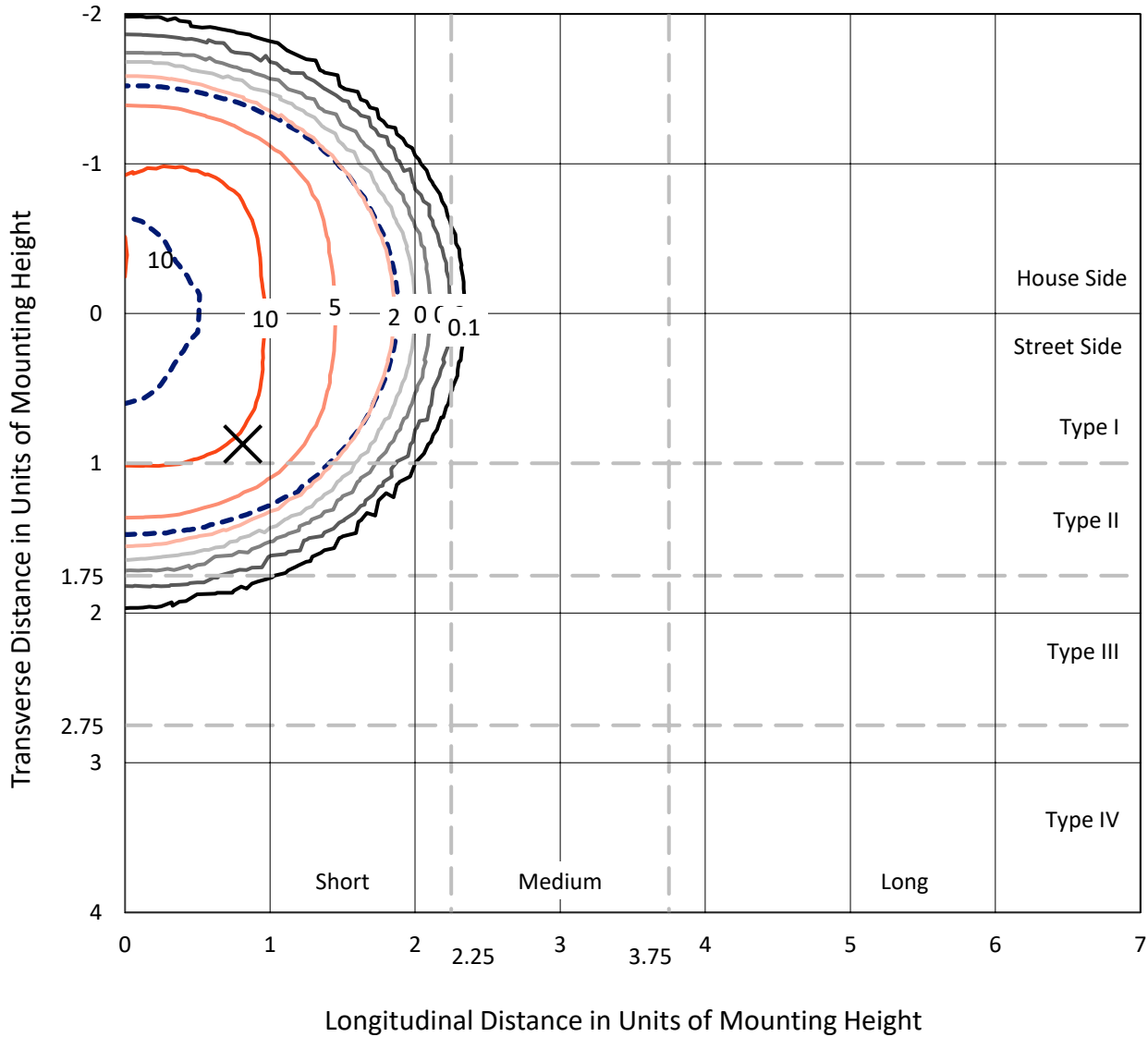
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

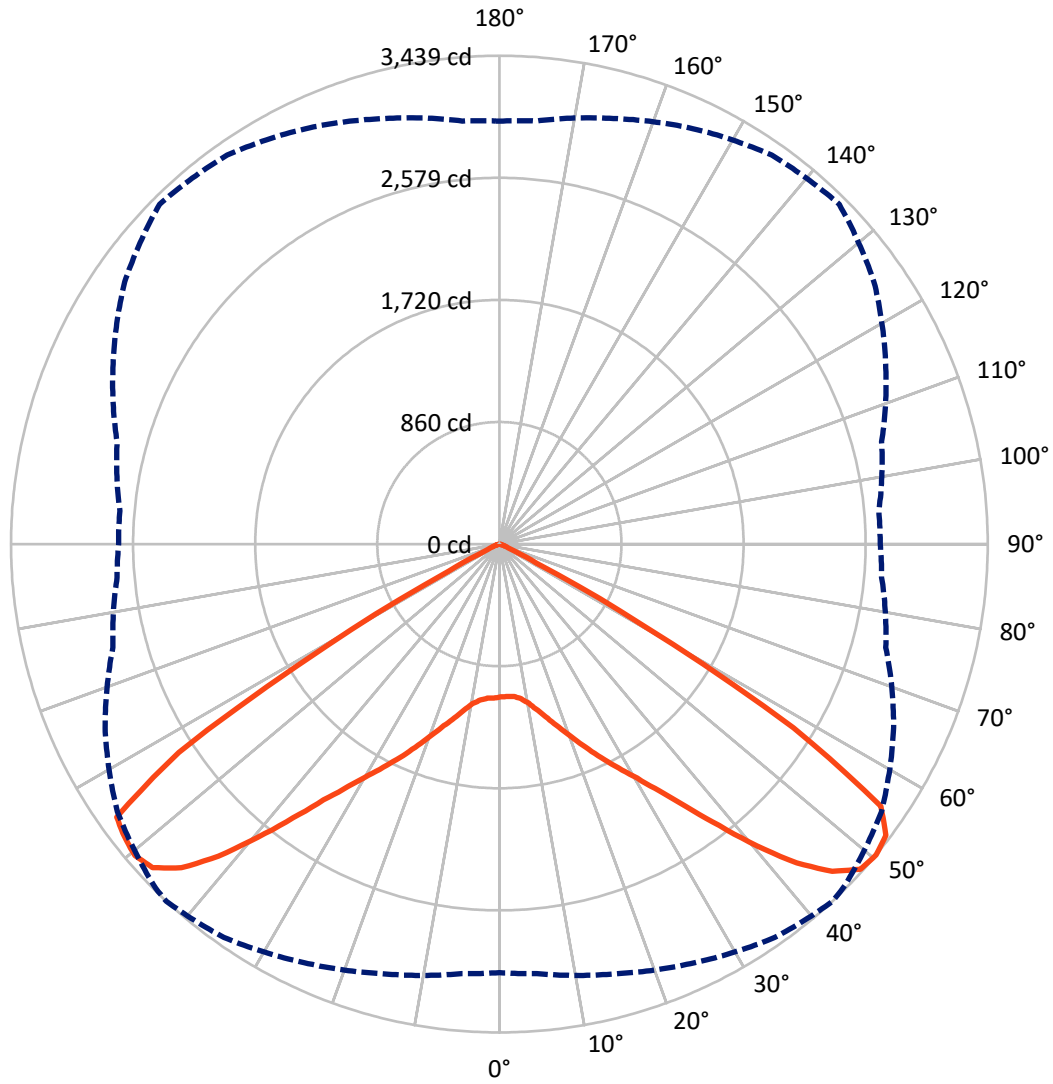
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.9 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
House Side	Lumens	3783.7	0.0	3783.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3783.9	0.0	3783.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7567.6	0.0	7567.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	1.4
10°-20°	364.8	4.8
20°-30°	738.0	9.8
30°-40°	1369.2	18.1
40°-50°	2272.8	30.0
50°-60°	2319.5	30.7
60°-70°	380.4	5.0
70°-80°	16.6	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°	7567.6	100.0
0°-180°	7567.6	100.0

Coefficient of Utilization



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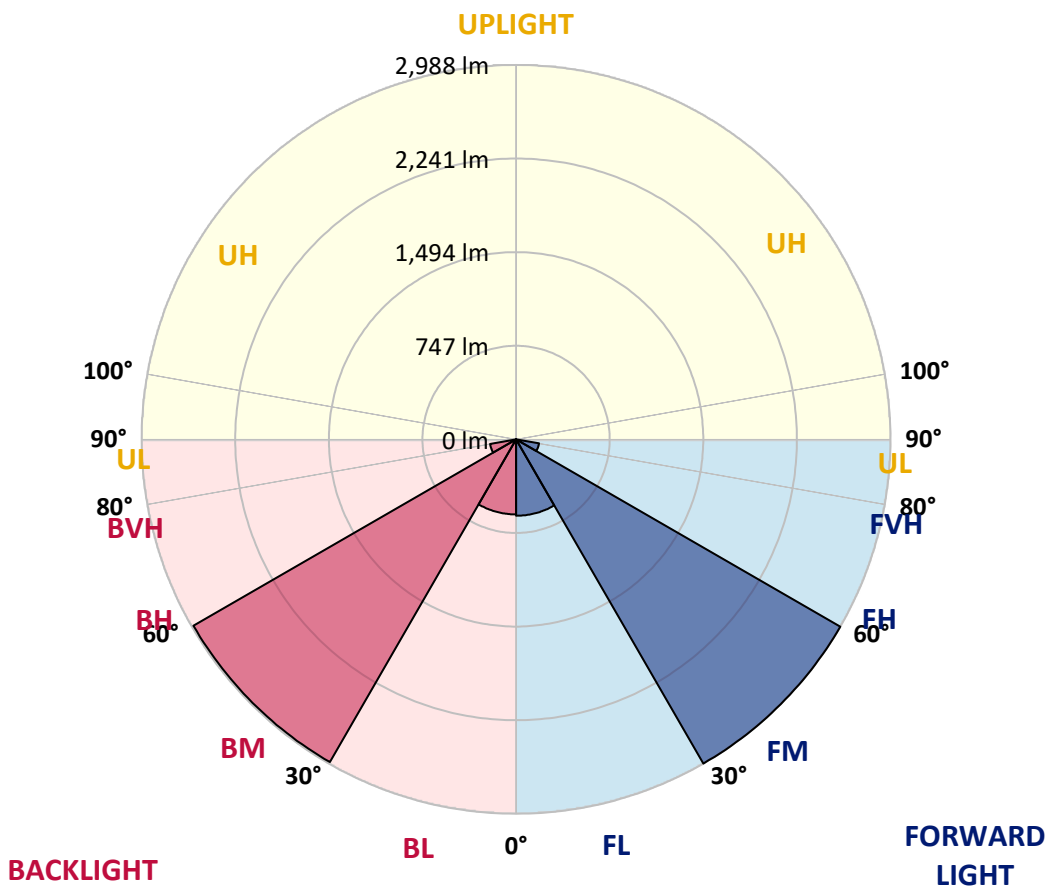
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	609.7	8.1			
FM (30°-60°)	2988.1	39.5			
FH (60°-80°)	186.1	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	599.1	7.9	B2/1000		
BM (30°-60°)	2973.5	39.3	B3/5000		
BH (60°-80°)	210.9	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: 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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1056.3	1058.8	1062.1	1065.5	1069.7	1073.9	1076.4	1083.9	1082.2	1088.9	1088.9
5°	1044.6	1047.1	1051.3	1058.8	1068.0	1077.2	1083.9	1099.0	1107.3	1120.7	1125.8
7.5°	1050.4	1053.8	1058.8	1070.5	1084.7	1099.0	1106.5	1130.8	1147.5	1172.6	1186.9
10°	1069.7	1073.0	1081.4	1101.5	1119.9	1140.0	1149.2	1180.2	1206.9	1241.3	1261.3
12.5°	1091.4	1095.6	1112.4	1142.5	1174.3	1201.1	1213.6	1248.0	1275.6	1314.1	1345.9
15°	1114.0	1120.7	1146.7	1191.0	1236.2	1272.2	1285.6	1322.4	1350.1	1391.1	1427.1
17.5°	1166.8	1174.3	1203.6	1251.3	1313.2	1355.1	1366.8	1405.3	1426.2	1453.9	1491.5
20°	1232.9	1247.1	1283.1	1340.9	1408.7	1448.8	1457.2	1494.9	1493.2	1504.9	1537.6
22.5°	1314.9	1325.0	1364.3	1432.9	1509.1	1553.5	1572.7	1588.6	1567.7	1557.6	1578.6
25°	1400.3	1412.0	1454.7	1530.0	1615.4	1666.5	1682.4	1694.9	1661.4	1623.8	1626.3
27.5°	1510.8	1519.1	1561.0	1641.3	1726.7	1784.5	1798.7	1820.5	1776.1	1715.8	1699.1
30°	1642.2	1650.5	1694.9	1779.4	1864.0	1913.4	1935.1	1961.9	1913.4	1838.0	1818.8
32.5°	1796.2	1804.6	1861.5	1948.5	2018.0	2071.6	2092.5	2120.9	2082.4	1997.9	1976.1
35°	1980.3	1985.3	2052.3	2146.9	2220.5	2272.4	2286.7	2320.1	2277.5	2192.9	2181.2
37.5°	2193.8	2199.6	2272.4	2382.1	2457.4	2515.2	2537.8	2547.0	2495.1	2400.5	2391.3
40°	2428.1	2447.4	2518.5	2636.5	2721.1	2793.9	2814.0	2783.0	2710.2	2581.3	2564.5
42.5°	2672.5	2689.3	2768.8	2896.8	2994.8	3069.2	3070.1	3003.1	2879.3	2701.0	2675.9
45°	2875.9	2882.6	2985.5	3114.4	3235.0	3287.7	3292.7	3171.4	2984.7	2770.4	2716.9
47.5°	3015.7	3026.6	3116.1	3240.0	3373.1	3420.8	3410.7	3259.2	3034.9	2815.6	2726.9
50°	3017.4	3035.8	3132.9	3252.5	3381.4	3439.2	3425.0	3284.4	3063.4	2817.3	2702.6
52.5°	2750.4	2780.5	2938.7	3111.9	3309.5	3408.2	3411.6	3317.0	3052.5	2790.5	2680.9
55°	2074.9	2107.5	2306.7	2602.2	2983.9	3259.2	3307.0	3278.5	3040.0	2802.2	2719.4
57.5°	1098.1	1073.0	1183.5	1476.5	1956.0	2443.2	2583.0	2810.6	2900.2	2816.5	2790.5
60°	239.4	255.3	339.8	457.8	763.3	1149.2	1285.6	1675.7	2139.4	2345.3	2494.2
62.5°	102.9	101.3	105.5	119.7	174.9	291.3	355.7	580.9	916.5	1258.8	1490.7
65°	84.5	85.4	88.7	88.7	82.9	83.7	87.9	133.1	214.3	300.5	403.4
67.5°	63.6	64.4	70.3	72.0	67.8	60.3	59.4	50.2	52.7	66.1	68.6
70°	40.2	40.2	43.5	45.2	45.2	41.8	41.0	36.0	35.2	40.2	45.2
72.5°	21.8	21.8	23.4	24.3	23.4	22.6	22.6	21.8	20.9	24.3	31.0
75°	9.2	9.2	10.0	10.0	9.2	9.2	9.2	9.2	9.2	10.9	16.7
77.5°	1.7	2.5	3.3	2.5	1.7	1.7	1.7	2.5	2.5	3.3	5.0
80°	0.8	0.8	1.7	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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1094.8	1085.6	1088.9	1090.6	1088.1	1086.4	1077.2	1074.7	1070.5	1063.8	1062.1
5°	1131.6	1124.1	1123.2	1118.2	1106.5	1092.3	1074.7	1067.2	1058.8	1050.4	1048.8
7.5°	1193.6	1184.3	1178.5	1161.7	1135.0	1112.4	1083.1	1067.2	1056.3	1045.4	1042.9
10°	1273.1	1262.2	1245.4	1214.5	1178.5	1145.8	1111.5	1090.6	1073.9	1058.8	1058.0
12.5°	1357.6	1345.9	1315.8	1276.4	1232.9	1202.8	1159.2	1129.9	1104.8	1082.2	1079.7
15°	1446.3	1432.1	1391.1	1344.2	1304.0	1273.1	1225.4	1178.5	1140.0	1107.3	1104.0
17.5°	1514.1	1496.5	1448.0	1412.8	1380.2	1348.4	1294.8	1232.9	1181.8	1142.5	1133.3
20°	1556.8	1540.1	1494.0	1474.8	1459.7	1437.1	1373.5	1309.1	1252.1	1203.6	1195.2
22.5°	1597.8	1577.7	1537.6	1537.6	1549.3	1540.1	1471.4	1397.8	1330.8	1274.7	1262.2
25°	1643.9	1627.9	1599.5	1622.9	1652.2	1651.4	1581.1	1489.0	1412.0	1349.2	1336.7
27.5°	1710.8	1694.9	1684.9	1729.2	1766.1	1763.5	1686.5	1586.9	1505.7	1443.8	1432.1
30°	1828.8	1813.8	1802.9	1856.4	1903.3	1885.7	1801.2	1705.0	1622.9	1552.6	1544.2
32.5°	1986.2	1970.3	1956.0	2009.6	2051.5	2028.9	1948.5	1858.1	1763.5	1694.9	1678.2
35°	2192.9	2159.4	2145.2	2208.8	2226.4	2201.3	2124.3	2044.8	1944.3	1865.7	1854.8
37.5°	2406.4	2367.0	2357.0	2412.2	2440.7	2431.5	2341.1	2258.2	2149.4	2062.3	2049.8
40°	2588.8	2552.8	2535.2	2621.5	2685.9	2691.8	2610.6	2509.3	2381.2	2290.8	2268.2
42.5°	2696.0	2665.0	2660.8	2794.7	2900.2	2975.5	2878.4	2773.8	2639.0	2536.9	2518.5
45°	2720.2	2700.1	2735.3	2911.1	3075.1	3212.4	3129.5	3019.0	2873.4	2765.4	2747.8
47.5°	2717.7	2711.0	2773.8	2971.3	3178.9	3348.0	3307.0	3182.2	3041.6	2928.6	2911.9
50°	2681.7	2682.6	2787.2	3001.5	3220.7	3384.8	3343.8	3228.3	3102.7	2991.4	2978.0
52.5°	2667.5	2662.5	2762.1	2992.2	3263.4	3368.1	3276.0	3146.3	3006.5	2869.2	2849.1
55°	2717.7	2705.2	2765.4	2984.7	3268.5	3358.8	3116.1	2834.9	2548.6	2386.3	2372.9
57.5°	2793.0	2779.6	2808.1	2929.5	3006.5	2793.0	2293.4	1839.7	1545.1	1420.4	1366.0
60°	2494.2	2485.0	2463.3	2316.8	1987.0	1499.1	1021.1	651.2	467.9	378.3	378.3
62.5°	1547.6	1535.0	1417.0	1052.9	765.0	442.8	243.6	152.3	115.5	108.0	107.1
65°	434.4	431.9	357.4	252.8	160.7	99.6	87.9	89.6	87.9	85.4	84.5
67.5°	65.3	72.0	72.0	58.6	56.1	62.8	73.7	78.7	74.5	70.3	68.6
70°	41.8	45.2	43.5	37.7	40.2	46.9	52.7	53.6	51.1	46.9	46.0
72.5°	29.3	32.6	26.8	24.3	25.1	27.6	30.1	30.1	29.3	27.6	25.9
75°	17.6	17.6	12.6	11.7	11.7	12.6	12.6	14.2	14.2	13.4	12.6
77.5°	5.9	6.7	4.2	3.3	3.3	3.3	4.2	5.0	5.0	4.2	3.3
80°	0.8	1.7	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	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)