

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: P633571

Luminaire Tested: GWS-SA2F-722-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633571
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-SA2F-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7744.7 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

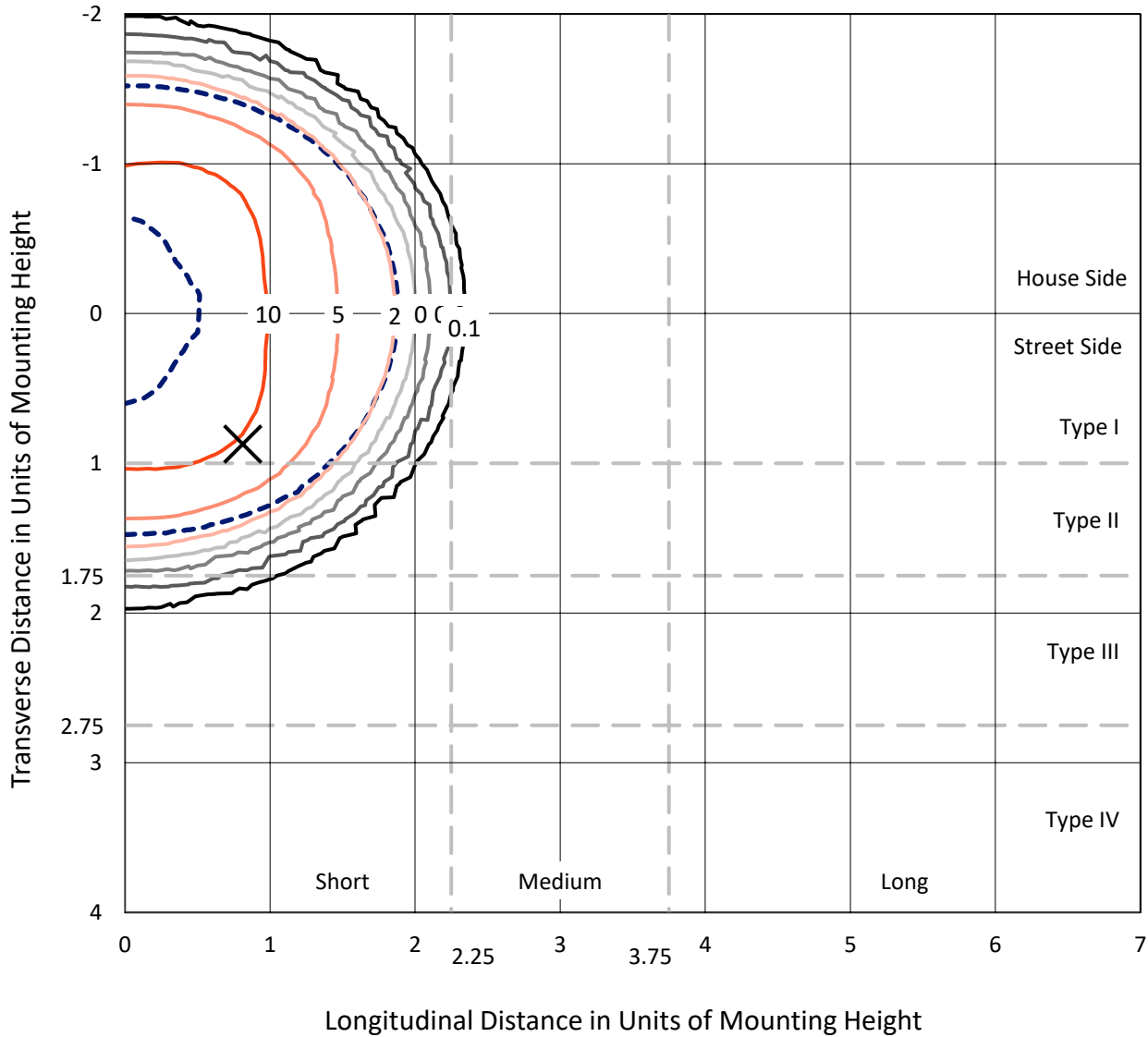
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

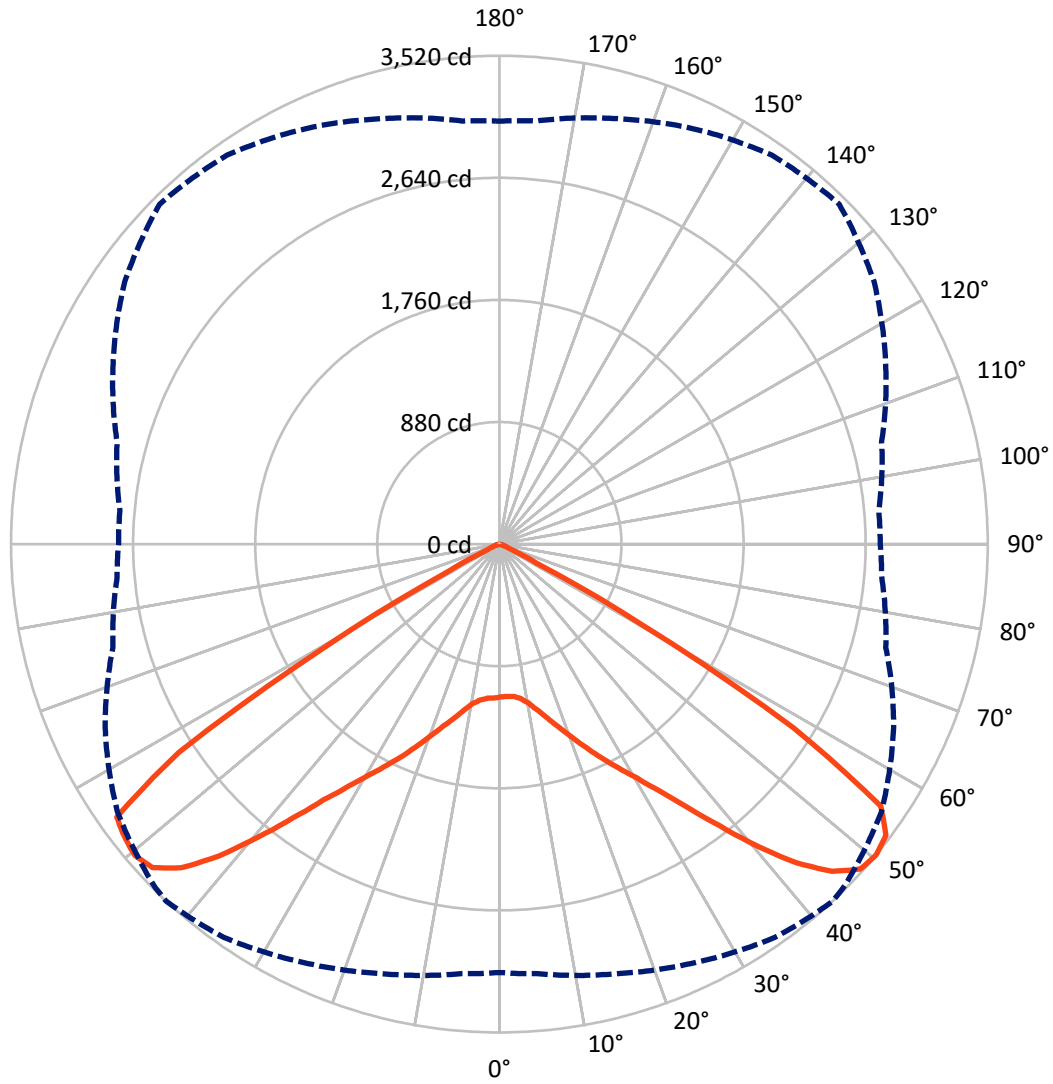
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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	3872.3	0.0	3872.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3872.4	0.0	3872.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7744.7	0.0	7744.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	1.4
10°-20°	373.3	4.8
20°-30°	755.3	9.8
30°-40°	1401.3	18.1
40°-50°	2326.0	30.0
50°-60°	2373.8	30.7
60°-70°	389.3	5.0
70°-80°	17.0	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°	7744.7	100.0
0°-180°	7744.7	100.0

Coefficient of Utilization



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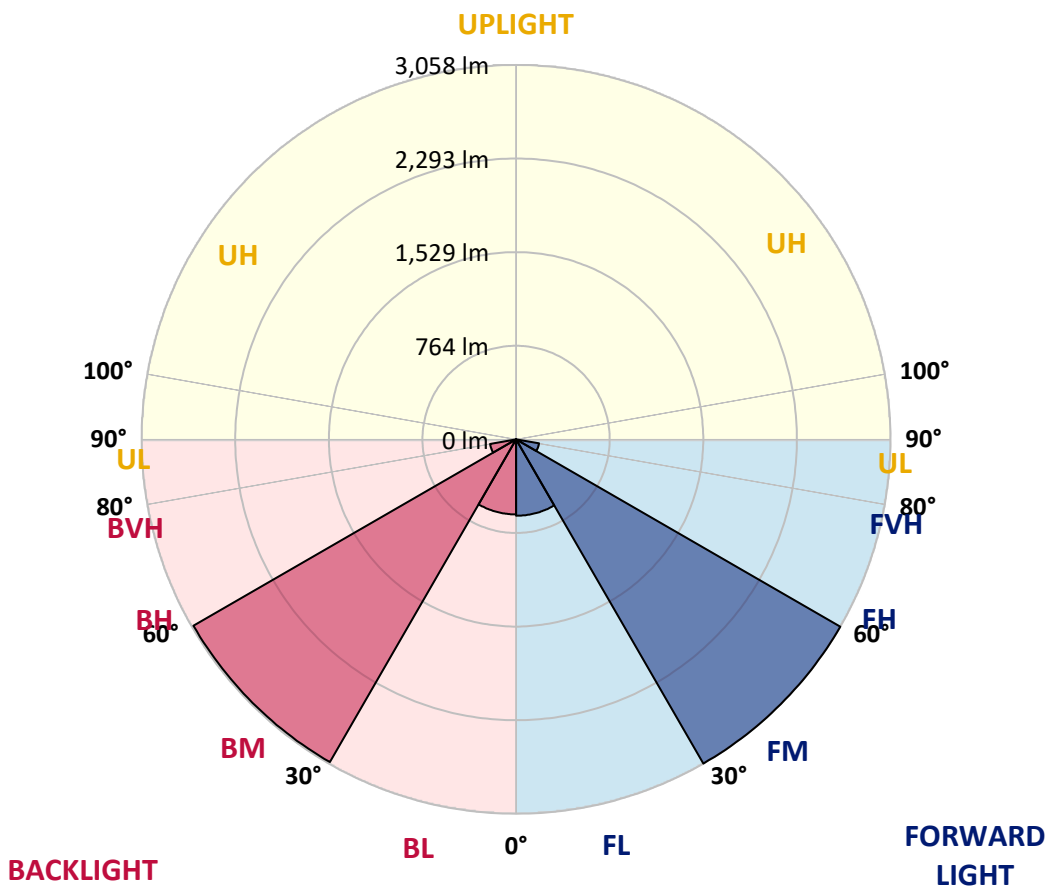
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.9	8.1			
FM (30°-60°)	3058.0	39.5			
FH (60°-80°)	190.4	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	613.1	7.9	B2/1000		
BM (30°-60°)	3043.1	39.3	B3/5000		
BH (60°-80°)	215.9	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	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°	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6
2.5°	1081.0	1083.6	1087.0	1090.4	1094.7	1099.0	1101.6	1109.3	1107.6	1114.4	1114.4
5°	1069.0	1071.6	1075.9	1083.6	1093.0	1102.4	1109.3	1124.7	1133.3	1147.0	1152.1
7.5°	1075.0	1078.4	1083.6	1095.6	1110.1	1124.7	1132.4	1157.2	1174.4	1200.1	1214.6
10°	1094.7	1098.1	1106.7	1127.3	1146.1	1166.7	1176.1	1207.8	1235.2	1270.3	1290.9
12.5°	1117.0	1121.3	1138.4	1169.2	1201.8	1229.2	1242.0	1277.2	1305.4	1344.8	1377.4
15°	1140.1	1147.0	1173.5	1218.9	1265.2	1302.0	1315.7	1353.4	1381.7	1423.6	1460.5
17.5°	1194.1	1201.8	1231.8	1280.6	1344.0	1386.8	1398.8	1438.2	1459.6	1487.9	1526.4
20°	1261.7	1276.3	1313.1	1372.2	1441.6	1482.7	1491.3	1529.9	1528.1	1540.1	1573.5
22.5°	1345.7	1356.0	1396.2	1466.5	1544.4	1589.8	1609.5	1625.8	1604.4	1594.1	1615.5
25°	1433.1	1445.0	1488.7	1565.8	1653.2	1705.4	1721.7	1734.6	1700.3	1661.8	1664.3
27.5°	1546.1	1554.7	1597.5	1679.8	1767.1	1826.2	1840.8	1863.1	1817.7	1756.0	1738.9
30°	1680.6	1689.2	1734.6	1821.1	1907.6	1958.1	1980.4	2007.8	1958.1	1881.0	1861.3
32.5°	1838.2	1846.8	1905.0	1994.1	2065.2	2120.0	2141.4	2170.6	2131.2	2044.7	2022.4
35°	2026.7	2031.8	2100.3	2197.1	2272.5	2325.6	2340.2	2374.4	2330.8	2244.2	2232.2
37.5°	2245.1	2251.1	2325.6	2437.8	2514.9	2574.0	2597.1	2606.6	2553.5	2456.7	2447.2
40°	2484.9	2504.6	2577.4	2698.2	2784.7	2859.3	2879.8	2848.1	2773.6	2641.7	2624.6
42.5°	2735.1	2752.2	2833.6	2964.6	3064.8	3141.1	3141.9	3073.4	2946.6	2764.2	2738.5
45°	2943.2	2950.1	3055.4	3187.3	3310.7	3364.6	3369.8	3245.6	3054.6	2835.3	2780.5
47.5°	3086.3	3097.4	3189.0	3315.8	3452.0	3500.8	3490.6	3335.5	3106.0	2881.5	2790.7
50°	3088.0	3106.8	3206.2	3328.7	3460.6	3519.7	3505.1	3361.2	3135.1	2883.2	2765.9
52.5°	2814.7	2845.6	3007.5	3184.8	3386.9	3488.0	3491.4	3394.6	3123.9	2855.8	2743.6
55°	2123.5	2156.9	2360.7	2663.1	3053.7	3335.5	3384.3	3355.2	3111.1	2867.8	2783.0
57.5°	1123.8	1098.1	1211.2	1511.0	2001.8	2500.4	2643.4	2876.4	2968.0	2882.4	2855.8
60°	245.0	261.3	347.8	468.5	781.2	1176.1	1315.7	1714.9	2189.4	2400.1	2552.6
62.5°	105.4	103.6	107.9	122.5	179.0	298.1	364.0	594.5	938.0	1288.3	1525.6
65°	86.5	87.4	90.8	90.8	84.8	85.7	89.9	136.2	219.3	307.5	412.9
67.5°	65.1	66.0	72.0	73.7	69.4	61.7	60.8	51.4	54.0	67.7	70.2
70°	41.1	41.1	44.5	46.3	46.3	42.8	42.0	36.8	36.0	41.1	46.3
72.5°	22.3	22.3	24.0	24.8	24.0	23.1	23.1	22.3	21.4	24.8	31.7
75°	9.4	9.4	10.3	10.3	9.4	9.4	9.4	9.4	9.4	11.1	17.1
77.5°	1.7	2.6	3.4	2.6	1.7	1.7	1.7	2.6	2.6	3.4	5.1
80°	0.9	0.9	1.7	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
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°	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6	1101.6
2.5°	1120.4	1111.0	1114.4	1116.1	1113.6	1111.8	1102.4	1099.8	1095.6	1088.7	1087.0
5°	1158.1	1150.4	1149.5	1144.4	1132.4	1117.8	1099.8	1092.1	1083.6	1075.0	1073.3
7.5°	1221.5	1212.1	1206.1	1188.9	1161.5	1138.4	1108.4	1092.1	1081.0	1069.9	1067.3
10°	1302.9	1291.7	1274.6	1242.9	1206.1	1172.7	1137.5	1116.1	1099.0	1083.6	1082.7
12.5°	1389.4	1377.4	1346.5	1306.3	1261.7	1230.9	1186.4	1156.4	1130.7	1107.6	1105.0
15°	1480.2	1465.6	1423.6	1375.7	1334.6	1302.9	1254.0	1206.1	1166.7	1133.3	1129.8
17.5°	1549.6	1531.6	1481.9	1445.9	1412.5	1379.9	1325.1	1261.7	1209.5	1169.2	1159.8
20°	1593.2	1576.1	1529.0	1509.3	1493.9	1470.7	1405.6	1339.7	1281.4	1231.8	1223.2
22.5°	1635.2	1614.7	1573.5	1573.5	1585.5	1576.1	1505.9	1430.5	1362.0	1304.6	1291.7
25°	1682.3	1666.0	1636.9	1660.9	1690.9	1690.0	1618.1	1523.9	1445.0	1380.8	1368.0
27.5°	1750.8	1734.6	1724.3	1769.7	1807.4	1804.8	1726.0	1624.1	1541.0	1477.6	1465.6
30°	1871.6	1856.2	1845.1	1899.9	1947.9	1929.9	1843.4	1744.9	1660.9	1589.0	1580.4
32.5°	2032.7	2016.4	2001.8	2056.6	2099.5	2076.3	1994.1	1901.6	1804.8	1734.6	1717.4
35°	2244.2	2210.0	2195.4	2260.5	2278.5	2252.8	2174.0	2092.6	1989.8	1909.3	1898.2
37.5°	2462.7	2422.4	2412.1	2468.7	2497.8	2488.4	2395.9	2311.1	2199.7	2110.6	2097.8
40°	2649.4	2612.6	2594.6	2682.8	2748.8	2754.8	2671.7	2568.0	2437.0	2344.5	2321.3
42.5°	2759.0	2727.3	2723.1	2860.1	2968.0	3045.1	2945.8	2838.7	2700.8	2596.3	2577.4
45°	2783.9	2763.3	2799.3	2979.2	3147.1	3287.6	3202.8	3089.7	2940.6	2830.1	2812.2
47.5°	2781.3	2774.5	2838.7	3040.9	3253.3	3426.3	3384.3	3256.7	3112.8	2997.2	2980.0
50°	2744.5	2745.3	2852.4	3071.7	3296.1	3464.0	3422.0	3303.8	3175.3	3061.4	3047.7
52.5°	2729.9	2724.8	2826.7	3062.3	3339.8	3446.9	3352.7	3219.9	3076.8	2936.4	2915.8
55°	2781.3	2768.5	2830.1	3054.6	3344.9	3437.5	3189.0	2901.2	2608.3	2442.1	2428.4
57.5°	2858.4	2844.7	2873.8	2998.0	3076.8	2858.4	2347.0	1882.8	1581.2	1453.6	1397.9
60°	2552.6	2543.2	2520.9	2371.0	2033.5	1534.1	1045.0	666.4	478.8	387.2	387.2
62.5°	1583.8	1571.0	1450.2	1077.6	782.9	453.1	249.3	155.9	118.2	110.5	109.6
65°	444.6	442.0	365.8	258.7	164.5	101.9	89.9	91.7	89.9	87.4	86.5
67.5°	66.8	73.7	73.7	60.0	57.4	64.2	75.4	80.5	76.2	72.0	70.2
70°	42.8	46.3	44.5	38.5	41.1	48.0	54.0	54.8	52.3	48.0	47.1
72.5°	30.0	33.4	27.4	24.8	25.7	28.3	30.8	30.8	30.0	28.3	26.6
75°	18.0	18.0	12.8	12.0	12.0	12.8	12.8	14.6	14.6	13.7	12.8
77.5°	6.0	6.9	4.3	3.4	3.4	3.4	4.3	5.1	5.1	4.3	3.4
80°	0.9	1.7	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	0.9
82.5°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
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)