

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: P629883

Luminaire Tested: GWS-SA1C-750-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P629883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1C-750-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

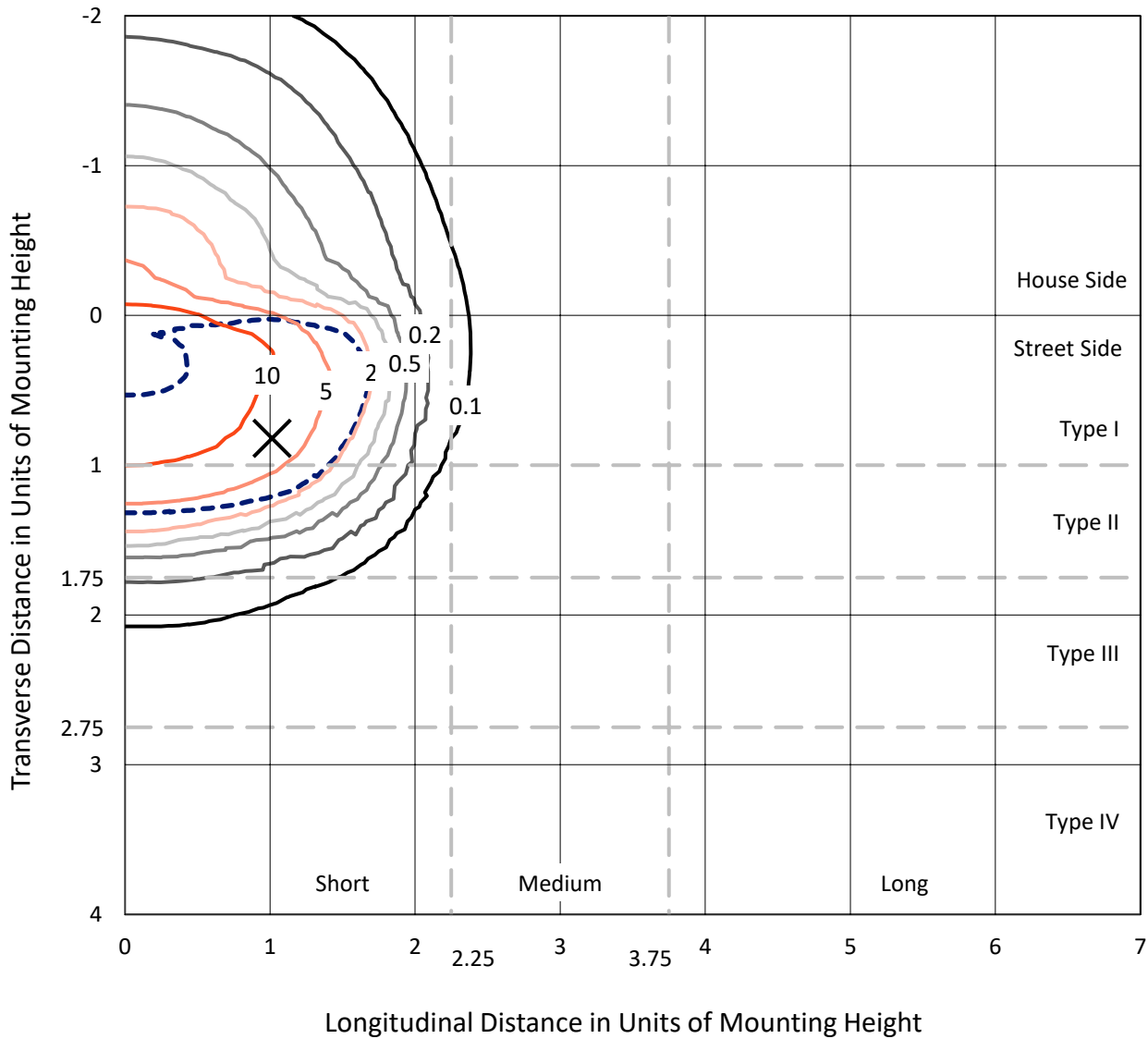
Lumens per Lamp: N/A  
Luminaire Lumens: 4460.4 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 34.1  
Input Voltage (V): 120  
Input Current (Ain): 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

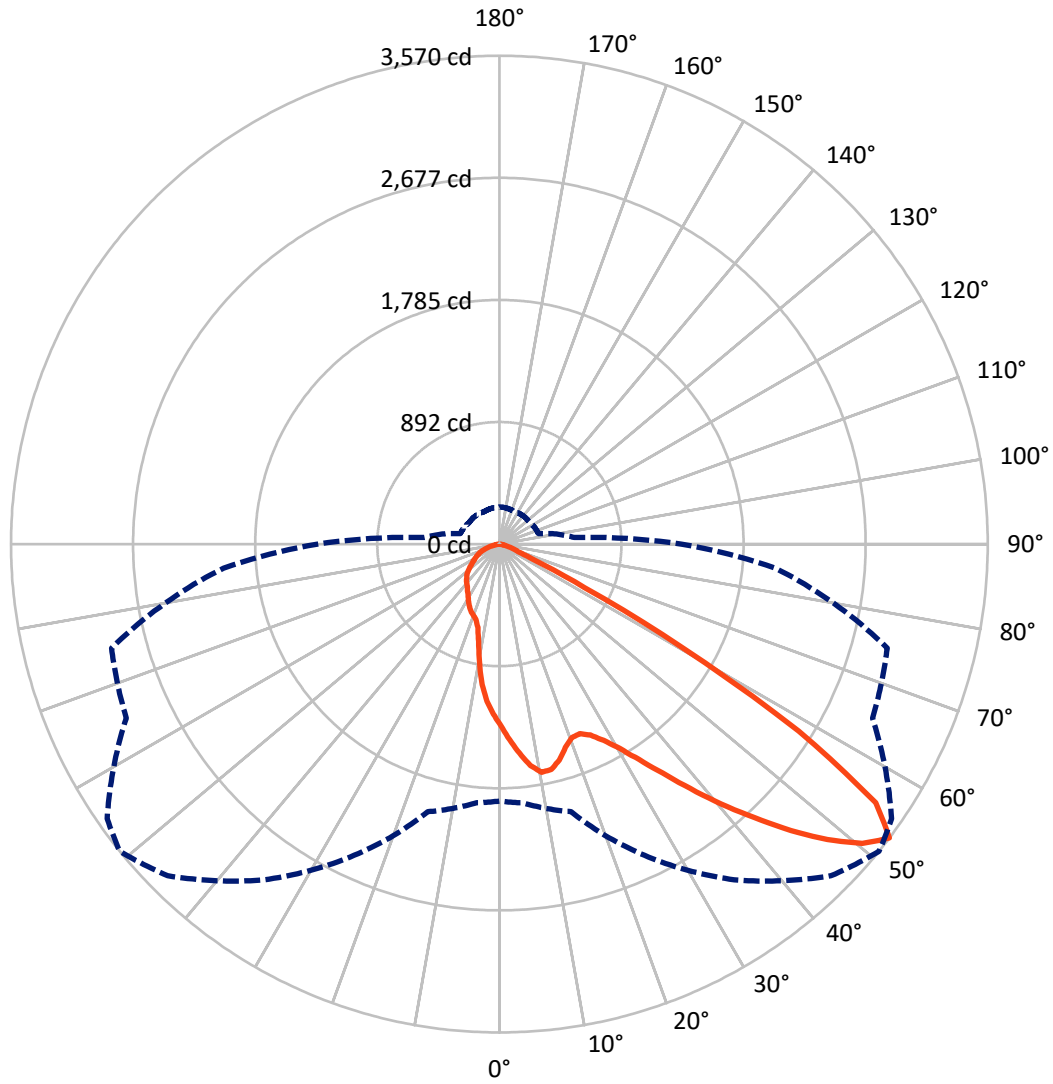
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	869.1	0.0	869.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	3591.3	0.0	3591.3
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4460.4	0.0	4460.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.9	2.8
10°-20°	322.0	7.2
20°-30°	523.6	11.7
30°-40°	829.7	18.6
40°-50°	1251.4	28.1
50°-60°	1082.6	24.3
60°-70°	245.4	5.5
70°-80°	72.4	1.6
80°-90°	9.3	0.2
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°	4460.4	100.0
0°-180°	4460.4	100.0

**Coefficient of Utilization**



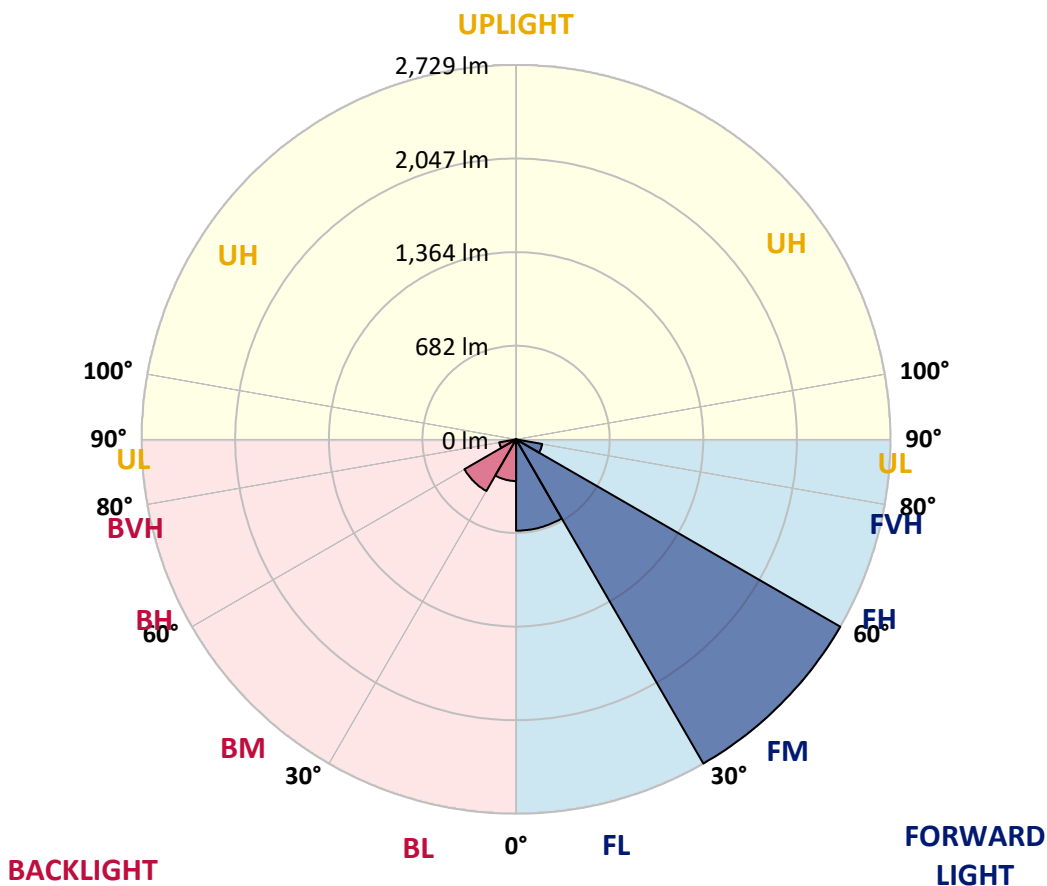
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	665.7	14.9			
FM (30°-60°)	2728.9	61.2			
FH (60°-80°)	193.2	4.3			G0/660
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	303.8	6.8	B1/500		
BM (30°-60°)	434.8	9.7	B1/1000		
BH (60°-80°)	124.7	2.8	B1/500		G1/500
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1
2.5°	1480.0	1488.5	1475.4	1470.5	1462.4	1448.3	1432.1	1427.5	1392.6	1369.7	1343.9
5°	1628.7	1633.3	1622.7	1612.2	1592.1	1567.1	1535.7	1529.0	1465.5	1413.0	1358.4
7.5°	1661.9	1660.1	1669.3	1675.3	1672.8	1662.9	1635.1	1622.0	1546.3	1463.1	1382.4
10°	1530.8	1520.9	1554.7	1594.9	1643.2	1698.9	1695.7	1694.6	1628.7	1530.4	1413.0
12.5°	1357.0	1352.1	1379.5	1429.9	1521.2	1644.6	1690.8	1726.7	1703.1	1594.5	1447.2
15°	1257.6	1255.8	1274.5	1310.8	1383.4	1539.2	1637.9	1709.1	1766.9	1663.3	1483.5
17.5°	1239.6	1240.7	1247.0	1267.8	1320.0	1448.3	1562.5	1661.9	1816.6	1738.7	1529.0
20°	1292.1	1299.2	1288.3	1291.4	1319.6	1415.5	1511.0	1614.3	1848.3	1814.5	1578.0
22.5°	1408.8	1406.3	1382.4	1368.3	1368.6	1435.6	1505.4	1592.1	1869.1	1888.1	1622.4
25°	1541.0	1538.2	1509.6	1478.2	1458.5	1490.2	1545.9	1615.7	1887.8	1955.5	1658.0
27.5°	1697.1	1688.3	1656.6	1616.4	1572.7	1586.4	1624.2	1679.5	1916.7	2021.7	1681.6
30°	1848.3	1858.5	1813.1	1765.5	1719.3	1710.9	1732.7	1782.8	1975.6	2099.3	1709.8
32.5°	2048.9	2045.3	1994.9	1932.9	1867.0	1860.7	1877.9	1923.7	2081.3	2206.4	1752.8
35°	2291.7	2292.4	2220.9	2137.0	2043.2	2026.3	2055.2	2099.6	2238.9	2351.6	1820.8
37.5°	2544.1	2543.0	2480.6	2385.5	2257.5	2233.6	2266.7	2299.8	2435.9	2549.4	1926.6
40°	2721.0	2728.1	2698.8	2648.8	2527.5	2469.0	2498.3	2521.2	2650.2	2782.0	2065.8
42.5°	2821.5	2832.0	2838.4	2868.4	2804.6	2742.2	2731.6	2743.6	2841.6	2998.1	2196.6
45°	2843.0	2857.1	2903.2	3014.3	3038.9	3021.3	2986.8	2957.9	2984.3	3151.4	2282.2
47.5°	2748.2	2772.8	2871.5	3065.7	3209.9	3265.2	3226.8	3182.7	3066.8	3190.9	2273.4
50°	2372.4	2401.3	2623.7	2960.7	3234.2	3435.8	3439.3	3374.1	3056.9	3077.0	2162.7
52.5°	1878.3	1898.0	2025.3	2509.9	2995.6	3428.8	3569.8	3500.0	3009.3	2934.6	2024.2
55°	1122.6	1154.3	1273.1	1655.9	2333.7	3038.9	3339.2	3373.1	2986.1	2815.1	1929.7
57.5°	378.9	394.4	507.9	731.4	1375.3	2225.1	2580.0	2717.5	2710.8	2632.6	1745.4
60°	180.5	184.0	206.9	277.4	550.5	1162.8	1527.2	1685.8	1830.3	1844.8	1085.9
62.5°	137.5	139.6	151.2	166.4	221.3	489.9	700.0	821.2	877.3	752.9	395.5
65°	114.9	116.7	125.5	135.0	150.5	212.2	268.6	309.8	279.2	217.5	188.6
67.5°	95.9	97.3	104.0	114.2	124.8	142.0	149.1	153.3	160.7	180.5	173.4
70°	75.1	76.5	83.5	92.3	102.6	106.8	113.5	117.7	132.5	157.9	157.2
72.5°	57.8	59.6	63.4	69.1	77.5	81.8	89.2	94.1	102.6	123.0	131.5
75°	42.3	43.4	46.9	48.6	49.7	48.6	56.0	61.7	73.0	80.7	82.8
77.5°	17.3	19.4	18.7	18.7	22.2	26.8	30.7	34.2	41.9	46.5	46.9
80°	7.0	7.8	9.2	10.2	12.3	15.9	18.3	19.7	23.3	26.1	28.2
82.5°	4.2	4.6	5.3	5.6	7.0	9.2	10.6	11.6	14.5	17.3	18.3
85°	2.1	2.1	2.5	2.8	3.5	4.2	4.9	5.6	7.4	9.2	10.2
87.5°	0.4	0.4	0.4	0.7	1.1	1.4	1.8	2.1	2.5	2.8	3.5
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°	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1	1328.1
2.5°	1328.8	1309.8	1287.6	1269.9	1249.5	1234.3	1212.8	1199.4	1186.7	1176.2	1168.4
5°	1330.2	1298.1	1252.0	1211.1	1168.8	1128.6	1087.4	1053.9	1023.9	998.9	996.8
7.5°	1338.3	1292.1	1219.9	1148.3	1065.9	986.2	906.5	841.7	792.3	766.6	761.3
10°	1352.1	1291.4	1187.1	1072.9	932.3	804.0	709.5	660.2	631.6	621.4	617.9
12.5°	1366.5	1289.7	1145.2	966.5	771.2	658.8	606.9	601.0	606.2	606.9	606.6
15°	1384.1	1288.6	1092.3	841.7	653.5	591.4	595.0	607.6	620.0	622.8	622.8
17.5°	1405.6	1286.1	1020.4	719.7	579.8	578.4	597.1	614.0	625.6	627.7	627.7
20°	1428.2	1279.8	931.9	620.3	549.8	570.3	590.4	603.4	611.5	614.3	614.7
22.5°	1443.7	1262.9	830.1	546.7	531.2	554.8	569.2	582.6	582.6	575.6	573.5
25°	1446.9	1226.6	719.7	496.3	509.0	530.8	545.6	537.9	523.4	517.8	517.4
27.5°	1435.2	1173.7	610.8	460.3	482.2	504.0	501.6	490.3	483.9	478.3	480.4
30°	1421.1	1110.3	516.4	430.7	451.2	472.7	464.2	460.3	455.7	449.4	450.8
32.5°	1411.6	1039.4	443.8	407.8	430.4	433.9	439.9	439.5	435.3	423.3	422.6
35°	1414.4	967.9	395.1	389.1	413.1	411.7	423.0	420.8	391.6	375.0	374.0
37.5°	1437.0	899.1	366.6	374.3	385.6	394.4	404.3	378.9	368.7	358.1	358.8
40°	1480.0	835.3	351.1	366.2	369.0	382.1	359.2	358.8	354.2	344.7	344.4
42.5°	1528.6	781.4	340.5	362.3	358.5	360.9	336.6	339.4	339.1	333.1	331.3
45°	1558.2	731.7	332.0	347.9	348.9	324.3	316.9	320.0	321.8	318.6	318.3
47.5°	1527.6	674.6	323.2	325.7	334.8	307.7	298.5	298.9	302.1	302.4	301.0
50°	1441.6	610.8	312.6	306.6	300.7	290.4	282.0	280.2	283.4	286.6	287.6
52.5°	1330.6	549.8	295.0	285.8	271.7	271.7	267.9	262.2	266.5	270.7	272.1
55°	1249.1	504.7	270.0	259.8	244.3	249.5	248.8	243.9	249.5	252.7	253.8
57.5°	1082.4	405.7	237.6	234.4	221.3	227.7	229.1	222.8	219.9	220.6	221.7
60°	642.5	261.9	214.3	213.9	202.3	209.7	213.9	207.6	199.1	200.2	201.6
62.5°	288.3	200.2	185.0	183.6	183.3	192.8	197.4	191.4	179.4	180.5	181.9
65°	181.5	173.1	160.7	160.7	166.4	174.5	178.0	173.1	159.3	157.6	159.0
67.5°	168.5	161.1	148.4	145.9	148.7	155.4	155.8	146.3	138.2	136.8	136.8
70°	151.2	145.6	133.2	128.3	127.2	126.9	125.8	123.4	118.1	116.7	117.4
72.5°	125.1	121.2	113.5	108.2	105.4	105.0	100.8	98.7	94.1	93.4	93.1
75°	82.8	83.9	83.9	83.2	80.7	79.7	75.1	73.0	67.7	65.6	65.2
77.5°	49.0	50.0	51.5	51.8	51.5	51.5	47.2	44.8	39.5	36.7	36.0
80°	30.0	30.7	31.4	32.4	31.0	30.0	26.1	23.6	21.1	19.4	19.0
82.5°	19.4	20.1	20.4	21.1	20.4	19.0	15.9	14.5	12.7	11.3	10.9
85°	10.9	11.3	12.0	12.0	10.9	9.9	8.1	7.0	6.0	5.3	5.3
87.5°	3.9	3.9	3.9	4.2	3.5	3.2	2.1	1.4	1.1	1.1	1.1
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)