

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: P633736

Luminaire Tested: GWS-SA2F-735-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633736
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-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: 10370.1 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

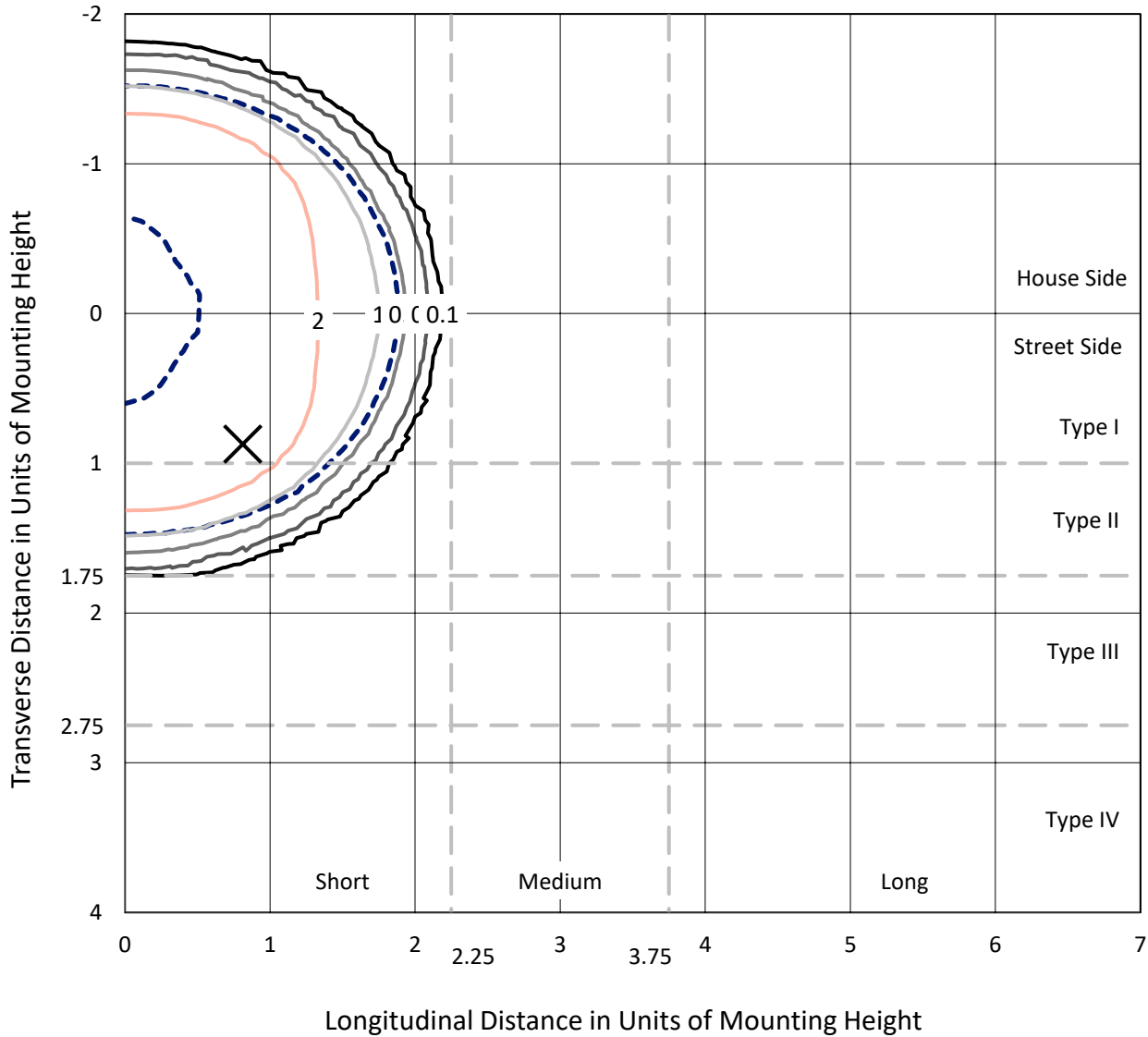
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

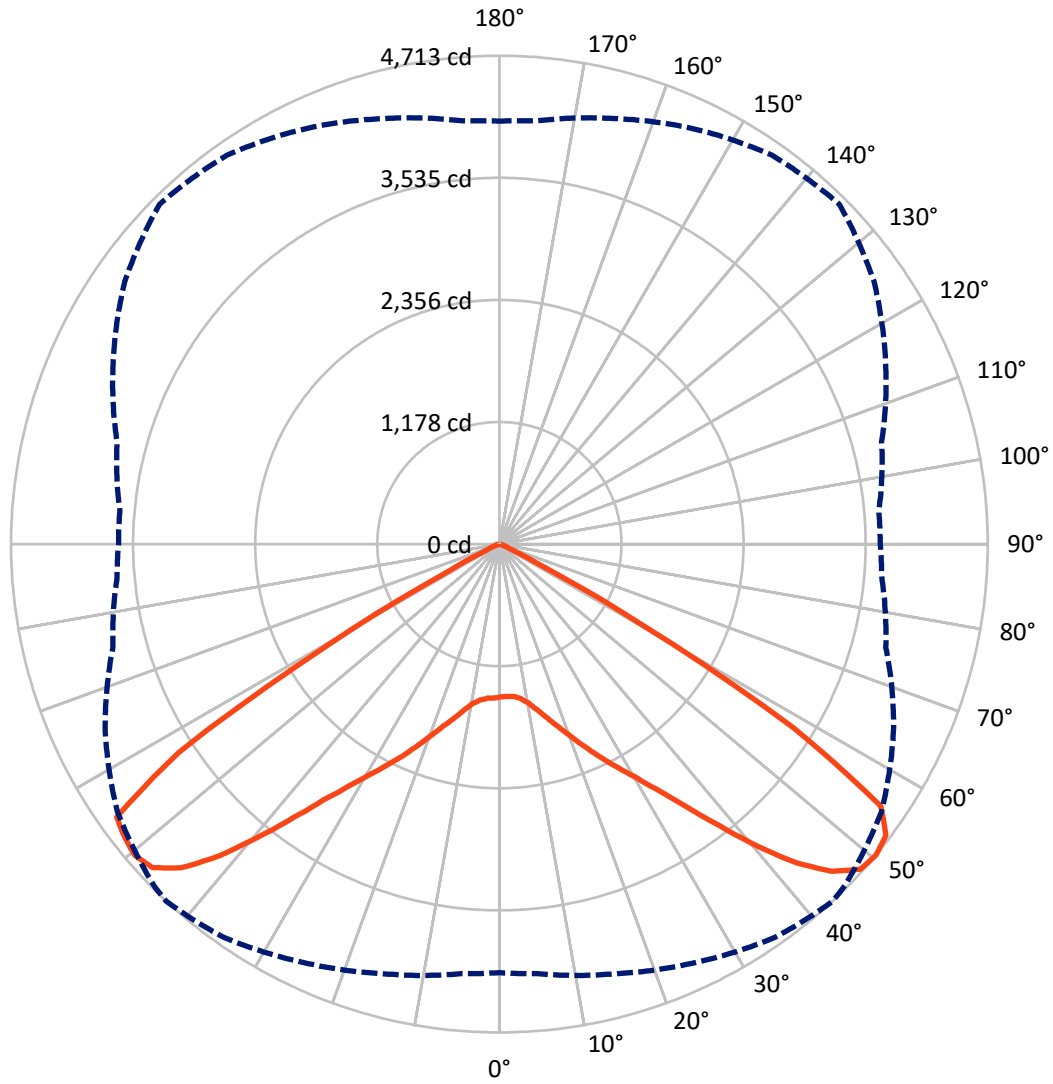
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	5184.9	0.0	5184.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5185.2	0.0	5185.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10370.1	0.0	10370.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.4
10°-20°	499.9	4.8
20°-30°	1011.3	9.8
30°-40°	1876.3	18.1
40°-50°	3114.5	30.0
50°-60°	3178.5	30.7
60°-70°	521.2	5.0
70°-80°	22.8	0.2
80°-90°	0.3	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°	10370.1	100.0
0°-180°	10370.1	100.0

Coefficient of Utilization



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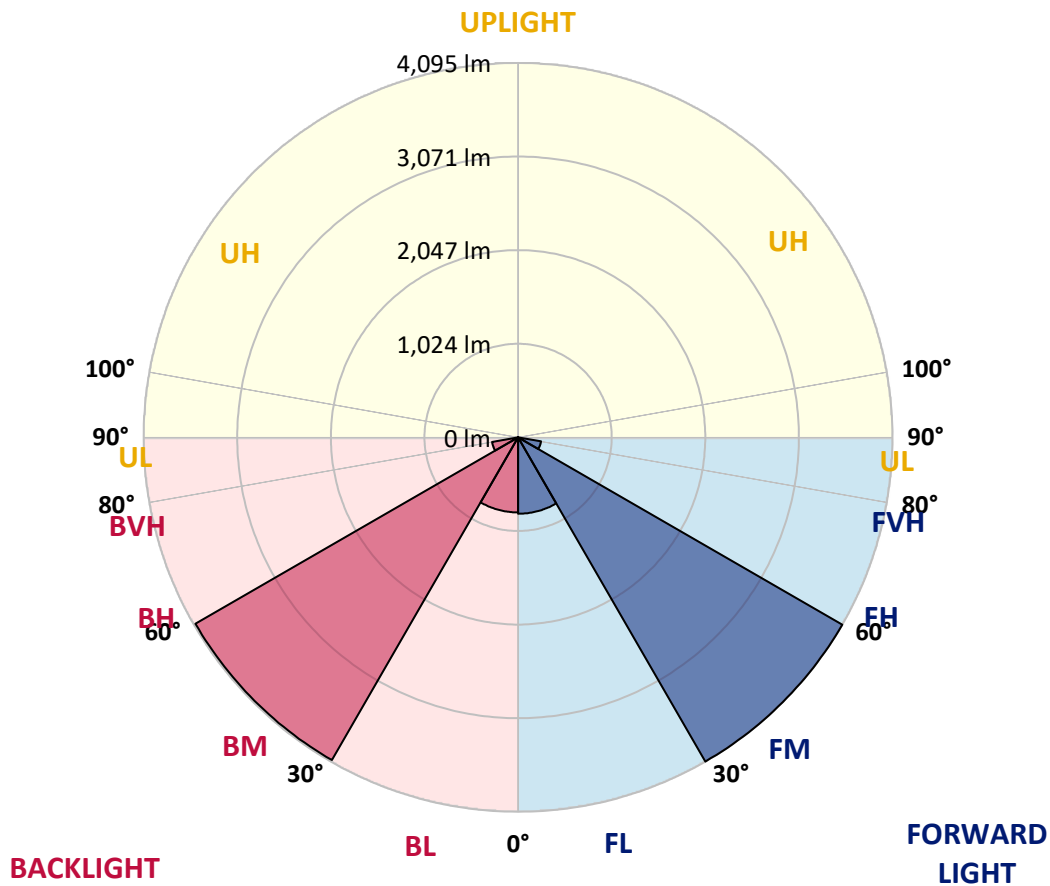
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.5	8.1			
FM (30°-60°)	4094.6	39.5			
FH (60°-80°)	255.0	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	820.9	7.9	B2/1000		
BM (30°-60°)	4074.7	39.3	B3/5000		
BH (60°-80°)	289.1	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°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1447.5	1450.9	1455.5	1460.1	1465.8	1471.5	1475.0	1485.3	1483.0	1492.2	1492.2
5°	1431.4	1434.8	1440.6	1450.9	1463.5	1476.1	1485.3	1506.0	1517.4	1535.8	1542.7
7.5°	1439.4	1444.0	1450.9	1467.0	1486.5	1506.0	1516.3	1549.5	1572.5	1606.9	1626.4
10°	1465.8	1470.4	1481.9	1509.4	1534.6	1562.2	1574.8	1617.2	1653.9	1700.9	1728.5
12.5°	1495.6	1501.4	1524.3	1565.6	1609.2	1645.9	1663.1	1710.1	1748.0	1800.7	1844.3
15°	1526.6	1535.8	1571.3	1632.1	1694.1	1743.4	1761.7	1812.2	1850.0	1906.2	1955.6
17.5°	1598.9	1609.2	1649.3	1714.7	1799.6	1856.9	1873.0	1925.7	1954.4	1992.3	2043.9
20°	1689.5	1709.0	1758.3	1837.4	1930.3	1985.4	1996.8	2048.5	2046.2	2062.2	2107.0
22.5°	1801.9	1815.6	1869.5	1963.6	2068.0	2128.7	2155.1	2176.9	2148.2	2134.5	2163.2
25°	1918.9	1934.9	1993.4	2096.6	2213.6	2283.6	2305.4	2322.6	2276.7	2225.1	2228.5
27.5°	2070.3	2081.7	2139.1	2249.2	2366.2	2445.3	2464.8	2494.6	2433.8	2351.3	2328.3
30°	2250.3	2261.8	2322.6	2438.4	2554.3	2621.9	2651.8	2688.5	2621.9	2518.7	2492.3
32.5°	2461.4	2472.8	2550.8	2670.1	2765.3	2838.7	2867.4	2906.4	2853.6	2737.8	2708.0
35°	2713.7	2720.6	2812.3	2941.9	3042.9	3114.0	3133.5	3179.4	3120.9	3005.0	2989.0
37.5°	3006.2	3014.2	3114.0	3264.2	3367.5	3446.6	3477.6	3490.2	3419.1	3289.5	3276.8
40°	3327.3	3353.7	3451.2	3612.9	3728.7	3828.5	3856.1	3813.6	3713.8	3537.2	3514.3
42.5°	3662.2	3685.2	3794.1	3969.6	4103.8	4205.9	4207.0	4115.3	3945.5	3701.2	3666.8
45°	3940.9	3950.1	4091.2	4267.8	4433.0	4505.2	4512.1	4345.8	4090.0	3796.4	3723.0
47.5°	4132.5	4147.4	4270.1	4439.9	4622.2	4687.6	4673.8	4466.2	4158.9	3858.4	3736.8
50°	4134.8	4160.0	4293.0	4457.1	4633.7	4712.8	4693.3	4500.6	4197.9	3860.6	3703.5
52.5°	3768.9	3810.2	4027.0	4264.4	4535.1	4670.4	4675.0	4545.4	4182.9	3823.9	3673.7
55°	2843.3	2888.0	3161.0	3565.9	4088.9	4466.2	4531.6	4492.6	4165.7	3840.0	3726.5
57.5°	1504.8	1470.4	1621.8	2023.2	2680.4	3348.0	3539.5	3851.5	3974.2	3859.5	3823.9
60°	328.0	349.8	465.7	627.4	1046.0	1574.8	1761.7	2296.2	2931.6	3213.8	3417.9
62.5°	141.1	138.8	144.5	164.0	239.7	399.1	487.5	796.0	1255.9	1725.0	2042.7
65°	115.8	117.0	121.6	121.6	113.5	114.7	120.4	182.4	293.6	411.8	552.8
67.5°	87.2	88.3	96.3	98.6	92.9	82.6	81.4	68.8	72.3	90.6	94.1
70°	55.1	55.1	59.6	61.9	61.9	57.3	56.2	49.3	48.2	55.1	61.9
72.5°	29.8	29.8	32.1	33.3	32.1	31.0	31.0	29.8	28.7	33.3	42.4
75°	12.6	12.6	13.8	13.8	12.6	12.6	12.6	12.6	12.6	14.9	22.9
77.5°	2.3	3.4	4.6	3.4	2.3	2.3	2.3	3.4	3.4	4.6	6.9
80°	1.1	1.1	2.3	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1500.2	1487.6	1492.2	1494.5	1491.0	1488.7	1476.1	1472.7	1467.0	1457.8	1455.5
5°	1550.7	1540.4	1539.2	1532.3	1516.3	1496.8	1472.7	1462.4	1450.9	1439.4	1437.1
7.5°	1635.6	1622.9	1614.9	1592.0	1555.3	1524.3	1484.2	1462.4	1447.5	1432.5	1429.1
10°	1744.5	1729.6	1706.7	1664.2	1614.9	1570.2	1523.2	1494.5	1471.5	1450.9	1449.7
12.5°	1860.4	1844.3	1803.0	1749.1	1689.5	1648.2	1588.5	1548.4	1514.0	1483.0	1479.6
15°	1981.9	1962.4	1906.2	1842.0	1787.0	1744.5	1679.1	1614.9	1562.2	1517.4	1512.8
17.5°	2074.8	2050.8	1984.2	1936.1	1891.3	1847.7	1774.3	1689.5	1619.5	1565.6	1553.0
20°	2133.3	2110.4	2047.3	2020.9	2000.3	1969.3	1882.2	1793.8	1715.8	1649.3	1637.9
22.5°	2189.5	2162.0	2107.0	2107.0	2123.0	2110.4	2016.3	1915.4	1823.7	1746.8	1729.6
25°	2252.6	2230.8	2191.8	2223.9	2264.1	2262.9	2166.6	2040.4	1934.9	1848.9	1831.7
27.5°	2344.4	2322.6	2308.8	2369.6	2420.1	2416.6	2311.1	2174.6	2063.4	1978.5	1962.4
30°	2506.1	2485.4	2470.5	2543.9	2608.2	2584.1	2468.2	2336.3	2223.9	2127.6	2116.1
32.5°	2721.7	2699.9	2680.4	2753.8	2811.2	2780.2	2670.1	2546.2	2416.6	2322.6	2299.6
35°	3005.0	2959.1	2939.6	3026.8	3050.9	3016.5	2911.0	2802.0	2664.4	2556.6	2541.6
37.5°	3297.5	3243.6	3229.8	3305.5	3344.5	3331.9	3208.0	3094.5	2945.4	2826.1	2808.9
40°	3547.5	3498.2	3474.1	3592.3	3680.6	3688.6	3577.3	3438.6	3263.1	3139.2	3108.2
42.5°	3694.3	3651.9	3646.2	3829.7	3974.2	4077.4	3944.4	3801.0	3616.3	3476.4	3451.2
45°	3727.6	3700.1	3748.2	3989.1	4213.9	4402.0	4288.5	4137.1	3937.5	3789.5	3765.4
47.5°	3724.2	3715.0	3801.0	4071.7	4356.1	4587.8	4531.6	4360.7	4168.0	4013.2	3990.3
50°	3674.8	3676.0	3819.4	4113.0	4413.5	4638.3	4582.1	4423.8	4251.8	4099.2	4080.9
52.5°	3655.3	3648.5	3784.9	4100.4	4472.0	4615.3	4489.2	4311.4	4119.9	3931.8	3904.2
55°	3724.2	3707.0	3789.5	4090.0	4478.9	4602.7	4270.1	3884.7	3492.5	3270.0	3251.6
57.5°	3827.4	3809.0	3848.0	4014.3	4119.9	3827.4	3142.7	2521.0	2117.3	1946.4	1871.8
60°	3417.9	3405.3	3375.5	3174.8	2722.9	2054.2	1399.3	892.3	641.1	518.4	518.4
62.5°	2120.7	2103.5	1941.8	1442.9	1048.3	606.7	333.8	208.7	158.3	148.0	146.8
65°	595.3	591.8	489.7	346.4	220.2	136.5	120.4	122.7	120.4	117.0	115.8
67.5°	89.5	98.6	98.6	80.3	76.8	86.0	100.9	107.8	102.1	96.3	94.1
70°	57.3	61.9	59.6	51.6	55.1	64.2	72.3	73.4	70.0	64.2	63.1
72.5°	40.1	44.7	36.7	33.3	34.4	37.8	41.3	41.3	40.1	37.8	35.6
75°	24.1	24.1	17.2	16.1	16.1	17.2	17.2	19.5	19.5	18.4	17.2
77.5°	8.0	9.2	5.7	4.6	4.6	4.6	5.7	6.9	6.9	5.7	4.6
80°	1.1	2.3	1.1	1.1	1.1	1.1	1.1	1.1	2.3	2.3	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
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)