

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: P633846

Luminaire Tested: GWS-SA2F-750-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633846
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10755.2 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

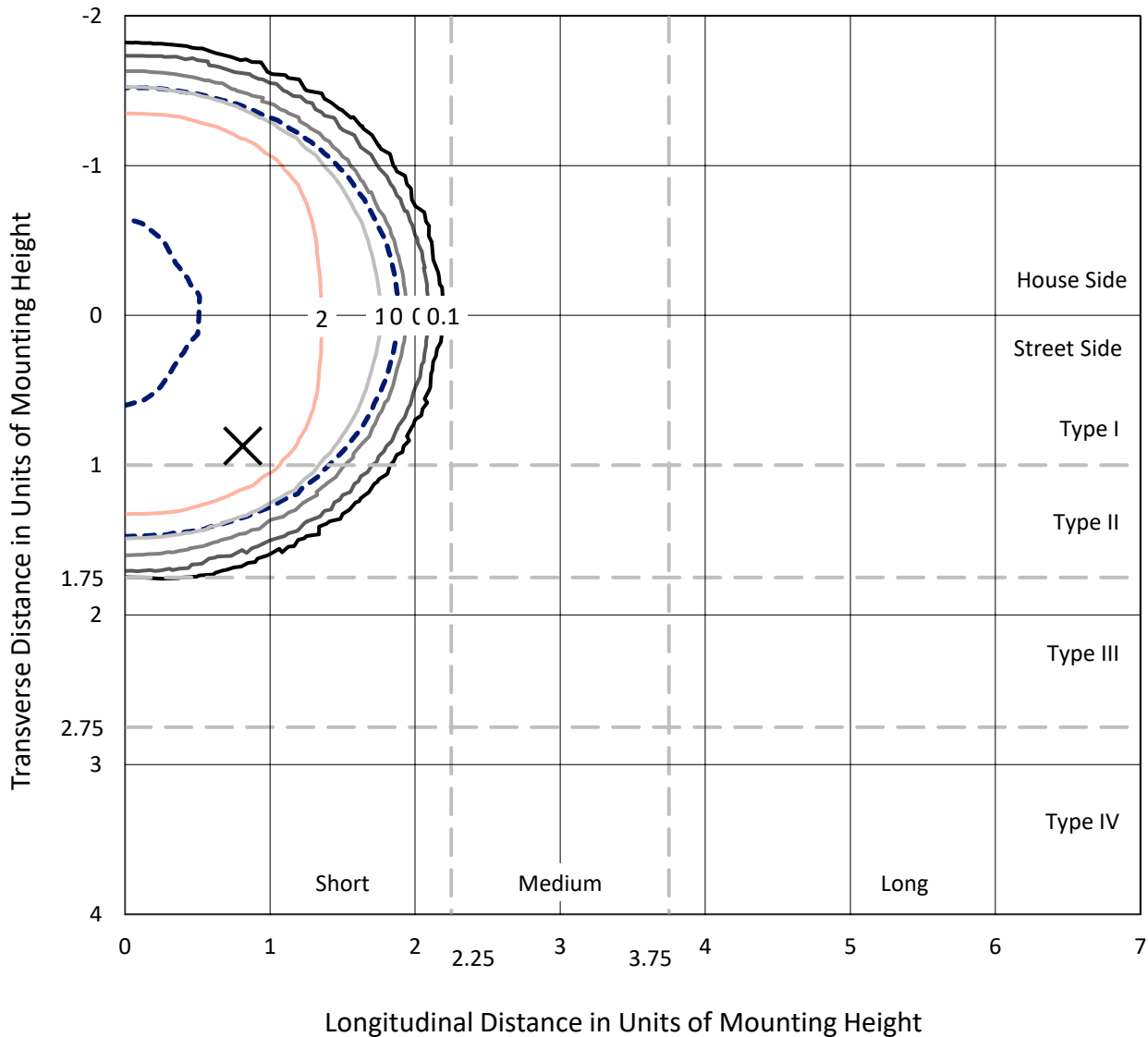
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

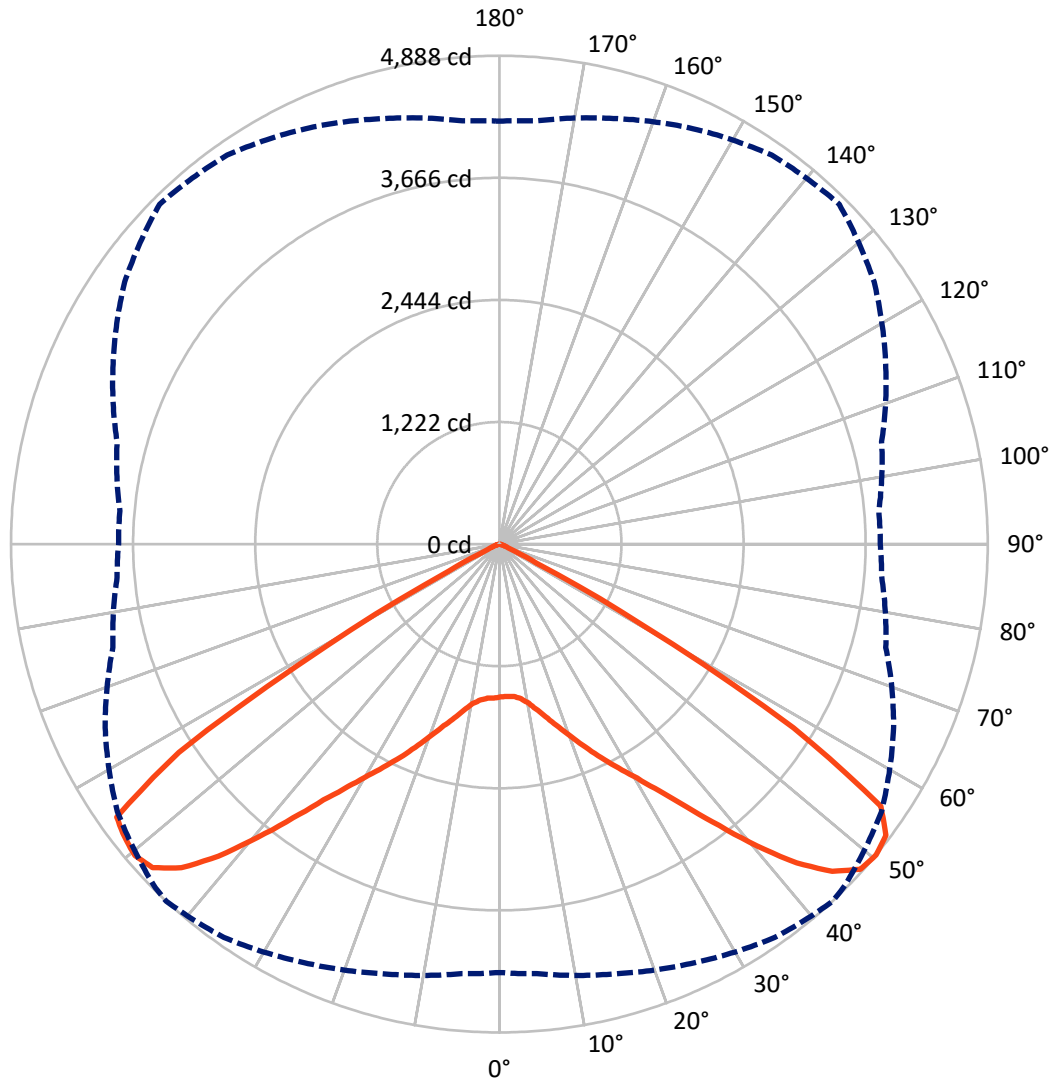
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 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	5377.5	0.0	5377.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5377.7	0.0	5377.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10755.2	0.0	10755.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.4
10°-20°	518.4	4.8
20°-30°	1048.8	9.8
30°-40°	1946.0	18.1
40°-50°	3230.2	30.0
50°-60°	3296.5	30.7
60°-70°	540.6	5.0
70°-80°	23.7	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°	10755.2	100.0
0°-180°	10755.2	100.0

Coefficient of Utilization



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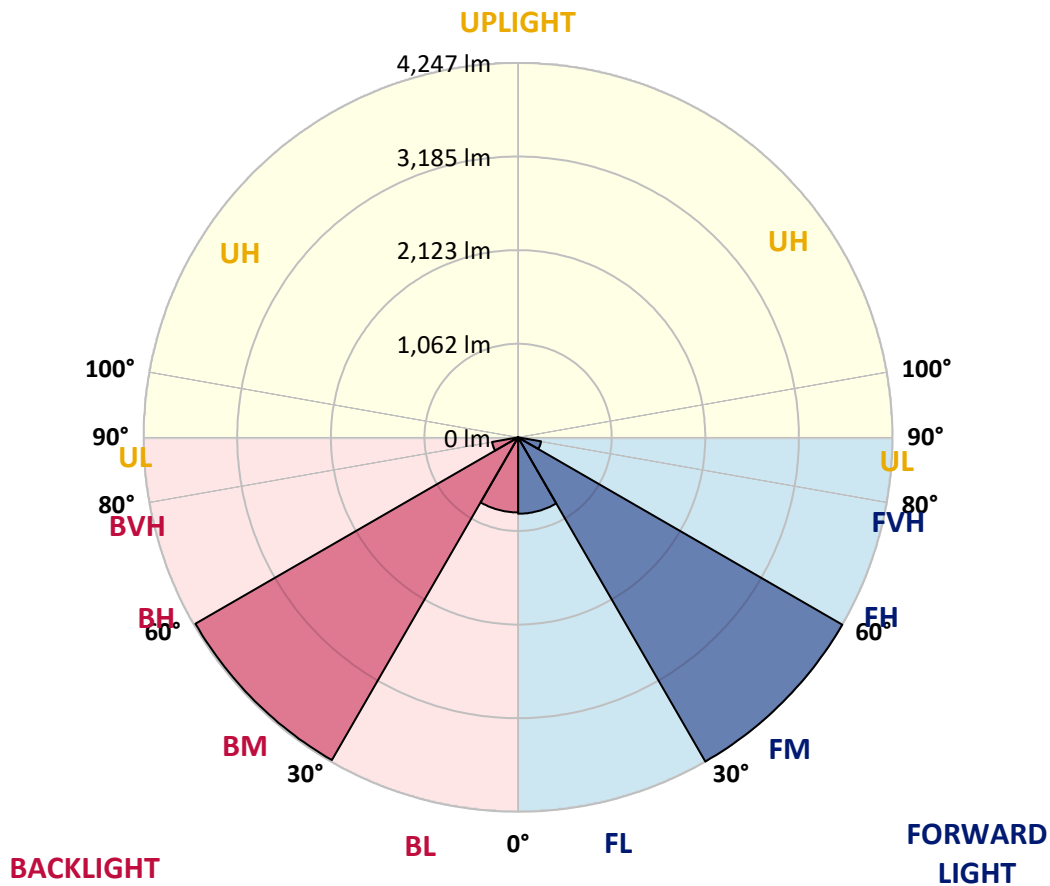
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.5	8.1			
FM (30°-60°)	4246.7	39.5			
FH (60°-80°)	264.5	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	851.4	7.9	B2/1000		
BM (30°-60°)	4226.0	39.3	B3/5000		
BH (60°-80°)	299.8	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°	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1501.2	1504.8	1509.5	1514.3	1520.2	1526.2	1529.8	1540.5	1538.1	1547.6	1547.6
5°	1484.6	1488.1	1494.1	1504.8	1517.9	1530.9	1540.5	1561.9	1573.8	1592.8	1599.9
7.5°	1492.9	1497.6	1504.8	1521.4	1541.7	1561.9	1572.6	1607.1	1630.9	1666.6	1686.8
10°	1520.2	1525.0	1536.9	1565.4	1591.6	1620.2	1633.2	1677.3	1715.3	1764.1	1792.6
12.5°	1551.2	1557.1	1580.9	1623.7	1668.9	1707.0	1724.8	1773.6	1812.9	1867.6	1912.8
15°	1583.3	1592.8	1629.7	1692.7	1757.0	1808.1	1827.1	1879.5	1918.7	1977.0	2028.2
17.5°	1658.2	1668.9	1710.6	1778.4	1866.4	1925.9	1942.5	1997.2	2027.0	2066.2	2119.8
20°	1752.2	1772.4	1823.6	1905.7	2002.0	2059.1	2071.0	2124.5	2122.2	2138.8	2185.2
22.5°	1868.8	1883.1	1939.0	2036.5	2144.8	2207.8	2235.2	2257.8	2228.0	2213.7	2243.5
25°	1990.1	2006.8	2067.4	2174.5	2295.8	2368.4	2391.0	2408.8	2361.3	2307.7	2311.3
27.5°	2147.1	2159.0	2218.5	2332.7	2454.0	2536.1	2556.3	2587.3	2524.2	2438.6	2414.8
30°	2333.9	2345.8	2408.8	2529.0	2649.1	2719.3	2750.2	2788.3	2719.3	2612.2	2584.9
32.5°	2552.8	2564.7	2645.6	2769.3	2868.0	2944.1	2973.9	3014.3	2959.6	2839.4	2808.5
35°	2814.5	2821.6	2916.8	3051.2	3155.9	3229.6	3249.8	3297.4	3236.8	3116.6	3100.0
37.5°	3117.8	3126.1	3229.6	3385.4	3492.5	3574.6	3606.7	3619.8	3546.0	3411.6	3398.5
40°	3450.9	3478.2	3579.3	3747.1	3867.2	3970.7	3999.3	3955.2	3851.8	3668.6	3644.8
42.5°	3798.2	3822.0	3935.0	4117.0	4256.2	4362.1	4363.3	4268.1	4092.0	3838.7	3803.0
45°	4087.3	4096.8	4243.1	4426.3	4597.6	4672.5	4679.7	4507.2	4241.9	3937.4	3861.3
47.5°	4285.9	4301.4	4428.7	4604.7	4793.9	4861.7	4847.4	4632.1	4313.3	4001.6	3875.5
50°	4288.3	4314.5	4452.5	4622.6	4805.8	4887.8	4867.6	4667.8	4353.7	4004.0	3841.0
52.5°	3908.9	3951.7	4176.5	4422.7	4703.5	4843.8	4848.6	4714.2	4338.3	3965.9	3810.1
55°	2948.9	2995.3	3278.4	3698.3	4240.7	4632.1	4699.9	4659.5	4320.4	3982.6	3864.8
57.5°	1560.7	1525.0	1682.0	2098.4	2780.0	3472.3	3670.9	3994.5	4121.8	4002.8	3965.9
60°	340.2	362.8	483.0	650.7	1084.9	1633.2	1827.1	2381.5	3040.5	3333.1	3544.8
62.5°	146.3	143.9	149.9	170.1	248.6	414.0	505.6	825.5	1302.6	1789.1	2118.6
65°	120.1	121.3	126.1	126.1	117.8	119.0	124.9	189.1	304.5	427.0	573.4
67.5°	90.4	91.6	99.9	102.3	96.4	85.6	84.5	71.4	74.9	94.0	97.5
70°	57.1	57.1	61.9	64.2	64.2	59.5	58.3	51.2	50.0	57.1	64.2
72.5°	30.9	30.9	33.3	34.5	33.3	32.1	32.1	30.9	29.7	34.5	44.0
75°	13.1	13.1	14.3	14.3	13.1	13.1	13.1	13.1	13.1	15.5	23.8
77.5°	2.4	3.6	4.8	3.6	2.4	2.4	2.4	3.6	3.6	4.8	7.1
80°	1.2	1.2	2.4	1.2	0.0	0.0	0.0	0.0	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
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°	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8	1529.8
2.5°	1555.9	1542.8	1547.6	1550.0	1546.4	1544.0	1530.9	1527.4	1521.4	1511.9	1509.5
5°	1608.3	1597.6	1596.4	1589.2	1572.6	1552.4	1527.4	1516.7	1504.8	1492.9	1490.5
7.5°	1696.3	1683.2	1674.9	1651.1	1613.0	1580.9	1539.3	1516.7	1501.2	1485.7	1482.2
10°	1809.3	1793.8	1770.0	1726.0	1674.9	1628.5	1579.7	1550.0	1526.2	1504.8	1503.6
12.5°	1929.4	1912.8	1870.0	1814.1	1752.2	1709.4	1647.5	1605.9	1570.2	1538.1	1534.5
15°	2055.5	2035.3	1977.0	1910.4	1853.3	1809.3	1741.5	1674.9	1620.2	1573.8	1569.0
17.5°	2151.9	2126.9	2057.9	2008.0	1961.6	1916.4	1840.2	1752.2	1679.6	1623.7	1610.6
20°	2212.6	2188.8	2123.3	2096.0	2074.6	2042.5	1952.0	1860.5	1779.6	1710.6	1698.7
22.5°	2270.8	2242.3	2185.2	2185.2	2201.9	2188.8	2091.2	1986.5	1891.4	1811.7	1793.8
25°	2336.3	2313.7	2273.2	2306.5	2348.2	2347.0	2247.1	2116.2	2006.8	1917.5	1899.7
27.5°	2431.4	2408.8	2394.6	2457.6	2509.9	2506.4	2396.9	2255.4	2140.0	2052.0	2035.3
30°	2599.2	2577.7	2562.3	2638.4	2705.0	2680.0	2559.9	2423.1	2306.5	2206.6	2194.7
32.5°	2822.8	2800.2	2780.0	2856.1	2915.6	2883.5	2769.3	2640.8	2506.4	2408.8	2385.0
35°	3116.6	3069.0	3048.8	3139.2	3164.2	3128.5	3019.1	2906.1	2763.3	2651.5	2636.0
37.5°	3419.9	3364.0	3349.8	3428.3	3468.7	3455.6	3327.2	3209.4	3054.8	2931.0	2913.2
40°	3679.3	3628.1	3603.1	3725.7	3817.3	3825.6	3710.2	3566.3	3384.3	3255.8	3223.7
42.5°	3831.5	3787.5	3781.6	3971.9	4121.8	4228.8	4090.9	3942.2	3750.6	3605.5	3579.3
45°	3866.0	3837.5	3887.4	4137.2	4370.4	4565.5	4447.7	4290.7	4083.7	3930.3	3905.3
47.5°	3862.5	3852.9	3942.2	4222.9	4517.9	4758.2	4699.9	4522.7	4322.8	4162.2	4138.4
50°	3811.3	3812.5	3961.2	4265.7	4577.4	4810.5	4752.2	4588.1	4409.6	4251.4	4232.4
52.5°	3791.1	3783.9	3925.5	4252.6	4638.0	4786.7	4655.9	4471.5	4272.9	4077.8	4049.2
55°	3862.5	3844.6	3930.3	4241.9	4645.2	4773.7	4428.7	4029.0	3622.2	3391.4	3372.4
57.5°	3969.5	3950.5	3990.9	4163.4	4272.9	3969.5	3259.4	2614.6	2195.9	2018.7	1941.3
60°	3544.8	3531.8	3500.8	3292.7	2824.0	2130.5	1451.2	925.5	665.0	537.7	537.7
62.5°	2199.5	2181.6	2013.9	1496.4	1087.2	629.3	346.2	216.5	164.2	153.5	152.3
65°	617.4	613.8	507.9	359.2	228.4	141.6	124.9	127.3	124.9	121.3	120.1
67.5°	92.8	102.3	102.3	83.3	79.7	89.2	104.7	111.8	105.9	99.9	97.5
70°	59.5	64.2	61.9	53.5	57.1	66.6	74.9	76.1	72.6	66.6	65.4
72.5°	41.6	46.4	38.1	34.5	35.7	39.3	42.8	42.8	41.6	39.3	36.9
75°	25.0	25.0	17.8	16.7	16.7	17.8	17.8	20.2	20.2	19.0	17.8
77.5°	8.3	9.5	5.9	4.8	4.8	4.8	5.9	7.1	7.1	5.9	4.8
80°	1.2	2.4	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	1.2
82.5°	1.2	1.2	1.2	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
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)