

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: P633791

Luminaire Tested: GWS-SA2F-740-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633791
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-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: 10514.2 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

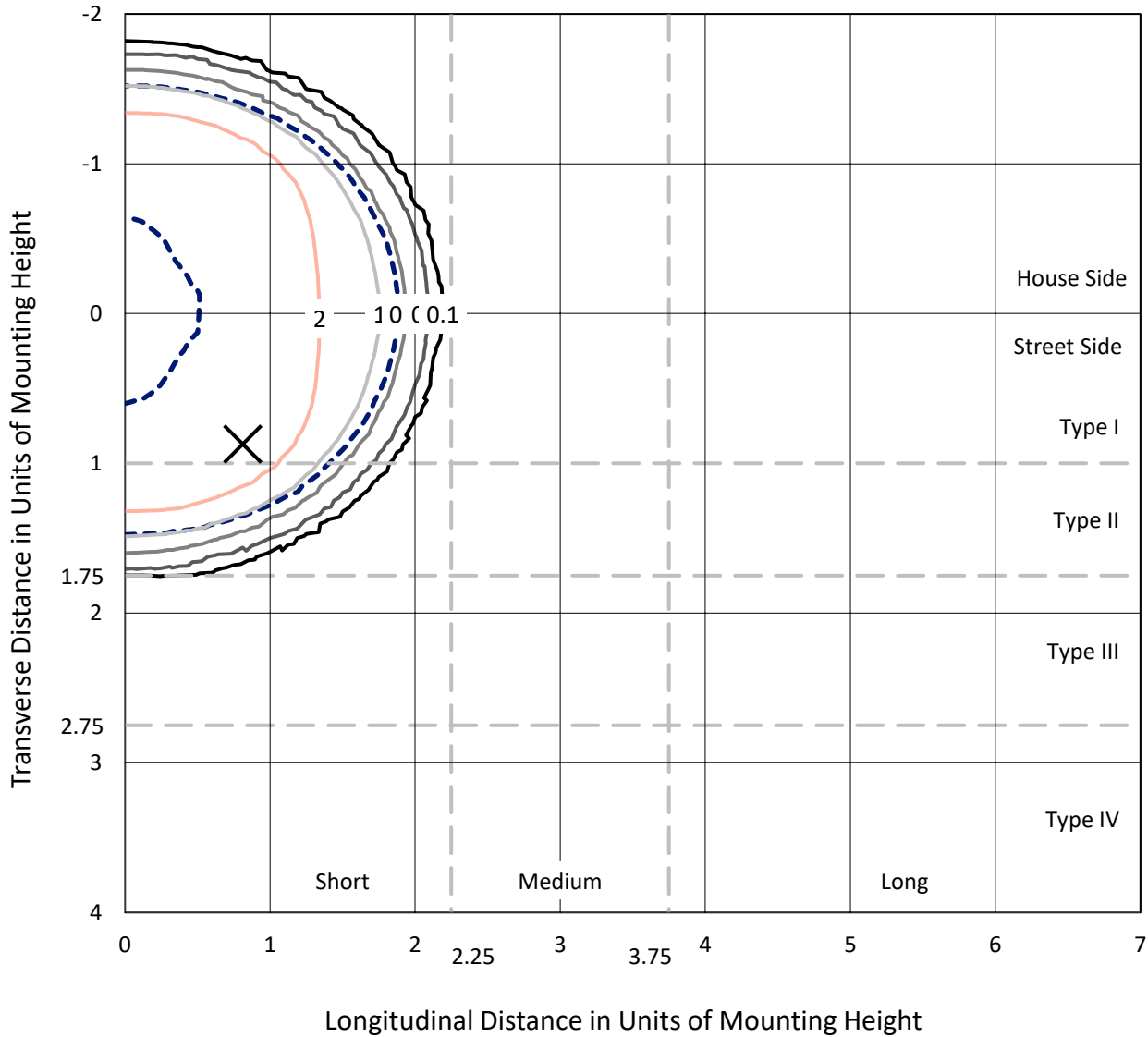
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

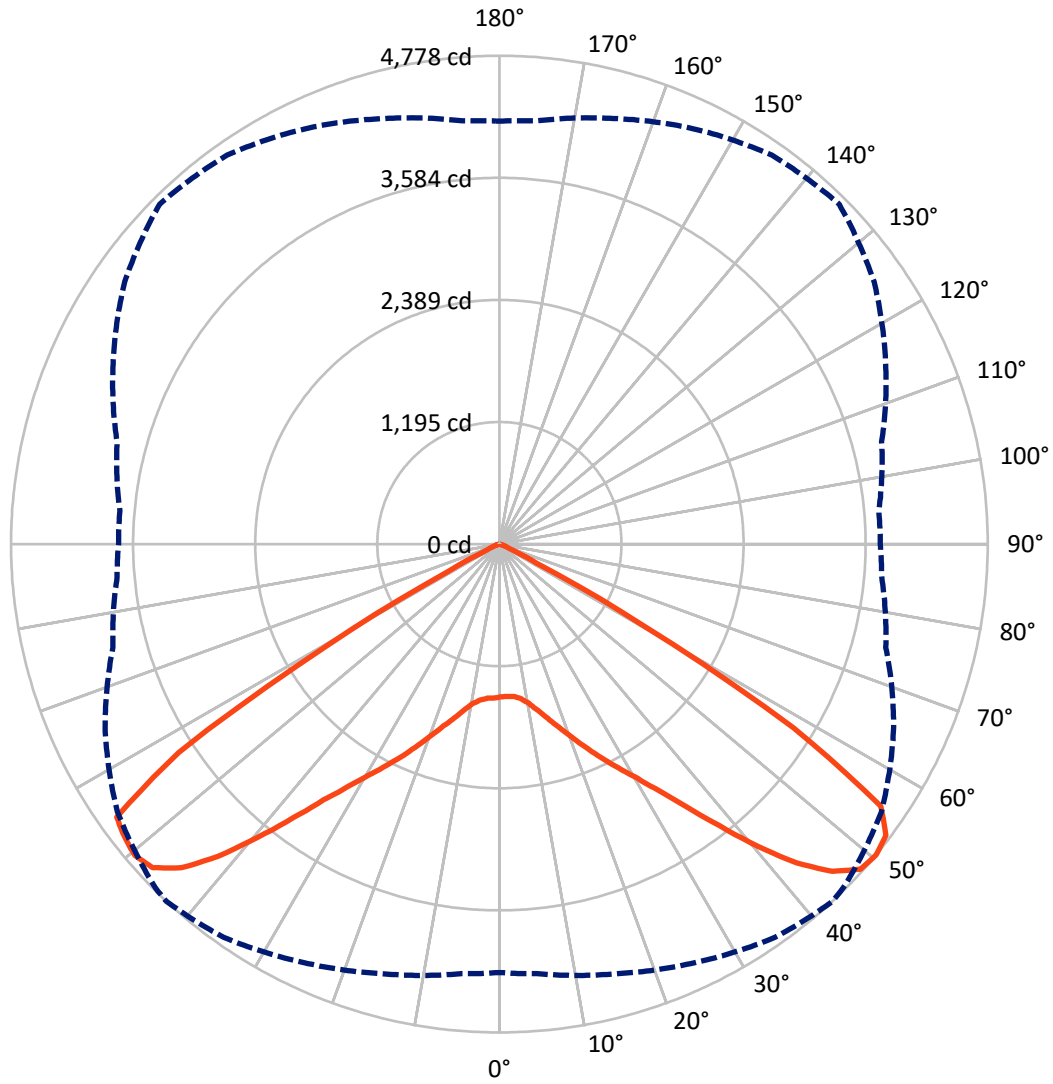
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	5257.0	0.0	5257.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5257.2	0.0	5257.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10514.2	0.0	10514.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.3	1.4
10°-20°	506.8	4.8
20°-30°	1025.3	9.8
30°-40°	1902.4	18.1
40°-50°	3157.8	30.0
50°-60°	3222.7	30.7
60°-70°	528.5	5.0
70°-80°	23.1	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°	10514.2	100.0
0°-180°	10514.2	100.0

Coefficient of Utilization



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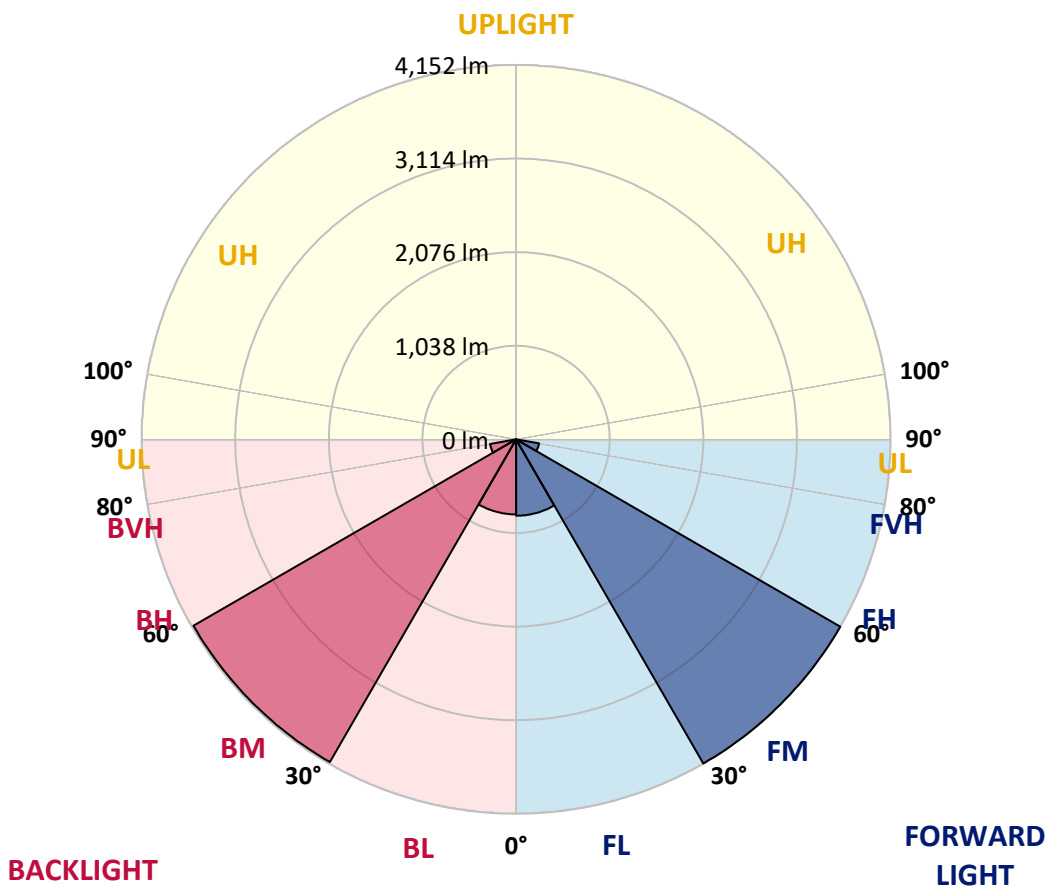
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.1	8.1			
FM (30°-60°)	4151.5	39.5			
FH (60°-80°)	258.5	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	832.3	7.9	B2/1000		
BM (30°-60°)	4131.3	39.3	B3/5000		
BH (60°-80°)	293.1	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°	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5
2.5°	1467.6	1471.1	1475.7	1480.4	1486.2	1492.0	1495.5	1505.9	1503.6	1512.9	1512.9
5°	1451.3	1454.8	1460.6	1471.1	1483.8	1496.6	1505.9	1526.9	1538.5	1557.1	1564.1
7.5°	1459.4	1464.1	1471.1	1487.3	1507.1	1526.9	1537.3	1571.1	1594.3	1629.2	1649.0
10°	1486.2	1490.8	1502.5	1530.4	1555.9	1583.9	1596.7	1639.7	1676.9	1724.6	1752.5
12.5°	1516.4	1522.2	1545.5	1587.3	1631.5	1668.7	1686.2	1733.9	1772.2	1825.7	1869.9
15°	1547.8	1557.1	1593.2	1654.8	1717.6	1767.6	1786.2	1837.4	1875.7	1932.7	1982.7
17.5°	1621.1	1631.5	1672.2	1738.5	1824.6	1882.7	1899.0	1952.5	1981.6	2019.9	2072.3
20°	1712.9	1732.7	1782.7	1863.0	1957.1	2013.0	2024.6	2076.9	2074.6	2090.9	2136.2
22.5°	1826.9	1840.9	1895.5	1990.9	2096.7	2158.3	2185.1	2207.2	2178.1	2164.1	2193.2
25°	1945.5	1961.8	2021.1	2125.8	2244.4	2315.3	2337.4	2354.9	2308.3	2256.0	2259.5
27.5°	2099.0	2110.6	2168.8	2280.4	2399.0	2479.3	2499.1	2529.3	2467.7	2383.9	2360.7
30°	2281.6	2293.2	2354.9	2472.3	2589.8	2658.4	2688.6	2725.8	2658.4	2553.7	2527.0
32.5°	2495.6	2507.2	2586.3	2707.2	2803.7	2878.2	2907.2	2946.8	2893.3	2775.8	2745.6
35°	2751.4	2758.4	2851.4	2982.8	3085.2	3157.3	3177.0	3223.5	3164.2	3046.8	3030.5
37.5°	3047.9	3056.1	3157.3	3309.6	3414.2	3494.5	3525.9	3538.7	3466.6	3335.2	3322.4
40°	3373.5	3400.3	3499.1	3663.1	3780.6	3881.7	3909.6	3866.6	3765.4	3586.4	3563.1
42.5°	3713.1	3736.4	3846.8	4024.8	4160.8	4264.3	4265.5	4172.5	4000.3	3752.7	3717.8
45°	3995.7	4005.0	4148.0	4327.1	4494.6	4567.8	4574.8	4406.2	4146.9	3849.2	3774.7
47.5°	4189.9	4205.0	4329.4	4501.6	4686.5	4752.7	4738.8	4528.3	4216.6	3912.0	3788.7
50°	4192.2	4217.8	4352.7	4519.0	4698.1	4778.3	4758.6	4563.2	4256.2	3914.3	3755.0
52.5°	3821.3	3863.1	4082.9	4323.6	4598.1	4735.3	4739.9	4608.5	4241.1	3877.1	3724.7
55°	2882.8	2928.2	3204.9	3615.4	4145.7	4528.3	4594.6	4555.0	4223.6	3893.4	3778.2
57.5°	1525.7	1490.8	1644.3	2051.3	2717.7	3394.5	3588.7	3905.0	4029.4	3913.1	3877.1
60°	332.6	354.7	472.1	636.1	1060.6	1596.7	1786.2	2328.1	2972.4	3258.4	3465.4
62.5°	143.0	140.7	146.5	166.3	243.0	404.7	494.2	807.0	1273.4	1749.0	2071.1
65°	117.5	118.6	123.3	123.3	115.1	116.3	122.1	184.9	297.7	417.5	560.5
67.5°	88.4	89.5	97.7	100.0	94.2	83.7	82.6	69.8	73.3	91.9	95.4
70°	55.8	55.8	60.5	62.8	62.8	58.1	57.0	50.0	48.8	55.8	62.8
72.5°	30.2	30.2	32.6	33.7	32.6	31.4	31.4	30.2	29.1	33.7	43.0
75°	12.8	12.8	14.0	14.0	12.8	12.8	12.8	12.8	12.8	15.1	23.3
77.5°	2.3	3.5	4.7	3.5	2.3	2.3	2.3	3.5	3.5	4.7	7.0
80°	1.2	1.2	2.3	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°	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5	1495.5
2.5°	1521.1	1508.3	1512.9	1515.2	1511.8	1509.4	1496.6	1493.2	1487.3	1478.0	1475.7
5°	1572.2	1561.8	1560.6	1553.6	1537.3	1517.6	1493.2	1482.7	1471.1	1459.4	1457.1
7.5°	1658.3	1645.5	1637.4	1614.1	1576.9	1545.5	1504.8	1482.7	1467.6	1452.5	1449.0
10°	1768.8	1753.6	1730.4	1687.4	1637.4	1592.0	1544.3	1515.2	1492.0	1471.1	1469.9
12.5°	1886.2	1869.9	1828.1	1773.4	1712.9	1671.1	1610.6	1569.9	1535.0	1503.6	1500.1
15°	2009.5	1989.7	1932.7	1867.6	1811.8	1768.8	1702.5	1637.4	1583.9	1538.5	1533.9
17.5°	2103.7	2079.3	2011.8	1963.0	1917.6	1873.4	1799.0	1712.9	1642.0	1587.3	1574.6
20°	2163.0	2139.7	2075.8	2049.0	2028.1	1996.7	1908.3	1818.8	1739.7	1672.2	1660.6
22.5°	2220.0	2192.1	2136.2	2136.2	2152.5	2139.7	2044.4	1942.0	1849.0	1771.1	1753.6
25°	2283.9	2261.8	2222.3	2254.8	2295.5	2294.4	2196.7	2068.8	1961.8	1874.6	1857.1
27.5°	2377.0	2354.9	2340.9	2402.5	2453.7	2450.2	2343.2	2204.8	2092.0	2006.0	1989.7
30°	2540.9	2520.0	2504.9	2579.3	2644.4	2620.0	2502.5	2368.8	2254.8	2157.2	2145.5
32.5°	2759.5	2737.4	2717.7	2792.1	2850.2	2818.8	2707.2	2581.6	2450.2	2354.9	2331.6
35°	3046.8	3000.3	2980.5	3068.9	3093.3	3058.4	2951.4	2840.9	2701.4	2592.1	2577.0
37.5°	3343.3	3288.7	3274.7	3351.5	3391.0	3378.2	3252.6	3137.5	2986.3	2865.4	2847.9
40°	3596.8	3546.8	3522.4	3642.2	3731.7	3739.9	3627.1	3486.3	3308.4	3182.8	3151.4
42.5°	3745.7	3702.6	3696.8	3882.9	4029.4	4134.1	3999.2	3853.8	3666.6	3524.7	3499.1
45°	3779.4	3751.5	3800.3	4044.5	4272.5	4463.2	4348.1	4194.6	3992.2	3842.2	3817.8
47.5°	3775.9	3766.6	3853.8	4128.3	4416.7	4651.6	4594.6	4421.3	4225.9	4069.0	4045.7
50°	3725.9	3727.1	3872.4	4170.1	4474.8	4702.7	4645.8	4485.3	4310.8	4156.2	4137.6
52.5°	3706.1	3699.2	3837.5	4157.3	4534.1	4679.5	4551.6	4371.3	4177.1	3986.4	3958.5
55°	3775.9	3758.5	3842.2	4146.9	4541.1	4666.7	4329.4	3938.7	3541.0	3315.4	3296.8
57.5°	3880.6	3862.0	3901.5	4070.1	4177.1	3880.6	3186.3	2556.0	2146.7	1973.4	1897.8
60°	3465.4	3452.6	3422.4	3218.9	2760.7	2082.7	1418.7	904.7	650.1	525.6	525.6
62.5°	2150.2	2132.7	1968.8	1462.9	1062.9	615.2	338.4	211.6	160.5	150.0	148.9
65°	603.5	600.1	496.6	351.2	223.3	138.4	122.1	124.4	122.1	118.6	117.5
67.5°	90.7	100.0	100.0	81.4	77.9	87.2	102.3	109.3	103.5	97.7	95.4
70°	58.1	62.8	60.5	52.3	55.8	65.1	73.3	74.4	70.9	65.1	64.0
72.5°	40.7	45.4	37.2	33.7	34.9	38.4	41.9	41.9	40.7	38.4	36.0
75°	24.4	24.4	17.4	16.3	16.3	17.4	17.4	19.8	19.8	18.6	17.4
77.5°	8.1	9.3	5.8	4.7	4.7	4.7	5.8	7.0	7.0	5.8	4.7
80°	1.2	2.3	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	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)