

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: P633821

Luminaire Tested: GWS-SA2F-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-740-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 10017.7 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

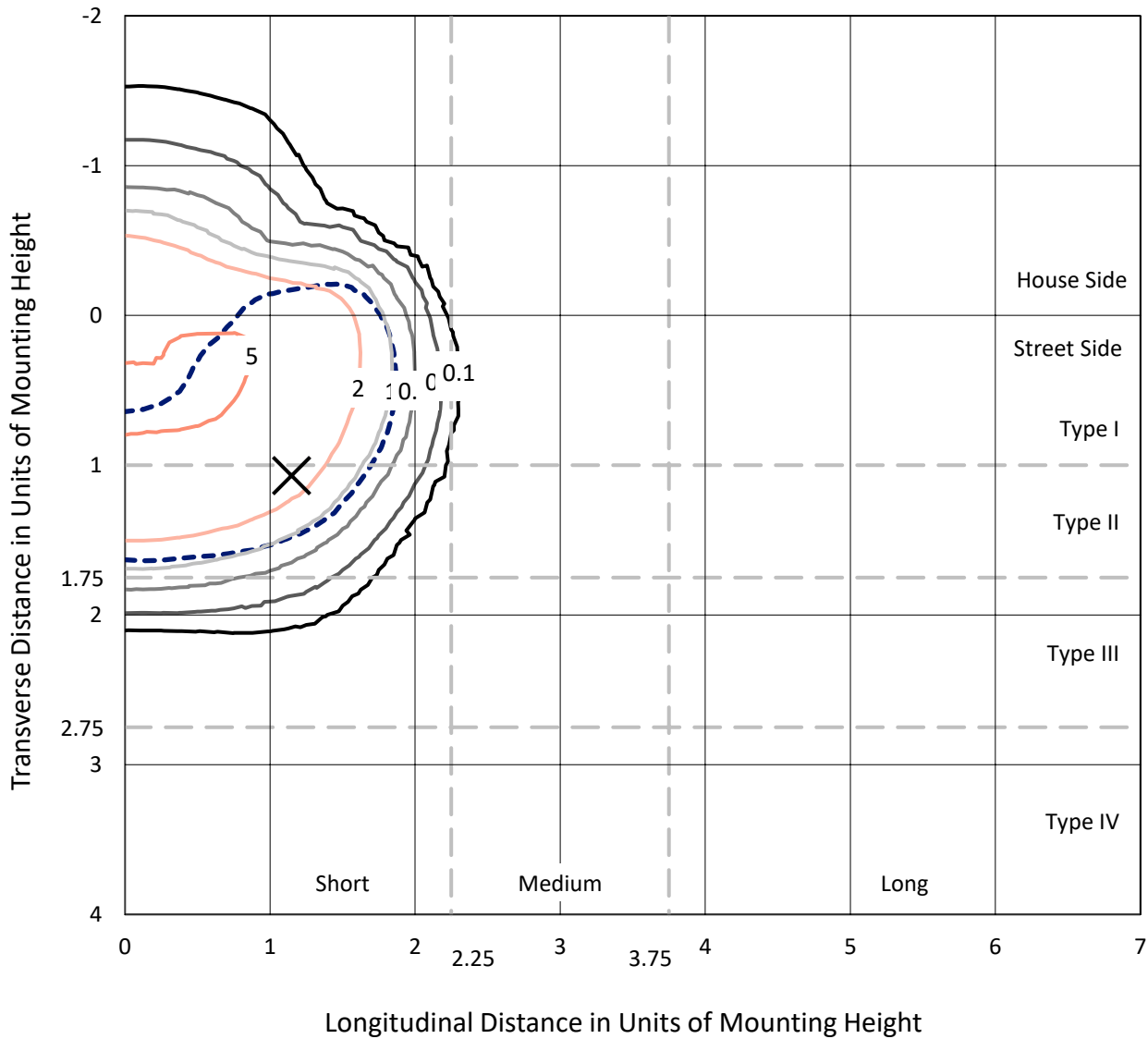
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

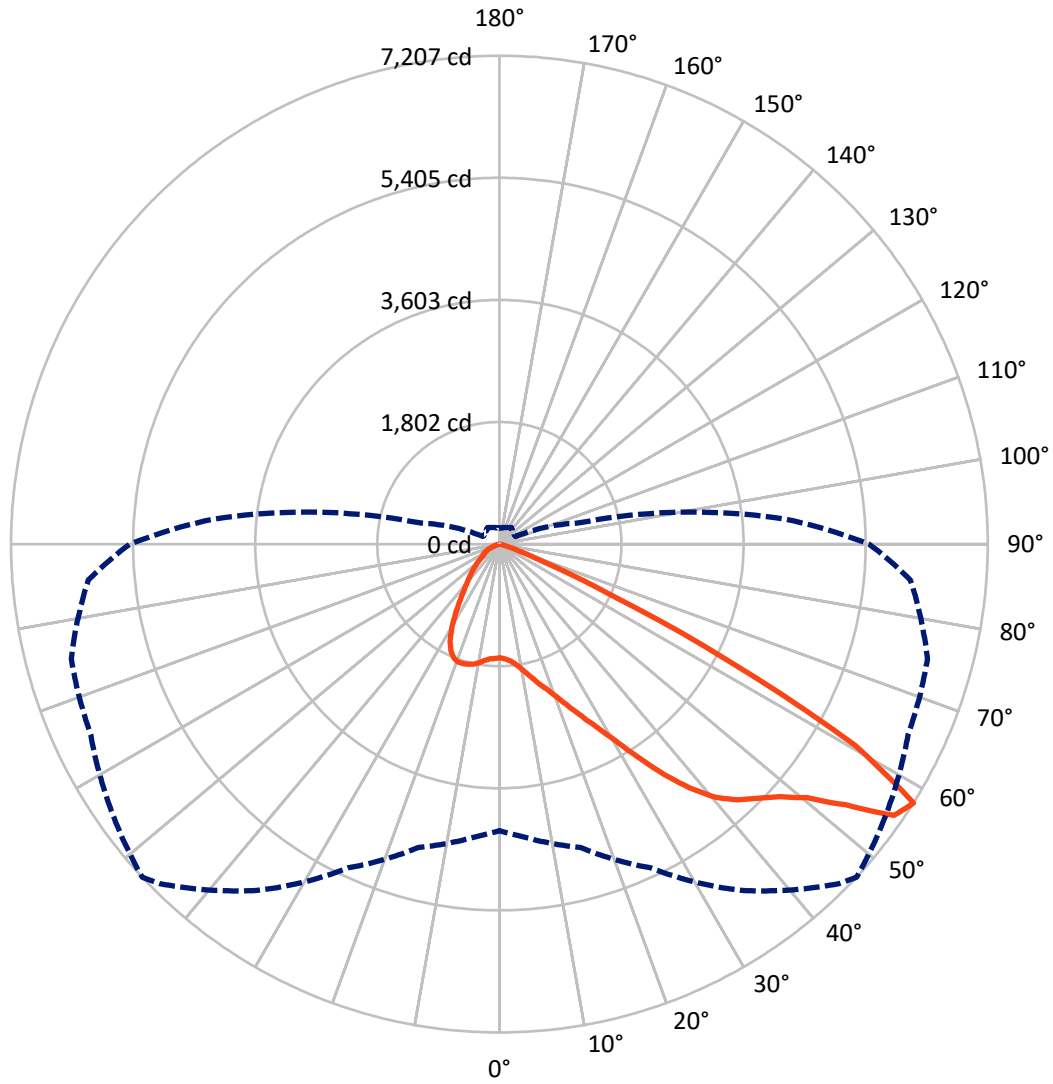
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2173.3	0.0	2173.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	7844.4	0.0	7844.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	10017.7	0.0	10017.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.8	1.7
10°-20°	563.0	5.6
20°-30°	1045.3	10.4
30°-40°	1673.3	16.7
40°-50°	2446.0	24.4
50°-60°	3018.8	30.1
60°-70°	1008.7	10.1
70°-80°	94.0	0.9
80°-90°	2.0	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°	10017.7	100.0
0°-180°	10017.7	100.0

**Coefficient of Utilization**



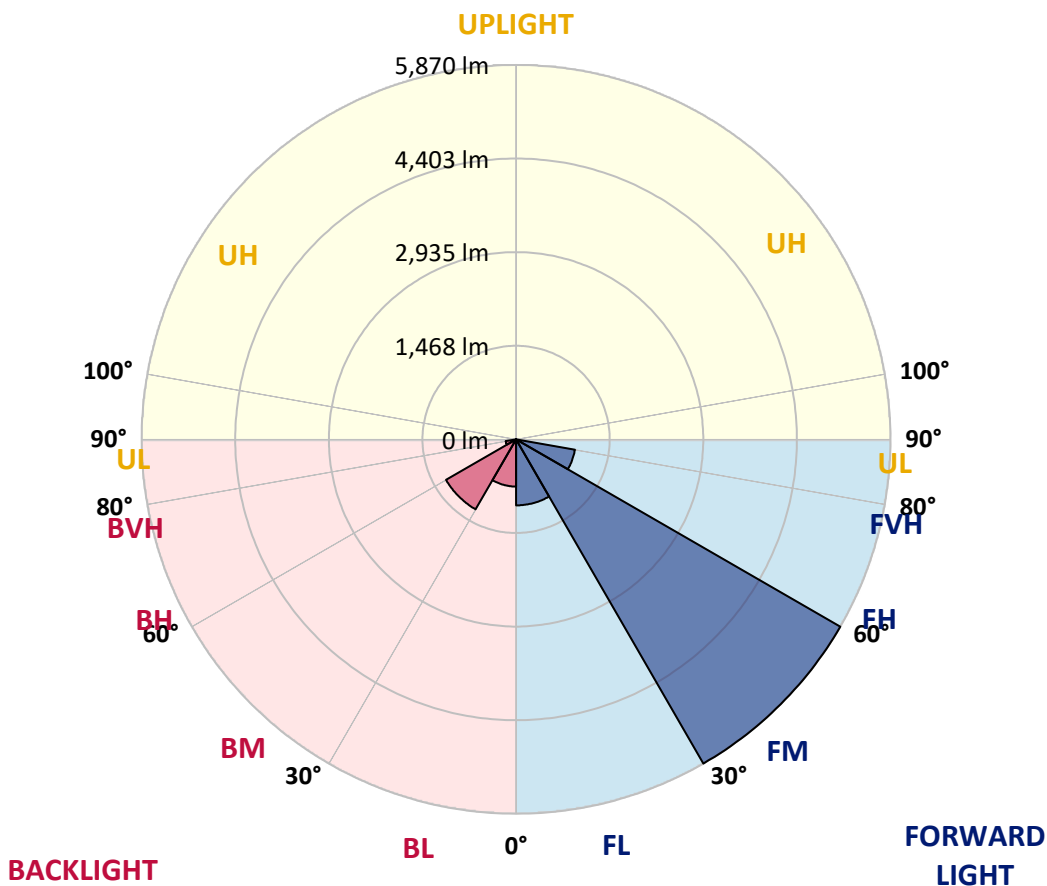
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1035.3	10.3			
FM (30°-60°)	5870.3	58.6			
FH (60°-80°)	937.4	9.4			G1/1800
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	739.8	7.4	B2/1000		
BM (30°-60°)	1267.7	12.7	B2/2500		
BH (60°-80°)	165.2	1.6	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	1694.4	1693.3	1692.1	1699.1	1696.7	1695.6	1697.9	1697.9	1697.9	1690.9	1677.0
5°	1735.1	1735.1	1734.0	1740.9	1735.1	1731.6	1732.8	1732.8	1728.1	1715.4	1697.9
7.5°	1799.1	1796.8	1794.4	1801.4	1795.6	1794.4	1796.8	1789.8	1781.6	1760.7	1736.3
10°	1891.0	1891.0	1887.5	1894.4	1889.8	1887.5	1887.5	1882.8	1867.7	1835.1	1799.1
12.5°	2017.7	2011.9	2003.8	1997.9	1995.6	1994.5	1995.6	1988.6	1972.4	1930.5	1880.5
15°	2156.1	2151.5	2138.7	2129.4	2116.6	2114.2	2121.2	2115.4	2099.1	2042.1	1971.2
17.5°	2330.6	2336.4	2303.8	2284.0	2246.8	2244.5	2246.8	2256.1	2244.5	2171.2	2067.7
20°	2479.4	2484.1	2459.6	2445.7	2412.0	2396.8	2401.5	2416.6	2403.8	2317.8	2173.6
22.5°	2638.7	2644.5	2619.0	2589.9	2574.8	2574.8	2592.2	2613.1	2595.7	2482.9	2294.5
25°	2829.5	2834.1	2813.2	2774.8	2748.1	2781.8	2807.4	2863.2	2834.1	2680.6	2437.5
27.5°	3048.1	3049.3	3019.0	2979.5	2965.5	3028.3	3053.9	3140.0	3128.3	2902.7	2588.7
30°	3281.8	3283.0	3276.0	3249.3	3236.5	3319.1	3353.9	3478.4	3470.2	3178.3	2794.6
32.5°	3524.9	3524.9	3537.7	3535.4	3550.5	3685.4	3741.2	3883.1	3874.9	3515.6	3050.4
35°	3769.1	3770.3	3792.4	3848.2	3911.0	4090.1	4163.4	4335.5	4316.9	3919.1	3377.2
37.5°	4047.1	4035.4	4065.7	4149.4	4289.0	4496.0	4565.7	4729.7	4708.8	4332.0	3804.0
40°	4382.0	4361.1	4361.1	4458.7	4616.9	4855.3	4914.6	4996.0	4925.1	4665.8	4222.7
42.5°	4751.8	4732.0	4706.5	4792.5	4925.1	5111.2	5160.0	5137.9	5079.8	4980.9	4699.5
45°	5126.3	5096.0	5113.5	5165.8	5242.6	5331.0	5349.6	5247.2	5220.5	5248.4	5093.7
47.5°	5411.2	5390.3	5433.3	5506.6	5569.4	5582.2	5569.4	5427.5	5425.2	5524.0	5367.0
50°	5506.6	5508.9	5627.5	5788.0	5889.2	5899.6	5882.2	5719.4	5697.3	5726.4	5514.7
52.5°	5515.9	5525.2	5698.5	6004.3	6279.9	6405.5	6391.6	6216.0	5999.7	5968.3	5738.0
55°	5291.4	5346.1	5588.0	6034.5	6620.7	7021.9	7068.4	6732.3	6411.3	6384.6	6218.3
57.5°	4229.6	4341.3	4633.2	5269.3	6240.4	7085.9	7206.8	6964.9	6654.4	6540.4	6089.2
60°	2528.3	2666.6	2946.9	3727.3	4749.5	5824.1	6032.2	6065.9	5922.9	5593.8	4671.6
62.5°	1085.0	1073.4	1418.8	2016.6	2824.8	3701.7	3795.9	3942.4	4066.8	3722.6	2835.3
65°	372.1	404.7	562.9	909.4	1414.1	1718.8	1802.6	1934.0	2110.8	1742.1	1038.5
67.5°	230.3	244.2	324.5	537.3	762.9	751.3	714.1	693.1	674.5	461.7	284.9
70°	167.5	179.1	227.9	369.8	512.9	360.5	312.8	253.5	281.4	259.3	202.4
72.5°	112.8	122.1	157.0	224.4	262.8	175.6	162.8	184.9	223.3	212.8	165.1
75°	67.5	73.3	89.5	109.3	107.0	90.7	91.9	130.3	171.0	159.3	117.5
77.5°	46.5	48.8	59.3	70.9	52.3	27.9	25.6	36.1	58.1	58.1	39.5
80°	11.6	15.1	15.1	9.3	8.1	7.0	7.0	10.5	16.3	11.6	5.8
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3	2.3
85°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	2.3
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3
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°	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0	1677.0
2.5°	1685.1	1671.2	1680.5	1678.1	1685.1	1687.4	1677.0	1674.6	1675.8	1661.9	1657.2
5°	1701.4	1685.1	1689.8	1685.1	1693.3	1700.2	1696.7	1701.4	1707.2	1696.7	1692.1
7.5°	1736.3	1720.0	1718.8	1711.9	1723.5	1728.1	1727.0	1739.8	1751.4	1744.4	1737.4
10°	1796.8	1774.7	1772.3	1766.5	1770.0	1773.5	1760.7	1763.0	1773.5	1765.4	1761.9
12.5°	1871.2	1844.4	1838.6	1824.7	1824.7	1807.2	1779.3	1773.5	1781.6	1775.8	1770.0
15°	1951.4	1915.4	1906.1	1881.7	1858.4	1825.8	1796.8	1789.8	1795.6	1788.6	1784.0
17.5°	2041.0	2000.3	1970.0	1927.0	1875.8	1837.5	1804.9	1789.8	1780.5	1766.5	1765.4
20°	2129.4	2075.9	2024.7	1956.1	1888.6	1830.5	1777.0	1737.4	1703.7	1682.8	1674.6
22.5°	2231.7	2152.6	2070.1	1973.5	1877.0	1788.6	1694.4	1627.0	1568.8	1549.0	1539.7
25°	2341.0	2238.7	2115.4	1989.8	1837.5	1695.6	1567.7	1467.6	1390.9	1365.3	1354.8
27.5°	2462.0	2321.2	2161.9	1986.3	1756.1	1563.0	1393.2	1268.8	1193.2	1169.9	1178.1
30°	2615.5	2428.2	2220.1	1950.3	1633.9	1376.9	1178.1	1073.4	1016.4	994.3	995.5
32.5°	2820.2	2581.7	2305.0	1873.5	1476.9	1165.3	990.8	914.1	875.7	846.6	844.3
35°	3113.2	2815.5	2384.0	1750.2	1286.2	976.9	850.1	789.6	736.1	702.4	708.2
37.5°	3464.4	3109.7	2427.1	1583.9	1072.2	830.3	744.3	682.7	622.2	572.2	578.0
40°	3880.8	3494.7	2423.6	1365.3	876.9	730.3	655.9	583.8	508.2	462.9	467.5
42.5°	4344.8	3858.7	2348.0	1133.9	726.8	648.9	571.0	480.3	407.0	379.1	380.3
45°	4747.2	4154.1	2215.4	894.3	611.7	569.8	482.6	389.6	357.0	337.3	336.1
47.5°	5044.9	4370.4	2025.9	703.6	518.7	497.7	396.6	348.9	323.3	307.0	304.7
50°	5211.2	4446.0	1816.5	551.2	438.4	422.2	354.7	316.3	298.9	288.4	286.1
52.5°	5434.5	4536.7	1666.5	434.9	367.5	345.4	326.8	294.2	282.6	274.5	271.0
55°	5788.0	4712.3	1536.3	345.4	305.9	301.2	308.2	281.4	274.5	261.7	257.0
57.5°	5455.4	4233.1	1193.2	267.5	258.2	275.6	297.7	268.6	251.2	239.6	234.9
60°	3838.9	2814.3	600.1	215.1	230.3	258.2	280.3	243.1	225.6	227.9	225.6
62.5°	2116.6	1408.3	269.8	180.3	200.0	227.9	239.6	210.5	198.9	218.6	222.1
65°	692.0	479.1	155.8	139.6	158.2	186.1	207.0	200.0	197.7	221.0	227.9
67.5°	212.8	158.2	105.8	100.0	109.3	137.2	174.4	216.3	232.6	239.6	243.1
70°	159.3	124.4	90.7	84.9	89.5	104.7	147.7	180.3	169.8	171.0	168.6
72.5°	127.9	98.9	77.9	74.4	74.4	72.1	77.9	97.7	110.5	116.3	116.3
75°	89.5	69.8	59.3	54.7	43.0	34.9	31.4	31.4	27.9	26.7	25.6
77.5°	30.2	25.6	23.3	18.6	12.8	10.5	9.3	8.1	5.8	3.5	2.3
80°	4.7	3.5	2.3	2.3	2.3	1.2	1.2	1.2	0.0	0.0	0.0
82.5°	2.3	2.3	2.3	2.3	2.3	1.2	1.2	0.0	0.0	0.0	0.0
85°	2.3	2.3	2.3	2.3	2.3	1.2	1.2	0.0	0.0	0.0	0.0
87.5°	2.3	2.3	2.3	2.3	1.2	1.2	1.2	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)