

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: P631093

Luminaire Tested: GWS-SA1F-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631093  
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-SA1F-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

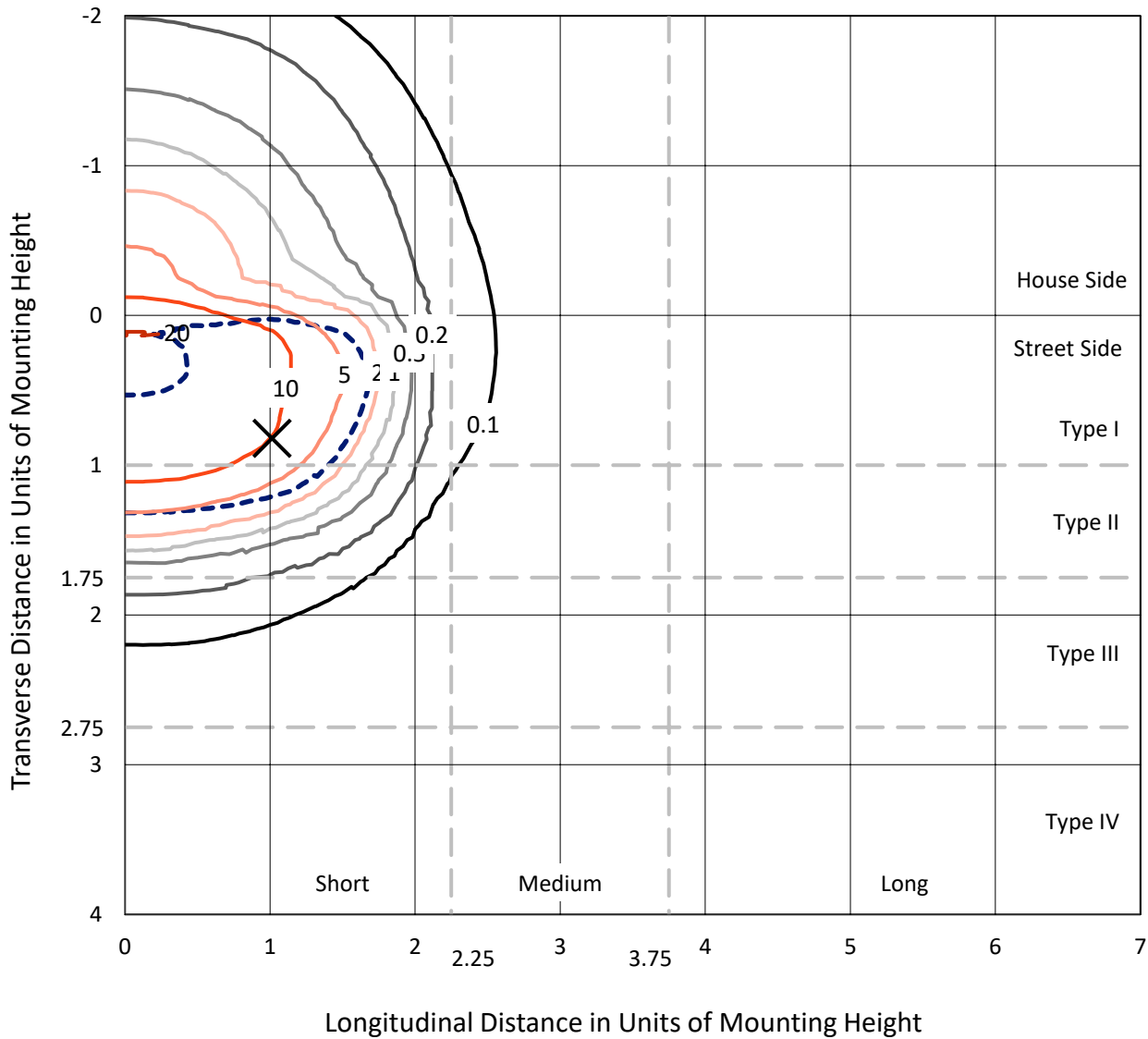
Lumens per Lamp: N/A  
Luminaire Lumens: 5629.9 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

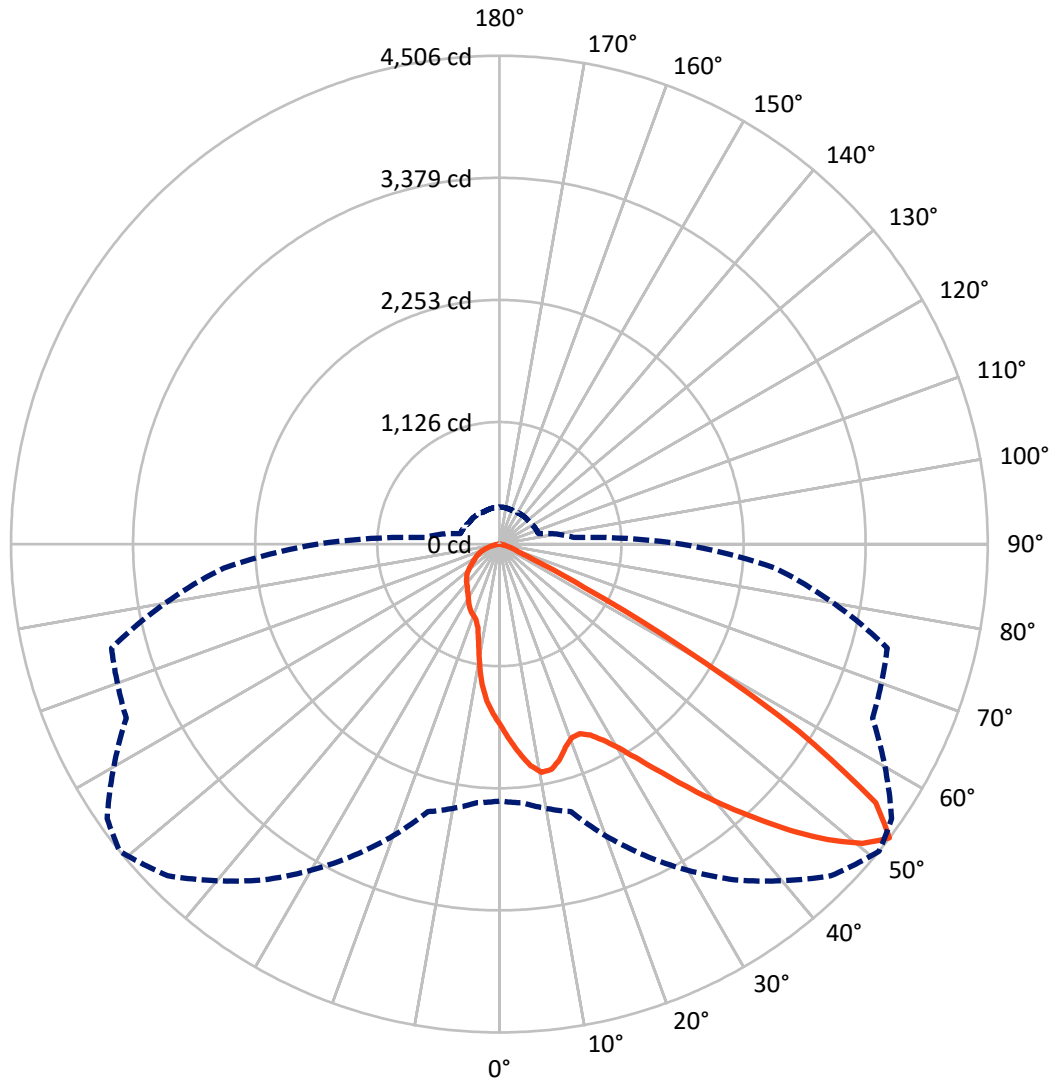
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.5 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	1096.9	0.0	1096.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	4533.0	0.0	4533.0
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	5629.9	0.0	5629.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.4	2.8
10°-20°	406.4	7.2
20°-30°	660.8	11.7
30°-40°	1047.3	18.6
40°-50°	1579.6	28.1
50°-60°	1366.4	24.3
60°-70°	309.8	5.5
70°-80°	91.3	1.6
80°-90°	11.8	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°	5629.9	100.0
0°-180°	5629.9	100.0

**Coefficient of Utilization**



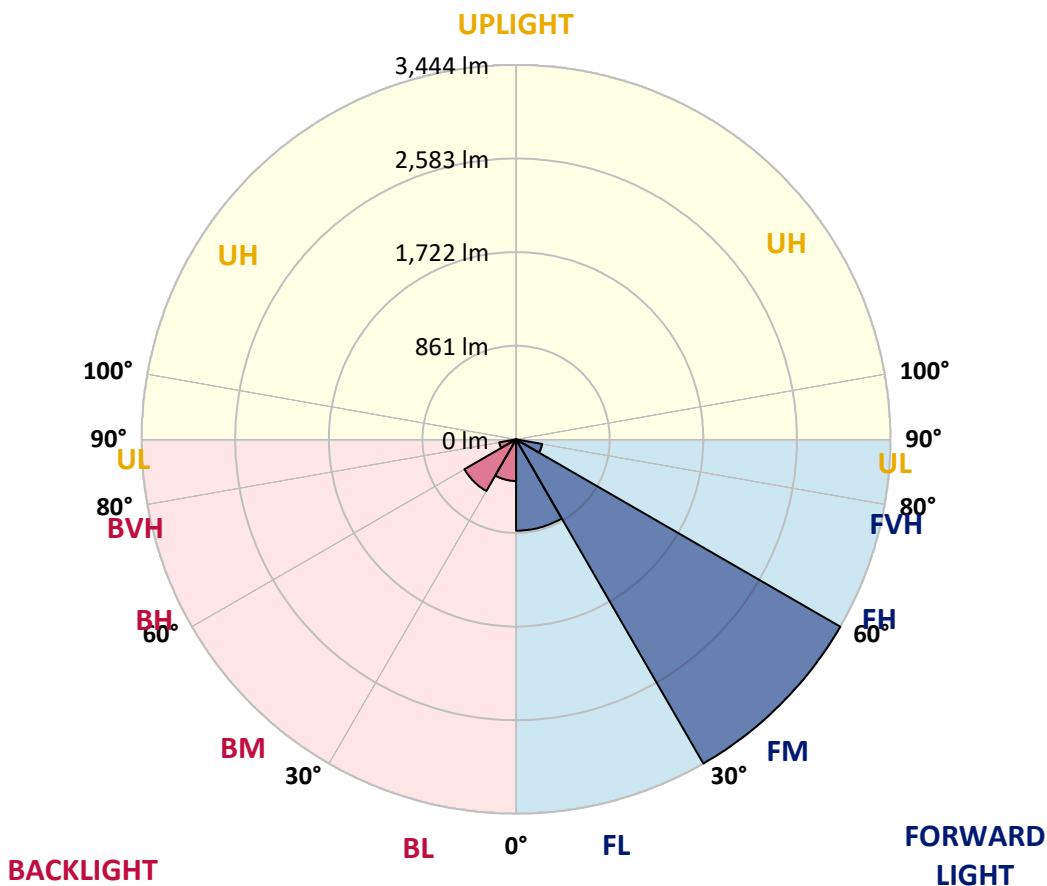
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	840.3	14.9			
FM (30°-60°)	3444.5	61.2			
FH (60°-80°)	243.8	4.3			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	383.4	6.8	B1/500		
BM (30°-60°)	548.8	9.7	B1/1000		
BH (60°-80°)	157.3	2.8	B1/500		G1/500
BVH (80°-90°)	7.3	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°	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3
2.5°	1868.0	1878.7	1862.3	1856.0	1845.8	1828.0	1807.5	1801.8	1757.7	1728.8	1696.3
5°	2055.8	2061.6	2048.2	2034.9	2009.5	1977.9	1938.3	1929.9	1849.8	1783.5	1714.6
7.5°	2097.6	2095.4	2106.9	2114.5	2111.4	2098.9	2063.8	2047.3	1951.7	1846.7	1744.8
10°	1932.1	1919.7	1962.4	2013.1	2074.0	2144.3	2140.3	2139.0	2055.8	1931.7	1783.5
12.5°	1712.8	1706.6	1741.3	1804.9	1920.1	2075.8	2134.1	2179.5	2149.7	2012.6	1826.7
15°	1587.3	1585.1	1608.7	1654.5	1746.1	1942.8	2067.4	2157.2	2230.2	2099.4	1872.5
17.5°	1564.6	1566.0	1574.0	1600.2	1666.1	1828.0	1972.1	2097.6	2292.9	2194.6	1929.9
20°	1630.9	1639.8	1626.0	1630.0	1665.6	1786.6	1907.2	2037.5	2332.9	2290.2	1991.7
22.5°	1778.2	1775.1	1744.8	1727.0	1727.5	1812.0	1900.1	2009.5	2359.2	2383.2	2047.8
25°	1945.0	1941.4	1905.4	1865.8	1840.9	1880.9	1951.2	2039.3	2382.8	2468.2	2092.7
27.5°	2142.1	2131.0	2090.9	2040.2	1985.0	2002.4	2050.0	2119.8	2419.2	2551.8	2122.5
30°	2332.9	2345.8	2288.5	2228.4	2170.1	2159.4	2187.0	2250.2	2493.5	2649.7	2158.1
32.5°	2586.1	2581.6	2518.0	2439.7	2356.5	2348.5	2370.3	2428.1	2627.0	2784.9	2212.4
35°	2892.6	2893.5	2803.2	2697.3	2579.0	2557.6	2594.1	2650.1	2825.9	2968.2	2298.2
37.5°	3211.1	3209.8	3131.1	3010.9	2849.4	2819.2	2861.0	2902.8	3074.6	3217.8	2431.7
40°	3434.5	3443.4	3406.4	3343.3	3190.2	3116.4	3153.3	3182.2	3345.0	3511.4	2607.4
42.5°	3561.3	3574.6	3582.6	3620.4	3539.9	3461.2	3447.8	3462.9	3586.6	3784.1	2772.5
45°	3588.4	3606.2	3664.5	3804.6	3835.7	3813.5	3769.9	3733.4	3766.8	3977.7	2880.6
47.5°	3468.7	3499.9	3624.4	3869.6	4051.5	4121.4	4072.9	4017.3	3870.9	4027.5	2869.5
50°	2994.5	3031.0	3311.7	3737.0	4082.2	4336.7	4341.1	4258.8	3858.4	3883.8	2729.8
52.5°	2370.8	2395.7	2556.3	3168.0	3781.0	4327.8	4505.7	4417.6	3798.4	3704.1	2554.9
55°	1416.9	1457.0	1606.9	2090.0	2945.5	3835.7	4214.8	4257.5	3769.0	3553.2	2435.7
57.5°	478.2	497.8	641.1	923.1	1735.9	2808.5	3256.5	3430.0	3421.6	3322.8	2203.0
60°	227.8	232.2	261.1	350.1	694.9	1467.7	1927.7	2127.9	2310.3	2328.5	1370.7
62.5°	173.5	176.2	190.9	210.0	279.4	618.4	883.5	1036.6	1107.3	950.3	499.2
65°	145.0	147.3	158.4	170.4	190.0	267.8	339.0	391.0	352.3	274.5	238.0
67.5°	121.0	122.8	131.2	144.1	157.5	179.3	188.2	193.5	202.9	227.8	218.9
70°	94.8	96.5	105.4	116.6	129.5	134.8	143.3	148.6	167.3	199.3	198.4
72.5°	73.0	75.2	80.1	87.2	97.9	103.2	112.6	118.8	129.5	155.3	165.9
75°	53.4	54.7	59.2	61.4	62.7	61.4	70.7	77.9	92.1	101.9	104.5
77.5°	21.8	24.5	23.6	23.6	28.0	33.8	38.7	43.2	52.9	58.7	59.2
80°	8.9	9.8	11.6	12.9	15.6	20.0	23.1	24.9	29.4	32.9	35.6
82.5°	5.3	5.8	6.7	7.1	8.9	11.6	13.3	14.7	18.2	21.8	23.1
85°	2.7	2.7	3.1	3.6	4.4	5.3	6.2	7.1	9.3	11.6	12.9
87.5°	0.4	0.4	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.4
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°	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3	1676.3
2.5°	1677.2	1653.2	1625.1	1602.9	1577.1	1558.0	1530.8	1513.9	1497.9	1484.6	1474.8
5°	1679.0	1638.5	1580.2	1528.6	1475.2	1424.5	1372.5	1330.2	1292.4	1260.8	1258.1
7.5°	1689.2	1630.9	1539.7	1449.4	1345.3	1244.8	1144.2	1062.4	1000.1	967.6	960.9
10°	1706.6	1630.0	1498.4	1354.2	1176.7	1014.8	895.5	833.3	797.2	784.3	779.9
12.5°	1724.8	1627.8	1445.4	1219.9	973.4	831.5	766.1	758.5	765.2	766.1	765.6
15°	1747.0	1626.5	1378.7	1062.4	824.8	746.5	751.0	767.0	782.5	786.1	786.1
17.5°	1774.2	1623.4	1287.9	908.4	731.8	730.0	753.6	775.0	789.7	792.3	792.3
20°	1802.6	1615.4	1176.3	783.0	694.0	719.8	745.2	761.6	771.9	775.4	775.9
22.5°	1822.2	1594.0	1047.7	690.0	670.4	700.2	718.5	735.4	735.4	726.5	723.8
25°	1826.2	1548.2	908.4	626.4	642.4	670.0	688.7	678.9	660.6	653.5	653.1
27.5°	1811.5	1481.4	771.0	581.0	608.6	636.2	633.1	618.8	610.8	603.7	606.4
30°	1793.8	1401.4	651.7	543.6	569.4	596.6	585.9	581.0	575.2	567.2	569.0
32.5°	1781.7	1311.9	560.1	514.7	543.2	547.6	555.2	554.8	549.4	534.3	533.4
35°	1785.3	1221.6	498.7	491.1	521.4	519.6	533.9	531.2	494.3	473.4	472.0
37.5°	1813.8	1134.9	462.7	472.5	486.7	497.8	510.3	478.2	465.3	452.0	452.9
40°	1868.0	1054.4	443.1	462.2	465.8	482.2	453.3	452.9	447.1	435.1	434.6
42.5°	1929.4	986.3	429.8	457.3	452.4	455.6	424.9	428.4	428.0	420.4	418.2
45°	1966.8	923.6	419.1	439.1	440.4	409.3	399.9	403.9	406.2	402.2	401.7
47.5°	1928.1	851.5	408.0	411.1	422.6	388.4	376.8	377.3	381.3	381.7	379.9
50°	1819.6	771.0	394.6	387.0	379.5	366.6	355.9	353.7	357.7	361.7	363.0
52.5°	1679.4	694.0	372.4	360.8	343.0	343.0	338.1	331.0	336.3	341.7	343.4
55°	1576.6	637.1	340.8	327.9	308.3	315.0	314.1	307.9	315.0	319.0	320.3
57.5°	1366.2	512.1	299.8	295.8	279.4	287.4	289.2	281.2	277.6	278.5	279.8
60°	811.0	330.5	270.5	270.0	255.4	264.7	270.0	262.0	251.4	252.7	254.5
62.5°	363.9	252.7	233.6	231.8	231.3	243.3	249.1	241.6	226.4	227.8	229.6
65°	229.1	218.4	202.9	202.9	210.0	220.2	224.7	218.4	201.1	198.9	200.6
67.5°	212.7	203.3	187.3	184.2	187.7	196.2	196.6	184.6	174.4	172.6	172.6
70°	190.9	183.7	168.2	161.9	160.6	160.2	158.8	155.7	149.0	147.3	148.1
72.5°	157.9	153.0	143.3	136.6	133.0	132.6	127.2	124.6	118.8	117.9	117.4
75°	104.5	105.9	105.9	105.0	101.9	100.5	94.8	92.1	85.4	82.7	82.3
77.5°	61.8	63.2	65.0	65.4	65.0	65.0	59.6	56.5	49.8	46.3	45.4
80°	37.8	38.7	39.6	40.9	39.1	37.8	32.9	29.8	26.7	24.5	24.0
82.5°	24.5	25.4	25.8	26.7	25.8	24.0	20.0	18.2	16.0	14.2	13.8
85°	13.8	14.2	15.1	15.1	13.8	12.5	10.2	8.9	7.6	6.7	6.7
87.5°	4.9	4.9	4.9	5.3	4.4	4.0	2.7	1.8	1.3	1.3	1.3
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)