

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: P631918

Luminaire Tested: GWS-SA2B-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631918  
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-SA2B-760-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

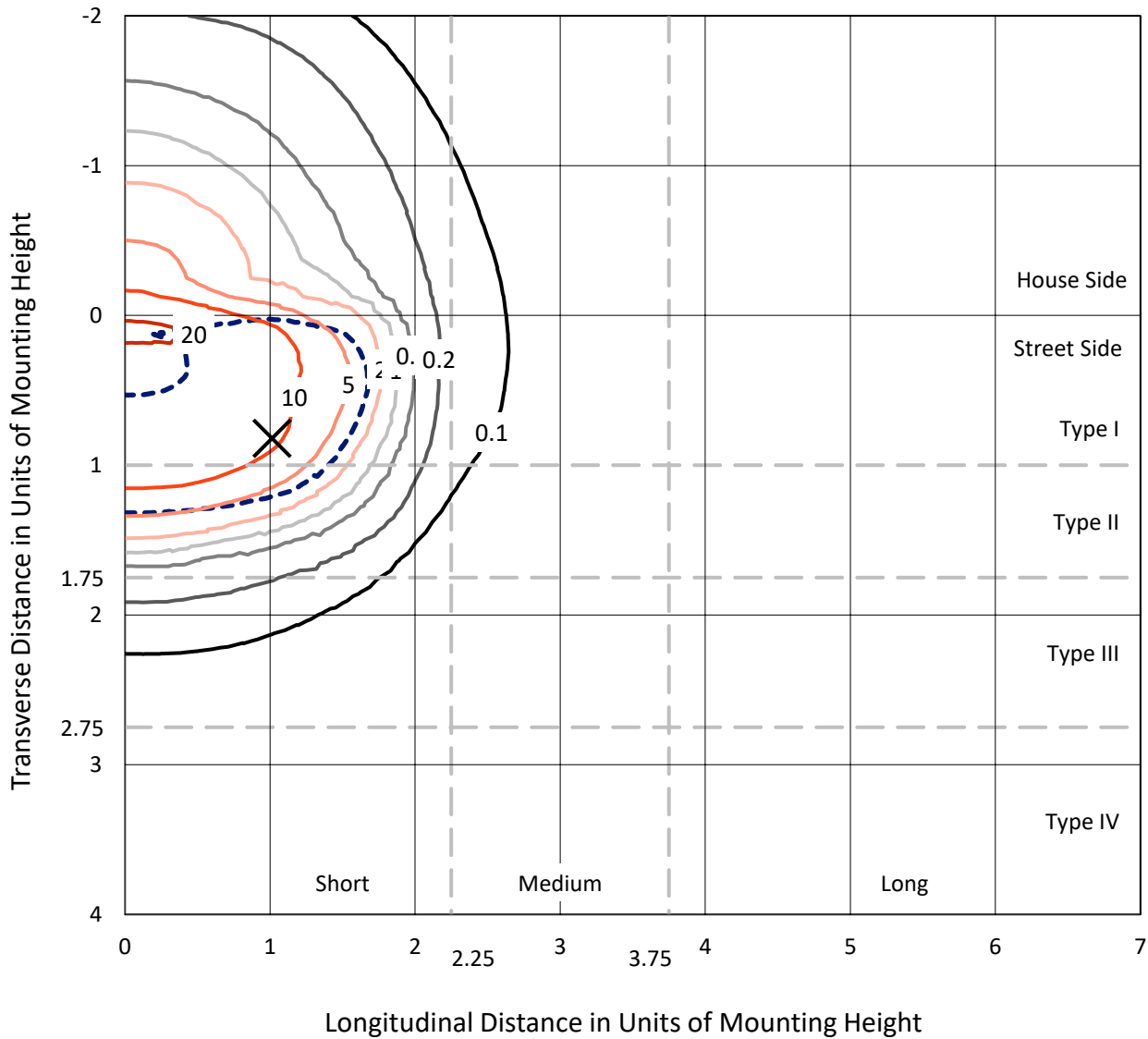
Lumens per Lamp: N/A  
Luminaire Lumens: 6316.5 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

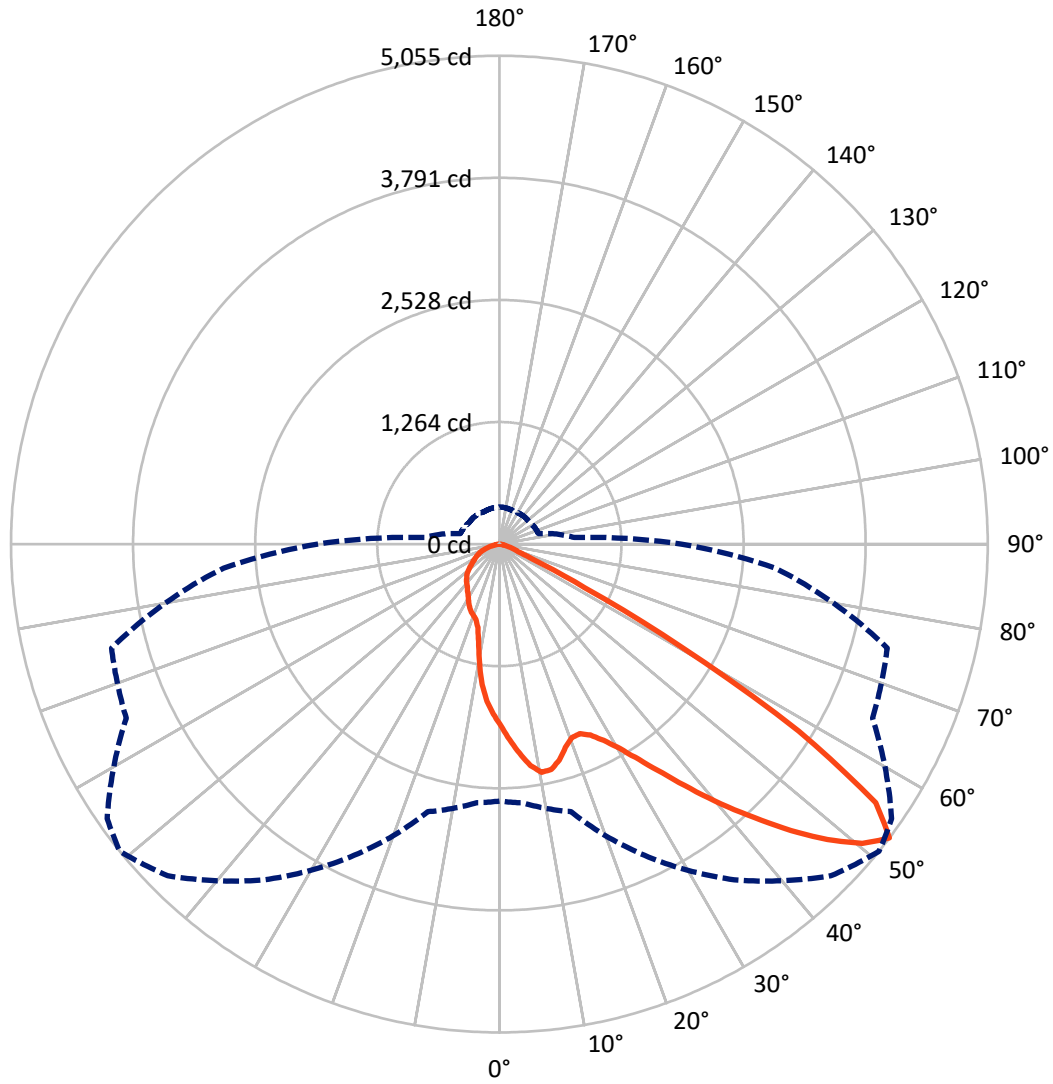
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23 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	1230.7	0.0	1230.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	5085.8	0.0	5085.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	6316.5	0.0	6316.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	2.8
10°-20°	456.0	7.2
20°-30°	741.4	11.7
30°-40°	1175.0	18.6
40°-50°	1772.2	28.1
50°-60°	1533.1	24.3
60°-70°	347.6	5.5
70°-80°	102.5	1.6
80°-90°	13.2	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°	6316.5	100.0
0°-180°	6316.5	100.0

**Coefficient of Utilization**



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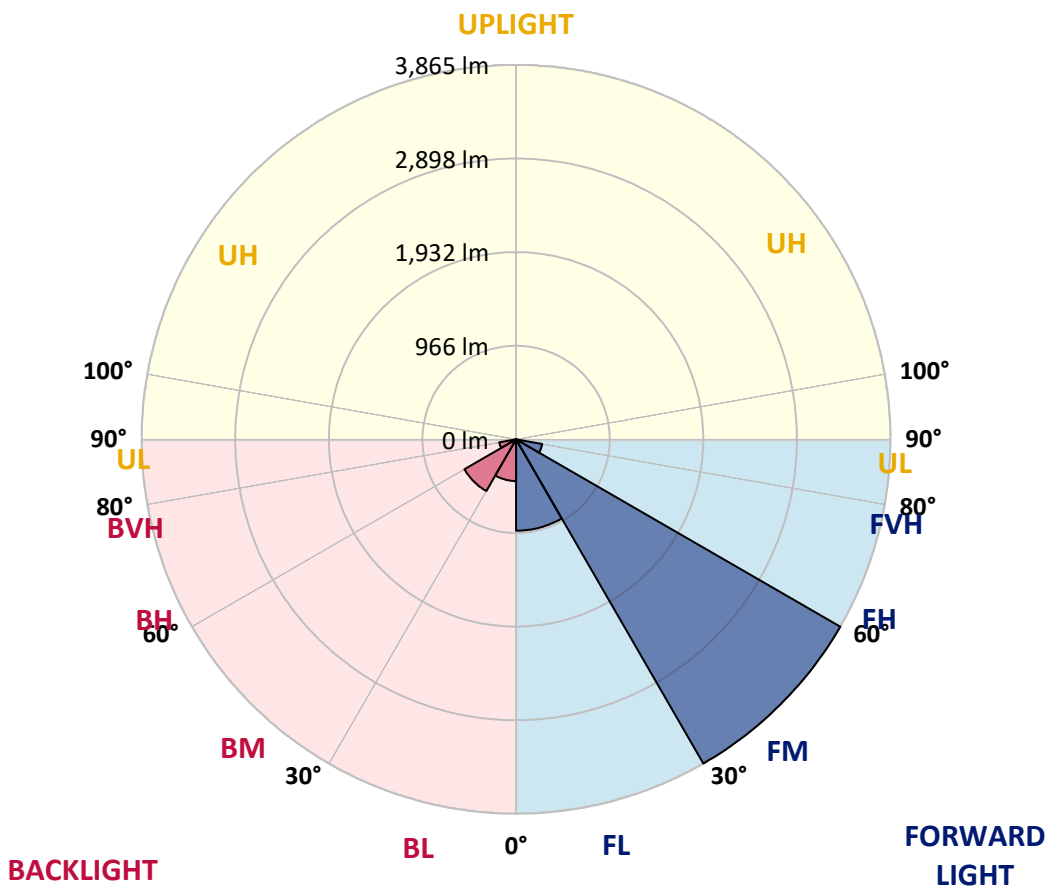
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	942.8	14.9			
FM (30°-60°)	3864.5	61.2			
FH (60°-80°)	273.5	4.3			G0/660
FVH (80°-90°)	5.0	0.1			G0/10
BL (0°-30°)	430.2	6.8	B1/500		
BM (30°-60°)	615.8	9.7	B1/1000		
BH (60°-80°)	176.5	2.8	B1/500		G1/500
BVH (80°-90°)	8.2	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°	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7
2.5°	2095.9	2107.8	2089.4	2082.4	2070.9	2050.9	2028.0	2021.5	1972.1	1939.6	1903.2
5°	2306.5	2313.0	2298.0	2283.0	2254.6	2219.2	2174.7	2165.2	2075.4	2001.0	1923.7
7.5°	2353.4	2350.9	2363.9	2372.4	2368.9	2354.9	2315.5	2297.0	2189.7	2071.9	1957.6
10°	2167.7	2153.8	2201.7	2258.6	2327.0	2405.8	2401.3	2399.8	2306.5	2167.2	2001.0
12.5°	1921.7	1914.7	1953.6	2025.0	2154.3	2329.0	2394.3	2445.3	2411.8	2258.1	2049.4
15°	1780.9	1778.4	1804.9	1856.3	1959.1	2179.7	2319.5	2420.3	2502.2	2355.4	2100.9
17.5°	1755.5	1757.0	1765.9	1795.4	1869.3	2050.9	2212.7	2353.4	2572.5	2462.2	2165.2
20°	1829.8	1839.8	1824.3	1828.8	1868.8	2004.5	2139.8	2286.0	2617.5	2569.5	2234.6
22.5°	1995.0	1991.5	1957.6	1937.6	1938.1	2033.0	2131.8	2254.6	2646.9	2673.9	2297.5
25°	2182.2	2178.2	2137.8	2093.4	2065.4	2110.3	2189.2	2288.0	2673.4	2769.2	2347.9
27.5°	2403.3	2390.9	2345.9	2289.0	2227.1	2246.6	2300.0	2378.4	2714.3	2863.0	2381.4
30°	2617.5	2631.9	2567.5	2500.2	2434.8	2422.8	2453.7	2524.6	2797.6	2972.8	2421.3
32.5°	2901.5	2896.5	2825.1	2737.3	2643.9	2634.9	2659.4	2724.3	2947.4	3124.6	2482.2
35°	3245.4	3246.4	3145.0	3026.2	2893.5	2869.5	2910.5	2973.3	3170.5	3330.2	2578.5
37.5°	3602.7	3601.3	3512.9	3378.1	3197.0	3163.0	3209.9	3256.8	3449.5	3610.2	2728.3
40°	3853.3	3863.3	3821.9	3751.0	3579.3	3496.4	3537.9	3570.3	3753.0	3939.7	2925.4
42.5°	3995.6	4010.5	4019.5	4062.0	3971.6	3883.3	3868.3	3885.3	4024.0	4245.6	3110.6
45°	4026.0	4046.0	4111.4	4268.6	4303.5	4278.6	4229.7	4188.7	4226.2	4462.8	3231.9
47.5°	3891.7	3926.7	4066.4	4341.5	4545.6	4624.0	4569.6	4507.2	4343.0	4518.7	3219.4
50°	3359.7	3400.6	3715.6	4192.7	4580.1	4865.6	4870.6	4778.2	4329.0	4357.4	3062.7
52.5°	2659.9	2687.8	2868.0	3554.3	4242.1	4855.6	5055.2	4956.4	4261.6	4155.8	2866.5
55°	1589.7	1634.7	1802.9	2344.9	3304.8	4303.5	4728.8	4776.7	4228.7	3986.6	2732.8
57.5°	536.6	558.5	719.3	1035.7	1947.6	3151.0	3653.7	3848.3	3838.8	3728.0	2471.7
60°	255.6	260.5	293.0	392.8	779.6	1646.6	2162.7	2387.4	2592.0	2612.5	1537.8
62.5°	194.7	197.7	214.1	235.6	313.5	693.8	991.3	1163.0	1242.3	1066.2	560.0
65°	162.7	165.2	177.7	191.2	213.1	300.5	380.3	438.7	395.3	308.0	267.0
67.5°	135.8	137.8	147.2	161.7	176.7	201.2	211.1	217.1	227.6	255.6	245.6
70°	106.3	108.3	118.3	130.8	145.2	151.2	160.7	166.7	187.7	223.6	222.6
72.5°	81.9	84.4	89.8	97.8	109.8	115.8	126.3	133.3	145.2	174.2	186.2
75°	59.9	61.4	66.4	68.9	70.4	68.9	79.4	87.3	103.3	114.3	117.3
77.5°	24.5	27.5	26.5	26.5	31.4	37.9	43.4	48.4	59.4	65.9	66.4
80°	10.0	11.0	13.0	14.5	17.5	22.5	26.0	28.0	32.9	36.9	39.9
82.5°	6.0	6.5	7.5	8.0	10.0	13.0	15.0	16.5	20.5	24.5	26.0
85°	3.0	3.0	3.5	4.0	5.0	6.0	7.0	8.0	10.5	13.0	14.5
87.5°	0.5	0.5	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	5.0
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°	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7	1880.7
2.5°	1881.7	1854.8	1823.3	1798.4	1769.4	1748.0	1717.5	1698.6	1680.6	1665.6	1654.6
5°	1883.7	1838.3	1772.9	1715.0	1655.1	1598.2	1539.8	1492.4	1450.0	1414.5	1411.6
7.5°	1895.2	1829.8	1727.5	1626.2	1509.4	1396.6	1283.8	1191.9	1122.1	1085.6	1078.1
10°	1914.7	1828.8	1681.1	1519.4	1320.2	1138.5	1004.8	934.9	894.4	880.0	875.0
12.5°	1935.1	1826.3	1621.7	1368.6	1092.1	932.9	859.5	851.0	858.5	859.5	859.0
15°	1960.1	1824.8	1546.8	1191.9	925.4	837.5	842.5	860.5	878.0	882.0	882.0
17.5°	1990.5	1821.3	1445.0	1019.2	821.1	819.1	845.5	869.5	886.0	889.0	889.0
20°	2022.5	1812.4	1319.7	878.5	778.6	807.6	836.0	854.5	866.0	870.0	870.5
22.5°	2044.5	1788.4	1175.5	774.2	752.2	785.6	806.1	825.1	825.1	815.1	812.1
25°	2048.9	1737.0	1019.2	702.8	720.7	751.7	772.7	761.7	741.2	733.2	732.7
27.5°	2032.5	1662.1	865.0	651.9	682.8	713.8	710.3	694.3	685.3	677.3	680.3
30°	2012.5	1572.3	731.2	609.9	638.9	669.3	657.4	651.9	645.4	636.4	638.4
32.5°	1999.0	1471.9	628.4	577.5	609.4	614.4	622.9	622.4	616.4	599.5	598.5
35°	2003.0	1370.6	559.5	551.0	585.0	583.0	599.0	596.0	554.5	531.1	529.6
37.5°	2035.0	1273.3	519.1	530.1	546.1	558.5	572.5	536.6	522.1	507.1	508.1
40°	2095.9	1182.9	497.1	518.6	522.6	541.1	508.6	508.1	501.6	488.2	487.7
42.5°	2164.7	1106.6	482.2	513.1	507.6	511.1	476.7	480.7	480.2	471.7	469.2
45°	2206.7	1036.2	470.2	492.6	494.1	459.2	448.7	453.2	455.7	451.2	450.7
47.5°	2163.2	955.3	457.7	461.2	474.2	435.7	422.8	423.3	427.8	428.3	426.3
50°	2041.5	865.0	442.7	434.2	425.8	411.3	399.3	396.8	401.3	405.8	407.3
52.5°	1884.2	778.6	417.8	404.8	384.8	384.8	379.3	371.4	377.3	383.3	385.3
55°	1768.9	714.8	382.3	367.9	345.9	353.4	352.4	345.4	353.4	357.9	359.4
57.5°	1532.8	574.5	336.4	331.9	313.5	322.4	324.4	315.5	311.5	312.5	314.0
60°	909.9	370.9	303.5	303.0	286.5	297.0	303.0	294.0	282.0	283.5	285.5
62.5°	408.3	283.5	262.0	260.0	259.5	273.0	279.5	271.0	254.1	255.6	257.6
65°	257.1	245.1	227.6	227.6	235.6	247.1	252.1	245.1	225.6	223.1	225.1
67.5°	238.6	228.1	210.1	206.6	210.6	220.1	220.6	207.1	195.7	193.7	193.7
70°	214.1	206.1	188.7	181.7	180.2	179.7	178.2	174.7	167.2	165.2	166.2
72.5°	177.2	171.7	160.7	153.2	149.2	148.7	142.8	139.8	133.3	132.3	131.8
75°	117.3	118.8	118.8	117.8	114.3	112.8	106.3	103.3	95.8	92.8	92.3
77.5°	69.4	70.9	72.9	73.4	72.9	72.9	66.9	63.4	55.9	51.9	50.9
80°	42.4	43.4	44.4	45.9	43.9	42.4	36.9	33.4	29.9	27.5	27.0
82.5°	27.5	28.5	28.9	29.9	28.9	27.0	22.5	20.5	18.0	16.0	15.5
85°	15.5	16.0	17.0	17.0	15.5	14.0	11.5	10.0	8.5	7.5	7.5
87.5°	5.5	5.5	5.5	6.0	5.0	4.5	3.0	2.0	1.5	1.5	1.5
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)