

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: P630708

Luminaire Tested: GWS-SA1E-730-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630708
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-SA1E-730-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) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6259.9 lumens
Efficiency: N/A
Efficacy: 107.2 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

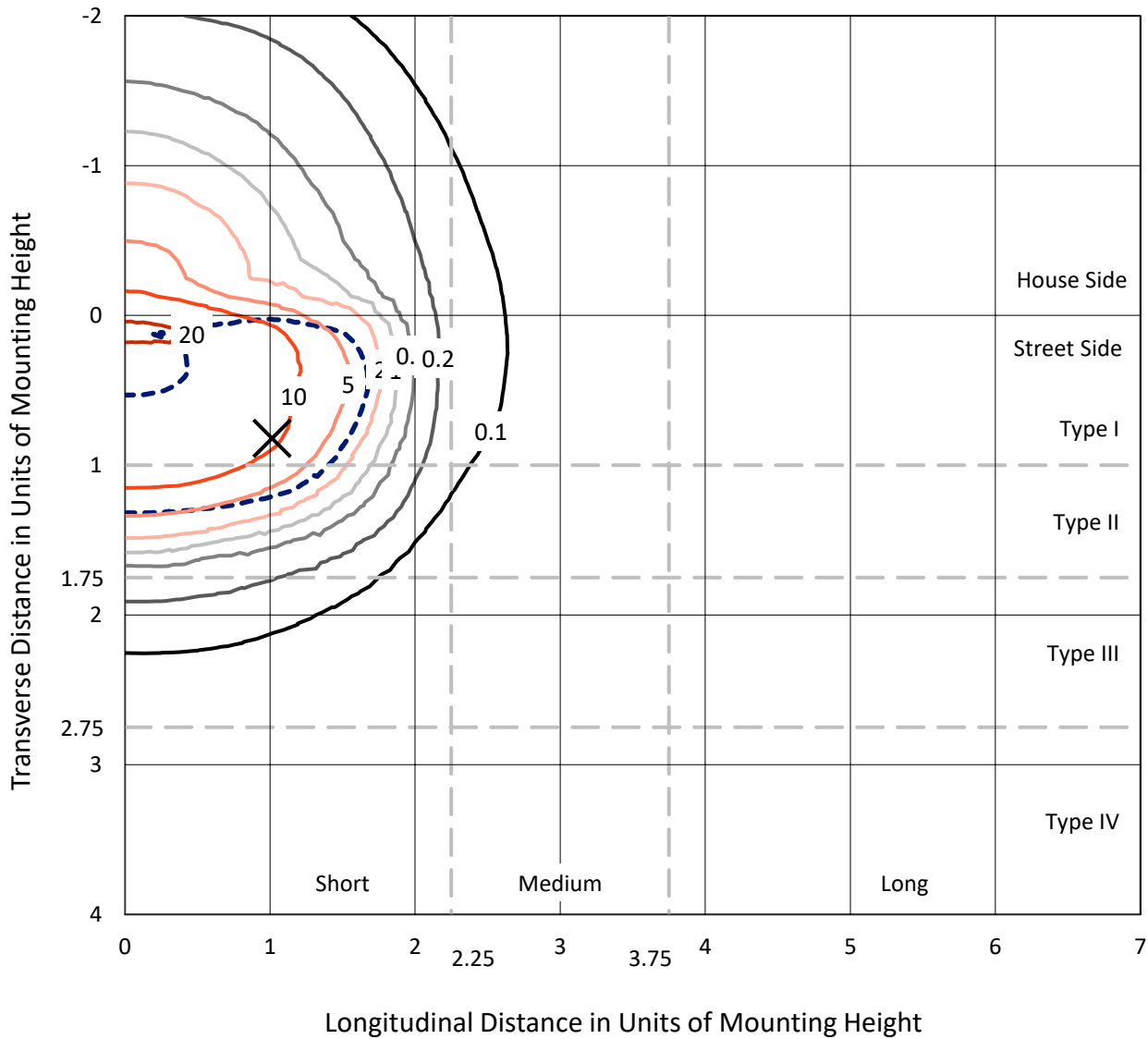
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

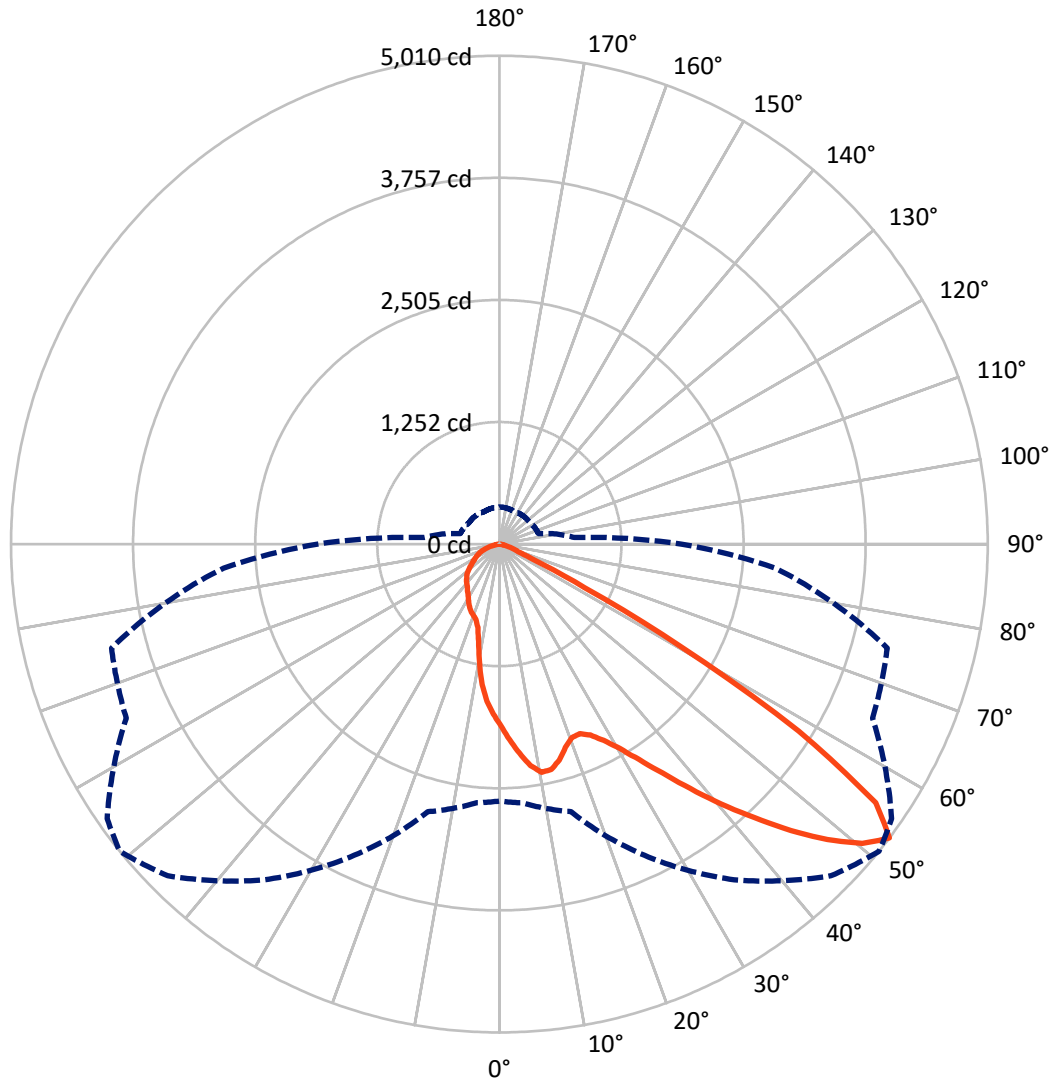
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 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
House Side	Lumens	1219.7	0.0	1219.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	5040.2	0.0	5040.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	6259.9	0.0	6259.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	2.8
10°-20°	451.9	7.2
20°-30°	734.8	11.7
30°-40°	1164.5	18.6
40°-50°	1756.3	28.1
50°-60°	1519.3	24.3
60°-70°	344.5	5.5
70°-80°	101.6	1.6
80°-90°	13.1	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°	6259.9	100.0
0°-180°	6259.9	100.0

Coefficient of Utilization



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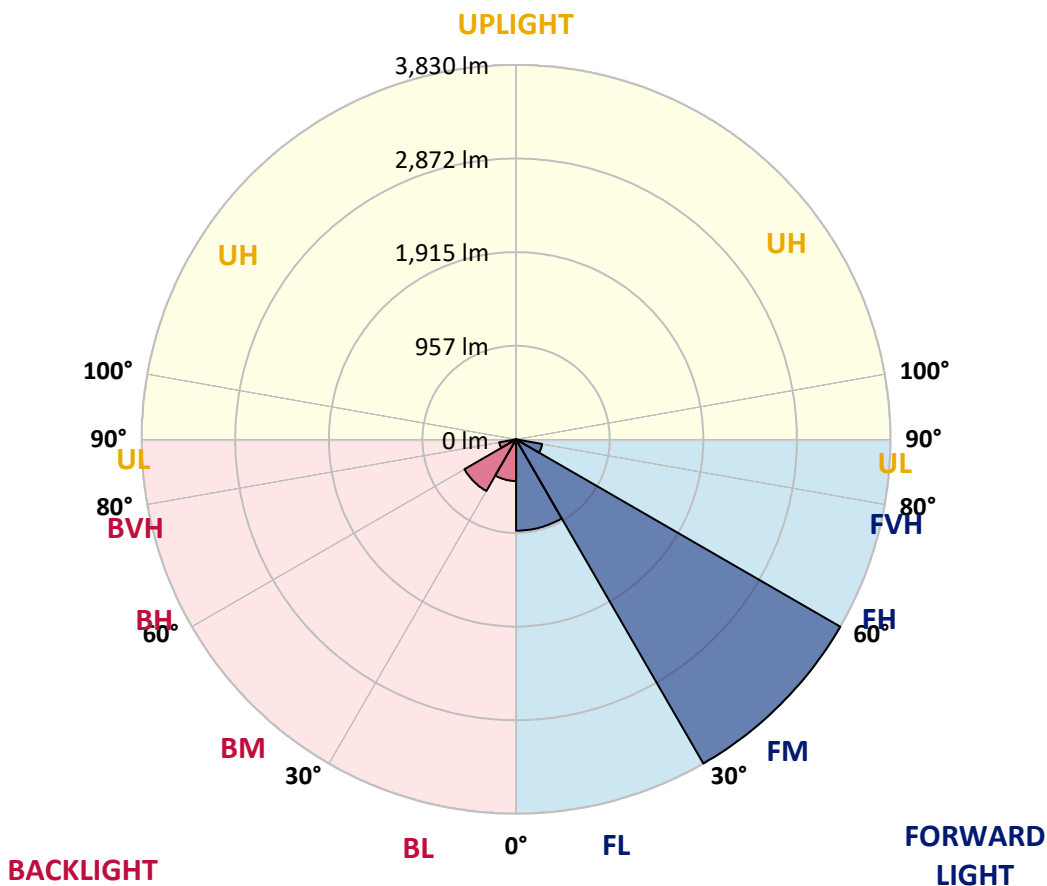
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	934.3	14.9			
FM (30°-60°)	3829.9	61.2			
FH (60°-80°)	271.1	4.3			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	426.4	6.8	B1/500		
BM (30°-60°)	610.3	9.7	B1/1000		
BH (60°-80°)	174.9	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°	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9
2.5°	2077.1	2089.0	2070.7	2063.7	2052.4	2032.6	2009.8	2003.4	1954.4	1922.3	1886.1
5°	2285.8	2292.3	2277.4	2262.6	2234.4	2199.3	2155.2	2145.8	2056.8	1983.1	1906.4
7.5°	2332.3	2329.9	2342.7	2351.1	2347.7	2333.8	2294.7	2276.4	2170.1	2053.3	1940.1
10°	2148.3	2134.5	2182.0	2238.3	2306.1	2384.3	2379.8	2378.3	2285.8	2147.8	1983.1
12.5°	1904.4	1897.5	1936.1	2006.8	2135.0	2308.1	2372.9	2423.3	2390.2	2237.8	2031.1
15°	1765.0	1762.5	1788.7	1839.6	1941.5	2160.2	2298.7	2398.6	2479.7	2334.3	2082.0
17.5°	1739.7	1741.2	1750.1	1779.3	1852.5	2032.6	2192.8	2332.3	2549.5	2440.2	2145.8
20°	1813.4	1823.3	1808.0	1812.4	1852.0	1986.6	2120.6	2265.5	2594.0	2546.5	2214.6
22.5°	1977.2	1973.7	1940.1	1920.3	1920.8	2014.8	2112.7	2234.4	2623.2	2649.9	2276.9
25°	2162.7	2158.7	2118.6	2074.6	2046.9	2091.4	2169.6	2267.5	2649.4	2744.4	2326.9
27.5°	2381.8	2369.4	2324.9	2268.5	2207.2	2226.5	2279.4	2357.1	2690.0	2837.4	2360.0
30°	2594.0	2608.4	2544.5	2477.8	2413.0	2401.1	2431.8	2502.0	2772.6	2946.2	2399.6
32.5°	2875.5	2870.5	2799.8	2712.7	2620.2	2611.3	2635.6	2699.9	2921.0	3096.6	2460.0
35°	3216.3	3217.3	3116.9	2999.1	2867.6	2843.8	2884.4	2946.7	3142.1	3300.4	2555.4
37.5°	3570.5	3569.0	3481.4	3347.9	3168.3	3134.7	3181.2	3227.7	3418.6	3577.9	2703.8
40°	3818.8	3828.7	3787.6	3717.4	3547.2	3465.1	3506.2	3538.3	3719.4	3904.4	2899.2
42.5°	3959.8	3974.6	3983.5	4025.6	3936.0	3848.5	3833.6	3850.4	3988.0	4207.6	3082.7
45°	3989.9	4009.7	4074.5	4230.3	4265.0	4240.2	4191.8	4151.2	4188.3	4422.8	3202.9
47.5°	3856.9	3891.5	4030.0	4302.6	4504.9	4582.5	4528.6	4466.8	4304.0	4478.2	3190.6
50°	3329.6	3370.1	3682.3	4155.2	4539.0	4822.0	4826.9	4735.4	4290.2	4318.4	3035.2
52.5°	2636.1	2663.8	2842.3	3522.5	4204.1	4812.1	5009.9	4912.0	4223.4	4118.6	2840.8
55°	1575.5	1620.0	1786.7	2323.9	3275.2	4265.0	4686.4	4733.9	4190.8	3950.9	2708.3
57.5°	531.8	553.5	712.8	1026.4	1930.2	3122.8	3620.9	3813.8	3804.4	3694.6	2449.6
60°	253.3	258.2	290.4	389.3	772.7	1631.9	2143.4	2366.0	2568.8	2589.1	1524.1
62.5°	192.9	195.9	212.2	233.5	310.6	687.6	982.4	1152.6	1231.2	1056.6	555.0
65°	161.3	163.7	176.1	189.5	211.2	297.8	376.9	434.8	391.8	305.2	264.6
67.5°	134.5	136.5	145.9	160.3	175.1	199.3	209.2	215.2	225.6	253.3	243.4
70°	105.4	107.3	117.2	129.6	143.9	149.9	159.3	165.2	186.0	221.6	220.6
72.5°	81.1	83.6	89.0	97.0	108.8	114.8	125.1	132.1	143.9	172.6	184.5
75°	59.4	60.8	65.8	68.3	69.7	68.3	78.7	86.6	102.4	113.3	116.2
77.5°	24.2	27.2	26.2	26.2	31.2	37.6	43.0	48.0	58.9	65.3	65.8
80°	9.9	10.9	12.9	14.3	17.3	22.3	25.7	27.7	32.6	36.6	39.6
82.5°	5.9	6.4	7.4	7.9	9.9	12.9	14.8	16.3	20.3	24.2	25.7
85°	3.0	3.0	3.5	4.0	4.9	5.9	6.9	7.9	10.4	12.9	14.3
87.5°	0.5	0.5	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.9
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°	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9	1863.9
2.5°	1864.9	1838.2	1807.0	1782.3	1753.6	1732.3	1702.1	1683.3	1665.5	1650.7	1639.8
5°	1866.9	1821.8	1757.0	1699.7	1640.3	1583.9	1526.0	1479.0	1437.0	1401.9	1398.9
7.5°	1878.2	1813.4	1712.0	1611.6	1495.9	1384.1	1272.3	1181.3	1112.0	1075.9	1068.5
10°	1897.5	1812.4	1666.0	1505.7	1308.4	1128.3	995.8	926.5	886.4	872.1	867.1
12.5°	1917.8	1810.0	1607.2	1356.4	1082.3	924.5	851.8	843.4	850.8	851.8	851.3
15°	1942.5	1808.5	1533.0	1181.3	917.1	830.0	835.0	852.8	870.1	874.1	874.1
17.5°	1972.7	1805.0	1432.0	1010.1	813.7	811.7	838.0	861.7	878.0	881.0	881.0
20°	2004.4	1796.1	1307.9	870.6	771.7	800.4	828.6	846.9	858.2	862.2	862.7
22.5°	2026.1	1772.4	1164.9	767.2	745.5	778.6	798.9	817.7	817.7	807.8	804.8
25°	2030.6	1721.4	1010.1	696.5	714.3	745.0	765.7	754.9	734.6	726.7	726.2
27.5°	2014.3	1647.2	857.2	646.0	676.7	707.4	703.9	688.1	679.2	671.3	674.2
30°	1994.5	1558.2	724.7	604.5	633.2	663.3	651.5	646.0	639.6	630.7	632.7
32.5°	1981.1	1458.8	622.8	572.3	604.0	608.9	617.3	616.8	610.9	594.1	593.1
35°	1985.1	1358.3	554.5	546.1	579.7	577.8	593.6	590.6	549.6	526.3	524.8
37.5°	2016.7	1261.9	514.4	525.3	541.2	553.5	567.4	531.8	517.4	502.6	503.6
40°	2077.1	1172.3	492.7	514.0	517.9	536.2	504.1	503.6	497.1	483.8	483.3
42.5°	2145.3	1096.7	477.8	508.5	503.1	506.5	472.4	476.4	475.9	467.5	465.0
45°	2186.9	1026.9	466.0	488.2	489.7	455.1	444.7	449.2	451.6	447.2	446.7
47.5°	2143.9	946.8	453.6	457.1	469.9	431.8	419.0	419.5	423.9	424.4	422.4
50°	2023.2	857.2	438.8	430.4	421.9	407.6	395.7	393.3	397.7	402.2	403.6
52.5°	1867.3	771.7	414.0	401.2	381.4	381.4	375.9	368.0	374.0	379.9	381.9
55°	1753.1	708.4	378.9	364.6	342.8	350.2	349.2	342.3	350.2	354.7	356.2
57.5°	1519.1	569.4	333.4	328.9	310.6	319.6	321.5	312.6	308.7	309.7	311.1
60°	901.8	367.5	300.8	300.3	283.9	294.3	300.3	291.4	279.5	281.0	282.9
62.5°	404.6	281.0	259.7	257.7	257.2	270.6	277.0	268.6	251.8	253.3	255.2
65°	254.8	242.9	225.6	225.6	233.5	244.9	249.8	242.9	223.6	221.1	223.1
67.5°	236.4	226.1	208.3	204.8	208.7	218.1	218.6	205.3	193.9	191.9	191.9
70°	212.2	204.3	187.0	180.1	178.6	178.1	176.6	173.1	165.7	163.7	164.7
72.5°	175.6	170.2	159.3	151.9	147.9	147.4	141.5	138.5	132.1	131.1	130.6
75°	116.2	117.7	117.7	116.7	113.3	111.8	105.4	102.4	95.0	92.0	91.5
77.5°	68.8	70.2	72.2	72.7	72.2	72.2	66.3	62.8	55.4	51.4	50.5
80°	42.0	43.0	44.0	45.5	43.5	42.0	36.6	33.1	29.7	27.2	26.7
82.5°	27.2	28.2	28.7	29.7	28.7	26.7	22.3	20.3	17.8	15.8	15.3
85°	15.3	15.8	16.8	16.8	15.3	13.9	11.4	9.9	8.4	7.4	7.4
87.5°	5.4	5.4	5.4	5.9	4.9	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)