

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: P632083

Luminaire Tested: GWS-SA2C-722-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632083
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-SA2C-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6184.7 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

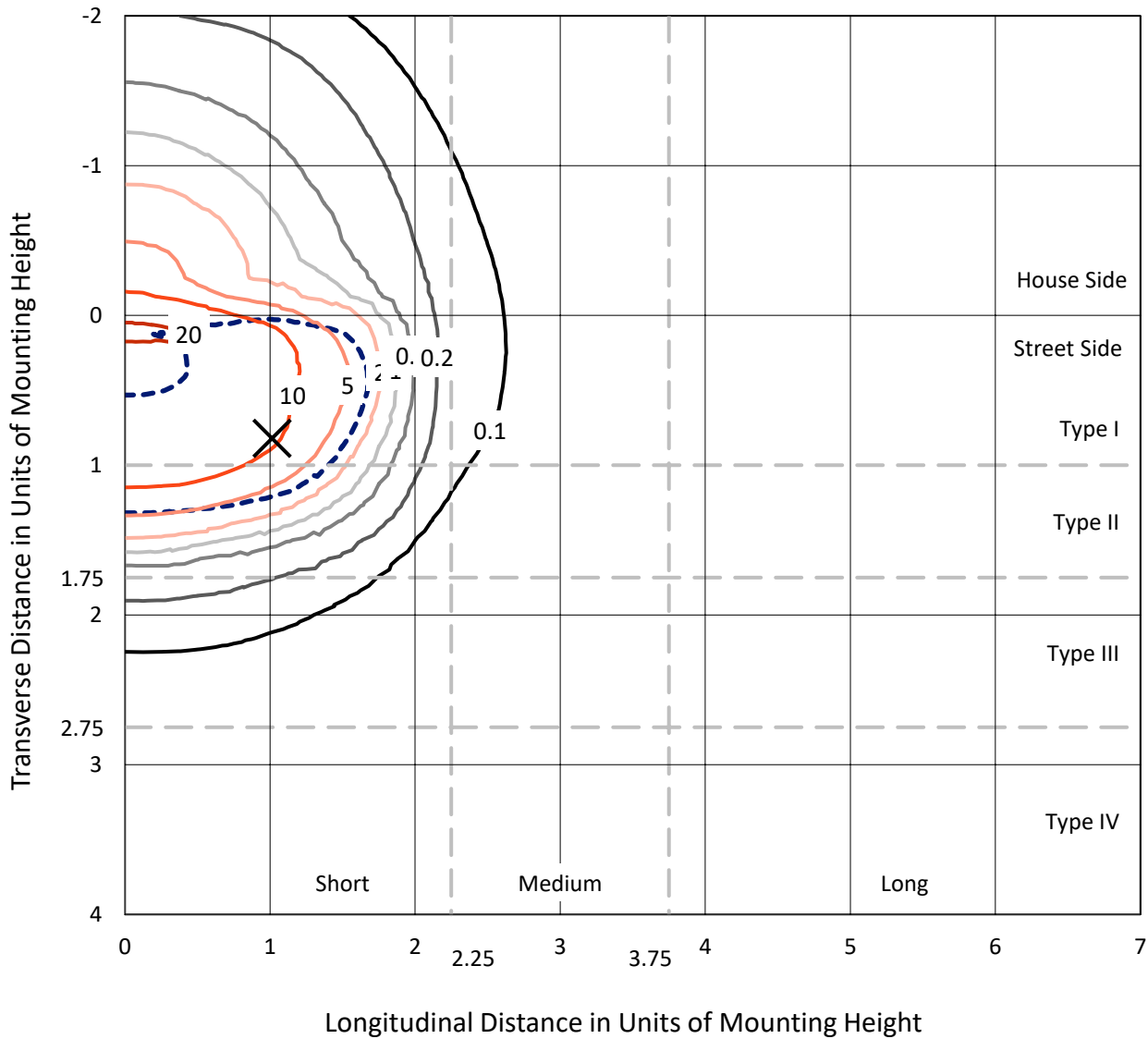
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

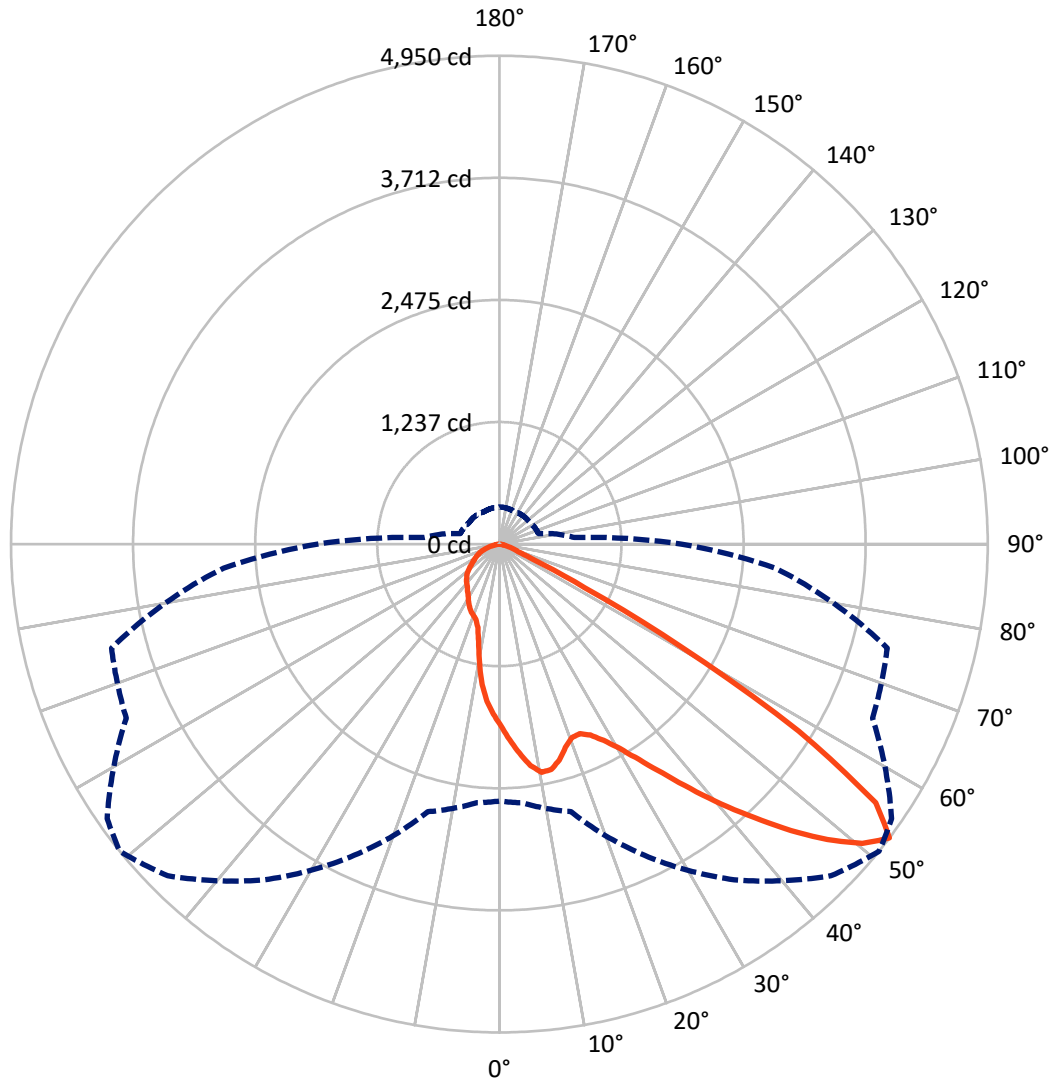
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.5 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
House Side	Lumens	1205.0	0.0	1205.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4979.7	0.0	4979.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	6184.7	0.0	6184.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	2.8
10°-20°	446.5	7.2
20°-30°	726.0	11.7
30°-40°	1150.5	18.6
40°-50°	1735.2	28.1
50°-60°	1501.1	24.3
60°-70°	340.3	5.5
70°-80°	100.3	1.6
80°-90°	12.9	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°	6184.7	100.0
0°-180°	6184.7	100.0

Coefficient of Utilization



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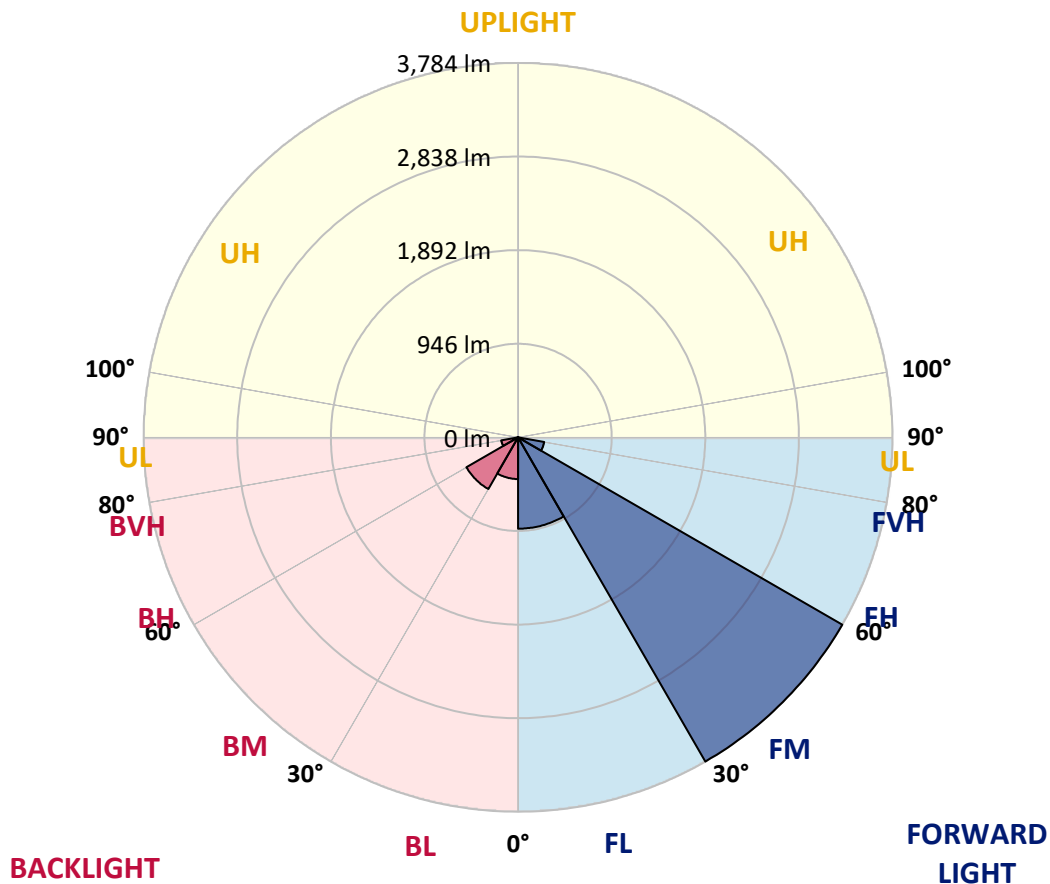
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	923.1	14.9			
FM (30°-60°)	3783.9	61.2			
FH (60°-80°)	267.8	4.3			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	421.2	6.8	B1/500		
BM (30°-60°)	602.9	9.7	B1/1000		
BH (60°-80°)	172.8	2.8	B1/500		G1/500
BVH (80°-90°)	8.1	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°	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5
2.5°	2052.1	2063.9	2045.8	2038.9	2027.7	2008.1	1985.7	1979.3	1930.9	1899.2	1863.5
5°	2258.4	2264.7	2250.1	2235.4	2207.5	2172.8	2129.3	2120.1	2032.1	1959.3	1883.5
7.5°	2304.3	2301.9	2314.6	2322.9	2319.5	2305.8	2267.2	2249.1	2144.0	2028.7	1916.8
10°	2122.5	2108.8	2155.7	2211.5	2278.4	2355.6	2351.2	2349.8	2258.4	2122.0	1959.3
12.5°	1881.6	1874.7	1912.8	1982.7	2109.3	2280.4	2344.4	2394.2	2361.5	2211.0	2006.7
15°	1743.7	1741.3	1767.2	1817.5	1918.2	2134.2	2271.1	2369.8	2449.9	2306.3	2057.0
17.5°	1718.8	1720.3	1729.1	1757.9	1830.3	2008.1	2166.5	2304.3	2518.9	2410.9	2120.1
20°	1791.6	1801.4	1786.3	1790.7	1829.8	1962.7	2095.1	2238.3	2562.8	2515.9	2188.0
22.5°	1953.4	1950.0	1916.8	1897.2	1897.7	1990.6	2087.3	2207.5	2591.7	2618.1	2249.6
25°	2136.7	2132.8	2093.2	2049.7	2022.3	2066.3	2143.5	2240.3	2617.6	2711.4	2298.9
27.5°	2353.2	2341.0	2297.0	2241.3	2180.7	2199.7	2252.0	2328.7	2657.7	2803.3	2331.7
30°	2562.8	2577.0	2514.0	2448.0	2384.0	2372.2	2402.5	2471.9	2739.3	2910.8	2370.8
32.5°	2840.9	2836.0	2766.2	2680.1	2588.7	2579.9	2603.9	2667.4	2885.9	3059.4	2430.4
35°	3177.7	3178.6	3079.4	2963.1	2833.1	2809.6	2849.7	2911.3	3104.3	3260.7	2524.7
37.5°	3527.6	3526.1	3439.6	3307.7	3130.2	3097.0	3143.0	3188.9	3377.5	3534.9	2671.3
40°	3772.9	3782.7	3742.1	3672.7	3504.6	3423.5	3464.0	3495.8	3674.7	3857.5	2864.4
42.5°	3912.2	3926.9	3935.7	3977.2	3888.7	3802.2	3787.6	3804.2	3940.1	4157.0	3045.7
45°	3942.0	3961.6	4025.6	4179.5	4213.7	4189.3	4141.4	4101.3	4138.0	4369.6	3164.5
47.5°	3810.5	3844.8	3981.6	4250.9	4450.8	4527.5	4474.2	4413.1	4252.3	4424.4	3152.2
50°	3289.6	3329.6	3638.0	4105.2	4484.5	4764.0	4768.9	4678.5	4238.7	4266.5	2998.8
52.5°	2604.4	2631.8	2808.2	3480.2	4153.6	4754.3	4949.7	4853.0	4172.7	4069.1	2806.7
55°	1556.6	1600.6	1765.3	2296.0	3235.8	4213.7	4630.1	4677.0	4140.4	3903.4	2675.7
57.5°	525.4	546.9	704.2	1014.1	1907.0	3085.3	3577.4	3768.0	3758.7	3650.2	2420.1
60°	250.2	255.1	286.9	384.6	763.4	1612.3	2117.6	2337.5	2537.9	2558.0	1505.7
62.5°	190.6	193.5	209.7	230.7	306.9	679.3	970.6	1138.7	1216.4	1043.9	548.3
65°	159.3	161.8	174.0	187.2	208.7	294.2	372.4	429.6	387.1	301.5	261.5
67.5°	132.9	134.9	144.2	158.3	173.0	197.0	206.7	212.6	222.9	250.2	240.4
70°	104.1	106.1	115.8	128.0	142.2	148.1	157.4	163.2	183.8	218.9	218.0
72.5°	80.1	82.6	88.0	95.8	107.5	113.4	123.6	130.5	142.2	170.6	182.3
75°	58.6	60.1	65.0	67.4	68.9	67.4	77.7	85.5	101.2	111.9	114.8
77.5°	23.9	26.9	25.9	25.9	30.8	37.1	42.5	47.4	58.2	64.5	65.0
80°	9.8	10.8	12.7	14.2	17.1	22.0	25.4	27.4	32.3	36.2	39.1
82.5°	5.9	6.4	7.3	7.8	9.8	12.7	14.7	16.1	20.0	23.9	25.4
85°	2.9	2.9	3.4	3.9	4.9	5.9	6.8	7.8	10.3	12.7	14.2
87.5°	0.5	0.5	0.5	1.0	1.5	2.0	2.4	2.9	3.4	3.9	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°	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5	1841.5
2.5°	1842.5	1816.1	1785.3	1760.9	1732.5	1711.5	1681.7	1663.1	1645.5	1630.9	1620.1
5°	1844.4	1800.0	1735.9	1679.2	1620.6	1564.9	1507.7	1461.3	1419.7	1385.0	1382.1
7.5°	1855.7	1791.6	1691.5	1592.2	1477.9	1367.4	1257.0	1167.1	1098.6	1063.0	1055.6
10°	1874.7	1790.7	1646.0	1487.7	1292.7	1114.8	983.8	915.4	875.8	861.6	856.7
12.5°	1894.8	1788.2	1587.8	1340.1	1069.3	913.4	841.6	833.3	840.6	841.6	841.1
15°	1919.2	1786.8	1514.5	1167.1	906.1	820.1	825.0	842.6	859.7	863.6	863.6
17.5°	1949.0	1783.3	1414.8	998.0	803.9	802.0	827.9	851.3	867.5	870.4	870.4
20°	1980.3	1774.5	1292.2	860.1	762.4	790.7	818.6	836.7	847.9	851.8	852.3
22.5°	2001.8	1751.1	1150.9	758.0	736.5	769.2	789.3	807.9	807.9	798.1	795.1
25°	2006.2	1700.7	998.0	688.1	705.7	736.0	756.5	745.8	725.7	717.9	717.4
27.5°	1990.1	1627.4	847.0	638.3	668.6	698.9	695.4	679.8	671.0	663.2	666.1
30°	1970.5	1539.5	716.0	597.2	625.6	655.4	643.6	638.3	631.9	623.1	625.1
32.5°	1957.3	1441.2	615.3	565.4	596.7	601.6	609.9	609.4	603.6	587.0	586.0
35°	1961.2	1342.0	547.9	539.5	572.8	570.8	586.5	583.5	543.0	520.0	518.5
37.5°	1992.5	1246.7	508.3	519.0	534.7	546.9	560.6	525.4	511.2	496.5	497.5
40°	2052.1	1158.3	486.8	507.8	511.7	529.8	498.0	497.5	491.2	478.0	477.5
42.5°	2119.6	1083.5	472.1	502.4	497.0	500.4	466.7	470.6	470.1	461.8	459.4
45°	2160.6	1014.6	460.4	482.4	483.8	449.6	439.4	443.8	446.2	441.8	441.3
47.5°	2118.1	935.4	448.2	451.6	464.3	426.7	413.9	414.4	418.8	419.3	417.4
50°	1998.9	847.0	433.5	425.2	416.9	402.7	391.0	388.5	392.9	397.3	398.8
52.5°	1844.9	762.4	409.1	396.4	376.8	376.8	371.4	363.6	369.5	375.3	377.3
55°	1732.0	699.8	374.4	360.2	338.7	346.0	345.0	338.2	346.0	350.4	351.9
57.5°	1500.9	562.5	329.4	325.0	306.9	315.7	317.7	308.9	305.0	305.9	307.4
60°	890.9	363.1	297.1	296.7	280.5	290.8	296.7	287.9	276.1	277.6	279.5
62.5°	399.8	277.6	256.6	254.6	254.1	267.3	273.7	265.4	248.8	250.2	252.2
65°	251.7	240.0	222.9	222.9	230.7	241.9	246.8	240.0	220.9	218.5	220.4
67.5°	233.6	223.3	205.8	202.3	206.2	215.5	216.0	202.8	191.6	189.6	189.6
70°	209.7	201.8	184.7	177.9	176.4	175.9	174.5	171.1	163.7	161.8	162.7
72.5°	173.5	168.1	157.4	150.0	146.1	145.6	139.8	136.8	130.5	129.5	129.0
75°	114.8	116.3	116.3	115.3	111.9	110.5	104.1	101.2	93.8	90.9	90.4
77.5°	67.9	69.4	71.4	71.8	71.4	71.4	65.5	62.1	54.7	50.8	49.8
80°	41.5	42.5	43.5	45.0	43.0	41.5	36.2	32.7	29.3	26.9	26.4
82.5°	26.9	27.9	28.3	29.3	28.3	26.4	22.0	20.0	17.6	15.6	15.2
85°	15.2	15.6	16.6	16.6	15.2	13.7	11.2	9.8	8.3	7.3	7.3
87.5°	5.4	5.4	5.4	5.9	4.9	4.4	2.9	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)