

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: P631834

Luminaire Tested: GWS-SA2B-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5753.7 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

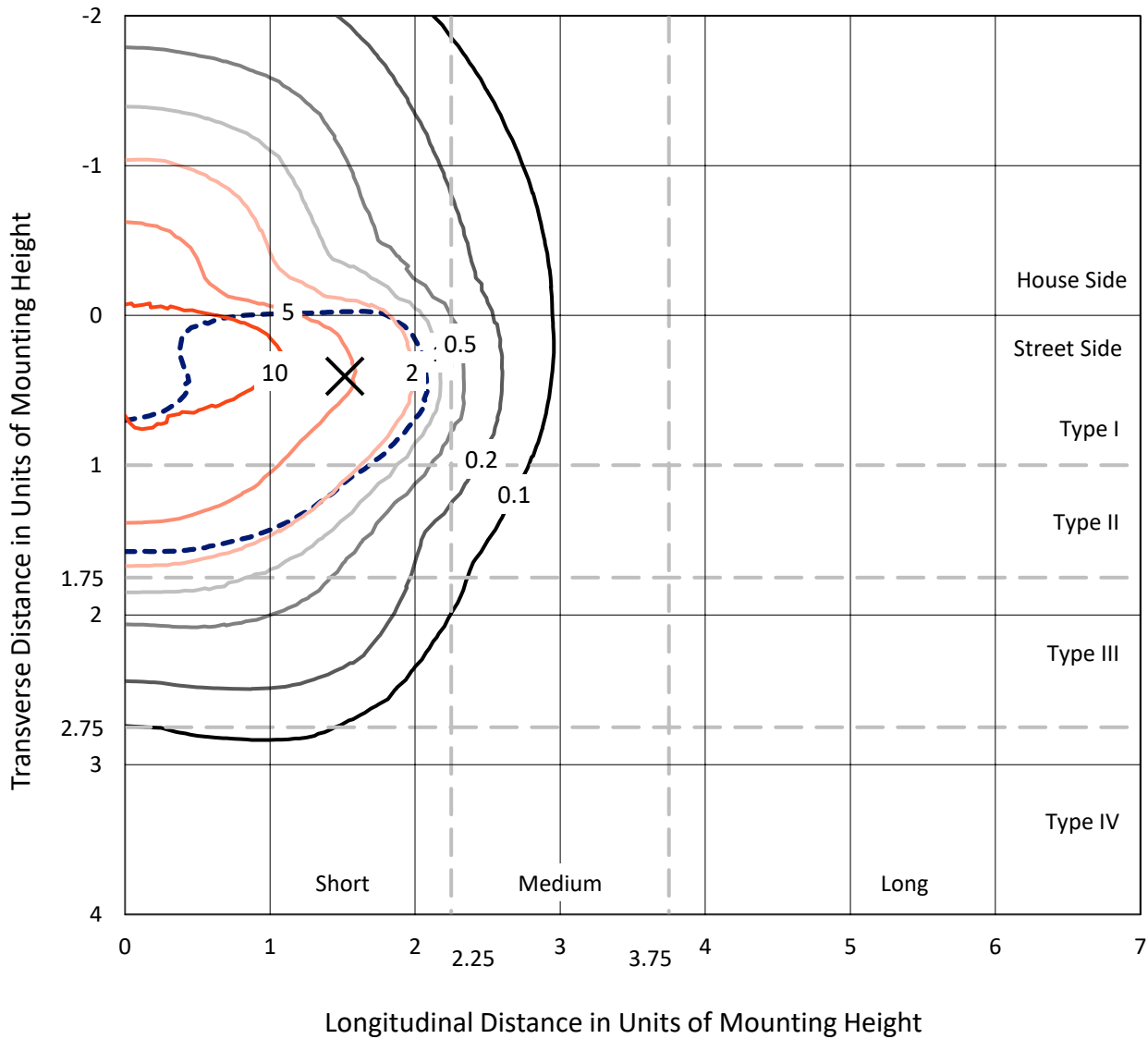
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

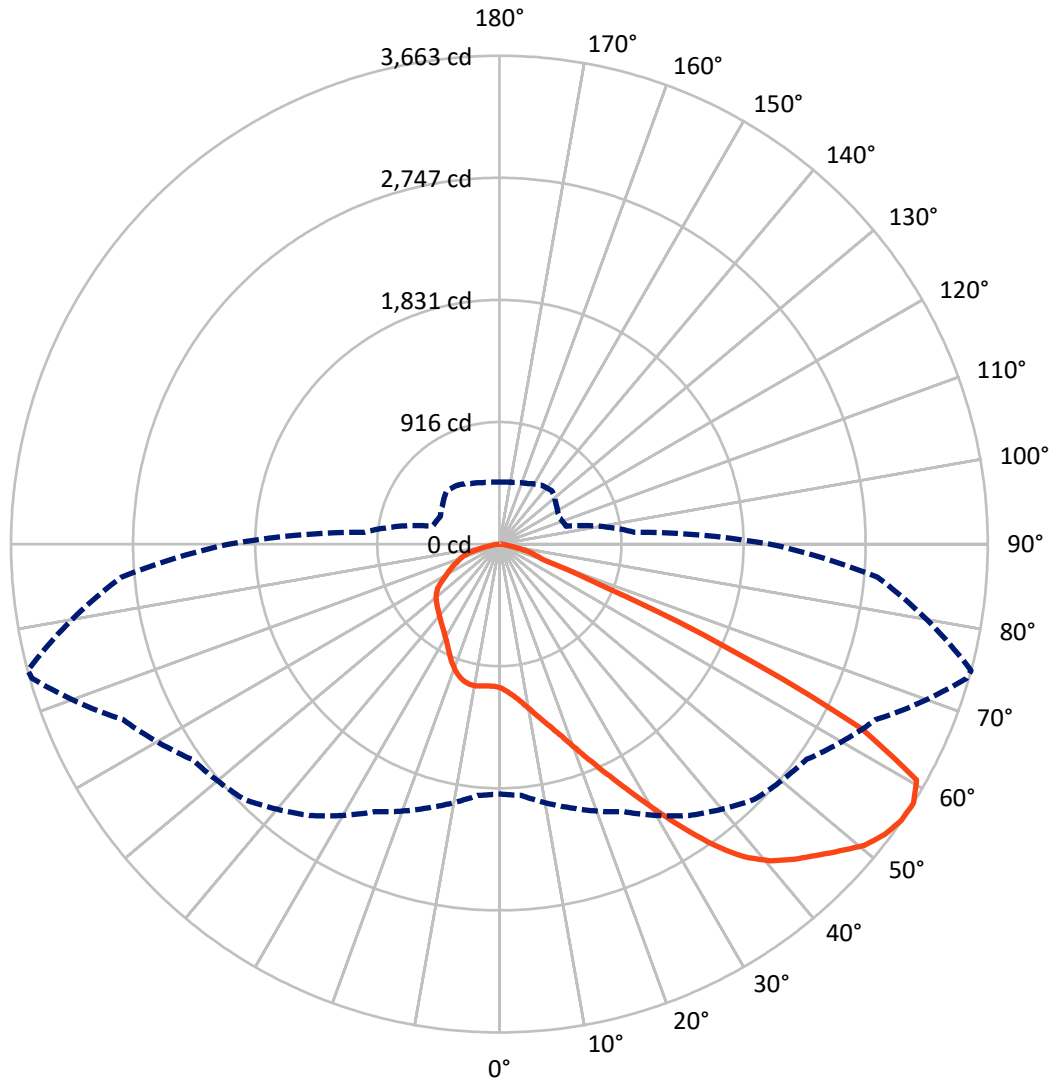
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

REPORT NUMBER: P631834
CATALOG NUMBER: GWS-SA2B-740-U-T2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P631834

CATALOG NUMBER: GWS-SA2B-740-U-T2-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1556.5	0.0	1556.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	4197.2	0.0	4197.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	5753.7	0.0	5753.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	1.9
10°-20°	343.3	6.0
20°-30°	608.8	10.6
30°-40°	932.0	16.2
40°-50°	1297.8	22.6
50°-60°	1487.0	25.8
60°-70°	764.0	13.3
70°-80°	192.3	3.3
80°-90°	20.6	0.4
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°	5753.7	100.0
0°-180°	5753.7	100.0

Coefficient of Utilization



REPORT NUMBER: P631834

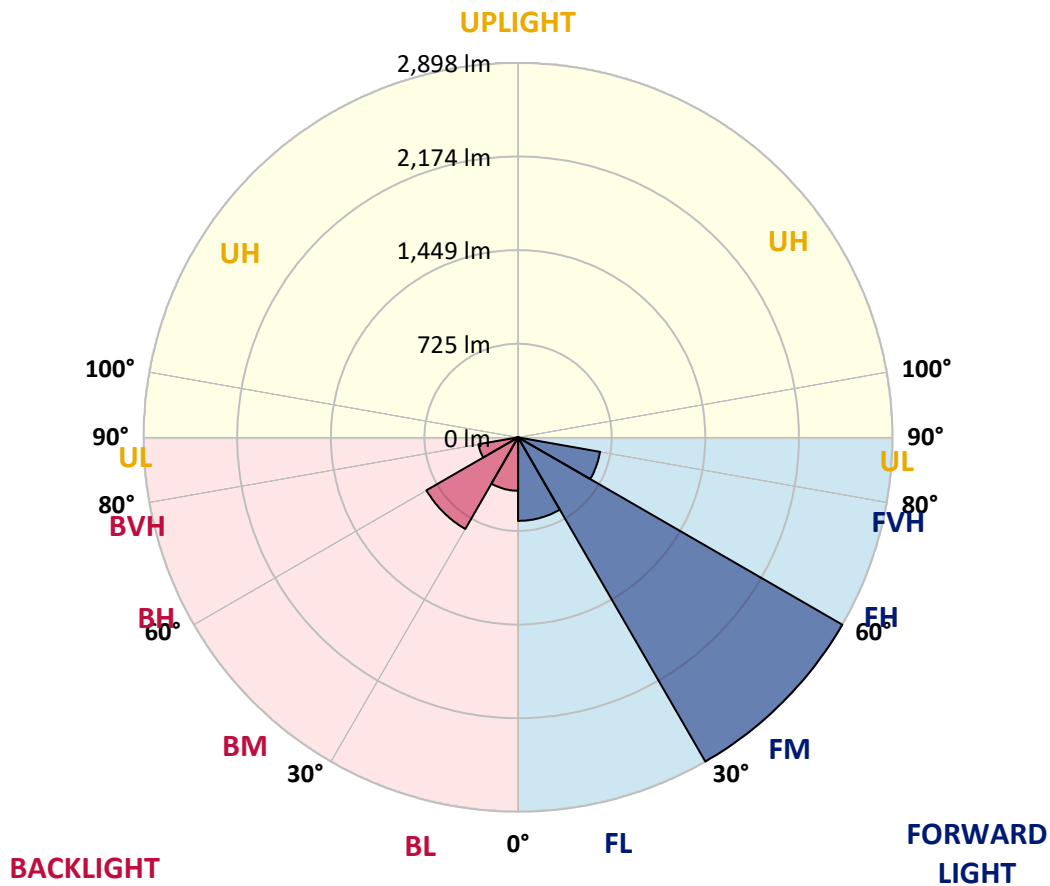
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.5	11.2			
FM (30°-60°)	2898.2	50.4			
FH (60°-80°)	644.9	11.2			G0/660
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	413.5	7.2	B1/500		
BM (30°-60°)	818.6	14.2	B1/1000		
BH (60°-80°)	311.5	5.4	B1/500		G1/500
BVH (80°-90°)	13.0	0.2			G1/100
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





REPORT NUMBER: P631834

CATALOG NUMBER: GWS-SA2B-740-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5
2.5°	1157.7	1160.6	1157.7	1162.6	1152.7	1148.3	1137.4	1121.1	1108.2	1106.2	1091.9
5°	1247.7	1254.1	1250.2	1248.2	1234.9	1225.0	1208.6	1176.0	1149.3	1145.3	1117.1
7.5°	1305.6	1310.1	1310.1	1311.5	1306.6	1295.2	1277.9	1239.3	1201.7	1195.8	1153.2
10°	1324.9	1328.4	1334.8	1347.2	1357.1	1360.5	1349.1	1312.0	1266.0	1260.1	1200.7
12.5°	1329.3	1333.3	1343.2	1366.0	1393.2	1417.9	1419.9	1392.7	1341.2	1334.8	1255.6
15°	1337.8	1341.7	1355.1	1383.3	1423.3	1470.8	1500.0	1481.2	1424.3	1417.4	1318.0
17.5°	1336.8	1341.2	1361.0	1398.6	1452.5	1521.3	1577.7	1585.6	1526.7	1514.9	1388.7
20°	1334.3	1338.3	1359.5	1405.5	1472.3	1566.8	1668.7	1709.8	1646.5	1635.6	1471.3
22.5°	1354.1	1358.5	1374.9	1413.0	1482.7	1601.9	1752.8	1851.8	1788.5	1773.1	1566.3
25°	1398.6	1405.0	1414.9	1441.2	1501.5	1633.1	1838.9	2012.6	1947.8	1929.5	1669.7
27.5°	1467.4	1475.3	1489.1	1501.5	1543.6	1672.7	1924.5	2192.7	2127.8	2108.6	1779.1
30°	1551.5	1561.9	1579.7	1588.1	1616.8	1731.1	2017.5	2378.2	2340.6	2313.9	1902.3
32.5°	1667.7	1682.1	1698.9	1701.4	1718.7	1819.6	2109.5	2562.2	2561.7	2542.9	2042.3
35°	1819.1	1834.5	1837.9	1841.4	1849.8	1941.3	2220.9	2729.9	2794.8	2773.0	2194.6
37.5°	1984.4	2006.6	2012.1	1996.7	2008.6	2087.8	2346.0	2864.5	2997.6	2974.3	2342.1
40°	2161.0	2169.9	2184.7	2160.5	2175.3	2255.5	2468.7	2950.6	3149.0	3124.2	2458.3
42.5°	2287.6	2304.0	2326.2	2317.3	2325.7	2399.0	2554.8	2992.1	3256.8	3232.1	2541.9
45°	2425.2	2430.1	2444.5	2442.5	2447.4	2515.7	2616.6	3010.5	3353.3	3331.0	2613.2
47.5°	2544.9	2552.3	2561.7	2550.8	2540.0	2584.5	2667.1	3026.3	3464.6	3437.9	2687.9
50°	2660.2	2666.6	2678.0	2646.3	2605.8	2617.1	2691.8	3048.1	3569.0	3550.2	2746.8
52.5°	2681.5	2688.4	2741.8	2748.2	2696.3	2656.2	2735.4	3096.0	3630.4	3618.5	2768.0
55°	2413.8	2426.2	2532.5	2654.7	2782.9	2770.0	2805.1	3121.3	3654.6	3657.6	2806.1
57.5°	1873.6	1891.4	2046.7	2214.4	2484.1	2707.2	2814.0	3114.8	3646.2	3662.5	2845.2
60°	1228.9	1239.3	1423.3	1611.3	1890.9	2199.6	2518.7	2999.1	3571.5	3594.7	2835.3
62.5°	742.1	754.0	901.9	1044.4	1209.1	1415.4	1708.3	2410.3	2993.6	3045.6	2270.8
65°	518.0	533.8	663.4	780.7	837.6	795.0	865.3	1346.2	1865.1	1886.9	1387.7
67.5°	375.5	386.4	492.8	632.3	695.1	561.5	427.9	596.2	812.4	820.3	572.4
70°	245.9	258.3	354.7	481.4	567.5	455.2	320.1	322.6	341.9	345.8	332.5
72.5°	135.1	142.5	219.2	319.6	335.4	272.1	249.8	268.1	281.5	281.5	285.0
75°	69.8	76.2	89.5	105.4	127.1	148.9	180.1	207.3	221.6	222.6	221.1
77.5°	35.6	38.1	48.0	51.9	56.9	66.3	86.1	110.3	123.2	128.1	127.1
80°	16.8	17.8	20.3	23.7	29.2	37.1	46.5	55.4	63.3	64.3	69.8
82.5°	8.9	9.9	10.9	12.9	15.8	19.8	27.2	32.7	37.6	38.6	43.0
85°	3.5	4.0	4.5	4.9	6.9	8.4	11.4	15.3	18.8	18.8	22.3
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	2.0	2.5	3.5	3.5	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631834

CATALOG NUMBER: GWS-SA2B-740-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5	1077.5
2.5°	1088.4	1074.1	1067.6	1057.2	1048.8	1039.4	1032.0	1026.6	1023.1	1021.1	1019.2
5°	1106.2	1084.5	1067.1	1046.4	1032.0	1018.2	1006.8	998.9	994.9	991.9	990.0
7.5°	1133.9	1104.7	1072.1	1039.9	1014.7	992.4	978.1	969.7	964.2	962.3	960.8
10°	1172.0	1131.5	1077.5	1026.6	989.0	964.7	954.8	950.9	951.4	950.4	949.9
12.5°	1215.1	1159.7	1076.0	1002.8	961.3	946.9	947.4	953.8	961.3	963.2	963.7
15°	1261.6	1187.4	1061.7	972.2	939.5	941.0	953.8	969.2	983.0	988.5	989.5
17.5°	1312.0	1210.6	1035.5	938.5	921.7	937.5	961.3	986.5	1006.8	1015.7	1018.2
20°	1368.4	1230.4	998.4	905.4	904.9	931.1	965.7	998.9	1024.6	1036.5	1038.4
22.5°	1428.3	1242.8	952.9	874.7	887.6	922.7	962.3	996.9	1024.1	1036.0	1038.4
25°	1488.7	1246.7	902.9	846.5	869.7	909.3	945.4	973.1	998.9	1009.3	1011.2
27.5°	1545.1	1235.3	855.4	822.2	853.4	889.5	913.8	928.6	946.4	954.3	955.8
30°	1602.4	1212.6	815.3	803.0	835.1	862.3	873.2	874.2	881.1	881.1	882.1
32.5°	1660.3	1179.0	780.2	784.2	812.4	830.2	831.6	820.3	811.9	798.0	797.5
35°	1727.1	1144.8	751.5	762.9	785.6	796.5	792.1	770.3	750.0	727.3	726.3
37.5°	1789.0	1109.7	727.3	741.1	755.5	763.4	753.0	726.8	709.9	686.7	683.2
40°	1839.9	1078.0	704.0	718.4	725.3	732.2	715.4	694.1	696.6	683.7	683.2
42.5°	1869.6	1047.4	682.2	693.1	697.6	702.5	687.7	671.8	685.2	675.3	675.8
45°	1891.4	1020.6	662.4	666.4	677.3	684.7	670.9	653.0	656.0	617.9	609.0
47.5°	1916.1	1005.8	643.6	639.7	659.0	671.8	650.6	624.8	607.0	569.4	566.0
50°	1942.3	1000.4	623.9	613.0	636.2	648.6	623.9	591.7	568.4	548.2	546.2
52.5°	1951.2	999.9	599.1	580.8	604.1	621.4	600.6	568.0	540.2	520.5	519.5
55°	1986.4	1014.2	567.5	536.8	558.6	594.2	578.8	531.8	509.6	500.7	499.7
57.5°	2027.4	1016.7	517.5	488.8	519.0	561.0	541.7	501.2	476.9	466.0	465.0
60°	2010.6	955.8	464.1	452.2	485.3	529.9	512.0	476.9	448.7	438.3	437.3
62.5°	1532.2	674.8	425.0	420.5	449.2	484.8	481.4	444.8	418.0	410.6	409.6
65°	921.7	474.0	387.4	386.9	407.2	441.3	445.8	416.1	387.9	377.5	377.5
67.5°	455.6	362.6	344.8	342.4	355.2	379.5	398.3	374.0	350.3	340.4	338.9
70°	322.1	319.6	313.7	306.7	309.2	319.1	327.0	306.7	281.5	271.6	269.6
72.5°	278.5	279.0	275.1	269.6	267.7	260.7	253.8	239.0	223.6	213.2	214.2
75°	216.2	217.2	219.7	217.7	212.2	204.8	197.4	178.6	166.2	156.3	154.4
77.5°	126.2	131.1	139.0	137.0	138.0	127.6	124.7	106.4	95.0	88.1	86.6
80°	71.2	74.2	77.7	80.1	77.2	72.7	66.3	56.4	52.9	48.0	47.0
82.5°	43.0	46.0	47.5	49.5	48.5	42.5	37.6	31.2	28.2	25.7	25.2
85°	21.8	23.7	25.2	26.2	23.3	19.3	17.3	13.9	11.9	10.4	10.4
87.5°	5.4	5.9	6.9	5.9	5.4	2.5	2.0	0.5	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)