

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: P631850

Luminaire Tested: GWS-SA2B-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631850
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6666 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

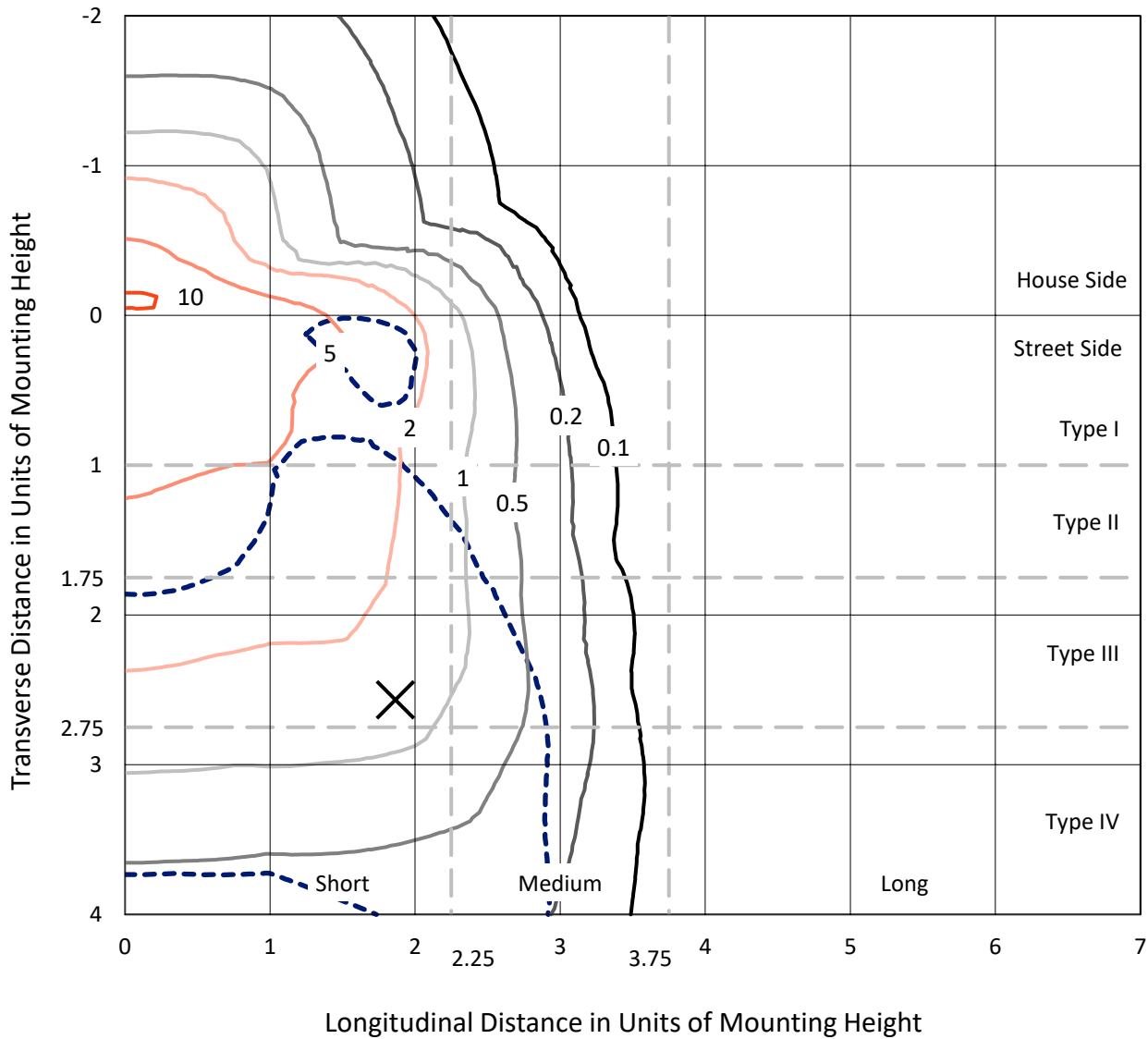
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P631850
 CATALOG NUMBER: GWS-SA2B-740-U-T4FT-W

Iso-Footcandle Lines of Horizontal Illumination

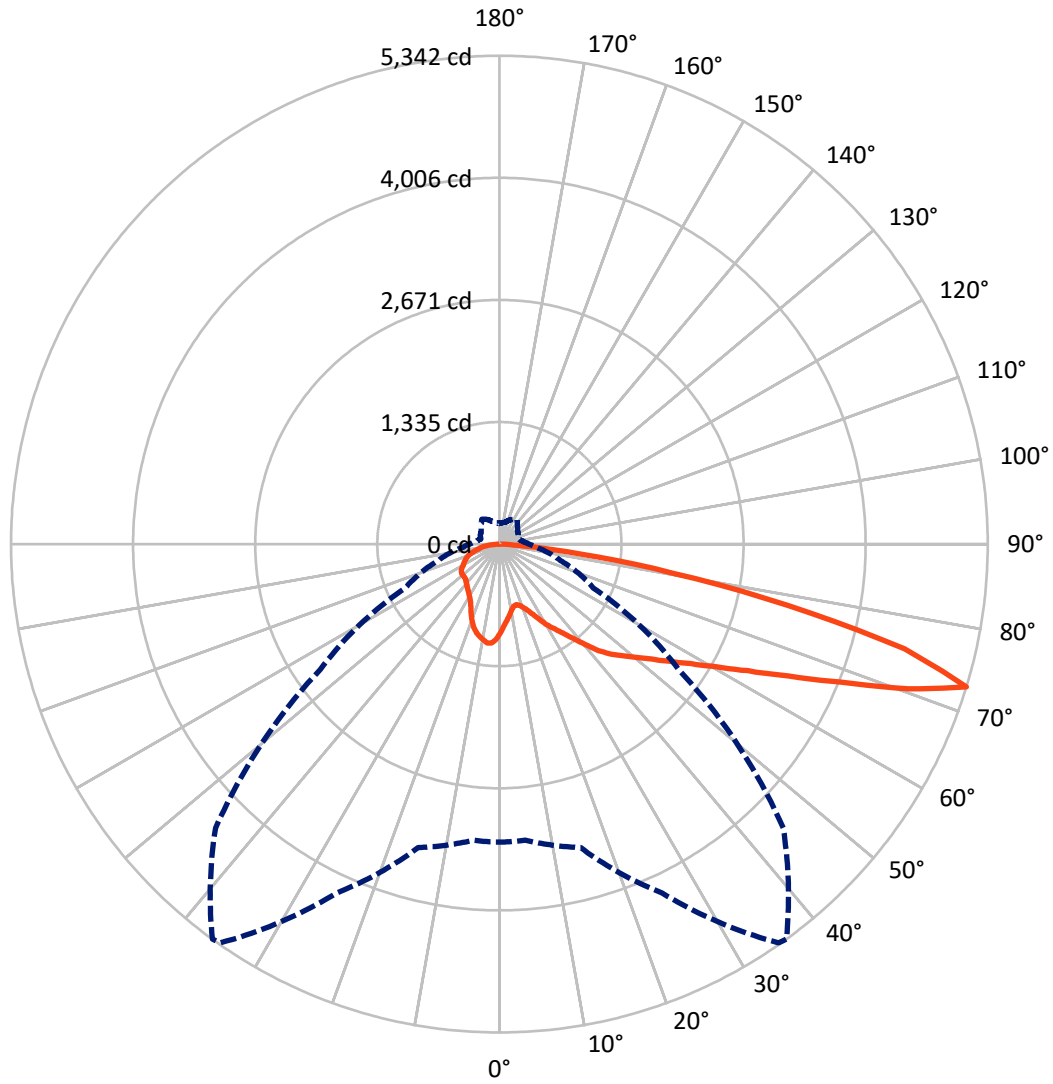
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P631850
CATALOG NUMBER: GWS-SA2B-740-U-T4FT-W

Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P631850

CATALOG NUMBER: GWS-SA2B-740-U-T4FT-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.8	0.0	1536.8
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	5129.2	0.0	5129.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	6666.0	0.0	6666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.4
10°-20°	257.3	3.9
20°-30°	426.1	6.4
30°-40°	638.1	9.6
40°-50°	931.0	14.0
50°-60°	1325.1	19.9
60°-70°	1674.1	25.1
70°-80°	1192.9	17.9
80°-90°	130.2	2.0
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°	6666.0	100.0
0°-180°	6666.0	100.0

Coefficient of Utilization



REPORT NUMBER: P631850

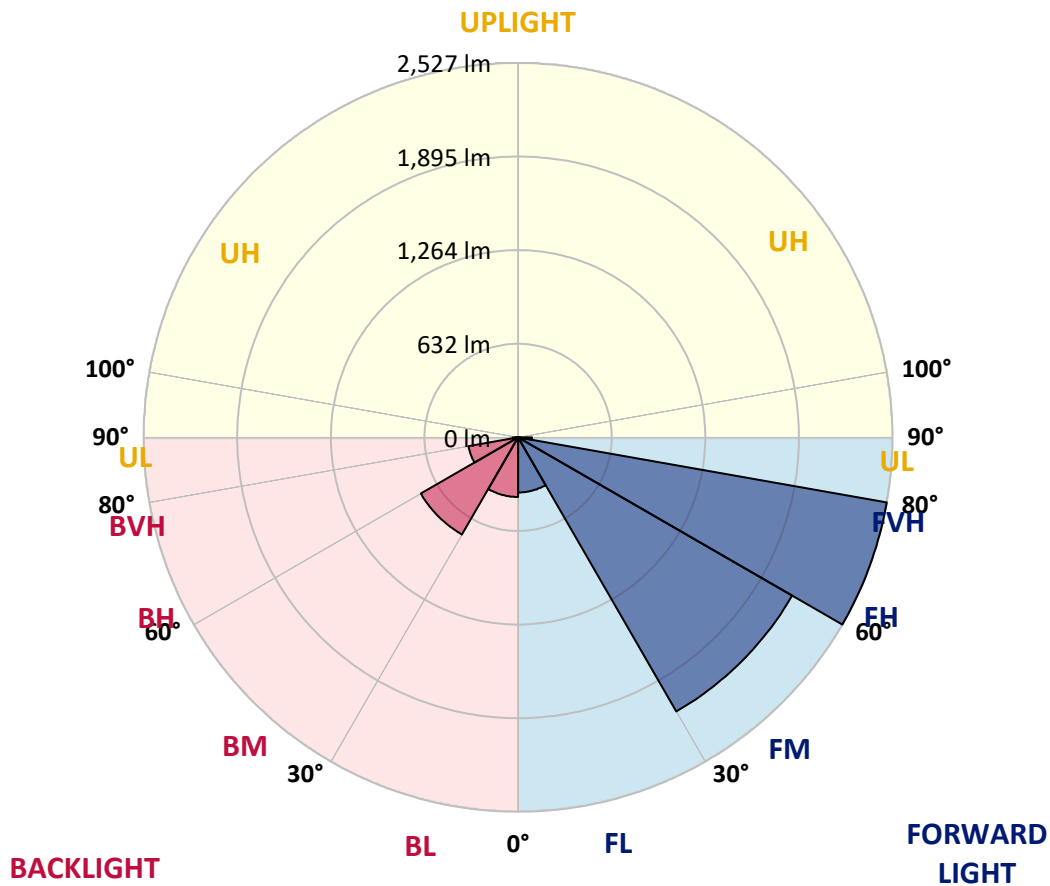
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	372.1	5.6			
FM (30°-60°)	2136.3	32.0			
FH (60°-80°)	2527.3	37.9			G2/5000
FVH (80°-90°)	93.5	1.4			G1/100
BL (0°-30°)	402.4	6.0	B1/500		
BM (30°-60°)	757.9	11.4	B1/1000		
BH (60°-80°)	339.7	5.1	B1/500		G1/500
BVH (80°-90°)	36.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P631850

CATALOG NUMBER: GWS-SA2B-740-U-T4FT-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6
2.5°	890.0	888.5	885.6	894.5	903.4	902.4	914.7	926.6	939.5	952.8	970.7
5°	818.8	817.8	815.3	828.7	842.0	841.5	861.8	881.1	907.3	936.0	971.6
7.5°	747.5	745.1	748.5	765.3	784.1	786.1	813.8	845.5	883.6	926.6	977.1
10°	684.7	684.2	685.7	704.5	732.7	734.7	770.3	814.3	864.8	922.2	989.5
12.5°	668.4	667.4	663.4	672.8	694.1	697.1	736.2	790.1	851.9	924.6	1006.3
15°	695.1	692.6	678.8	674.3	684.7	687.2	720.3	775.7	844.5	929.1	1027.5
17.5°	741.1	739.6	713.4	695.1	702.0	704.0	728.7	773.3	842.5	938.0	1053.8
20°	808.4	802.0	760.9	733.2	733.2	736.2	751.0	784.1	845.0	948.9	1083.4
22.5°	897.4	884.6	826.7	789.1	779.2	783.2	789.6	811.4	855.4	967.2	1120.6
25°	997.4	985.5	916.7	863.8	849.9	851.4	846.0	849.9	878.1	992.4	1166.6
27.5°	1103.7	1095.8	1022.6	955.3	933.5	933.5	914.3	904.9	909.8	1021.1	1218.0
30°	1198.7	1187.8	1126.0	1052.3	1023.6	1023.6	987.0	966.7	954.8	1056.2	1286.8
32.5°	1248.7	1242.3	1201.2	1144.8	1109.7	1104.2	1072.6	1048.8	1021.1	1108.2	1379.8
35°	1314.0	1312.5	1287.8	1243.7	1199.2	1191.3	1169.5	1150.7	1102.7	1173.0	1503.5
37.5°	1396.1	1393.6	1389.7	1363.5	1310.0	1308.5	1289.3	1266.5	1204.2	1266.5	1653.4
40°	1488.1	1483.7	1478.7	1478.2	1446.1	1440.6	1439.2	1413.4	1326.4	1379.3	1809.7
42.5°	1614.8	1599.4	1552.9	1573.7	1597.5	1592.5	1611.3	1572.7	1478.7	1513.4	1957.6
45°	1770.6	1733.0	1641.0	1646.9	1706.8	1716.7	1782.0	1772.6	1646.4	1668.2	2113.5
47.5°	1864.1	1831.5	1745.9	1740.9	1815.6	1828.0	1970.0	1987.8	1827.0	1854.7	2305.9
50°	1940.8	1918.1	1847.8	1854.7	1933.9	1946.3	2156.5	2194.6	1997.2	2045.7	2529.5
52.5°	2033.3	2000.7	1946.3	1978.9	2075.9	2090.7	2363.8	2404.9	2150.6	2255.5	2761.1
55°	2085.3	2071.9	2072.9	2122.9	2244.6	2264.9	2581.0	2574.1	2291.1	2435.0	2935.2
57.5°	2205.0	2200.0	2245.6	2264.4	2441.5	2467.7	2798.2	2738.8	2418.7	2574.1	3018.8
60°	2416.2	2403.9	2443.4	2472.1	2684.9	2722.0	3040.6	2900.1	2505.3	2677.5	2990.6
62.5°	2713.1	2697.7	2699.2	2744.7	3010.9	3050.0	3310.2	3034.6	2532.0	2693.3	2812.0
65°	3082.1	3059.9	3034.6	3096.5	3443.8	3476.4	3603.6	3132.6	2468.2	2540.9	2439.0
67.5°	3471.5	3453.2	3423.5	3553.1	4004.3	4024.1	3932.6	3124.2	2265.8	2133.3	1710.8
70°	3494.2	3498.7	3639.2	4108.2	4736.0	4741.0	4243.8	2955.0	1834.9	1382.8	852.4
72.5°	3259.7	3252.3	3435.4	4209.6	5324.7	5341.6	4390.7	2394.0	1133.9	689.6	399.7
75°	2647.8	2660.6	2853.1	3683.2	4563.8	4578.7	3579.3	1411.5	538.8	337.4	255.8
77.5°	1139.8	1211.6	1591.0	2594.8	3268.7	3222.6	1844.8	571.9	287.4	240.4	195.9
80°	329.0	357.2	567.0	1233.8	1958.6	1924.0	730.2	214.2	200.4	180.6	140.5
82.5°	106.4	117.7	207.8	491.3	877.6	876.7	277.0	126.6	131.1	122.7	90.5
85°	29.7	34.1	63.8	148.9	271.6	266.2	80.1	59.9	69.8	70.7	45.0
87.5°	0.0	0.0	0.5	1.0	1.0	1.0	2.0	8.9	20.3	25.7	18.3
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: P631850
 CATALOG NUMBER: GWS-SA2B-740-U-T4FT-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6	975.6
2.5°	981.5	980.1	1000.3	1016.2	1031.0	1040.9	1043.9	1045.8	1049.8	1051.8	1049.8
5°	988.5	995.9	1029.5	1054.3	1074.0	1085.9	1086.4	1085.4	1088.4	1085.9	1084.4
7.5°	1003.3	1017.7	1060.2	1086.4	1099.3	1099.8	1087.9	1074.0	1067.1	1061.2	1059.2
10°	1023.1	1044.4	1090.9	1108.2	1104.2	1085.9	1059.7	1037.9	1025.6	1016.7	1014.7
12.5°	1050.3	1074.0	1118.1	1117.6	1092.8	1060.2	1029.5	1003.3	985.5	975.1	971.6
15°	1076.0	1106.2	1137.9	1114.6	1075.5	1036.0	996.4	961.3	937.5	921.2	918.2
17.5°	1107.7	1139.8	1152.2	1105.2	1053.8	1002.8	949.9	903.9	871.7	852.4	850.9
20°	1144.3	1173.0	1159.1	1088.9	1025.6	958.8	887.0	835.6	801.0	782.2	783.6
22.5°	1186.8	1207.6	1161.1	1066.6	986.5	896.4	816.3	766.8	743.6	733.7	734.2
25°	1232.4	1245.7	1157.7	1036.5	926.6	820.3	743.6	720.8	718.8	716.4	717.4
27.5°	1286.3	1283.3	1147.3	993.9	846.0	731.7	692.6	698.6	706.5	705.5	706.5
30°	1358.5	1330.3	1133.9	935.0	750.0	657.5	662.4	679.3	689.6	690.6	693.6
32.5°	1441.1	1382.3	1112.6	854.9	658.5	615.9	634.2	654.5	666.9	669.4	673.3
35°	1539.6	1441.6	1075.0	755.0	592.7	591.2	608.0	621.9	635.2	636.2	636.2
37.5°	1652.9	1501.0	1015.2	644.6	552.1	569.9	585.8	588.7	592.2	589.2	590.7
40°	1756.8	1558.4	930.1	544.2	519.0	551.1	564.5	554.6	543.7	536.3	537.8
42.5°	1843.8	1597.5	817.3	473.9	485.3	534.3	544.7	524.4	503.1	489.3	491.3
45°	1941.8	1633.6	684.7	426.5	456.6	522.4	529.4	503.1	475.9	455.1	452.2
47.5°	2076.9	1707.3	567.0	393.3	436.3	516.0	527.4	491.8	456.1	425.0	421.5
50°	2243.6	1811.7	468.5	371.5	426.9	512.5	526.9	479.4	436.8	400.2	397.8
52.5°	2425.6	1913.6	395.8	354.7	417.5	502.1	524.4	465.5	416.6	377.0	374.0
55°	2546.8	1953.7	346.8	338.9	402.2	485.8	514.5	452.2	385.9	349.8	345.3
57.5°	2582.5	1902.2	312.7	324.5	382.4	463.1	495.7	424.0	367.1	338.4	334.9
60°	2521.1	1772.6	291.4	312.7	360.7	433.9	463.1	407.7	352.2	326.5	324.0
62.5°	2348.0	1572.7	275.1	300.3	338.4	403.2	442.3	387.9	335.9	315.6	312.2
65°	1999.7	1289.7	261.7	287.4	317.1	374.0	419.5	368.1	318.1	302.8	298.8
67.5°	1398.6	905.8	247.4	272.1	295.8	345.8	395.8	349.8	299.8	288.4	284.5
70°	683.7	480.4	230.0	254.3	273.1	317.1	372.0	327.5	275.6	269.1	263.7
72.5°	325.5	268.6	209.8	230.0	241.9	279.0	332.5	295.4	246.9	233.0	223.6
75°	218.2	191.0	183.0	201.4	204.3	234.0	285.0	254.8	217.7	201.8	193.9
77.5°	165.2	145.9	153.9	170.2	164.2	192.4	234.5	227.1	196.4	182.1	178.1
80°	116.3	106.4	122.2	132.1	127.6	163.8	211.2	194.4	161.8	145.9	143.0
82.5°	73.2	71.2	90.0	91.5	93.0	129.6	173.6	152.9	125.7	103.4	96.0
85°	36.6	40.6	53.9	53.9	53.4	66.8	98.9	86.1	67.8	53.9	52.4
87.5°	12.4	17.3	23.3	18.8	14.3	11.4	12.9	15.8	16.8	16.3	16.3
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)