

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: P630306

Luminaire Tested: GWS-SA1D-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630306
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1D-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5243.5 lumens
Efficiency: N/A
Efficacy: 118.4 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

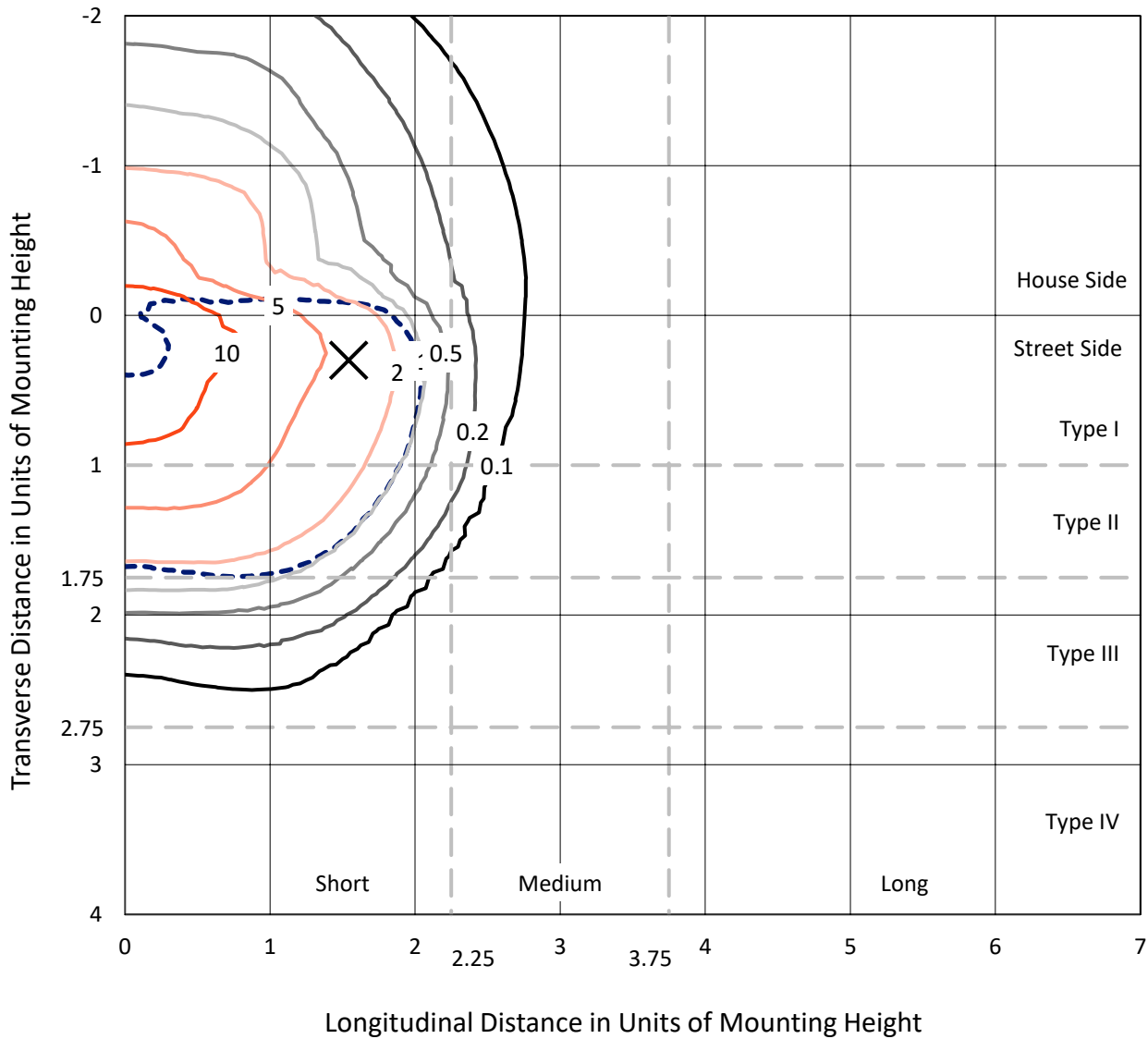
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

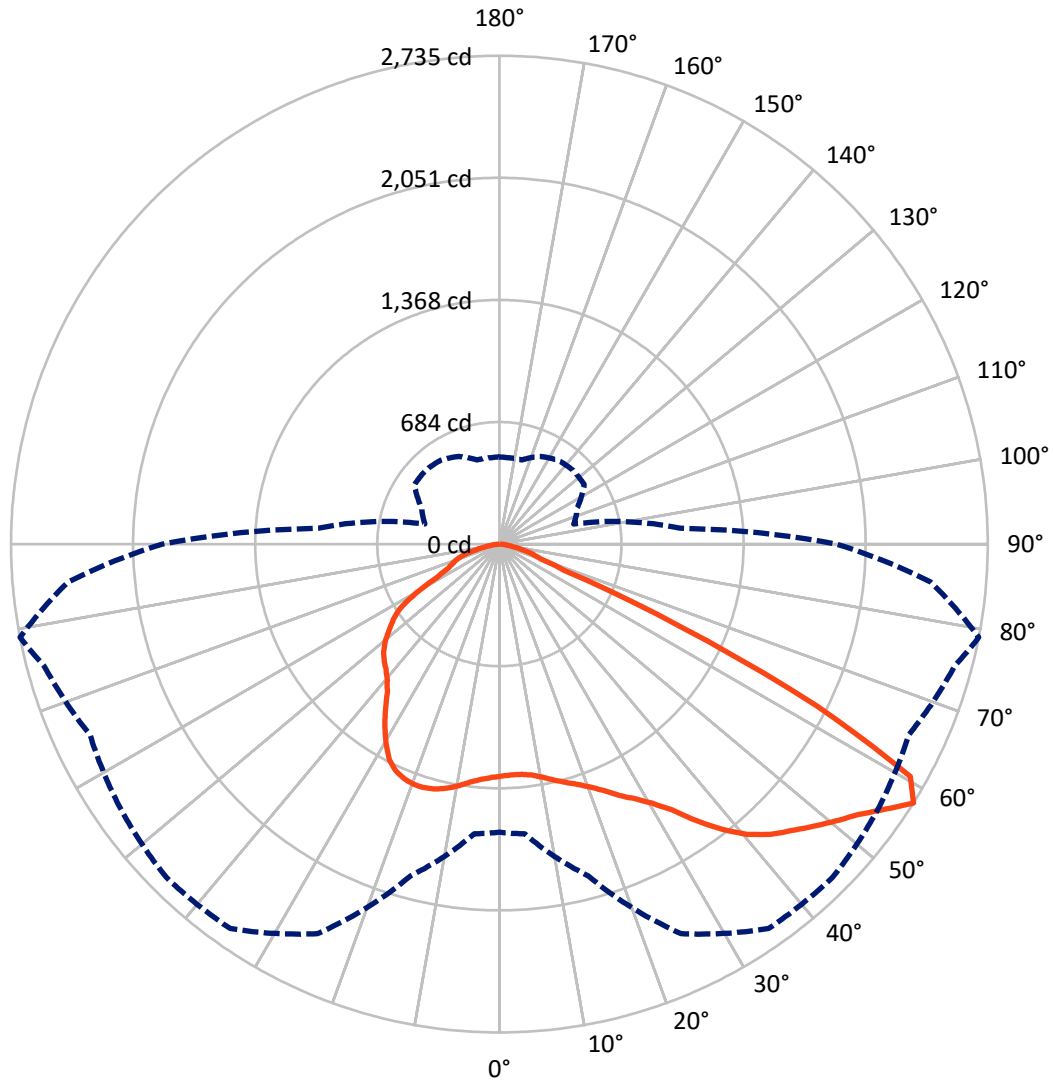
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.6	0.0	1558.6
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	3684.8	0.0	3684.8
	% Fixture	70.3	0.0	70.3
Total	Lumens	5243.5	0.0	5243.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.3	2.3
10°-20°	334.4	6.4
20°-30°	566.9	10.8
30°-40°	867.7	16.5
40°-50°	1157.0	22.1
50°-60°	1336.2	25.5
60°-70°	694.3	13.2
70°-80°	147.6	2.8
80°-90°	19.1	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°	5243.5	100.0
0°-180°	5243.5	100.0

Coefficient of Utilization



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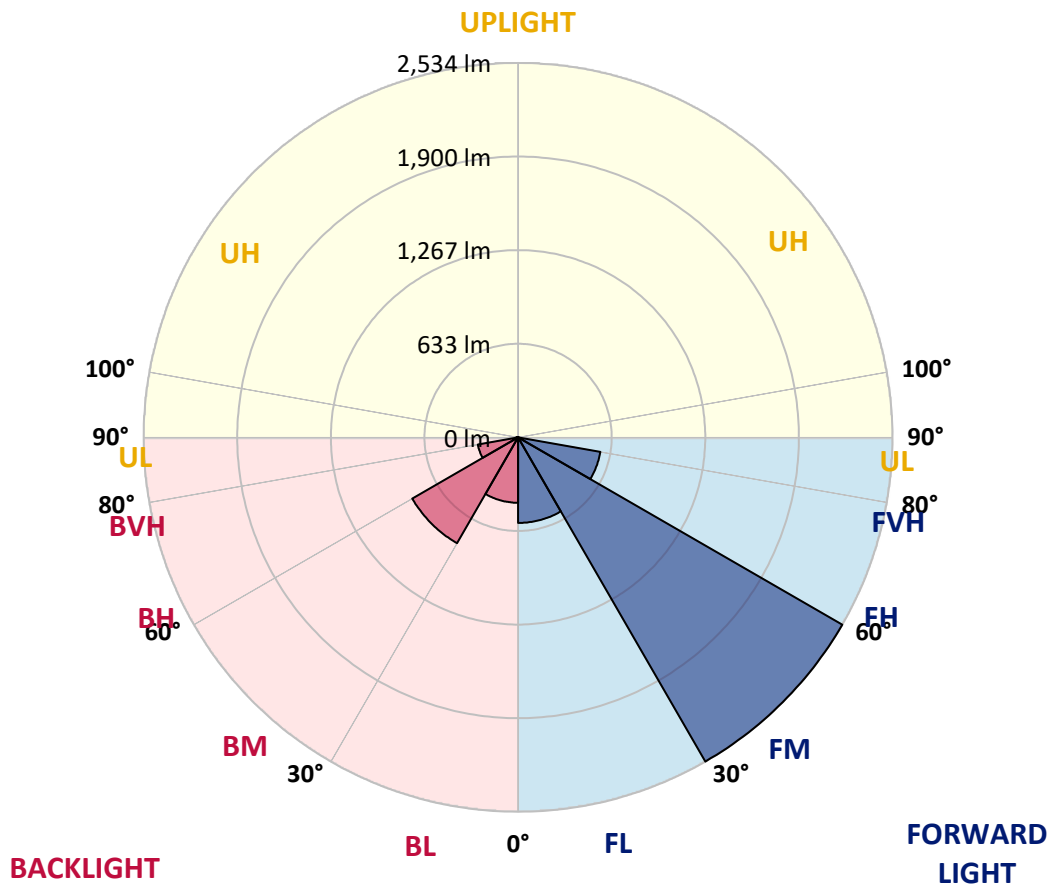
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.0	11.0			
FM (30°-60°)	2533.8	48.3			
FH (60°-80°)	565.4	10.8			G0/660
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	442.6	8.4	B1/500		
BM (30°-60°)	827.0	15.8	B1/1000		
BH (60°-80°)	276.5	5.3	B1/500		G1/500
BVH (80°-90°)	12.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5
2.5°	1240.3	1237.7	1238.6	1242.0	1254.9	1264.3	1274.2	1283.2	1291.7	1294.3	1296.5
5°	1196.1	1191.4	1192.7	1198.3	1213.3	1229.1	1246.7	1268.2	1288.7	1295.6	1304.6
7.5°	1164.8	1164.0	1166.1	1174.7	1190.6	1205.6	1228.3	1258.7	1294.3	1305.9	1321.8
10°	1123.3	1121.5	1130.1	1147.7	1173.8	1197.9	1224.9	1260.9	1310.6	1327.8	1352.2
12.5°	1090.2	1089.4	1098.4	1122.8	1156.3	1194.4	1231.7	1272.0	1332.5	1356.1	1386.1
15°	1109.5	1105.7	1106.1	1123.3	1153.3	1198.3	1248.9	1292.2	1354.3	1384.3	1422.9
17.5°	1165.7	1158.8	1153.7	1156.7	1173.8	1220.6	1275.0	1319.2	1379.6	1414.8	1461.9
20°	1243.3	1239.4	1225.3	1215.9	1219.7	1260.9	1316.2	1357.3	1412.6	1452.1	1502.7
22.5°	1347.5	1338.0	1318.8	1303.7	1292.2	1324.3	1375.3	1410.9	1458.5	1499.7	1552.4
25°	1476.5	1462.8	1432.4	1408.8	1383.9	1416.9	1462.4	1489.4	1521.5	1559.7	1609.9
27.5°	1608.1	1596.6	1562.7	1531.0	1500.1	1520.7	1574.7	1590.1	1586.7	1614.6	1657.4
30°	1748.3	1733.8	1701.6	1667.3	1627.4	1640.7	1689.2	1696.9	1660.4	1683.6	1712.7
32.5°	1896.2	1882.1	1854.2	1814.4	1769.3	1774.5	1787.8	1795.1	1760.3	1773.6	1795.9
35°	2046.7	2033.4	2005.1	1965.7	1932.7	1901.4	1867.9	1897.1	1877.0	1902.7	1901.0
37.5°	2184.3	2171.1	2153.5	2123.0	2066.4	2004.7	1927.5	1963.6	1994.8	2027.4	2021.9
40°	2277.4	2268.4	2272.7	2267.9	2195.1	2072.9	1956.7	1996.1	2081.5	2137.2	2134.2
42.5°	2357.5	2348.5	2373.4	2391.4	2305.7	2135.9	1970.8	2008.6	2136.8	2223.8	2219.5
45°	2393.1	2390.6	2431.7	2488.7	2406.9	2202.8	2007.3	2034.3	2178.8	2290.2	2273.9
47.5°	2350.7	2359.7	2440.7	2537.2	2490.9	2282.1	2081.9	2088.7	2233.6	2362.3	2316.4
50°	2266.2	2286.0	2395.3	2538.5	2552.2	2371.7	2185.2	2168.1	2307.4	2439.0	2338.7
52.5°	2143.2	2163.8	2342.1	2528.6	2587.3	2475.4	2322.8	2298.4	2400.4	2515.7	2342.5
55°	1860.7	1888.5	2220.4	2506.3	2621.6	2569.8	2478.0	2428.3	2520.5	2621.2	2380.7
57.5°	1614.1	1628.7	1923.7	2407.3	2628.5	2639.2	2588.6	2529.5	2639.6	2735.3	2423.6
60°	1184.6	1188.0	1453.4	1991.8	2418.0	2598.9	2579.6	2491.7	2583.1	2643.9	2227.2
62.5°	669.2	669.7	881.5	1329.5	1806.2	2118.3	2130.3	2052.7	1976.0	1994.0	1550.3
65°	251.2	274.8	402.6	653.4	1041.4	1250.6	1300.3	1318.3	1190.6	1111.3	831.3
67.5°	168.1	173.6	234.9	336.1	463.4	535.0	598.5	600.2	439.0	391.4	327.5
70°	128.2	133.8	184.8	240.5	234.9	216.9	234.5	228.1	235.8	242.2	249.1
72.5°	95.6	101.2	143.2	169.8	141.0	138.9	157.3	174.9	191.2	198.1	208.8
75°	63.5	67.7	96.5	90.9	78.0	92.2	114.9	132.5	141.9	150.1	158.2
77.5°	40.3	43.3	51.4	41.6	43.3	54.0	66.9	82.7	91.7	99.9	104.2
80°	18.4	18.0	17.6	19.7	24.4	31.7	40.3	49.7	56.6	60.0	62.6
82.5°	7.3	8.1	9.0	10.7	13.3	17.1	22.7	29.2	34.7	35.6	37.7
85°	3.0	3.4	3.9	4.7	6.0	7.7	9.4	13.3	16.7	18.0	19.3
87.5°	0.0	0.0	0.0	0.0	0.4	0.9	1.3	2.1	3.9	4.3	4.7
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°	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5	1299.5
2.5°	1308.0	1302.5	1311.9	1318.3	1324.3	1317.9	1315.8	1310.2	1309.3	1309.3	1312.3
5°	1320.0	1316.2	1326.0	1329.9	1329.5	1315.3	1306.7	1295.6	1290.0	1290.0	1290.9
7.5°	1341.5	1339.3	1344.9	1338.9	1325.2	1296.5	1268.2	1244.6	1228.7	1220.6	1223.1
10°	1377.1	1374.5	1369.8	1347.5	1308.0	1248.4	1190.6	1147.7	1122.0	1107.4	1108.2
12.5°	1411.8	1407.5	1390.8	1341.5	1260.4	1165.7	1089.8	1041.8	1013.5	996.4	992.5
15°	1449.9	1438.8	1402.8	1310.6	1182.8	1064.5	985.2	933.3	902.9	892.6	892.2
17.5°	1486.4	1466.7	1401.5	1255.7	1089.8	958.6	878.9	846.7	841.6	846.3	847.6
20°	1523.3	1491.5	1387.3	1179.8	979.2	853.2	812.0	825.3	844.6	857.4	860.4
22.5°	1561.4	1512.1	1355.2	1082.1	862.6	782.0	799.1	828.3	852.3	869.5	871.2
25°	1604.3	1531.4	1307.2	962.5	769.1	762.3	796.1	827.0	852.7	872.5	875.9
27.5°	1628.7	1531.8	1239.9	839.4	726.3	754.6	788.9	818.0	843.7	865.2	869.0
30°	1652.7	1520.3	1133.1	739.5	713.8	745.5	776.4	803.4	827.9	848.9	853.6
32.5°	1686.6	1509.5	1010.1	682.1	706.5	737.0	762.3	786.3	805.1	814.6	817.1
35°	1728.6	1495.8	879.3	657.2	701.8	730.1	752.4	765.3	740.8	735.7	741.3
37.5°	1787.3	1483.0	749.0	646.5	698.8	727.5	747.3	714.3	684.2	672.2	676.5
40°	1850.8	1475.7	660.7	637.9	700.1	730.1	725.8	677.0	633.7	608.4	607.5
42.5°	1904.8	1464.5	604.1	632.4	703.5	740.0	696.7	643.9	579.6	564.6	565.1
45°	1941.3	1436.2	574.1	626.4	706.5	742.1	683.0	598.5	552.6	543.2	542.8
47.5°	1956.3	1384.8	554.8	616.9	706.1	724.5	655.1	579.6	533.8	531.2	532.9
50°	1946.4	1300.3	535.0	598.5	695.8	706.1	622.9	562.9	520.9	535.0	545.3
52.5°	1910.0	1191.0	511.5	573.2	677.4	685.1	606.6	552.6	511.5	530.3	538.5
55°	1900.5	1102.2	481.5	540.2	649.9	647.8	589.5	547.5	505.0	497.7	499.0
57.5°	1888.1	1015.6	431.7	481.0	580.5	583.9	573.2	541.5	488.3	486.2	488.3
60°	1640.3	778.6	385.0	415.0	476.7	495.2	554.8	530.3	461.3	452.3	451.9
62.5°	1071.4	471.6	342.5	361.8	388.4	409.9	505.9	498.2	431.7	426.2	430.0
65°	576.2	336.1	311.7	323.3	337.8	354.1	419.3	443.7	390.1	370.4	370.8
67.5°	294.5	286.0	288.5	296.7	307.8	316.0	338.3	359.7	332.7	316.0	315.5
70°	252.1	258.9	262.8	267.5	274.8	273.5	275.7	279.5	277.4	269.2	268.8
72.5°	214.8	225.5	226.4	227.2	229.8	223.8	219.9	213.5	213.9	215.2	215.6
75°	163.3	173.6	176.2	174.9	177.5	169.8	164.6	158.2	150.5	149.2	150.1
77.5°	106.3	114.5	118.3	117.5	118.8	112.8	110.2	103.3	94.3	90.9	90.9
80°	64.3	69.0	72.0	72.9	74.2	69.9	65.6	59.6	55.7	51.9	51.9
82.5°	39.0	42.0	44.2	44.2	45.4	40.7	37.3	33.0	31.3	27.9	27.9
85°	19.7	21.9	22.7	22.3	21.4	17.6	16.3	14.1	13.3	11.6	11.6
87.5°	4.7	6.0	6.0	4.3	4.3	2.1	1.3	0.4	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)