

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: P630361

Luminaire Tested: GWS-SA1D-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630361
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5316.3 lumens
Efficiency: N/A
Efficacy: 120.0 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

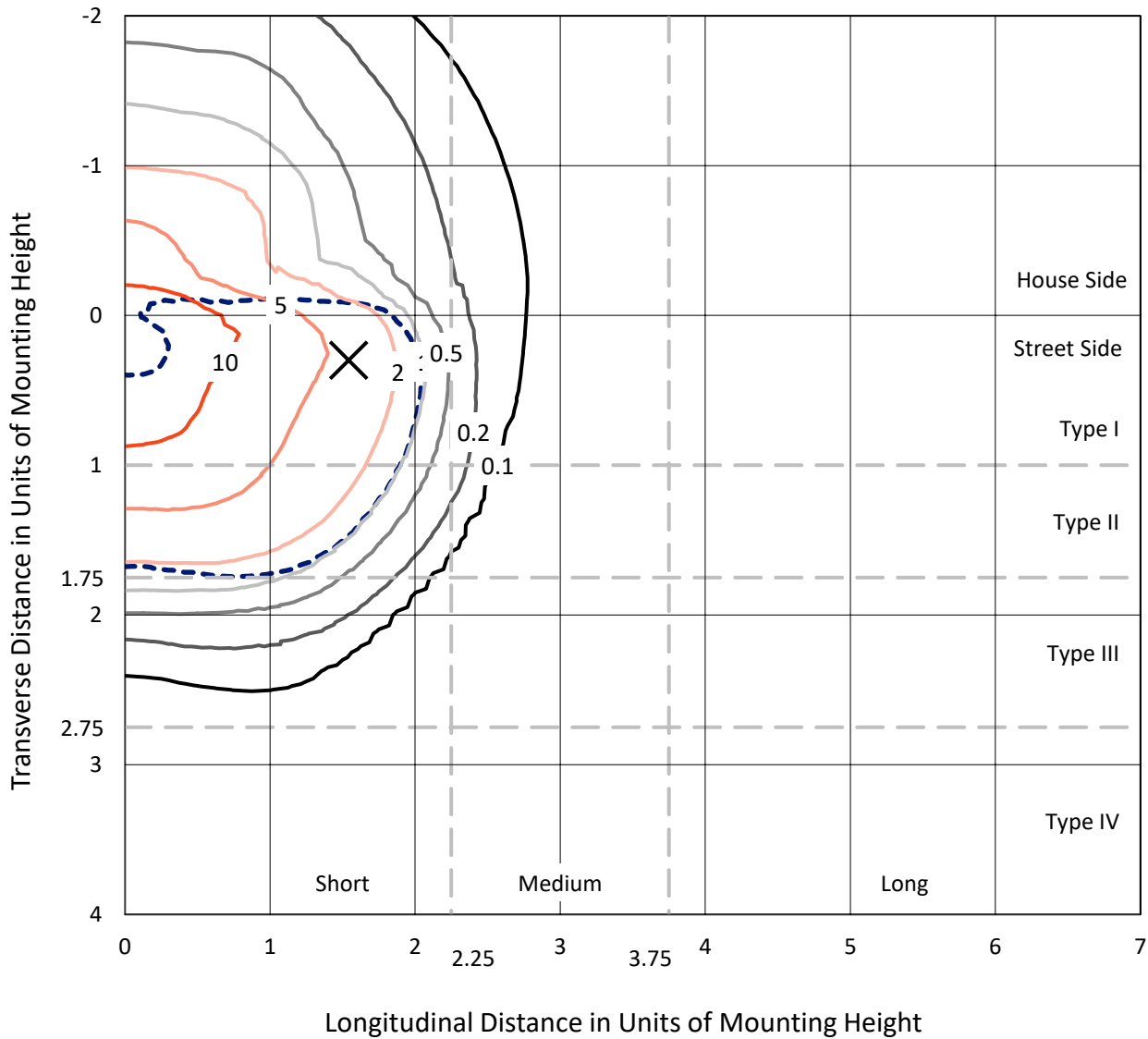
Input Watts (W): 44.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

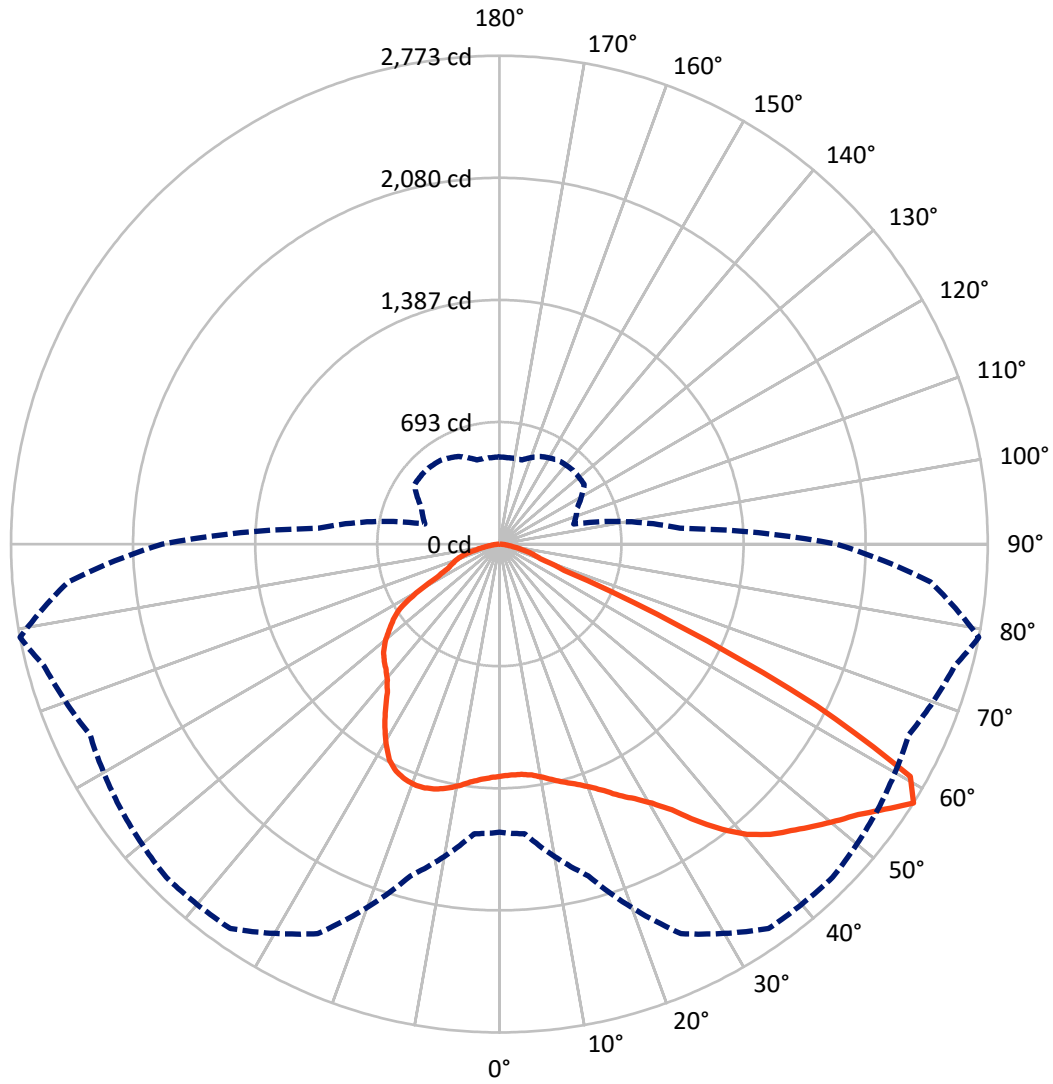
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 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	1580.3	0.0	1580.3
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	3736.0	0.0	3736.0
	% Fixture	70.3	0.0	70.3
Total	Lumens	5316.3	0.0	5316.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	2.3
10°-20°	339.1	6.4
20°-30°	574.7	10.8
30°-40°	879.7	16.5
40°-50°	1173.0	22.1
50°-60°	1354.7	25.5
60°-70°	704.0	13.2
70°-80°	149.6	2.8
80°-90°	19.4	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°	5316.3	100.0
0°-180°	5316.3	100.0

Coefficient of Utilization



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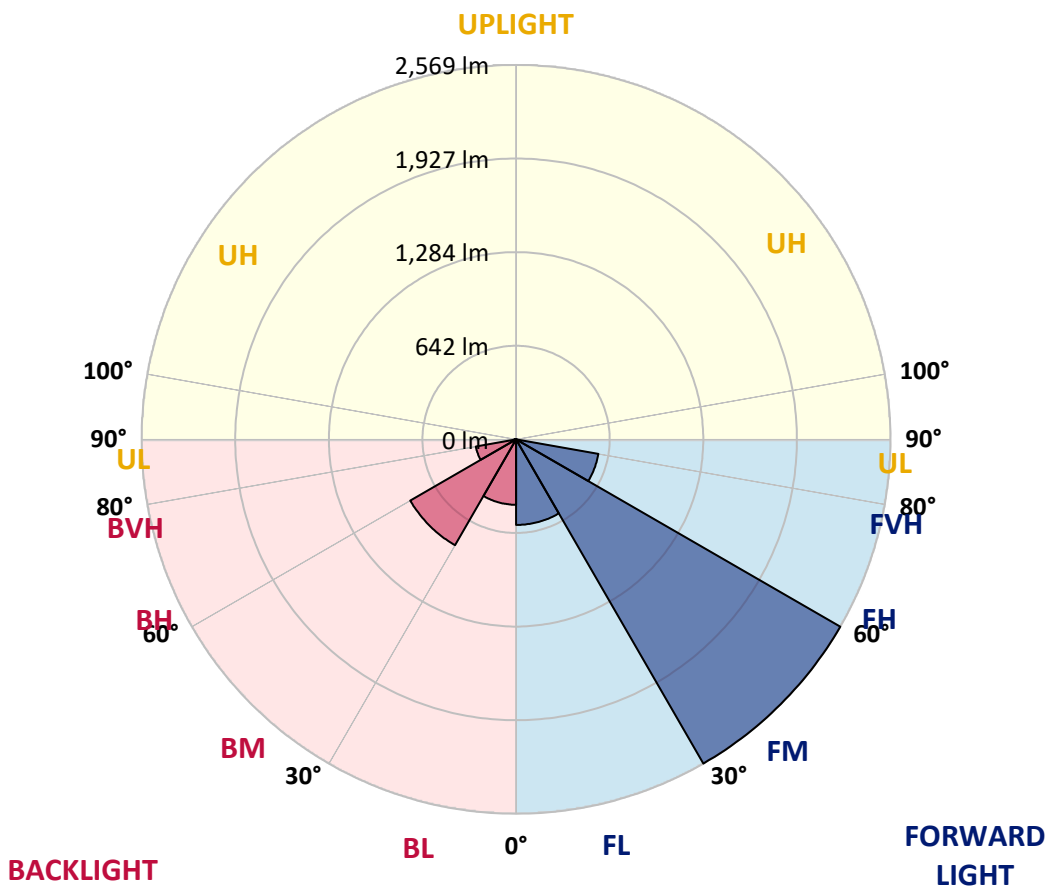
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	587.0	11.0			
FM (30°-60°)	2569.0	48.3			
FH (60°-80°)	573.2	10.8			G0/660
FVH (80°-90°)	6.8	0.1			G0/10
BL (0°-30°)	448.8	8.4	B1/500		
BM (30°-60°)	838.5	15.8	B1/1000		
BH (60°-80°)	280.4	5.3	B1/500		G1/500
BVH (80°-90°)	12.6	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°	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5
2.5°	1257.5	1254.9	1255.8	1259.3	1272.3	1281.9	1291.9	1301.0	1309.7	1312.3	1314.5
5°	1212.7	1208.0	1209.3	1214.9	1230.1	1246.2	1264.0	1285.8	1306.6	1313.6	1322.7
7.5°	1181.0	1180.1	1182.3	1191.0	1207.1	1222.3	1245.3	1276.2	1312.3	1324.0	1340.1
10°	1138.9	1137.1	1145.8	1163.6	1190.1	1214.5	1241.9	1278.4	1328.8	1346.2	1371.0
12.5°	1105.4	1104.5	1113.6	1138.4	1172.3	1211.0	1248.8	1289.7	1351.0	1374.9	1405.3
15°	1124.9	1121.0	1121.5	1138.9	1169.3	1214.9	1266.2	1310.1	1373.1	1403.6	1442.7
17.5°	1181.9	1174.9	1169.7	1172.8	1190.1	1237.5	1292.7	1337.5	1398.8	1434.4	1482.2
20°	1260.6	1256.6	1242.3	1232.7	1236.7	1278.4	1334.5	1376.2	1432.3	1472.2	1523.5
22.5°	1366.2	1356.6	1337.1	1321.8	1310.1	1342.7	1394.4	1430.5	1478.8	1520.5	1574.0
25°	1497.0	1483.1	1452.3	1428.3	1403.1	1436.6	1482.7	1510.1	1542.7	1581.4	1632.2
27.5°	1630.5	1618.7	1584.4	1552.2	1520.9	1541.8	1596.6	1612.2	1608.7	1637.0	1680.5
30°	1772.6	1757.8	1725.2	1690.5	1650.0	1663.5	1712.6	1720.4	1683.5	1707.0	1736.5
32.5°	1922.6	1908.2	1880.0	1839.5	1793.9	1799.1	1812.6	1820.0	1784.8	1798.3	1820.9
35°	2075.1	2061.7	2033.0	1993.0	1959.5	1927.8	1893.9	1923.4	1903.0	1929.1	1927.4
37.5°	2214.7	2201.2	2183.4	2152.5	2095.1	2032.5	1954.3	1990.8	2022.5	2055.6	2049.9
40°	2309.0	2299.9	2304.2	2299.4	2225.5	2101.7	1983.9	2023.9	2110.4	2166.9	2163.8
42.5°	2390.3	2381.2	2406.4	2424.6	2337.7	2165.6	1998.2	2036.5	2166.4	2254.7	2250.3
45°	2426.4	2423.8	2465.5	2523.3	2440.3	2233.4	2035.2	2062.5	2209.0	2322.0	2305.5
47.5°	2383.3	2392.5	2474.6	2572.4	2525.5	2313.8	2110.8	2117.7	2264.7	2395.1	2348.6
50°	2297.7	2317.7	2428.5	2573.7	2587.6	2404.6	2215.5	2198.2	2339.4	2472.9	2371.2
52.5°	2172.9	2193.8	2374.6	2563.7	2623.3	2509.8	2355.1	2330.3	2433.7	2550.7	2375.1
55°	1886.5	1914.7	2251.2	2541.1	2658.0	2605.4	2512.4	2462.0	2555.5	2657.6	2413.8
57.5°	1636.6	1651.3	1950.4	2440.7	2665.0	2675.9	2624.6	2564.6	2676.3	2773.2	2457.2
60°	1201.0	1204.5	1473.6	2019.5	2451.6	2635.0	2615.4	2526.3	2618.9	2680.6	2258.1
62.5°	678.5	679.0	893.7	1347.9	1831.3	2147.7	2159.9	2081.2	2003.4	2021.7	1571.8
65°	254.7	278.6	408.2	662.4	1055.8	1267.9	1318.4	1336.6	1207.1	1126.7	842.8
67.5°	170.4	176.0	238.2	340.8	469.9	542.5	606.8	608.5	445.1	396.9	332.1
70°	130.0	135.6	187.3	243.9	238.2	219.9	237.8	231.2	239.1	245.6	252.5
72.5°	96.9	102.6	145.2	172.1	143.0	140.8	159.5	177.3	193.9	200.8	211.7
75°	64.3	68.7	97.8	92.2	79.1	93.5	116.5	134.3	143.9	152.1	160.4
77.5°	40.9	43.9	52.2	42.2	43.9	54.8	67.8	83.9	93.0	101.3	105.6
80°	18.7	18.3	17.8	20.0	24.8	32.2	40.9	50.4	57.4	60.9	63.5
82.5°	7.4	8.3	9.1	10.9	13.5	17.4	23.0	29.6	35.2	36.1	38.3
85°	3.0	3.5	3.9	4.8	6.1	7.8	9.6	13.5	17.0	18.3	19.6
87.5°	0.0	0.0	0.0	0.0	0.4	0.9	1.3	2.2	3.9	4.3	4.8
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°	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5	1317.5
2.5°	1326.2	1320.5	1330.1	1336.6	1342.7	1336.2	1334.0	1328.4	1327.5	1327.5	1330.5
5°	1338.4	1334.5	1344.5	1348.4	1347.9	1333.6	1324.9	1313.6	1307.9	1307.9	1308.8
7.5°	1360.1	1357.9	1363.6	1357.5	1343.6	1314.5	1285.8	1261.9	1245.8	1237.5	1240.1
10°	1396.2	1393.6	1388.8	1366.2	1326.2	1265.8	1207.1	1163.6	1137.5	1122.8	1123.6
12.5°	1431.4	1427.0	1410.1	1360.1	1277.9	1181.9	1104.9	1056.3	1027.6	1010.2	1006.3
15°	1470.1	1458.8	1422.3	1328.8	1199.3	1079.3	998.9	946.3	915.4	905.0	904.6
17.5°	1507.0	1487.0	1421.0	1273.2	1104.9	971.9	891.1	858.5	853.3	858.0	859.4
20°	1544.4	1512.2	1406.6	1196.2	992.8	865.0	823.3	836.8	856.3	869.4	872.4
22.5°	1583.1	1533.1	1374.0	1097.1	874.6	792.8	810.2	839.8	864.1	881.5	883.3
25°	1626.6	1552.7	1325.3	975.8	779.8	772.9	807.2	838.5	864.6	884.6	888.0
27.5°	1651.3	1553.1	1257.1	851.1	736.3	765.0	799.8	829.4	855.4	877.2	881.1
30°	1675.7	1541.4	1148.8	749.8	723.7	755.9	787.2	814.6	839.4	860.7	865.4
32.5°	1710.0	1530.5	1024.1	691.6	716.3	747.2	772.9	797.2	816.3	825.9	828.5
35°	1752.6	1516.6	891.5	666.4	711.6	740.3	762.9	775.9	751.1	745.9	751.6
37.5°	1812.2	1503.5	759.4	655.5	708.5	737.6	757.6	724.2	693.7	681.6	685.9
40°	1876.5	1496.2	669.8	646.8	709.8	740.3	735.9	686.4	642.5	616.8	615.9
42.5°	1931.3	1484.9	612.5	641.1	713.3	750.3	706.3	652.9	587.7	572.5	572.9
45°	1968.2	1456.2	582.0	635.1	716.3	752.4	692.4	606.8	560.3	550.7	550.3
47.5°	1983.4	1404.0	562.5	625.5	715.9	734.6	664.2	587.7	541.2	538.6	540.3
50°	1973.4	1318.4	542.5	606.8	705.5	715.9	631.6	570.7	528.1	542.5	552.9
52.5°	1936.5	1207.5	518.6	581.2	686.8	694.6	615.1	560.3	518.6	537.7	546.0
55°	1926.9	1117.6	488.1	547.7	659.0	656.8	597.7	555.1	512.0	504.7	506.0
57.5°	1914.3	1029.7	437.7	487.7	588.6	592.0	581.2	549.0	495.1	492.9	495.1
60°	1663.1	789.4	390.3	420.8	483.4	502.1	562.5	537.7	467.7	458.6	458.1
62.5°	1086.3	478.1	347.3	366.9	393.8	415.5	512.9	505.1	437.7	432.1	436.0
65°	584.2	340.8	316.0	327.7	342.5	359.0	425.1	449.9	395.6	375.6	376.0
67.5°	298.6	289.9	292.5	300.8	312.1	320.4	343.0	364.7	337.3	320.4	319.9
70°	255.6	262.5	266.5	271.2	278.6	277.3	279.5	283.4	281.2	273.0	272.5
72.5°	217.8	228.6	229.5	230.4	233.0	226.9	223.0	216.5	216.9	218.2	218.6
75°	165.6	176.0	178.7	177.3	180.0	172.1	166.9	160.4	152.6	151.3	152.1
77.5°	107.8	116.1	120.0	119.1	120.4	114.3	111.7	104.8	95.6	92.2	92.2
80°	65.2	70.0	73.0	73.9	75.2	70.9	66.5	60.4	56.5	52.6	52.6
82.5°	39.6	42.6	44.8	44.8	46.1	41.3	37.8	33.5	31.7	28.3	28.3
85°	20.0	22.2	23.0	22.6	21.7	17.8	16.5	14.3	13.5	11.7	11.7
87.5°	4.8	6.1	6.1	4.3	4.3	2.2	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)