

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: P632121

Luminaire Tested: GWS-SA2C-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632121
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-SA2C-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY 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: 5977 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

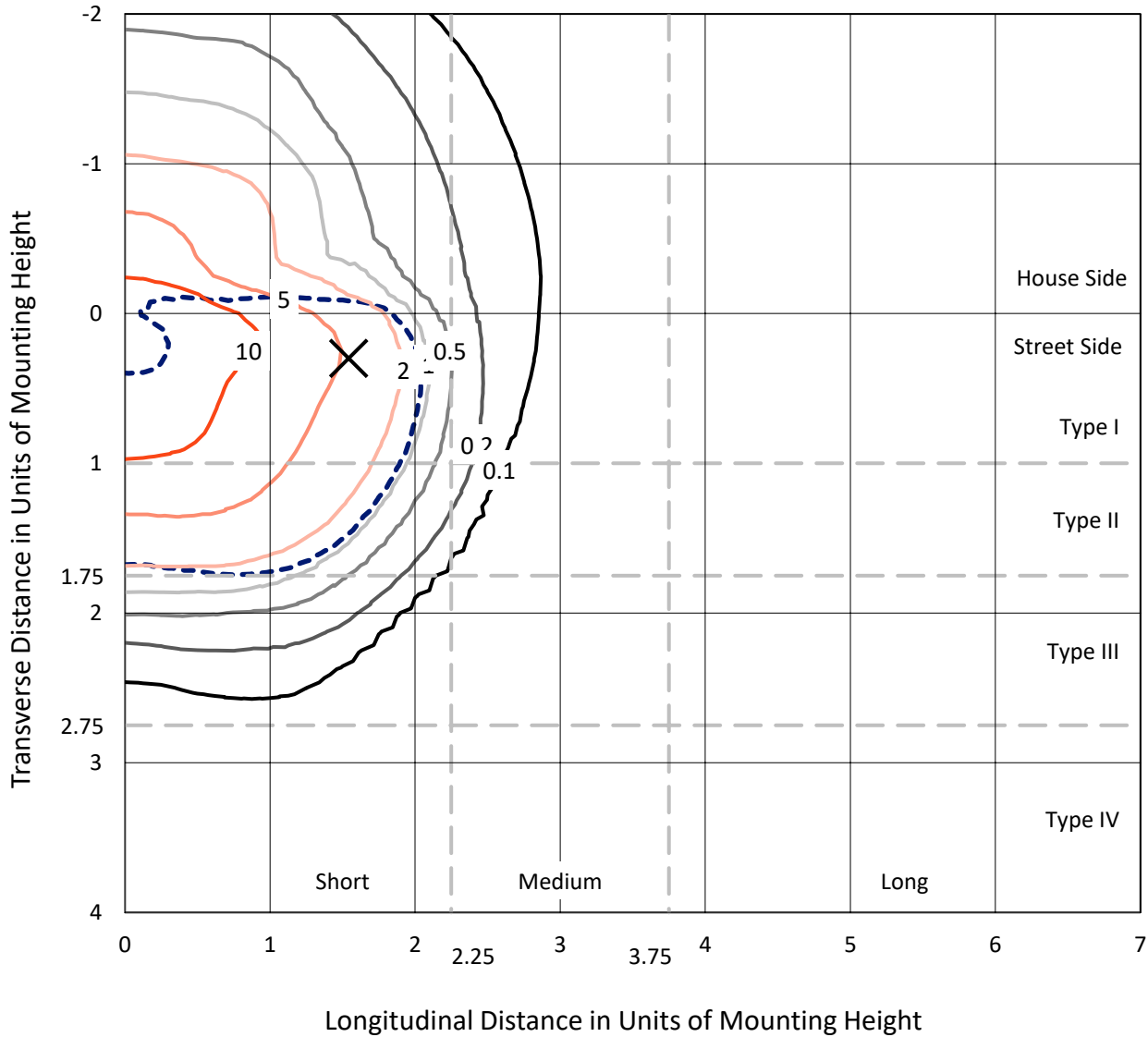
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

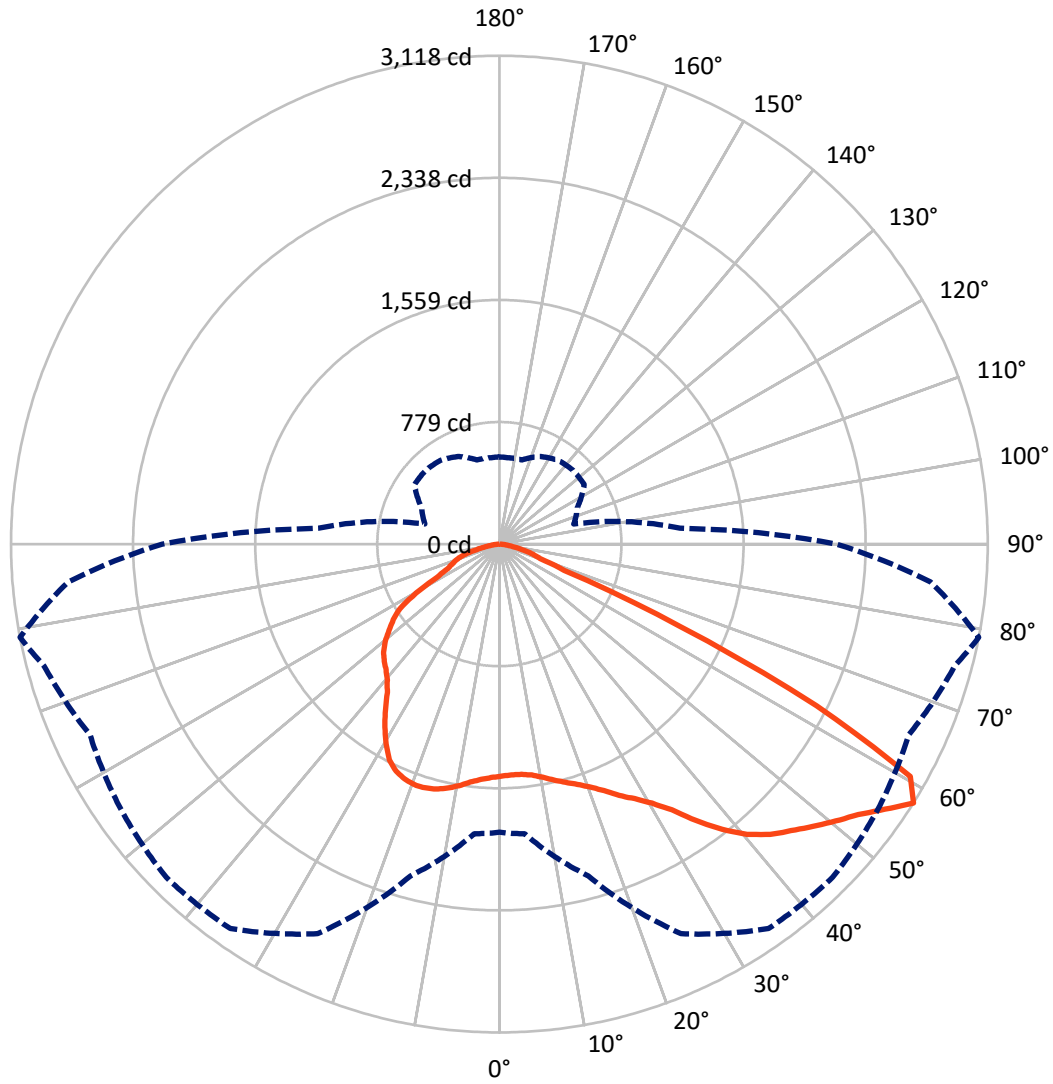
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.9 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	1776.7	0.0	1776.7
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	4200.3	0.0	4200.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	5977.0	0.0	5977.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.3
10°-20°	381.2	6.4
20°-30°	646.2	10.8
30°-40°	989.0	16.5
40°-50°	1318.8	22.1
50°-60°	1523.1	25.5
60°-70°	791.5	13.2
70°-80°	168.2	2.8
80°-90°	21.8	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°	5977.0	100.0
0°-180°	5977.0	100.0

Coefficient of Utilization



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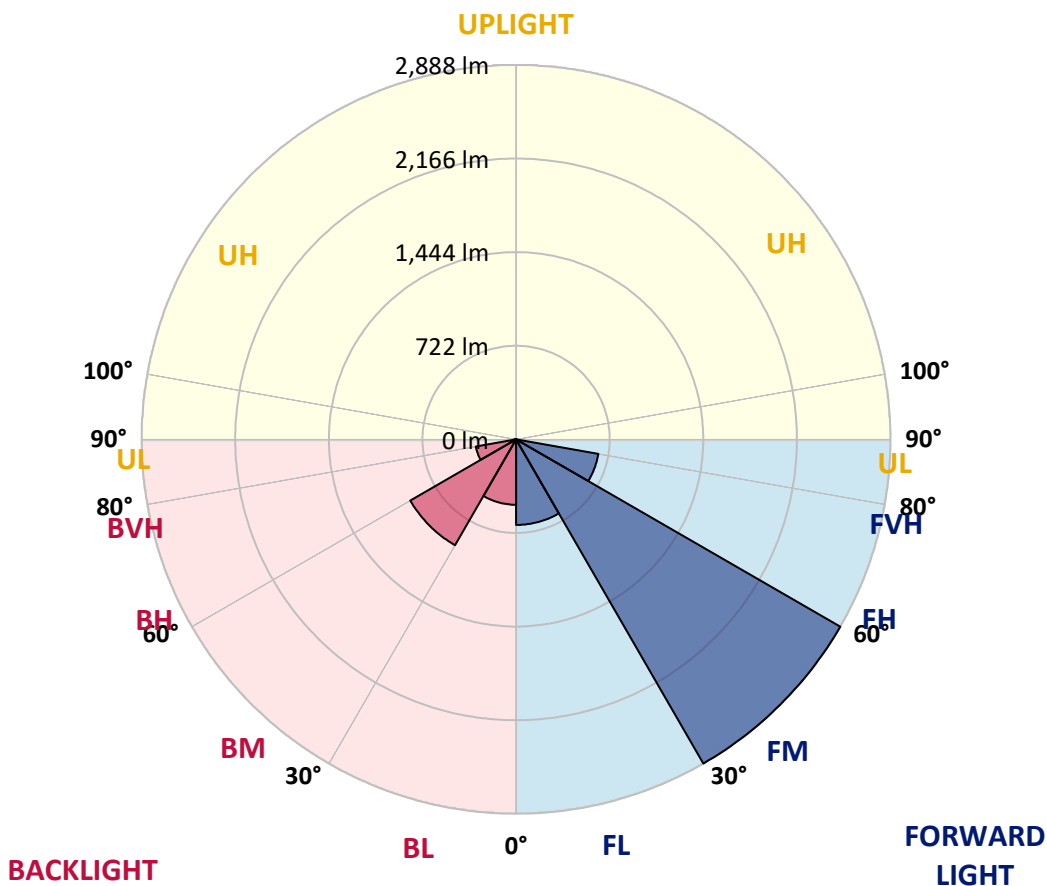
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.0	11.0			
FM (30°-60°)	2888.3	48.3			
FH (60°-80°)	644.5	10.8			G0/660
FVH (80°-90°)	7.6	0.1			G0/10
BL (0°-30°)	504.6	8.4	B2/1000		
BM (30°-60°)	942.7	15.8	B1/1000		
BH (60°-80°)	315.2	5.3	B1/500		G1/500
BVH (80°-90°)	14.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1413.8	1410.9	1411.8	1415.8	1430.4	1441.2	1452.4	1462.7	1472.4	1475.4	1477.8
5°	1363.5	1358.1	1359.6	1365.9	1383.0	1401.1	1421.1	1445.6	1469.0	1476.8	1487.1
7.5°	1327.8	1326.8	1329.3	1339.0	1357.1	1374.2	1400.1	1434.8	1475.4	1488.6	1506.7
10°	1280.4	1278.4	1288.2	1308.2	1338.1	1365.4	1396.2	1437.3	1493.9	1513.5	1541.3
12.5°	1242.8	1241.8	1252.0	1279.9	1318.0	1361.5	1404.0	1450.0	1518.9	1545.7	1580.0
15°	1264.7	1260.3	1260.8	1280.4	1314.6	1365.9	1423.6	1472.9	1543.8	1578.0	1622.0
17.5°	1328.8	1320.9	1315.1	1318.5	1338.1	1391.3	1453.4	1503.7	1572.6	1612.7	1666.5
20°	1417.2	1412.8	1396.7	1385.9	1390.3	1437.3	1500.3	1547.2	1610.3	1655.2	1712.9
22.5°	1536.0	1525.2	1503.2	1486.1	1472.9	1509.6	1567.7	1608.3	1662.5	1709.5	1769.6
25°	1683.1	1667.4	1632.7	1605.9	1577.5	1615.1	1666.9	1697.7	1734.4	1777.9	1835.1
27.5°	1833.1	1819.9	1781.3	1745.1	1709.9	1733.4	1795.0	1812.6	1808.7	1840.4	1889.3
30°	1992.9	1976.3	1939.6	1900.5	1855.1	1870.2	1925.5	1934.3	1892.7	1919.1	1952.3
32.5°	2161.5	2145.4	2113.6	2068.2	2016.9	2022.7	2037.9	2046.2	2006.6	2021.7	2047.1
35°	2333.0	2317.9	2285.6	2240.7	2203.0	2167.4	2129.3	2162.5	2139.5	2168.8	2166.9
37.5°	2489.9	2474.8	2454.7	2420.0	2355.5	2285.1	2197.2	2238.2	2273.9	2311.0	2304.7
40°	2596.0	2585.7	2590.6	2585.2	2502.1	2362.8	2230.4	2275.4	2372.6	2436.2	2432.7
42.5°	2687.3	2677.1	2705.4	2725.9	2628.2	2434.7	2246.5	2289.5	2435.7	2534.9	2530.0
45°	2727.9	2725.0	2771.9	2836.9	2743.5	2510.9	2288.1	2318.9	2483.6	2610.6	2592.0
47.5°	2679.5	2689.8	2782.1	2892.1	2839.3	2601.3	2373.1	2380.9	2546.1	2692.7	2640.4
50°	2583.2	2605.7	2730.3	2893.6	2909.2	2703.5	2490.9	2471.3	2630.2	2780.2	2665.8
52.5°	2443.0	2466.5	2669.7	2882.3	2949.3	2821.7	2647.8	2619.9	2736.2	2867.7	2670.2
55°	2120.9	2152.7	2531.0	2856.9	2988.4	2929.2	2824.7	2768.0	2873.0	2987.9	2713.7
57.5°	1839.9	1856.6	2192.8	2744.0	2996.2	3008.4	2950.7	2883.3	3008.9	3117.9	2762.6
60°	1350.3	1354.2	1656.7	2270.5	2756.2	2962.5	2940.5	2840.3	2944.4	3013.8	2538.8
62.5°	762.9	763.3	1004.8	1515.4	2058.9	2414.6	2428.3	2339.9	2252.4	2272.9	1767.1
65°	286.4	313.3	458.9	744.8	1187.0	1425.5	1482.2	1502.7	1357.1	1266.7	947.6
67.5°	191.6	197.9	267.8	383.1	528.3	609.9	682.2	684.2	500.4	446.2	373.4
70°	146.1	152.5	210.6	274.2	267.8	247.3	267.3	260.0	268.8	276.1	283.9
72.5°	109.0	115.3	163.2	193.5	160.8	158.3	179.4	199.4	218.0	225.8	238.0
75°	72.3	77.2	110.0	103.6	88.9	105.1	131.0	151.0	161.8	171.0	180.3
77.5°	45.9	49.4	58.6	47.4	49.4	61.6	76.2	94.3	104.6	113.9	118.8
80°	21.0	20.5	20.0	22.5	27.9	36.2	45.9	56.7	64.5	68.4	71.3
82.5°	8.3	9.3	10.3	12.2	15.1	19.5	25.9	33.2	39.6	40.6	43.0
85°	3.4	3.9	4.4	5.4	6.8	8.8	10.8	15.1	19.1	20.5	22.0
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.4	4.4	4.9	5.4
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°	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2	1481.2
2.5°	1491.0	1484.7	1495.4	1502.7	1509.6	1502.3	1499.8	1493.5	1492.5	1492.5	1495.9
5°	1504.7	1500.3	1511.5	1515.9	1515.4	1499.3	1489.5	1476.8	1470.5	1470.5	1471.5
7.5°	1529.1	1526.7	1533.0	1526.2	1510.6	1477.8	1445.6	1418.7	1400.6	1391.3	1394.3
10°	1569.7	1566.8	1561.4	1536.0	1491.0	1423.1	1357.1	1308.2	1278.9	1262.3	1263.3
12.5°	1609.3	1604.4	1585.3	1529.1	1436.8	1328.8	1242.3	1187.5	1155.3	1135.7	1131.3
15°	1652.8	1640.1	1599.0	1493.9	1348.3	1213.4	1123.0	1063.9	1029.2	1017.5	1017.0
17.5°	1694.3	1671.8	1597.5	1431.4	1242.3	1092.7	1001.8	965.2	959.3	964.7	966.2
20°	1736.3	1700.2	1581.4	1344.9	1116.2	972.5	925.6	940.7	962.7	977.4	980.8
22.5°	1779.8	1723.6	1544.8	1233.5	983.3	891.4	910.9	944.2	971.5	991.1	993.0
25°	1828.7	1745.6	1490.0	1097.1	876.7	868.9	907.5	942.7	972.0	994.5	998.4
27.5°	1856.6	1746.1	1413.3	956.9	827.9	860.1	899.2	932.4	961.8	986.2	990.6
30°	1883.9	1732.9	1291.6	843.0	813.7	849.8	885.0	915.8	943.7	967.6	973.0
32.5°	1922.5	1720.7	1151.4	777.5	805.4	840.1	868.9	896.3	917.8	928.5	931.5
35°	1970.4	1705.1	1002.3	749.2	800.0	832.2	857.7	872.3	844.5	838.6	845.0
37.5°	2037.4	1690.4	853.8	737.0	796.6	829.3	851.8	814.2	780.0	766.3	771.2
40°	2109.7	1682.1	753.1	727.2	798.0	832.2	827.4	771.7	722.3	693.5	692.5
42.5°	2171.3	1669.4	688.6	720.8	802.0	843.5	794.1	734.0	660.7	643.6	644.1
45°	2212.8	1637.1	654.4	714.0	805.4	845.9	778.5	682.2	629.9	619.2	618.7
47.5°	2229.9	1578.5	632.4	703.2	804.9	825.9	746.7	660.7	608.4	605.5	607.4
50°	2218.7	1482.2	609.9	682.2	793.2	804.9	710.1	641.7	593.8	609.9	621.6
52.5°	2177.1	1357.6	583.0	653.4	772.1	780.9	691.5	629.9	583.0	604.5	613.8
55°	2166.4	1256.4	548.8	615.8	740.9	738.4	672.0	624.1	575.7	567.4	568.8
57.5°	2152.2	1157.7	492.1	548.3	661.7	665.6	653.4	617.2	556.6	554.2	556.6
60°	1869.8	887.5	438.8	473.1	543.4	564.4	632.4	604.5	525.8	515.6	515.1
62.5°	1221.3	537.6	390.5	412.5	442.8	467.2	576.7	567.9	492.1	485.8	490.2
65°	656.8	383.1	355.3	368.5	385.1	403.7	477.9	505.8	444.7	422.2	422.7
67.5°	335.7	326.0	328.9	338.2	350.9	360.2	385.6	410.0	379.2	360.2	359.7
70°	287.4	295.2	299.6	304.9	313.3	311.8	314.2	318.6	316.2	306.9	306.4
72.5°	244.8	257.1	258.0	259.0	261.9	255.1	250.7	243.4	243.9	245.3	245.8
75°	186.2	197.9	200.9	199.4	202.3	193.5	187.7	180.3	171.5	170.1	171.0
77.5°	121.2	130.5	134.9	133.9	135.4	128.5	125.6	117.8	107.5	103.6	103.6
80°	73.3	78.7	82.1	83.1	84.5	79.7	74.8	67.9	63.5	59.1	59.1
82.5°	44.5	47.9	50.3	50.3	51.8	46.4	42.5	37.6	35.7	31.8	31.8
85°	22.5	24.9	25.9	25.4	24.4	20.0	18.6	16.1	15.1	13.2	13.2
87.5°	5.4	6.8	6.8	4.9	4.9	2.4	1.5	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)