

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: P631901

Luminaire Tested: GWS-SA2B-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631901
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-SA2B-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6189.2 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

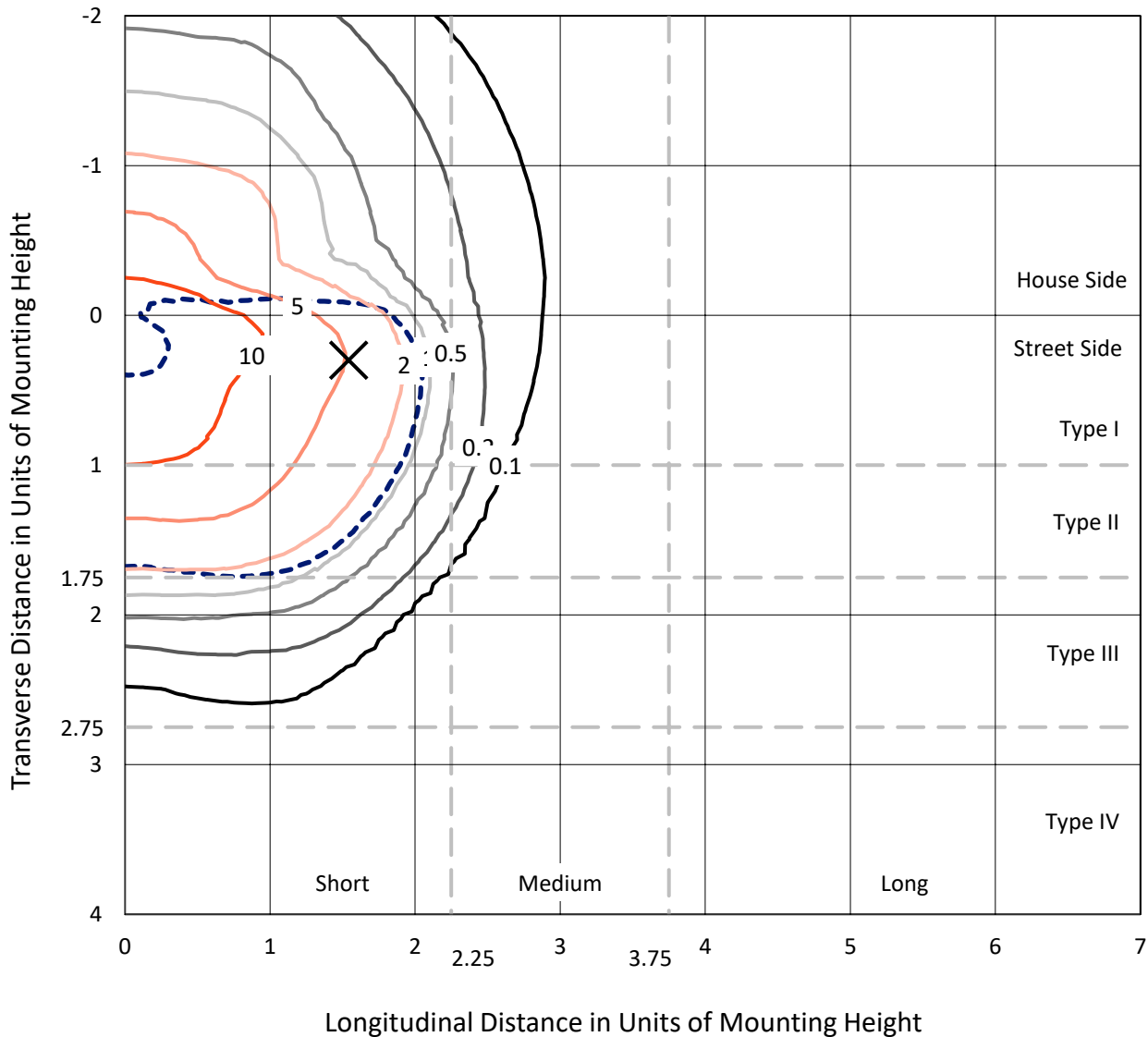
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

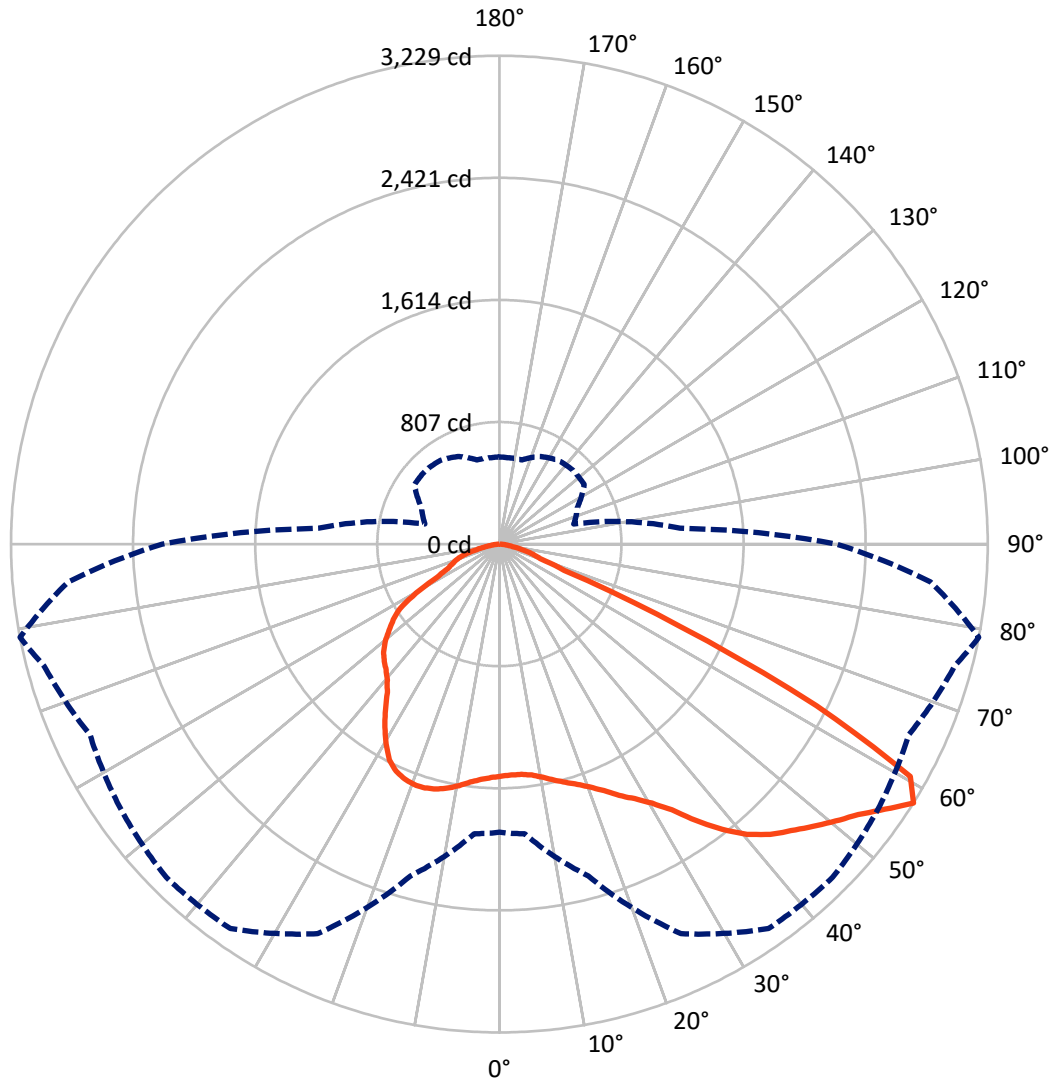
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 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	1839.8	0.0	1839.8
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	4349.4	0.0	4349.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	6189.2	0.0	6189.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	2.3
10°-20°	394.7	6.4
20°-30°	669.1	10.8
30°-40°	1024.2	16.5
40°-50°	1365.6	22.1
50°-60°	1577.2	25.5
60°-70°	819.6	13.2
70°-80°	174.2	2.8
80°-90°	22.6	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°	6189.2	100.0
0°-180°	6189.2	100.0

Coefficient of Utilization



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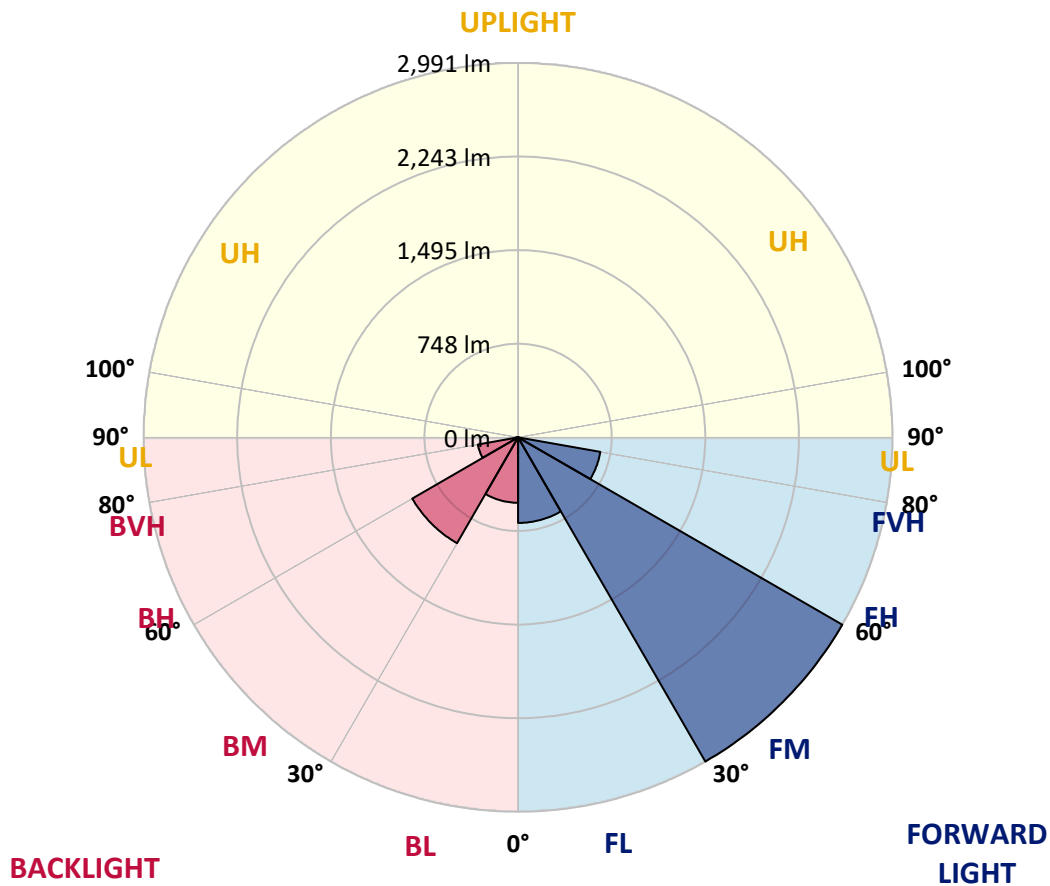
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.4	11.0			
FM (30°-60°)	2990.8	48.3			
FH (60°-80°)	667.3	10.8			G1/1800
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	522.5	8.4	B2/1000		
BM (30°-60°)	976.2	15.8	B1/1000		
BH (60°-80°)	326.4	5.3	B1/500		G1/500
BVH (80°-90°)	14.7	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°	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1464.0	1461.0	1462.0	1466.0	1481.2	1492.3	1504.0	1514.6	1524.7	1527.8	1530.3
5°	1411.9	1406.3	1407.8	1414.4	1432.1	1450.8	1471.6	1496.9	1521.2	1529.3	1539.9
7.5°	1374.9	1373.9	1376.4	1386.6	1405.3	1423.0	1449.8	1485.8	1527.8	1541.4	1560.1
10°	1325.8	1323.8	1333.9	1354.7	1385.6	1413.9	1445.8	1488.3	1547.0	1567.2	1596.1
12.5°	1286.9	1285.9	1296.5	1325.3	1364.8	1409.8	1453.9	1501.4	1572.8	1600.6	1636.0
15°	1309.6	1305.1	1305.6	1325.8	1361.3	1414.4	1474.1	1525.2	1598.6	1634.0	1679.6
17.5°	1375.9	1367.8	1361.8	1365.3	1385.6	1440.7	1505.0	1557.1	1628.5	1670.0	1725.6
20°	1467.5	1463.0	1446.3	1435.1	1439.7	1488.3	1553.6	1602.1	1667.4	1714.0	1773.7
22.5°	1590.5	1579.4	1556.6	1538.9	1525.2	1563.2	1623.4	1665.4	1721.6	1770.2	1832.4
25°	1742.8	1726.6	1690.7	1662.9	1633.5	1672.5	1726.1	1758.0	1796.0	1841.0	1900.2
27.5°	1898.2	1884.5	1844.5	1807.1	1770.7	1794.9	1858.7	1876.9	1872.9	1905.8	1956.4
30°	2063.7	2046.5	2008.5	1968.0	1921.0	1936.6	1993.8	2002.9	1959.9	1987.2	2021.7
32.5°	2238.2	2221.5	2188.7	2141.6	2088.5	2094.5	2110.2	2118.8	2077.8	2093.5	2119.8
35°	2415.9	2400.2	2366.8	2320.2	2281.3	2244.3	2204.8	2239.3	2215.5	2245.8	2243.8
37.5°	2578.3	2562.6	2541.9	2505.9	2439.1	2366.3	2275.2	2317.7	2354.6	2393.1	2386.5
40°	2688.1	2677.5	2682.6	2677.0	2591.0	2446.7	2309.6	2356.2	2456.9	2522.6	2519.1
42.5°	2782.7	2772.1	2801.5	2822.7	2721.5	2521.1	2326.3	2370.8	2522.1	2624.9	2619.8
45°	2824.8	2821.7	2870.3	2937.6	2840.9	2600.1	2369.3	2401.2	2571.7	2703.3	2684.1
47.5°	2774.7	2785.3	2880.9	2994.8	2940.1	2693.7	2457.4	2465.5	2636.5	2788.3	2734.2
50°	2675.0	2698.2	2827.3	2996.3	3012.5	2799.4	2579.3	2559.1	2723.5	2878.9	2760.5
52.5°	2529.7	2554.0	2764.5	2984.7	3054.0	2921.9	2741.8	2712.9	2833.4	2969.5	2765.0
55°	2196.2	2229.1	2620.8	2958.3	3094.5	3033.2	2924.9	2866.2	2975.0	3094.0	2810.1
57.5°	1905.3	1922.5	2270.6	2841.5	3102.6	3115.2	3055.5	2985.7	3115.7	3228.6	2860.7
60°	1398.2	1402.3	1715.5	2351.1	2854.1	3067.7	3044.9	2941.1	3048.9	3120.8	2628.9
62.5°	789.9	790.4	1040.4	1569.3	2132.0	2500.4	2514.5	2423.0	2332.4	2353.6	1829.9
65°	296.5	324.4	475.2	771.2	1229.2	1476.1	1534.8	1556.1	1405.3	1311.7	981.2
67.5°	198.4	204.9	277.3	396.7	547.0	631.5	706.4	708.5	518.2	462.0	386.6
70°	151.3	157.9	218.1	283.9	277.3	256.1	276.8	269.2	278.3	285.9	294.0
72.5°	112.8	119.4	169.0	200.4	166.5	164.0	185.7	206.5	225.7	233.8	246.4
75°	74.9	80.0	113.9	107.3	92.1	108.8	135.6	156.4	167.5	177.1	186.7
77.5°	47.6	51.1	60.7	49.1	51.1	63.8	78.9	97.7	108.3	117.9	123.0
80°	21.8	21.3	20.7	23.3	28.8	37.4	47.6	58.7	66.8	70.8	73.9
82.5°	8.6	9.6	10.6	12.7	15.7	20.2	26.8	34.4	41.0	42.0	44.5
85°	3.5	4.0	4.6	5.6	7.1	9.1	11.1	15.7	19.7	21.3	22.8
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.5	4.6	5.1	5.6
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°	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1543.9	1537.4	1548.5	1556.1	1563.2	1555.6	1553.1	1546.5	1545.5	1545.5	1549.0
5°	1558.1	1553.6	1565.2	1569.8	1569.3	1552.6	1542.4	1529.3	1522.7	1522.7	1523.7
7.5°	1583.4	1580.9	1587.5	1580.4	1564.2	1530.3	1496.9	1469.1	1450.3	1440.7	1443.8
10°	1625.4	1622.4	1616.8	1590.5	1543.9	1473.6	1405.3	1354.7	1324.3	1307.1	1308.1
12.5°	1666.4	1661.4	1641.6	1583.4	1487.8	1375.9	1286.4	1229.7	1196.3	1176.1	1171.5
15°	1711.4	1698.3	1655.8	1547.0	1396.2	1256.5	1162.9	1101.7	1065.7	1053.6	1053.1
17.5°	1754.5	1731.2	1654.3	1482.2	1286.4	1131.5	1037.4	999.4	993.4	998.9	1000.5
20°	1798.0	1760.5	1637.6	1392.6	1155.8	1007.0	958.5	974.1	996.9	1012.1	1015.6
22.5°	1843.0	1784.8	1599.6	1277.3	1018.2	923.0	943.3	977.7	1006.0	1026.3	1028.3
25°	1893.6	1807.6	1542.9	1136.1	907.8	899.8	939.7	976.2	1006.5	1029.8	1033.9
27.5°	1922.5	1808.1	1463.5	990.8	857.2	890.6	931.1	965.5	995.9	1021.2	1025.8
30°	1950.8	1794.4	1337.5	872.9	842.6	880.0	916.5	948.3	977.2	1002.0	1007.5
32.5°	1990.8	1781.8	1192.2	805.1	834.0	869.9	899.8	928.1	950.4	961.5	964.5
35°	2040.4	1765.6	1037.9	775.8	828.4	861.8	888.1	903.3	874.4	868.4	875.0
37.5°	2109.7	1750.4	884.1	763.1	824.9	858.8	882.0	843.1	807.7	793.5	798.5
40°	2184.6	1741.8	779.8	753.0	826.4	861.8	856.7	799.0	747.9	718.1	717.1
42.5°	2248.4	1728.7	713.0	746.4	830.4	873.4	822.3	760.1	684.2	666.5	667.0
45°	2291.4	1695.3	677.6	739.3	834.0	876.0	806.1	706.4	652.3	641.2	640.7
47.5°	2309.1	1634.5	654.8	728.2	833.5	855.2	773.2	684.2	630.0	627.0	629.0
50°	2297.5	1534.8	631.5	706.4	821.3	833.5	735.3	664.4	614.8	631.5	643.7
52.5°	2254.4	1405.8	603.7	676.6	799.6	808.7	716.1	652.3	603.7	626.0	635.6
55°	2243.3	1301.0	568.3	637.6	767.2	764.6	695.8	646.2	596.1	587.5	589.0
57.5°	2228.6	1198.8	509.6	567.8	685.2	689.2	676.6	639.1	576.4	573.9	576.4
60°	1936.1	919.0	454.4	489.9	562.7	584.5	654.8	626.0	544.5	533.9	533.4
62.5°	1264.6	556.7	404.3	427.1	458.5	483.8	597.1	588.0	509.6	503.0	507.6
65°	680.1	396.7	367.9	381.6	398.8	418.0	494.9	523.8	460.5	437.2	437.7
67.5°	347.7	337.5	340.6	350.2	363.3	373.0	399.3	424.6	392.7	373.0	372.5
70°	297.6	305.7	310.2	315.8	324.4	322.9	325.4	329.9	327.4	317.8	317.3
72.5°	253.5	266.2	267.2	268.2	271.2	264.2	259.6	252.0	252.5	254.0	254.5
75°	192.8	204.9	208.0	206.5	209.5	200.4	194.3	186.7	177.6	176.1	177.1
77.5°	125.5	135.1	139.7	138.7	140.2	133.1	130.1	122.0	111.3	107.3	107.3
80°	75.9	81.5	85.0	86.0	87.5	82.5	77.4	70.3	65.8	61.2	61.2
82.5°	46.1	49.6	52.1	52.1	53.6	48.1	44.0	39.0	36.9	32.9	32.9
85°	23.3	25.8	26.8	26.3	25.3	20.7	19.2	16.7	15.7	13.7	13.7
87.5°	5.6	7.1	7.1	5.1	5.1	2.5	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)