

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: P631045

Luminaire Tested: GWS-SA1E-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-830-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5126.9 lumens
Efficiency: N/A
Efficacy: 87.8 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

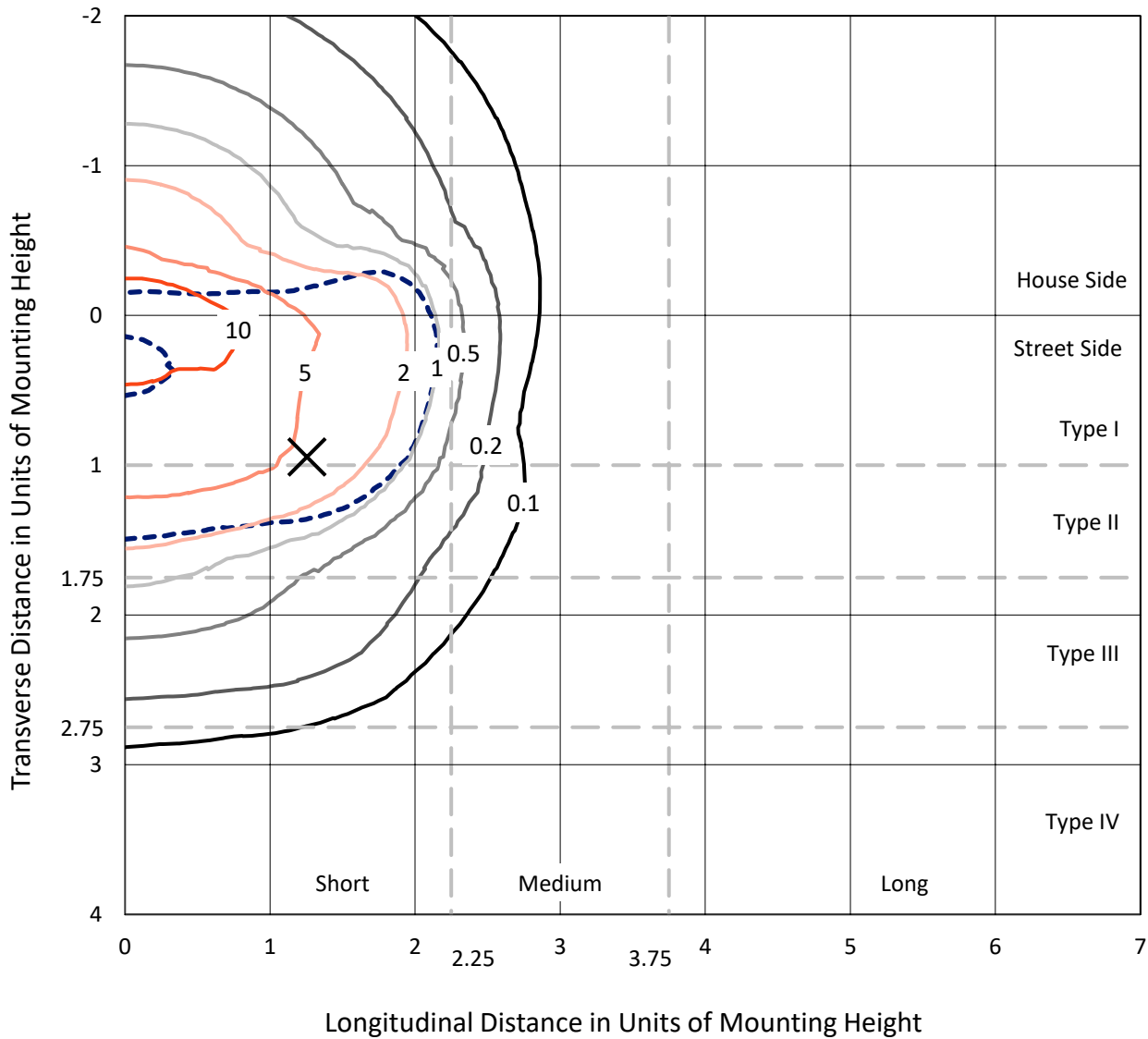
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

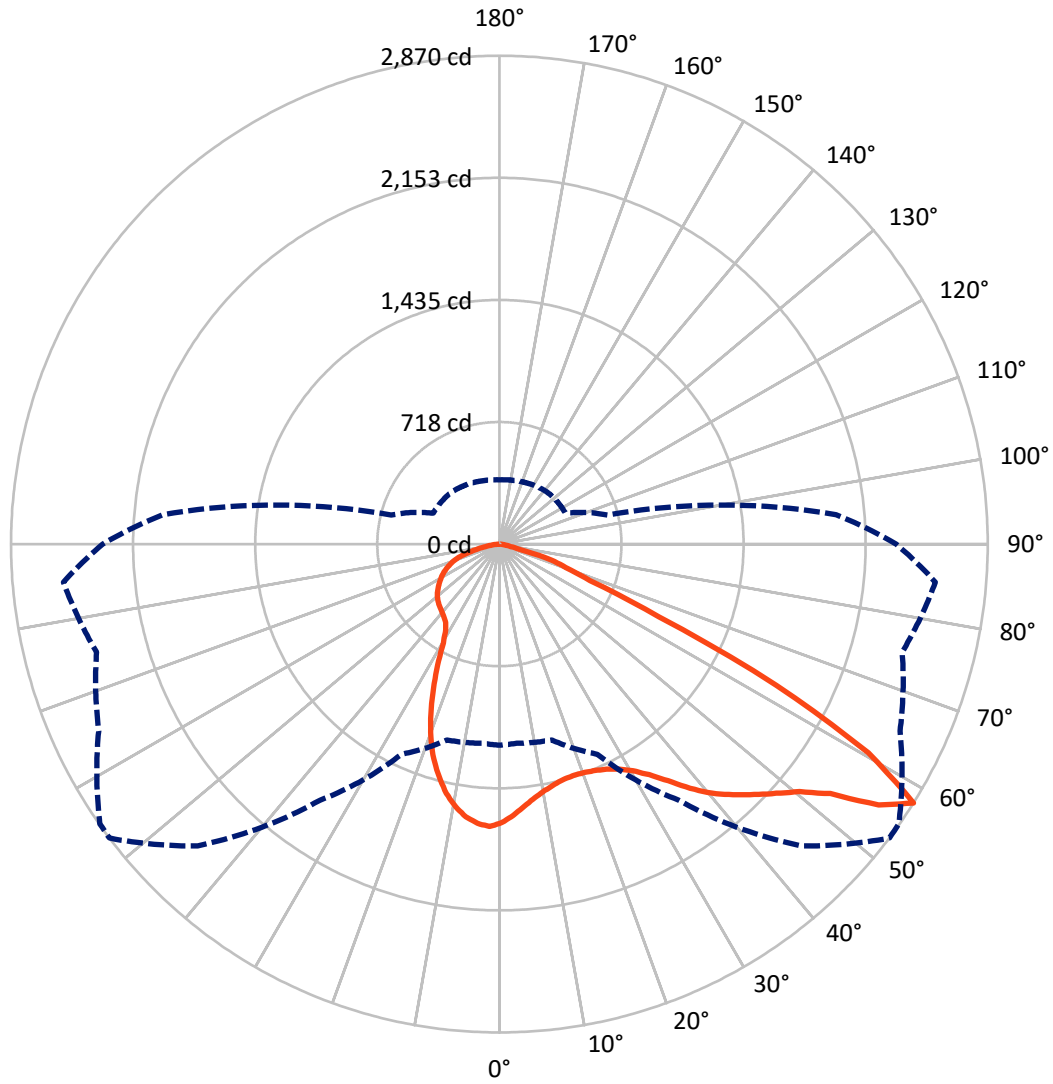
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1603.0	0.0	1603.0
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	3523.9	0.0	3523.9
	% Fixture	68.7	0.0	68.7
Total	Lumens	5126.9	0.0	5126.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	2.9
10°-20°	388.4	7.6
20°-30°	572.3	11.2
30°-40°	801.0	15.6
40°-50°	1053.0	20.5
50°-60°	1234.6	24.1
60°-70°	727.3	14.2
70°-80°	180.9	3.5
80°-90°	21.2	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°	5126.9	100.0
0°-180°	5126.9	100.0

Coefficient of Utilization



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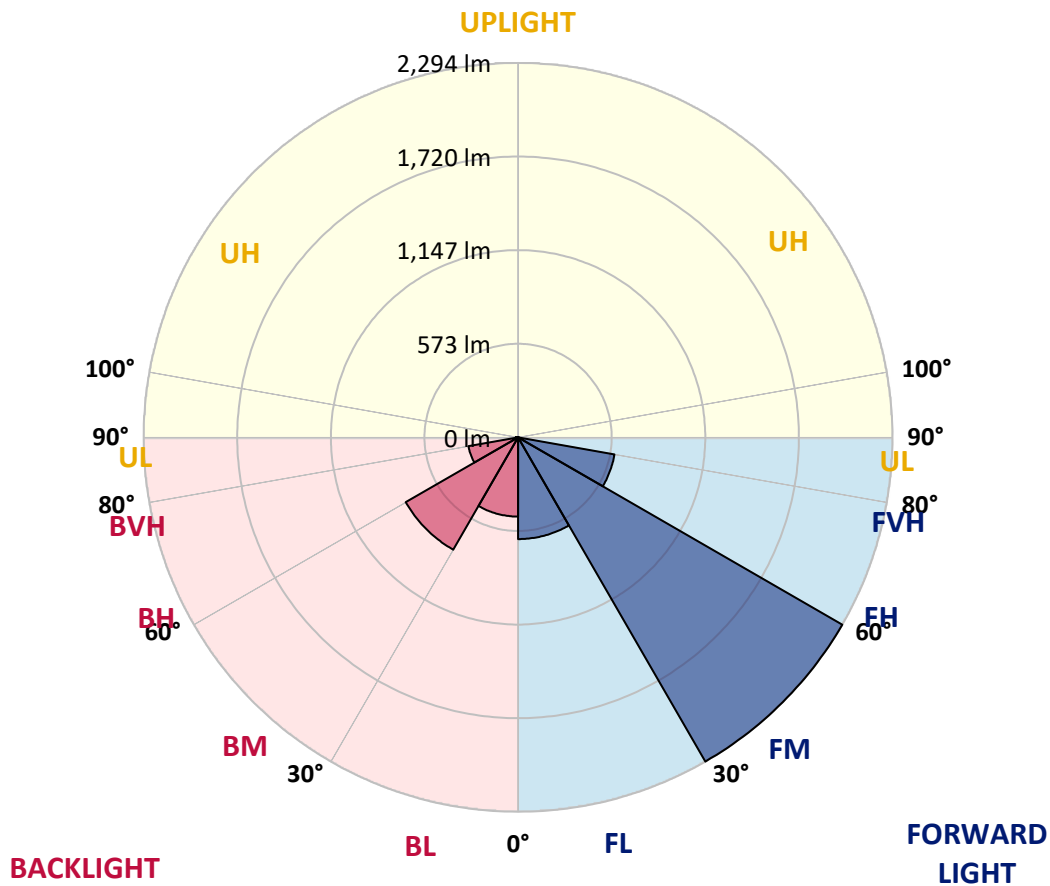
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.3	12.2			
FM (30°-60°)	2293.8	44.7			
FH (60°-80°)	599.7	11.7			G0/660
FVH (80°-90°)	7.1	0.1			G0/10
BL (0°-30°)	485.4	9.5	B1/500		
BM (30°-60°)	794.8	15.5	B1/1000		
BH (60°-80°)	308.6	6.0	B1/500		G1/500
BVH (80°-90°)	14.1	0.3			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°	53°	55°	65°	75°	85°
0°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1543.1	1547.4	1548.3	1561.6	1562.5	1581.9	1594.9	1592.3	1605.7	1622.1	1635.0
5°	1469.3	1469.7	1474.0	1490.0	1498.6	1524.1	1545.7	1545.7	1571.6	1605.2	1634.1
7.5°	1408.5	1408.0	1411.9	1429.6	1443.8	1474.5	1503.8	1507.3	1543.5	1592.7	1639.7
10°	1351.9	1354.9	1359.3	1380.8	1399.0	1436.9	1471.9	1477.5	1523.2	1584.1	1647.5
12.5°	1315.7	1316.1	1322.6	1346.7	1370.1	1410.6	1447.3	1454.2	1506.8	1575.9	1653.1
15°	1292.4	1292.8	1299.7	1326.5	1353.7	1394.6	1432.2	1440.0	1497.3	1574.6	1663.9
17.5°	1282.0	1281.6	1288.1	1314.8	1344.6	1387.3	1427.4	1436.9	1501.7	1584.5	1682.9
20°	1282.0	1282.5	1285.9	1310.1	1340.3	1385.6	1432.2	1443.8	1518.5	1607.0	1712.2
22.5°	1300.1	1301.9	1303.6	1320.0	1343.7	1388.2	1444.7	1460.2	1554.7	1644.5	1750.6
25°	1335.5	1336.0	1337.7	1351.1	1361.9	1395.5	1465.4	1488.7	1611.3	1699.3	1799.0
27.5°	1383.0	1389.0	1390.8	1399.4	1399.4	1413.6	1497.8	1531.4	1687.6	1778.3	1860.7
30°	1449.4	1451.6	1454.6	1464.1	1453.8	1447.7	1545.2	1588.4	1776.1	1873.6	1934.9
32.5°	1507.7	1512.5	1528.8	1544.4	1525.8	1506.8	1615.2	1666.1	1861.1	1972.9	2013.9
35°	1557.3	1569.0	1600.5	1635.0	1622.1	1603.1	1707.9	1761.0	1931.0	2044.1	2083.8
37.5°	1617.3	1626.4	1669.5	1725.6	1737.3	1728.2	1821.0	1859.0	1977.6	2062.2	2121.7
40°	1678.2	1692.0	1747.6	1825.3	1869.7	1876.2	1925.4	1950.9	1993.6	2026.8	2114.4
42.5°	1740.3	1764.0	1840.4	1931.0	2010.0	2024.7	2013.4	2024.2	1988.4	1978.1	2080.3
45°	1816.2	1844.3	1930.6	2046.2	2150.2	2173.1	2099.7	2089.8	1987.5	1959.5	2059.2
47.5°	1906.0	1934.0	2016.5	2151.1	2284.0	2300.8	2188.2	2170.1	2017.8	1988.0	2087.7
50°	1985.4	2004.8	2078.6	2229.2	2408.7	2418.6	2285.7	2263.7	2092.8	2066.9	2176.5
52.5°	1904.7	1902.5	1980.2	2165.8	2473.4	2593.0	2435.9	2414.7	2237.8	2198.1	2314.2
55°	1616.0	1591.4	1660.9	1843.4	2292.6	2747.9	2705.2	2662.9	2431.1	2330.2	2443.2
57.5°	1181.5	1174.6	1191.4	1362.7	1836.5	2507.9	2870.0	2866.1	2598.1	2451.0	2571.8
60°	923.9	913.5	868.6	873.4	1251.8	1959.1	2490.7	2605.0	2701.7	2523.5	2661.6
62.5°	820.3	812.5	789.2	724.9	745.7	1313.5	1825.7	1930.6	2360.8	2228.8	2286.2
65°	679.2	677.0	696.5	693.9	624.8	725.4	1030.5	1136.2	1484.4	1503.0	1484.4
67.5°	493.7	489.8	539.0	636.0	601.5	547.6	574.3	611.0	761.2	683.5	615.3
70°	321.0	315.4	343.9	459.6	538.5	477.3	413.8	407.8	418.6	260.2	281.3
72.5°	215.3	208.9	208.4	252.9	325.4	321.5	320.6	317.6	283.5	205.4	227.8
75°	120.0	114.8	113.5	109.2	116.5	118.7	126.4	130.7	141.5	155.8	172.6
77.5°	20.3	19.8	25.0	31.9	44.0	56.5	69.9	73.8	91.0	107.9	118.7
80°	11.2	11.7	15.1	18.6	24.6	33.7	43.2	45.7	56.1	65.2	73.8
82.5°	6.0	6.0	7.8	9.9	13.4	17.7	23.3	25.5	32.4	38.0	44.0
85°	2.2	2.2	3.0	3.9	5.6	7.3	9.1	10.4	14.2	19.4	22.0
87.5°	0.0	0.0	0.0	0.0	0.4	0.9	1.7	1.7	2.2	3.9	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°	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1645.8	1634.1	1650.1	1657.4	1660.0	1661.8	1650.5	1642.8	1640.2	1632.0	1627.2
5°	1651.8	1644.1	1659.2	1659.2	1648.4	1637.2	1614.3	1598.3	1587.1	1573.7	1571.6
7.5°	1662.2	1656.6	1664.8	1647.9	1620.8	1590.6	1550.9	1519.8	1494.8	1478.4	1478.8
10°	1676.0	1669.1	1662.6	1625.1	1575.5	1519.8	1458.9	1413.6	1372.2	1353.2	1342.9
12.5°	1685.1	1675.1	1647.9	1585.8	1512.9	1438.2	1352.4	1285.0	1225.1	1197.9	1195.7
15°	1696.3	1678.2	1623.8	1534.9	1433.5	1331.6	1221.2	1127.5	1046.4	1004.1	1002.0
17.5°	1710.9	1681.2	1594.9	1476.6	1349.8	1199.6	1060.7	942.9	856.6	823.8	829.4
20°	1731.7	1684.6	1562.1	1411.9	1245.8	1049.4	876.4	768.1	734.9	732.7	728.4
22.5°	1755.0	1686.8	1525.8	1339.4	1119.8	889.3	724.1	677.9	677.5	688.3	690.9
25°	1781.3	1688.5	1484.8	1254.8	983.4	729.7	640.4	626.6	637.3	657.6	660.2
27.5°	1814.9	1692.0	1435.2	1162.1	838.4	630.4	594.2	590.7	603.7	622.7	621.8
30°	1864.6	1704.5	1382.6	1055.5	689.6	583.4	566.1	566.6	571.8	580.8	582.1
32.5°	1915.1	1723.9	1331.2	935.5	604.1	556.7	548.9	548.0	548.0	551.9	552.8
35°	1962.9	1745.9	1275.6	810.4	562.7	541.1	535.9	533.3	532.1	531.2	529.9
37.5°	1989.7	1756.7	1221.2	687.0	540.7	530.8	525.6	522.1	517.4	513.9	513.1
40°	1978.1	1744.2	1158.2	594.6	527.3	520.8	514.8	510.0	503.6	500.6	498.8
42.5°	1939.2	1705.3	1089.6	551.0	516.5	510.0	502.7	494.9	490.6	488.0	487.6
45°	1898.2	1658.3	1006.7	525.6	506.2	498.4	489.8	481.1	476.4	475.1	474.7
47.5°	1896.9	1635.0	918.7	505.3	493.7	485.9	475.1	466.5	461.3	459.6	457.8
50°	1953.9	1658.7	819.4	487.6	480.7	472.5	460.4	450.9	444.5	442.3	441.9
52.5°	2072.1	1748.1	730.6	469.9	463.4	454.0	444.0	434.5	426.8	422.9	422.5
55°	2199.8	1861.5	675.3	451.8	443.2	435.0	425.9	415.5	406.9	400.9	400.0
57.5°	2331.9	1985.4	658.5	428.9	422.5	416.8	406.1	394.8	384.9	379.3	378.0
60°	2440.6	2092.0	690.0	404.8	401.3	394.0	384.0	373.3	366.4	362.0	361.2
62.5°	2043.2	1703.2	557.1	378.4	378.4	370.7	359.4	351.7	346.9	343.9	343.1
65°	1296.7	1054.6	380.2	352.1	351.7	341.3	331.8	326.7	324.5	319.8	318.9
67.5°	564.8	482.0	324.9	325.4	323.6	312.4	302.9	299.0	294.7	289.5	289.1
70°	293.0	298.6	290.8	295.6	292.6	279.2	270.1	264.1	255.0	249.8	250.3
72.5°	236.5	242.5	251.1	258.5	252.0	241.2	227.0	219.6	208.0	202.4	202.8
75°	180.4	186.8	195.0	202.8	197.6	184.3	175.2	167.9	154.5	148.0	149.3
77.5°	124.3	127.7	137.7	137.2	135.5	131.6	118.2	109.6	95.8	88.0	88.9
80°	77.2	79.4	84.1	86.3	85.4	80.3	69.5	63.0	54.8	50.1	50.5
82.5°	46.6	47.9	52.2	52.6	52.2	48.3	40.1	35.4	30.2	27.6	27.6
85°	23.7	24.6	27.2	27.2	24.6	20.7	18.6	16.4	13.4	12.1	12.1
87.5°	6.5	6.5	8.2	6.9	5.6	5.2	2.6	2.2	0.9	0.4	0.4
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)