

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: P631758

Luminaire Tested: GWS-SA2B-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7006.9 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

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

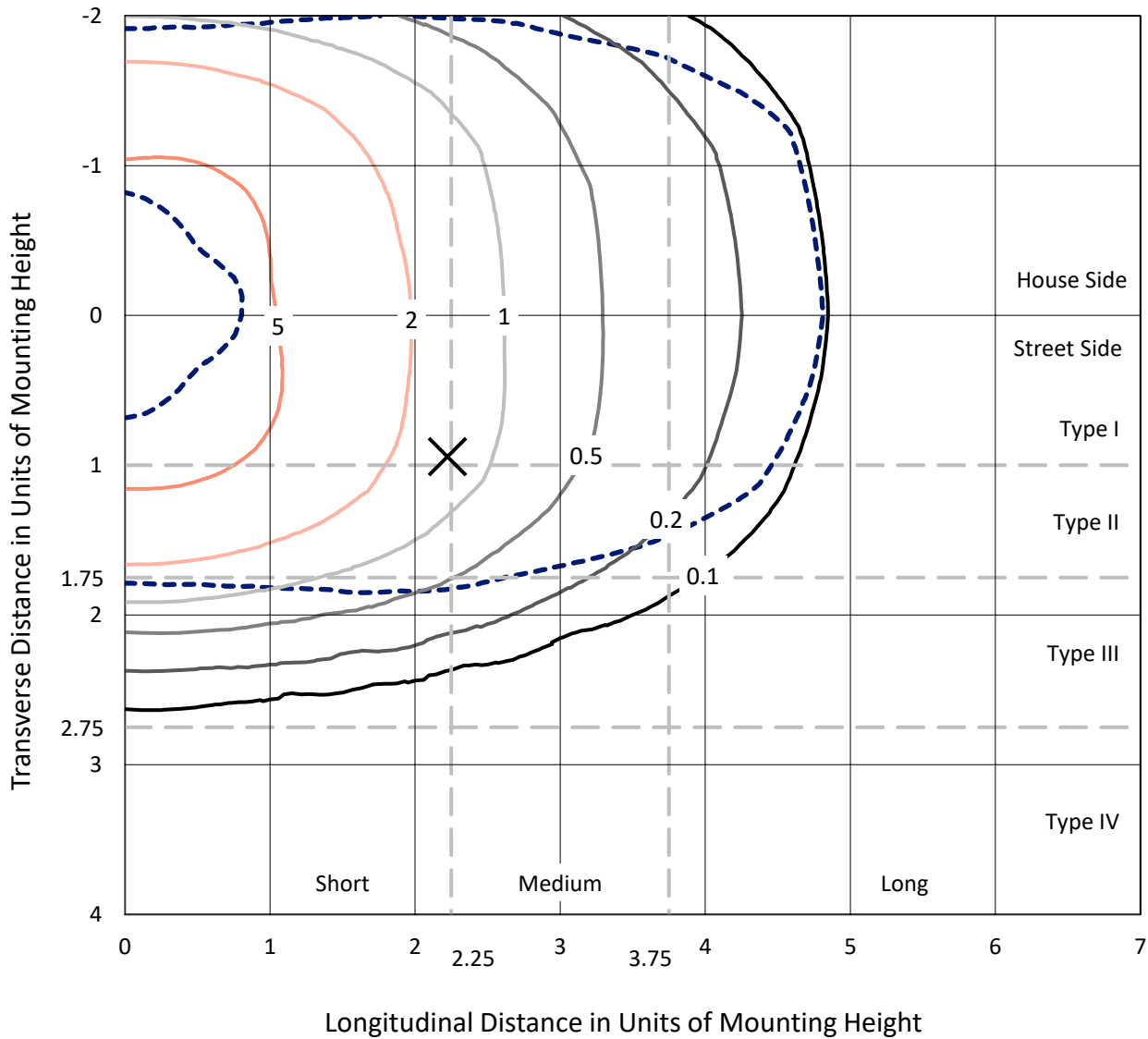


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Iso-Footcandle Lines of Horizontal Illumination

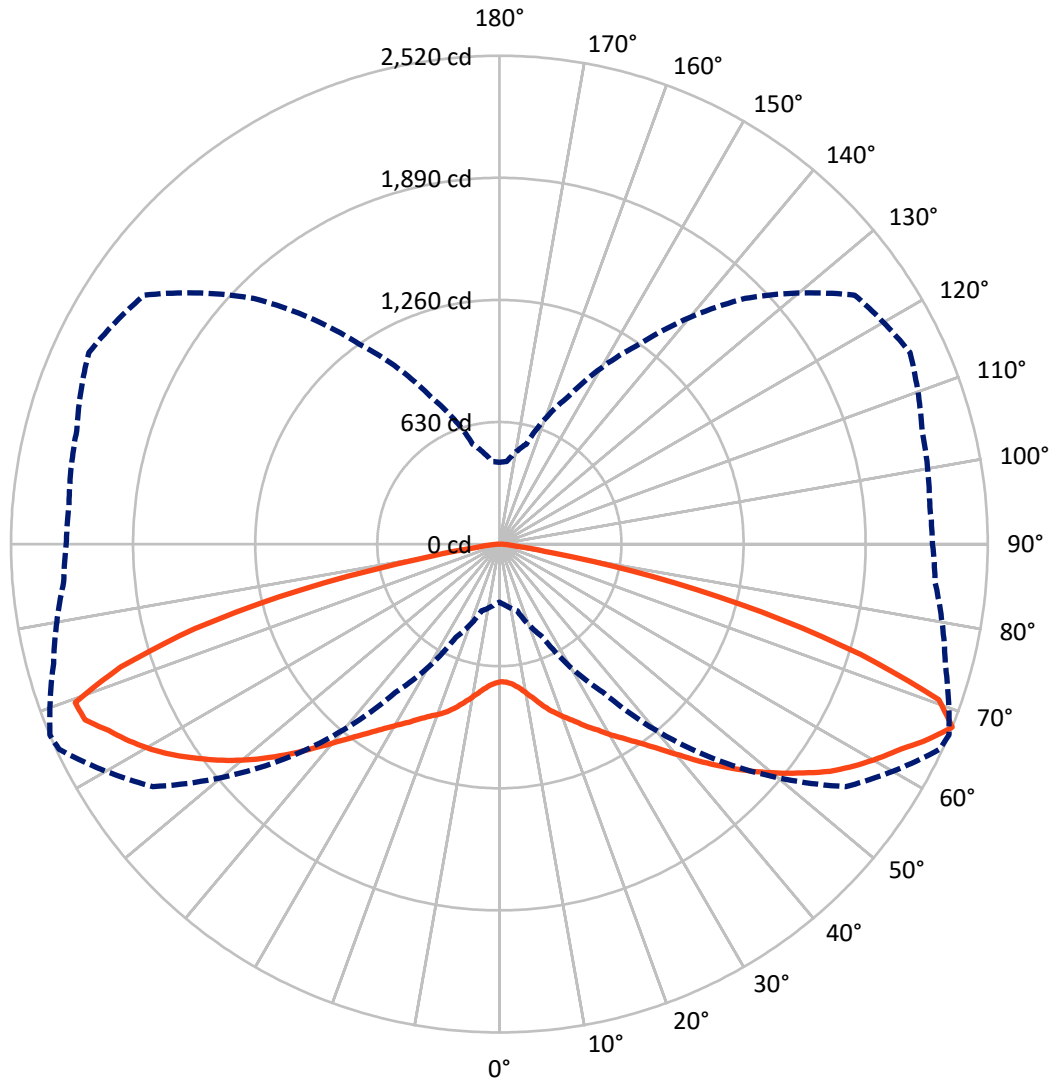
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3464.8	0.0	3464.8
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	3542.1	0.0	3542.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	7006.9	0.0	7006.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	1.0
10°-20°	235.2	3.4
20°-30°	461.4	6.6
30°-40°	786.1	11.2
40°-50°	1262.3	18.0
50°-60°	1715.2	24.5
60°-70°	1640.7	23.4
70°-80°	780.0	11.1
80°-90°	56.5	0.8
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°	7006.9	100.0
0°-180°	7006.9	100.0

Coefficient of Utilization



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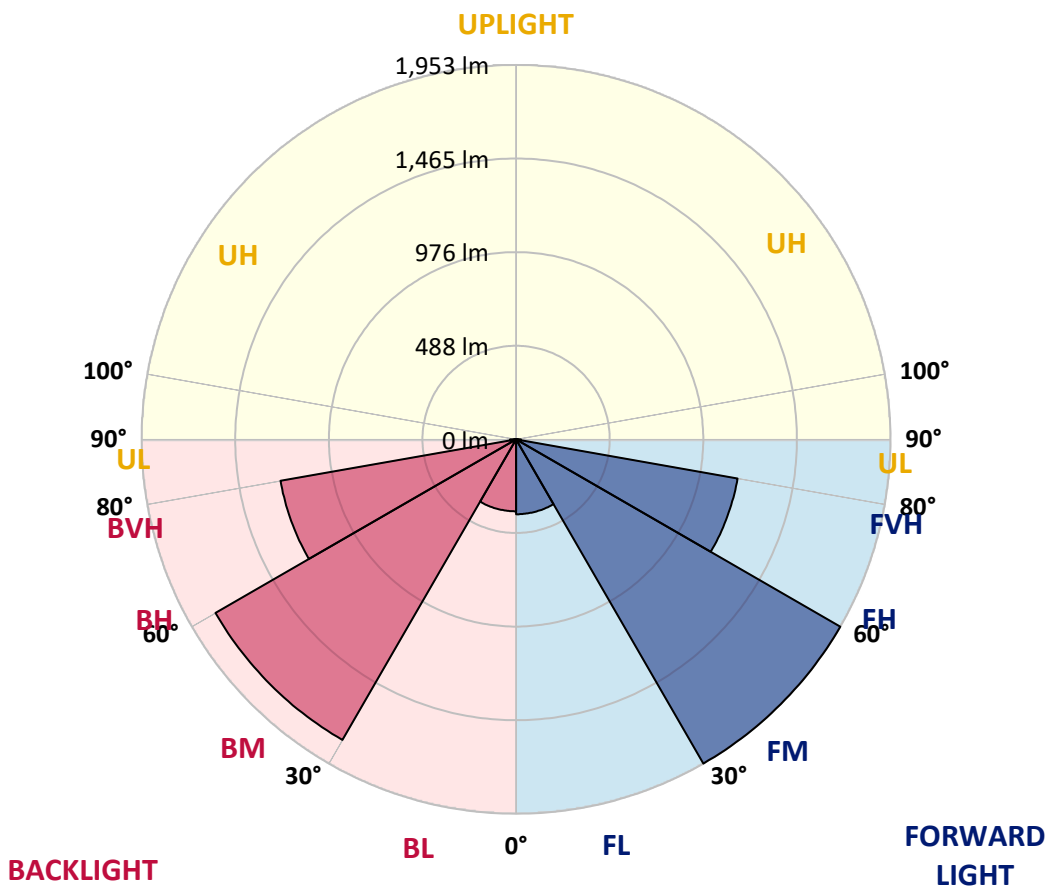
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	390.7	5.6			
FM (30°-60°)	1952.9	27.9			
FH (60°-80°)	1173.1	16.7			G1/1800
FVH (80°-90°)	25.4	0.4			G1/100
BL (0°-30°)	375.5	5.4	B1/500		
BM (30°-60°)	1810.6	25.8	B2/2500		
BH (60°-80°)	1247.6	17.8	B3/2500		G3/2500
BVH (80°-90°)	31.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	694.8	695.8	697.3	700.2	703.1	707.5	711.9	711.4	713.4	714.9	716.3
5°	690.9	691.9	694.4	698.3	702.7	710.0	719.2	723.2	726.1	731.4	736.3
7.5°	699.2	701.2	704.6	710.0	716.8	726.1	738.8	745.6	750.0	759.7	768.0
10°	710.5	712.9	719.7	730.0	740.2	754.4	770.5	780.7	783.7	796.3	812.0
12.5°	721.2	724.1	735.3	753.9	772.4	791.5	810.5	823.2	824.2	841.2	858.8
15°	738.3	740.7	755.8	779.8	808.1	834.4	857.8	866.6	870.5	882.7	904.7
17.5°	775.8	778.8	798.3	824.2	853.9	881.7	905.2	912.5	912.5	922.7	940.8
20°	816.3	819.3	845.1	878.3	914.4	942.7	960.8	954.0	951.5	954.4	967.1
22.5°	861.7	867.1	892.0	930.5	974.9	1009.6	1018.9	998.4	991.5	984.7	987.6
25°	919.8	926.1	950.5	991.5	1035.0	1071.6	1076.9	1045.2	1041.3	1017.4	1008.6
27.5°	986.6	991.5	1021.8	1062.3	1102.8	1133.5	1139.4	1100.3	1087.2	1054.0	1033.5
30°	1073.0	1077.4	1103.8	1143.8	1178.9	1200.4	1207.7	1154.0	1143.8	1093.0	1061.3
32.5°	1167.2	1169.1	1196.0	1234.5	1265.8	1286.3	1276.0	1213.5	1198.4	1141.3	1097.9
35°	1275.0	1275.0	1309.7	1340.9	1365.8	1371.6	1352.1	1280.9	1263.3	1201.3	1147.2
37.5°	1380.9	1383.8	1416.0	1453.1	1475.1	1474.1	1438.5	1360.4	1340.4	1273.1	1213.1
40°	1495.6	1501.9	1534.1	1575.6	1596.6	1593.7	1539.0	1452.2	1431.7	1352.1	1293.6
42.5°	1601.0	1611.2	1648.8	1691.3	1714.2	1712.2	1655.1	1557.6	1537.5	1447.8	1389.2
45°	1684.9	1695.6	1742.5	1801.5	1838.1	1834.7	1777.1	1666.9	1642.5	1548.3	1483.9
47.5°	1758.6	1769.8	1822.0	1884.5	1942.6	1948.4	1895.7	1777.1	1751.3	1656.1	1583.4
50°	1815.2	1820.6	1879.1	1947.4	2014.8	2047.5	2001.6	1887.9	1856.7	1762.5	1680.5
52.5°	1810.8	1818.1	1890.3	1983.1	2073.3	2127.0	2095.3	1992.3	1962.1	1859.6	1779.6
55°	1721.5	1728.8	1814.7	1949.9	2106.0	2185.1	2181.7	2091.9	2069.9	1958.7	1882.5
57.5°	1591.2	1607.3	1692.7	1838.6	2063.1	2231.4	2245.1	2182.6	2159.7	2055.8	1984.5
60°	1358.0	1379.5	1478.0	1667.3	1925.5	2215.8	2312.9	2259.2	2245.1	2146.0	2076.7
62.5°	986.6	1002.3	1133.5	1381.9	1721.5	2104.6	2370.0	2338.3	2327.5	2227.0	2160.2
65°	590.9	626.5	731.9	977.4	1388.7	1894.7	2338.8	2441.7	2430.5	2310.5	2231.4
67.5°	299.1	315.2	356.7	529.9	933.9	1567.8	2182.1	2506.1	2519.8	2381.7	2256.8
70°	185.4	189.8	201.5	261.5	466.5	1030.1	1784.5	2338.3	2405.1	2370.5	2190.9
72.5°	148.8	149.8	151.8	163.0	224.0	481.6	1128.2	1831.3	1951.8	2213.9	2096.7
75°	123.5	123.9	124.4	127.8	139.6	196.6	549.0	1258.4	1399.5	1881.6	1944.0
77.5°	99.1	96.6	98.6	100.0	103.0	109.8	189.3	671.4	814.4	1235.0	1503.4
80°	64.4	63.4	67.3	68.8	71.7	76.1	101.0	227.9	276.7	449.4	478.2
82.5°	34.6	32.7	41.0	39.5	41.0	44.4	59.5	83.4	93.7	135.7	114.7
85°	10.7	10.7	11.2	13.2	16.1	15.6	25.9	41.0	45.4	58.1	42.9
87.5°	2.0	2.0	2.0	2.0	2.0	2.4	5.4	8.3	11.2	20.0	15.1
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°	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5	709.5
2.5°	719.2	714.9	717.3	718.8	718.3	717.3	712.4	711.4	709.0	705.1	704.1
5°	740.7	735.8	736.3	734.9	730.0	723.6	712.9	707.5	703.1	698.3	697.8
7.5°	774.4	769.0	767.6	760.7	747.1	732.4	715.3	705.6	698.3	691.9	690.9
10°	817.3	812.0	807.1	791.0	768.5	749.0	726.6	712.4	701.7	693.9	692.4
12.5°	865.1	860.8	848.6	825.1	798.3	775.4	752.4	734.9	719.2	707.5	706.1
15°	918.3	908.6	890.0	859.8	834.4	815.9	788.0	764.1	739.3	723.6	720.2
17.5°	955.4	947.1	925.2	895.9	875.9	859.8	827.1	792.9	759.3	736.3	731.4
20°	981.8	973.0	948.1	926.6	920.3	906.6	868.6	829.0	790.0	761.7	755.4
22.5°	1000.8	991.5	966.2	955.4	964.2	961.8	924.7	879.8	833.4	799.8	792.0
25°	1018.9	1010.1	987.6	991.5	1014.9	1022.3	982.3	930.0	877.3	837.8	828.5
27.5°	1035.9	1024.7	1014.5	1035.9	1069.1	1082.8	1040.3	981.3	924.2	883.7	876.4
30°	1062.3	1049.1	1047.6	1078.9	1131.6	1143.3	1096.4	1037.4	980.8	939.8	930.5
32.5°	1095.5	1083.3	1084.2	1131.1	1192.1	1201.8	1161.8	1106.7	1050.1	1009.1	996.4
35°	1140.4	1125.2	1133.5	1191.1	1252.6	1270.6	1238.4	1192.6	1137.4	1095.5	1081.3
37.5°	1202.3	1180.4	1197.4	1257.9	1319.9	1346.8	1321.9	1287.7	1233.1	1190.6	1177.4
40°	1281.4	1263.3	1270.1	1337.0	1400.9	1433.1	1417.5	1383.8	1329.7	1285.3	1270.1
42.5°	1375.1	1357.0	1354.6	1425.8	1489.7	1538.5	1523.4	1492.7	1436.5	1385.8	1371.2
45°	1466.8	1450.2	1453.6	1526.3	1598.1	1651.2	1636.1	1600.0	1539.0	1480.5	1468.7
47.5°	1562.4	1548.8	1551.7	1628.8	1707.8	1761.0	1742.0	1698.1	1626.8	1564.4	1550.2
50°	1660.5	1644.9	1649.3	1730.3	1815.7	1865.9	1836.7	1771.8	1693.2	1632.2	1620.0
52.5°	1758.1	1739.6	1750.8	1827.4	1915.7	1955.7	1901.6	1823.0	1746.9	1686.4	1672.7
55°	1870.3	1850.8	1838.6	1920.6	2007.9	2024.5	1950.4	1858.6	1768.4	1699.5	1691.3
57.5°	1972.8	1956.2	1933.3	2015.3	2079.7	2067.5	1987.9	1848.9	1716.1	1627.8	1616.1
60°	2064.5	2050.4	2030.4	2100.2	2129.4	2102.1	1957.7	1733.2	1587.3	1495.1	1489.7
62.5°	2149.0	2133.8	2115.3	2174.8	2170.9	2107.5	1820.1	1555.6	1360.4	1261.4	1252.6
65°	2215.8	2202.1	2196.8	2243.6	2237.3	2002.6	1605.9	1264.8	994.0	882.2	878.8
67.5°	2234.8	2229.5	2258.3	2337.8	2238.7	1791.8	1259.4	838.8	533.8	427.9	421.6
70°	2163.6	2163.1	2245.6	2359.3	2035.8	1368.7	743.2	378.2	268.4	238.1	234.2
72.5°	2070.9	2069.4	2134.8	2035.3	1509.7	749.0	312.8	202.5	167.9	159.6	159.6
75°	1918.6	1914.7	1964.0	1548.3	849.0	282.0	165.9	139.1	131.7	130.3	130.3
77.5°	1563.9	1531.2	1453.6	956.9	296.2	138.6	109.8	109.3	104.9	104.4	104.4
80°	514.3	514.3	597.7	365.0	130.8	85.4	77.6	81.5	77.1	74.2	73.7
82.5°	83.9	115.6	164.4	104.4	70.8	53.2	47.8	50.7	53.2	42.5	42.5
85°	33.2	43.4	63.4	48.8	32.7	21.5	22.9	25.4	22.4	19.5	19.0
87.5°	12.7	15.6	22.4	11.7	6.8	3.9	2.4	2.4	2.0	2.0	2.0
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)