

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: P630768

Luminaire Tested: GWS-SA1E-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630768
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-SA1E-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7693.7 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

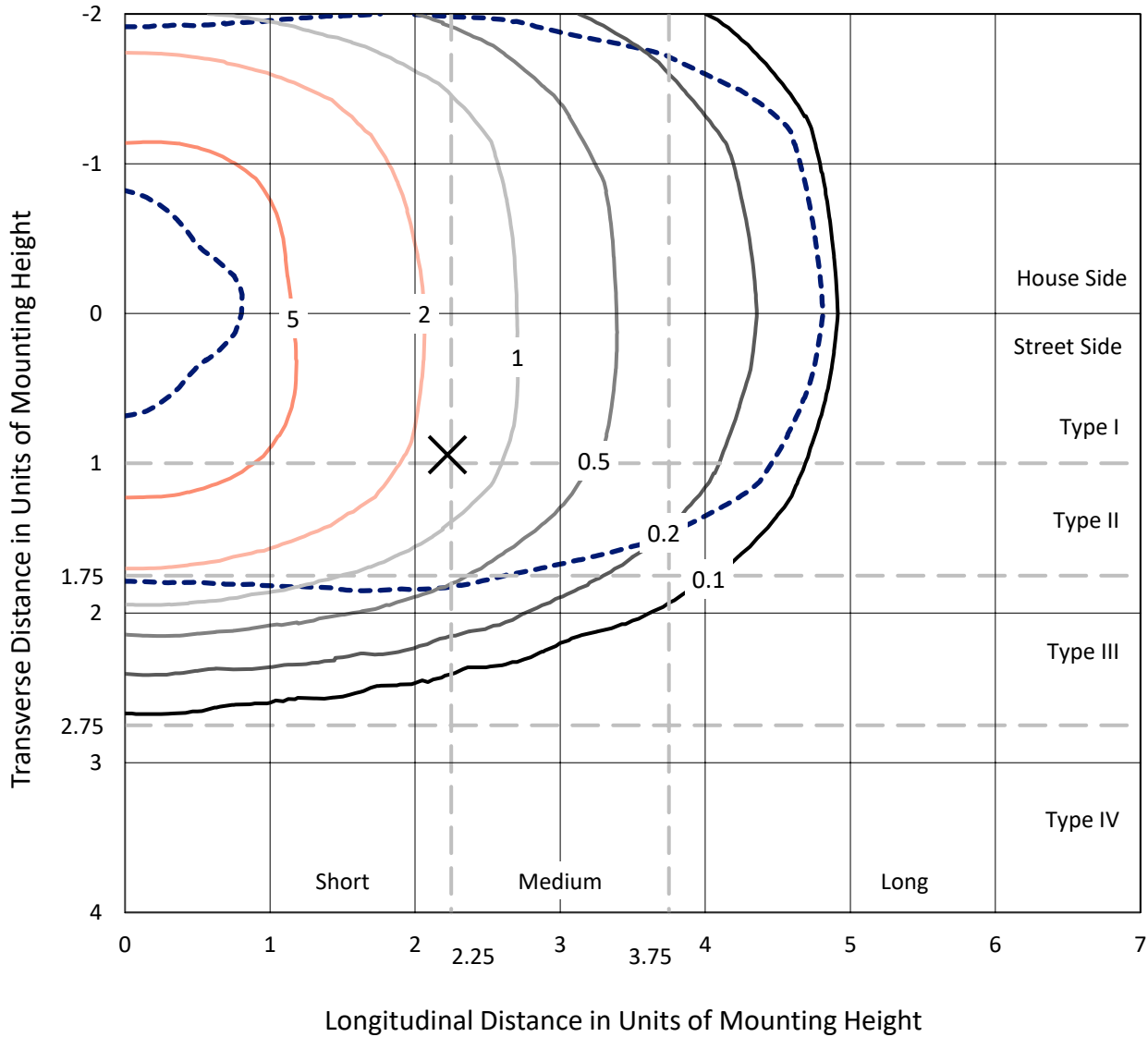
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

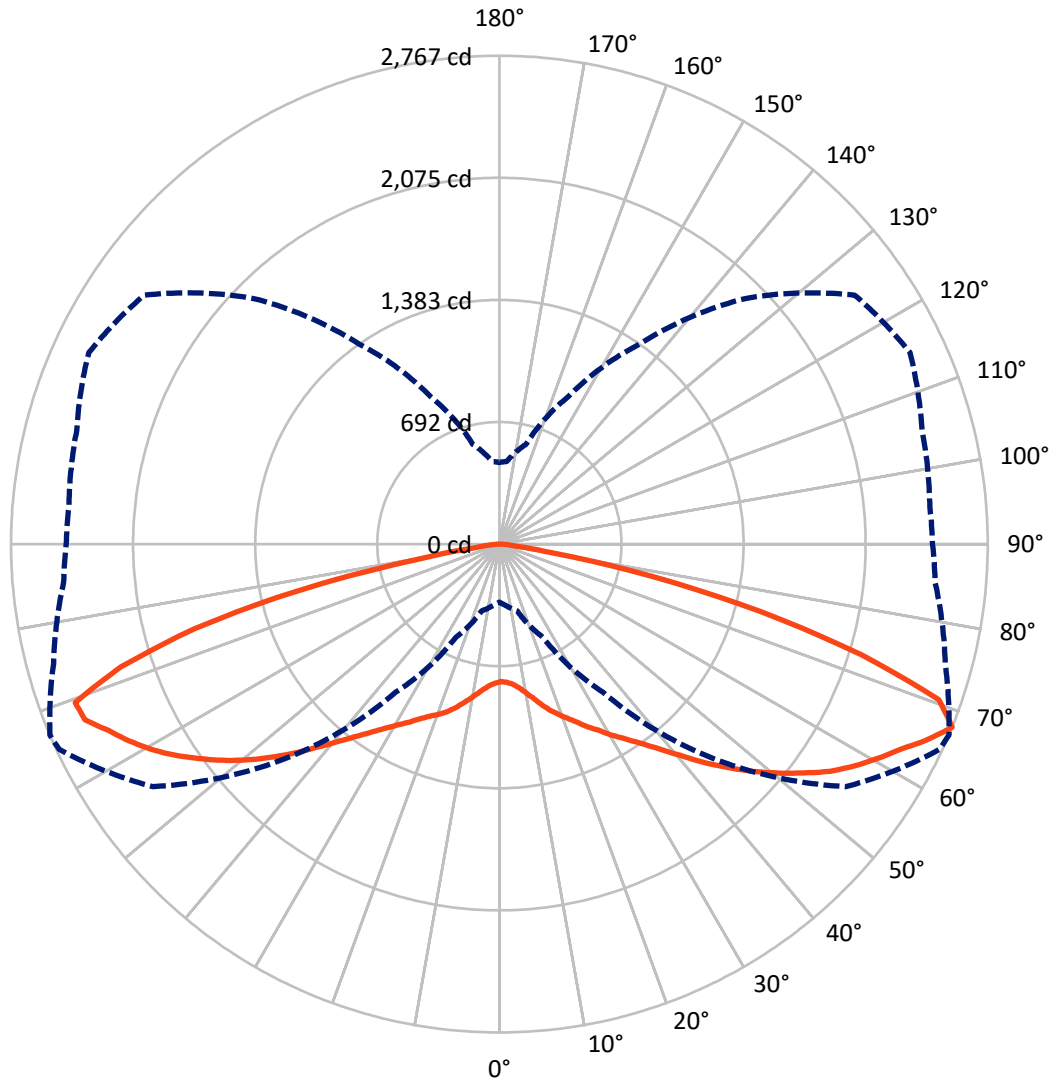
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 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	3804.4	0.0	3804.4
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	3889.3	0.0	3889.3
	% Fixture	50.6	0.0	50.6
Total	Lumens	7693.7	0.0	7693.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	1.0
10°-20°	258.2	3.4
20°-30°	506.6	6.6
30°-40°	863.1	11.2
40°-50°	1386.0	18.0
50°-60°	1883.3	24.5
60°-70°	1801.5	23.4
70°-80°	856.5	11.1
80°-90°	62.1	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°	7693.7	100.0
0°-180°	7693.7	100.0

Coefficient of Utilization



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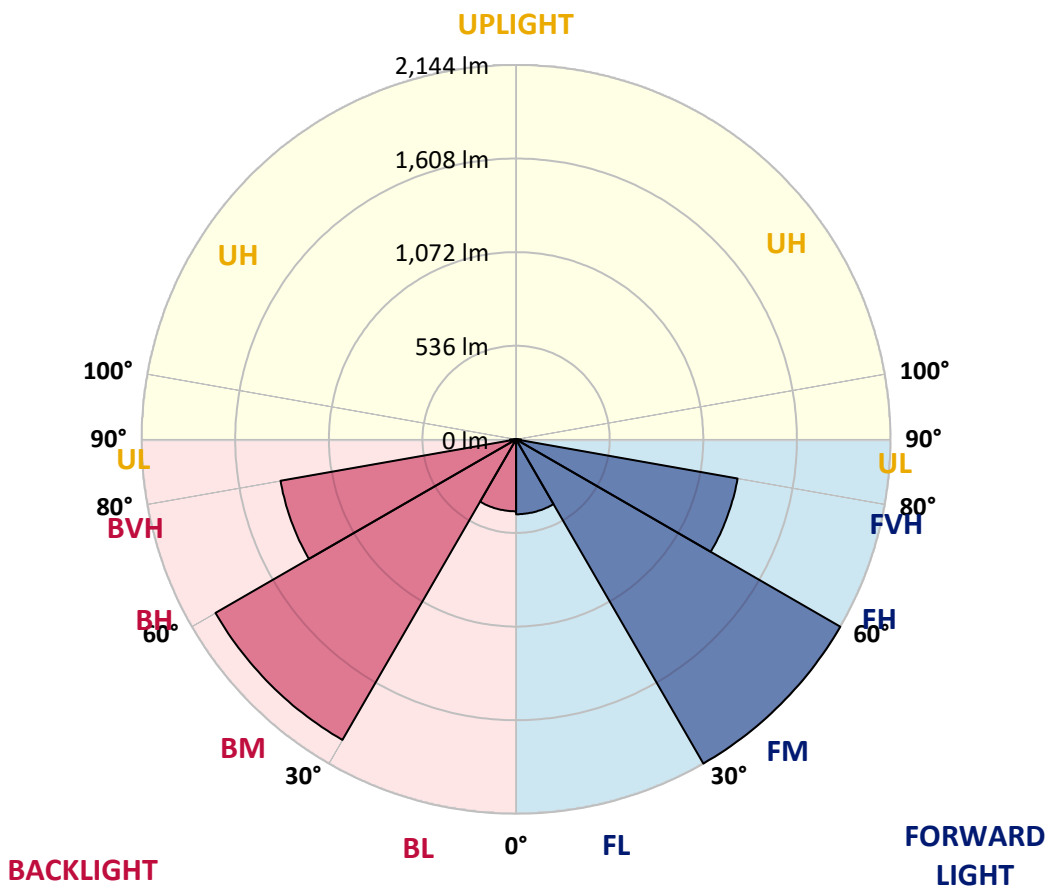
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.0	5.6			
FM (30°-60°)	2144.3	27.9			
FH (60°-80°)	1288.1	16.7			G1/1800
FVH (80°-90°)	27.9	0.4			G1/100
BL (0°-30°)	412.3	5.4	B1/500		
BM (30°-60°)	1988.1	25.8	B2/2500		
BH (60°-80°)	1369.9	17.8	B3/2500		G3/2500
BVH (80°-90°)	34.2	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°	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0
2.5°	763.0	764.0	765.6	768.9	772.1	776.9	781.7	781.2	783.3	784.9	786.5
5°	758.7	759.7	762.4	766.7	771.5	779.6	789.7	794.0	797.2	803.1	808.5
7.5°	767.8	769.9	773.7	779.6	787.1	797.2	811.2	818.7	823.5	834.2	843.3
10°	780.1	782.8	790.3	801.5	812.8	828.3	846.0	857.3	860.5	874.4	891.5
12.5°	791.9	795.1	807.4	827.8	848.1	869.0	889.9	903.9	904.9	923.7	943.0
15°	810.6	813.3	829.9	856.2	887.3	916.2	941.9	951.6	955.8	969.2	993.3
17.5°	851.9	855.1	876.5	904.9	937.6	968.2	993.9	1001.9	1001.9	1013.2	1033.0
20°	896.4	899.6	928.0	964.4	1004.1	1035.1	1055.0	1047.5	1044.8	1048.0	1061.9
22.5°	946.2	952.1	979.4	1021.7	1070.5	1108.5	1118.7	1096.2	1088.7	1081.2	1084.4
25°	1010.0	1016.9	1043.7	1088.7	1136.4	1176.6	1182.5	1147.6	1143.4	1117.1	1107.5
27.5°	1083.4	1088.7	1121.9	1166.4	1210.9	1244.6	1251.1	1208.2	1193.7	1157.3	1134.8
30°	1178.2	1183.0	1211.9	1255.9	1294.5	1318.0	1326.1	1267.1	1255.9	1200.2	1165.3
32.5°	1281.6	1283.7	1313.2	1355.5	1389.8	1412.3	1401.1	1332.5	1315.9	1253.2	1205.5
35°	1400.0	1400.0	1438.0	1472.3	1499.7	1506.1	1484.7	1406.4	1387.1	1319.1	1259.6
37.5°	1516.3	1519.5	1554.8	1595.6	1619.7	1618.6	1579.5	1493.8	1471.8	1397.9	1332.0
40°	1642.2	1649.1	1684.5	1730.0	1753.1	1749.9	1689.9	1594.5	1572.0	1484.7	1420.4
42.5°	1757.9	1769.2	1810.4	1857.0	1882.2	1880.1	1817.4	1710.2	1688.3	1589.7	1525.4
45°	1850.1	1861.8	1913.3	1978.1	2018.3	2014.5	1951.3	1830.2	1803.4	1700.0	1629.3
47.5°	1931.0	1943.3	2000.6	2069.2	2133.0	2139.4	2081.5	1951.3	1922.9	1818.5	1738.6
50°	1993.1	1999.0	2063.3	2138.3	2212.3	2248.1	2197.8	2072.9	2038.7	1935.3	1845.2
52.5°	1988.3	1996.3	2075.6	2177.4	2276.5	2335.5	2300.7	2187.6	2154.4	2041.9	1954.0
55°	1890.2	1898.3	1992.6	2141.0	2312.4	2399.2	2395.5	2296.9	2272.8	2150.6	2067.1
57.5°	1747.2	1764.9	1858.6	2018.8	2265.3	2450.1	2465.1	2396.6	2371.4	2257.3	2179.0
60°	1491.1	1514.7	1622.9	1830.8	2114.2	2433.0	2539.6	2480.7	2465.1	2356.4	2280.3
62.5°	1083.4	1100.5	1244.6	1517.3	1890.2	2310.8	2602.3	2567.5	2555.7	2445.3	2371.9
65°	648.8	687.9	803.7	1073.2	1524.8	2080.4	2568.0	2681.1	2668.7	2536.9	2450.1
67.5°	328.4	346.1	391.7	581.9	1025.5	1721.5	2396.0	2751.8	2766.8	2615.2	2478.0
70°	203.6	208.4	221.3	287.2	512.2	1131.0	1959.4	2567.5	2640.9	2602.8	2405.7
72.5°	163.4	164.5	166.6	179.0	245.9	528.8	1238.7	2010.8	2143.1	2430.9	2302.3
75°	135.6	136.1	136.6	140.4	153.2	215.9	602.8	1381.8	1536.6	2066.0	2134.6
77.5°	108.8	106.1	108.2	109.8	113.1	120.6	207.9	737.2	894.2	1356.1	1650.8
80°	70.7	69.7	73.9	75.5	78.8	83.6	110.9	250.2	303.8	493.5	525.1
82.5°	38.0	35.9	45.0	43.4	45.0	48.8	65.4	91.6	102.9	148.9	125.9
85°	11.8	11.8	12.3	14.5	17.7	17.1	28.4	45.0	49.8	63.8	47.1
87.5°	2.1	2.1	2.1	2.1	2.1	2.7	5.9	9.1	12.3	22.0	16.6
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°	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0	779.0
2.5°	789.7	784.9	787.6	789.2	788.7	787.6	782.2	781.2	778.5	774.2	773.1
5°	813.3	808.0	808.5	806.9	801.5	794.6	782.8	776.9	772.1	766.7	766.2
7.5°	850.3	844.4	842.8	835.3	820.3	804.2	785.5	774.7	766.7	759.7	758.7
10°	897.4	891.5	886.2	868.5	843.9	822.4	797.8	782.2	770.5	761.9	760.3
12.5°	949.9	945.1	931.7	906.0	876.5	851.4	826.2	806.9	789.7	776.9	775.3
15°	1008.3	997.6	977.3	944.1	916.2	895.8	865.3	839.0	811.7	794.6	790.8
17.5°	1049.1	1040.0	1015.8	983.7	961.7	944.1	908.2	870.6	833.7	808.5	803.1
20°	1078.0	1068.4	1041.0	1017.5	1010.5	995.5	953.7	910.3	867.4	836.4	829.4
22.5°	1098.9	1088.7	1060.9	1049.1	1058.7	1056.0	1015.3	966.0	915.1	878.2	869.6
25°	1118.7	1109.1	1084.4	1088.7	1114.4	1122.5	1078.5	1021.2	963.3	919.9	909.8
27.5°	1137.5	1125.1	1113.9	1137.5	1173.9	1188.9	1142.3	1077.5	1014.8	970.3	962.3
30°	1166.4	1151.9	1150.3	1184.6	1242.5	1255.3	1203.9	1139.1	1076.9	1031.9	1021.7
32.5°	1202.8	1189.4	1190.5	1241.9	1308.9	1319.6	1275.7	1215.2	1153.0	1108.0	1094.1
35°	1252.1	1235.5	1244.6	1307.8	1375.4	1395.2	1359.8	1309.5	1248.9	1202.8	1187.3
37.5°	1320.2	1296.1	1314.8	1381.3	1449.3	1478.8	1451.4	1413.9	1353.9	1307.3	1292.8
40°	1407.0	1387.1	1394.6	1468.0	1538.2	1573.6	1556.5	1519.5	1460.0	1411.3	1394.6
42.5°	1509.8	1490.0	1487.3	1565.6	1635.7	1689.3	1672.7	1639.0	1577.3	1521.6	1505.6
45°	1610.6	1592.4	1596.1	1675.9	1754.7	1813.1	1796.5	1756.8	1689.9	1625.6	1612.7
47.5°	1715.6	1700.6	1703.8	1788.4	1875.2	1933.6	1912.7	1864.5	1786.3	1717.7	1702.2
50°	1823.3	1806.1	1811.0	1899.9	1993.7	2048.8	2016.7	1945.4	1859.2	1792.2	1778.8
52.5°	1930.4	1910.1	1922.4	2006.5	2103.5	2147.4	2088.0	2001.7	1918.1	1851.7	1836.7
55°	2053.7	2032.2	2018.8	2108.8	2204.8	2223.0	2141.5	2040.8	1941.7	1866.1	1857.0
57.5°	2166.2	2148.0	2122.8	2212.8	2283.5	2270.1	2182.8	2030.1	1884.4	1787.4	1774.5
60°	2266.9	2251.4	2229.4	2306.0	2338.2	2308.2	2149.6	1903.1	1742.9	1641.6	1635.7
62.5°	2359.6	2343.0	2322.6	2388.0	2383.7	2314.1	1998.5	1708.1	1493.8	1385.0	1375.4
65°	2433.0	2418.0	2412.1	2463.5	2456.6	2198.9	1763.3	1388.8	1091.4	968.7	964.9
67.5°	2453.9	2448.0	2479.6	2566.9	2458.2	1967.4	1382.9	921.0	586.1	469.9	462.9
70°	2375.7	2375.1	2465.7	2590.5	2235.3	1502.9	816.0	415.2	294.7	261.5	257.2
72.5°	2273.9	2272.3	2344.1	2234.8	1657.7	822.4	343.4	222.4	184.3	175.2	175.2
75°	2106.7	2102.4	2156.5	1700.0	932.3	309.7	182.2	152.7	144.7	143.1	143.1
77.5°	1717.2	1681.3	1596.1	1050.7	325.2	152.2	120.6	120.0	115.2	114.7	114.7
80°	564.7	564.7	656.3	400.8	143.6	93.8	85.2	89.5	84.7	81.4	80.9
82.5°	92.2	127.0	180.6	114.7	77.7	58.4	52.5	55.7	58.4	46.6	46.6
85°	36.4	47.7	69.7	53.6	35.9	23.6	25.2	27.9	24.6	21.4	20.9
87.5°	13.9	17.1	24.6	12.9	7.5	4.3	2.7	2.7	2.1	2.1	2.1
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)