

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: P631318

Luminaire Tested: GWS-SA1F-740-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631318
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-SA1F-740-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8672.8 lumens
Efficiency: N/A
Efficacy: 129.1 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

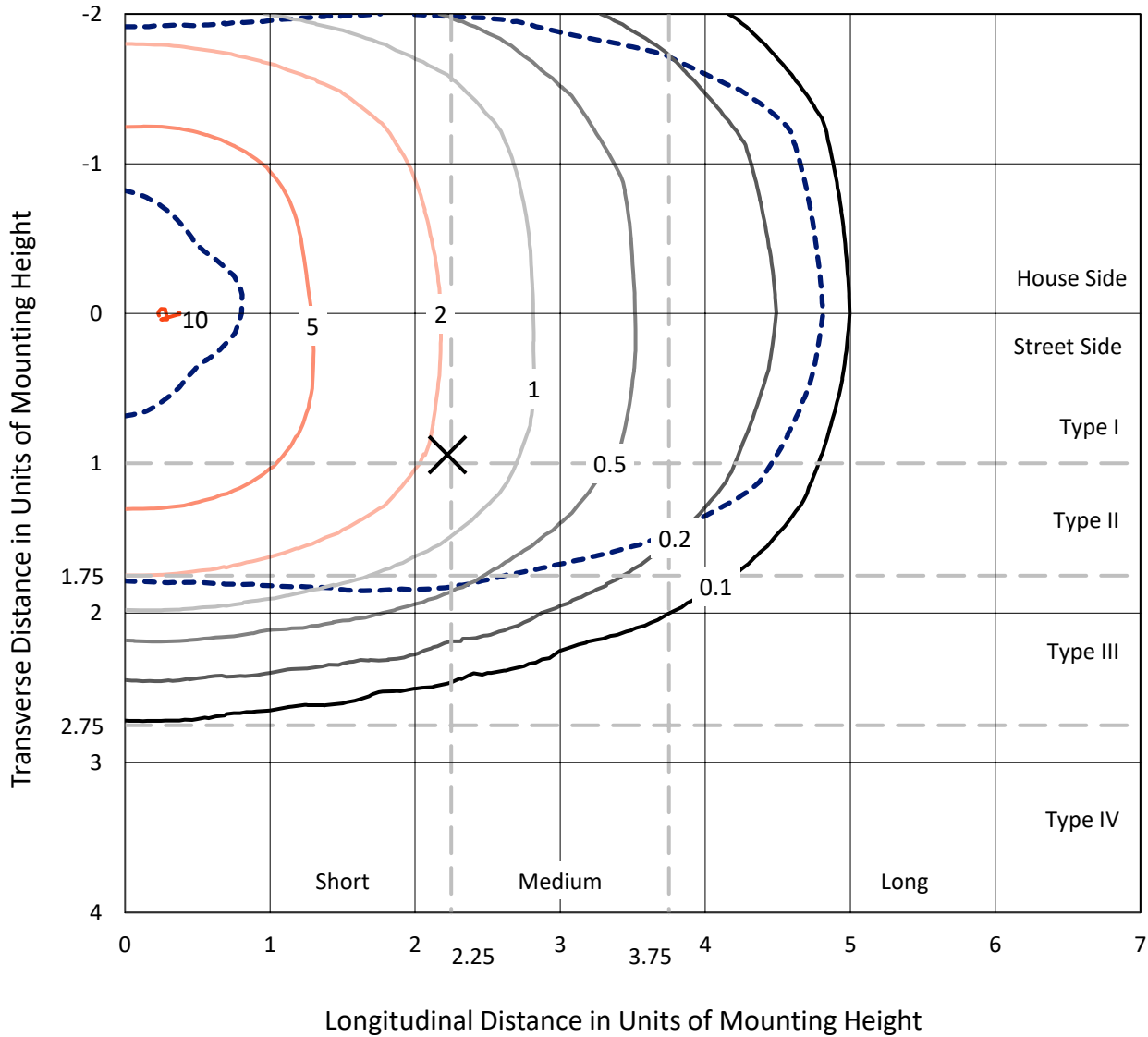
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

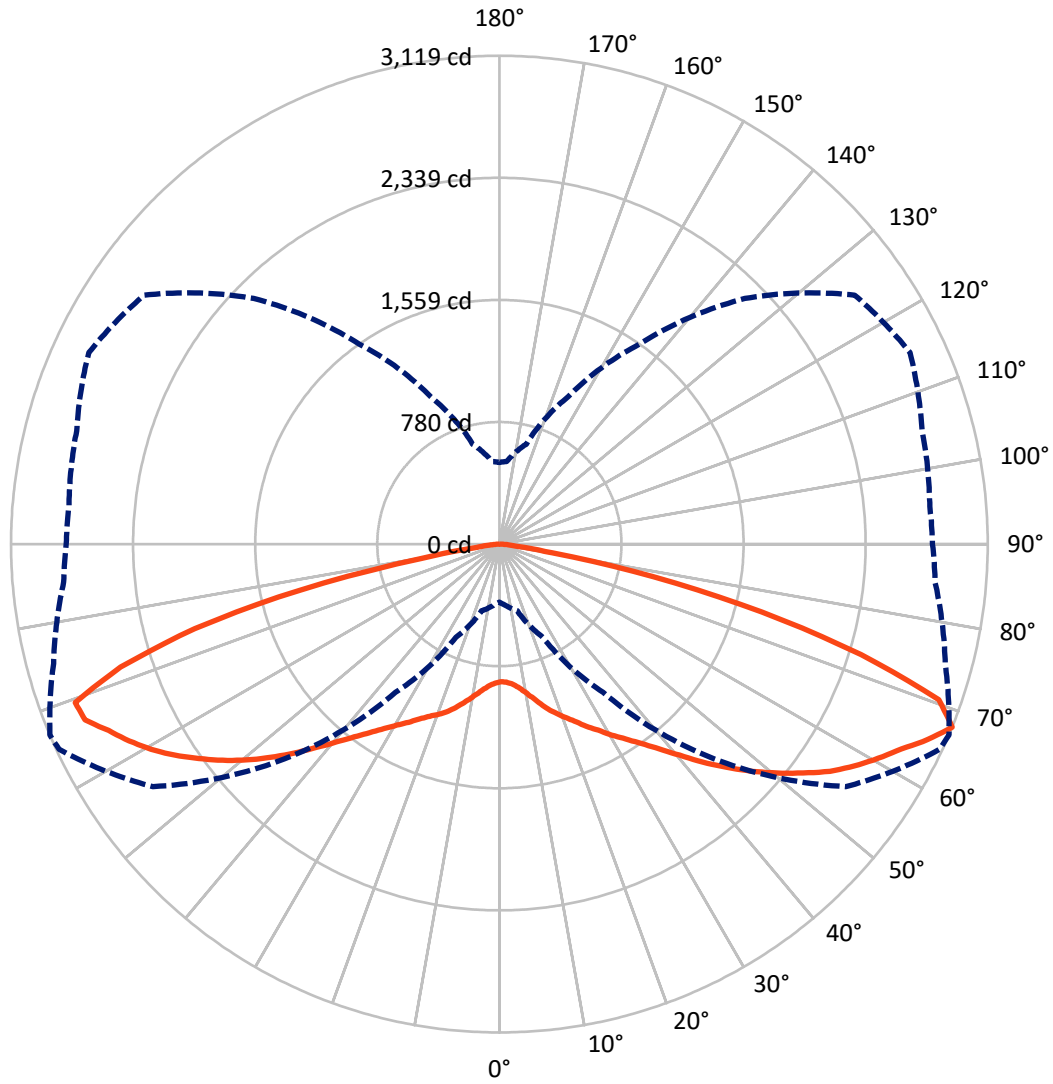
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.1 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	4288.5	0.0	4288.5
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	4384.3	0.0	4384.3
	% Fixture	50.6	0.0	50.6
Total	Lumens	8672.8	0.0	8672.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.0
10°-20°	291.1	3.4
20°-30°	571.1	6.6
30°-40°	973.0	11.2
40°-50°	1562.4	18.0
50°-60°	2122.9	24.5
60°-70°	2030.7	23.4
70°-80°	965.5	11.1
80°-90°	70.0	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°	8672.8	100.0
0°-180°	8672.8	100.0

Coefficient of Utilization



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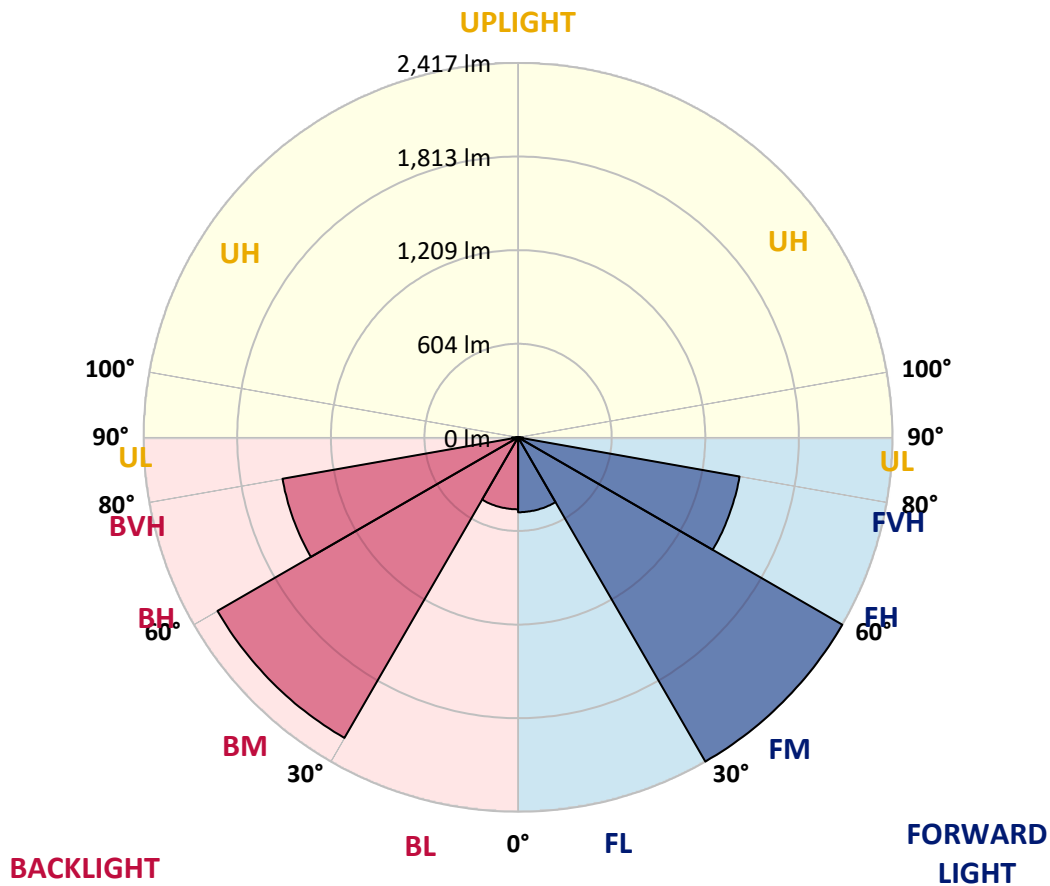
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.6	5.6			
FM (30°-60°)	2417.2	27.9			
FH (60°-80°)	1452.0	16.7			G1/1800
FVH (80°-90°)	31.4	0.4			G1/100
BL (0°-30°)	464.8	5.4	B1/500		
BM (30°-60°)	2241.1	25.8	B2/2500		
BH (60°-80°)	1544.2	17.8	B3/2500		G3/2500
BVH (80°-90°)	38.5	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°	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2
2.5°	860.1	861.3	863.1	866.7	870.3	875.8	881.2	880.6	883.0	884.8	886.6
5°	855.2	856.4	859.4	864.3	869.7	878.8	890.2	895.1	898.7	905.3	911.4
7.5°	865.5	867.9	872.1	878.8	887.2	898.7	914.4	922.9	928.3	940.4	950.6
10°	879.4	882.4	890.9	903.5	916.2	933.7	953.7	966.3	970.0	985.7	1005.0
12.5°	892.7	896.3	910.2	933.1	956.1	979.6	1003.2	1018.9	1020.1	1041.2	1063.0
15°	913.8	916.8	935.5	965.1	1000.2	1032.8	1061.8	1072.6	1077.5	1092.6	1119.8
17.5°	960.3	963.9	988.1	1020.1	1056.9	1091.4	1120.4	1129.4	1129.4	1142.1	1164.5
20°	1010.4	1014.1	1046.1	1087.1	1131.8	1166.9	1189.2	1180.8	1177.7	1181.4	1197.1
22.5°	1066.6	1073.3	1104.1	1151.8	1206.7	1249.6	1261.1	1235.7	1227.3	1218.8	1222.4
25°	1138.5	1146.3	1176.5	1227.3	1281.0	1326.3	1333.0	1293.7	1288.9	1259.3	1248.4
27.5°	1221.2	1227.3	1264.7	1314.8	1365.0	1403.0	1410.3	1361.9	1345.6	1304.6	1279.2
30°	1328.1	1333.6	1366.2	1415.7	1459.2	1485.8	1494.8	1428.4	1415.7	1352.9	1313.6
32.5°	1444.7	1447.1	1480.3	1528.0	1566.7	1592.1	1579.4	1502.1	1483.3	1412.7	1358.9
35°	1578.2	1578.2	1621.0	1659.7	1690.5	1697.8	1673.6	1585.4	1563.7	1487.0	1419.9
37.5°	1709.2	1712.9	1752.7	1798.6	1825.8	1824.6	1780.5	1683.9	1659.1	1575.8	1501.5
40°	1851.2	1859.0	1898.9	1950.2	1976.2	1972.6	1904.9	1797.4	1772.0	1673.6	1601.1
42.5°	1981.6	1994.3	2040.8	2093.4	2121.7	2119.3	2048.7	1927.9	1903.1	1792.0	1719.5
45°	2085.5	2098.8	2156.8	2229.8	2275.1	2270.9	2199.7	2063.2	2033.0	1916.4	1836.7
47.5°	2176.7	2190.6	2255.2	2332.5	2404.4	2411.6	2346.4	2199.7	2167.6	2049.9	1959.9
50°	2246.8	2253.4	2325.9	2410.4	2493.8	2534.2	2477.5	2336.8	2298.1	2181.5	2080.1
52.5°	2241.3	2250.4	2339.8	2454.5	2566.3	2632.7	2593.4	2466.0	2428.6	2301.7	2202.7
55°	2130.8	2139.9	2246.2	2413.5	2606.7	2704.6	2700.3	2589.2	2562.0	2424.3	2330.1
57.5°	1969.5	1989.5	2095.2	2275.8	2553.6	2761.9	2778.9	2701.5	2673.2	2544.5	2456.3
60°	1680.8	1707.4	1829.4	2063.8	2383.3	2742.6	2862.8	2796.4	2778.9	2656.3	2570.5
62.5°	1221.2	1240.6	1403.0	1710.4	2130.8	2604.9	2933.5	2894.2	2880.9	2756.5	2673.8
65°	731.4	775.5	906.0	1209.7	1718.9	2345.2	2894.8	3022.3	3008.4	2859.8	2761.9
67.5°	370.2	390.2	441.5	655.9	1156.0	1940.5	2700.9	3102.0	3118.9	2948.0	2793.4
70°	229.5	234.9	249.4	323.7	577.4	1275.0	2208.7	2894.2	2977.0	2934.1	2711.8
72.5°	184.2	185.4	187.8	201.7	277.2	596.1	1396.4	2266.7	2415.9	2740.2	2595.3
75°	152.8	153.4	154.0	158.2	172.7	243.4	679.5	1557.6	1732.2	2328.9	2406.2
77.5°	122.6	119.6	122.0	123.8	127.4	135.9	234.3	831.1	1008.0	1528.6	1860.8
80°	79.7	78.5	83.3	85.2	88.8	94.2	125.0	282.1	342.4	556.3	591.9
82.5°	42.9	40.5	50.7	48.9	50.7	55.0	73.7	103.3	116.0	167.9	141.9
85°	13.3	13.3	13.9	16.3	19.9	19.3	32.0	50.7	56.2	71.9	53.1
87.5°	2.4	2.4	2.4	2.4	2.4	3.0	6.6	10.3	13.9	24.8	18.7
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°	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2	878.2
2.5°	890.2	884.8	887.8	889.6	889.0	887.8	881.8	880.6	877.6	872.7	871.5
5°	916.8	910.8	911.4	909.6	903.5	895.7	882.4	875.8	870.3	864.3	863.7
7.5°	958.5	951.9	950.0	941.6	924.7	906.6	885.4	873.3	864.3	856.4	855.2
10°	1011.6	1005.0	999.0	979.0	951.2	927.1	899.3	881.8	868.5	858.8	857.0
12.5°	1070.8	1065.4	1050.3	1021.3	988.1	959.7	931.3	909.6	890.2	875.8	873.9
15°	1136.7	1124.6	1101.6	1064.2	1032.8	1009.8	975.4	945.8	915.0	895.7	891.5
17.5°	1182.6	1172.3	1145.1	1108.9	1084.1	1064.2	1023.7	981.4	939.8	911.4	905.3
20°	1215.2	1204.3	1173.5	1146.9	1139.1	1122.2	1075.1	1026.1	977.8	942.8	934.9
22.5°	1238.7	1227.3	1195.9	1182.6	1193.4	1190.4	1144.5	1089.0	1031.6	989.9	980.2
25°	1261.1	1250.2	1222.4	1227.3	1256.3	1265.3	1215.8	1151.2	1085.9	1037.0	1025.5
27.5°	1282.2	1268.3	1255.6	1282.2	1323.3	1340.2	1287.7	1214.6	1143.9	1093.8	1084.7
30°	1314.8	1298.5	1296.7	1335.4	1400.6	1415.1	1357.1	1284.0	1214.0	1163.2	1151.8
32.5°	1355.9	1340.8	1342.0	1400.0	1475.5	1487.6	1438.0	1369.8	1299.7	1249.0	1233.3
35°	1411.5	1392.8	1403.0	1474.3	1550.4	1572.7	1532.9	1476.1	1407.8	1355.9	1338.4
37.5°	1488.2	1461.0	1482.1	1557.0	1633.7	1667.0	1636.1	1593.9	1526.2	1473.7	1457.4
40°	1586.0	1563.7	1572.1	1654.9	1734.0	1773.9	1754.5	1712.9	1645.8	1590.9	1572.1
42.5°	1702.0	1679.6	1676.6	1764.8	1843.9	1904.3	1885.6	1847.5	1778.1	1715.3	1697.1
45°	1815.5	1795.0	1799.2	1889.2	1978.0	2043.8	2025.1	1980.4	1904.9	1832.4	1817.9
47.5°	1933.9	1917.0	1920.6	2016.0	2113.9	2179.7	2156.2	2101.8	2013.6	1936.3	1918.8
50°	2055.3	2036.0	2041.4	2141.7	2247.4	2309.6	2273.3	2193.0	2095.8	2020.3	2005.2
52.5°	2176.1	2153.1	2167.0	2261.9	2371.2	2420.7	2353.7	2256.4	2162.2	2087.3	2070.4
55°	2315.0	2290.9	2275.8	2377.2	2485.3	2505.9	2414.1	2300.5	2188.8	2103.6	2093.4
57.5°	2441.8	2421.3	2392.9	2494.4	2574.1	2559.0	2460.6	2288.4	2124.2	2014.8	2000.3
60°	2555.4	2537.9	2513.1	2599.5	2635.7	2601.9	2423.1	2145.3	1964.7	1850.6	1843.9
62.5°	2659.9	2641.2	2618.2	2691.9	2687.1	2608.5	2252.8	1925.4	1683.9	1561.3	1550.4
65°	2742.6	2725.7	2719.1	2777.0	2769.2	2478.7	1987.7	1565.5	1230.3	1092.0	1087.7
67.5°	2766.2	2759.5	2795.2	2893.6	2771.0	2217.8	1558.8	1038.2	660.7	529.7	521.8
70°	2678.0	2677.4	2779.5	2920.2	2519.8	1694.1	919.8	468.1	332.2	294.7	289.9
72.5°	2563.2	2561.4	2642.4	2519.2	1868.7	927.1	387.1	250.6	207.8	197.5	197.5
75°	2374.8	2370.0	2431.0	1916.4	1050.9	349.1	205.3	172.1	163.1	161.3	161.3
77.5°	1935.7	1895.3	1799.2	1184.4	366.6	171.5	135.9	135.3	129.9	129.2	129.2
80°	636.6	636.6	739.9	451.8	161.9	105.7	96.0	100.9	95.4	91.8	91.2
82.5°	103.9	143.1	203.5	129.2	87.6	65.8	59.2	62.8	65.8	52.5	52.5
85°	41.1	53.8	78.5	60.4	40.5	26.6	28.4	31.4	27.8	24.2	23.6
87.5°	15.7	19.3	27.8	14.5	8.5	4.8	3.0	3.0	2.4	2.4	2.4
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)