

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: P632583

Luminaire Tested: GWS-SA2D-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632583
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-SA2D-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8853.7 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

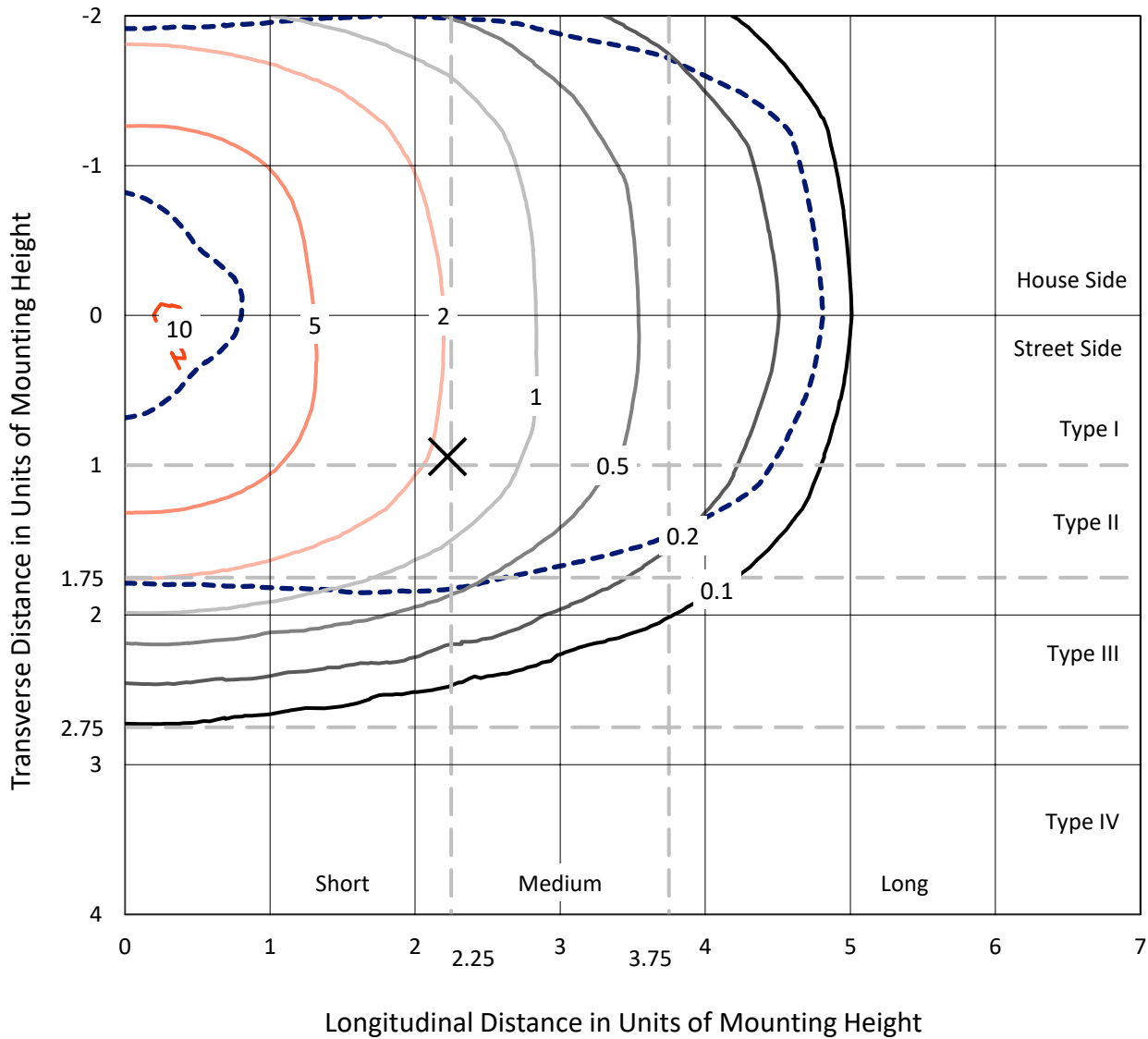
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

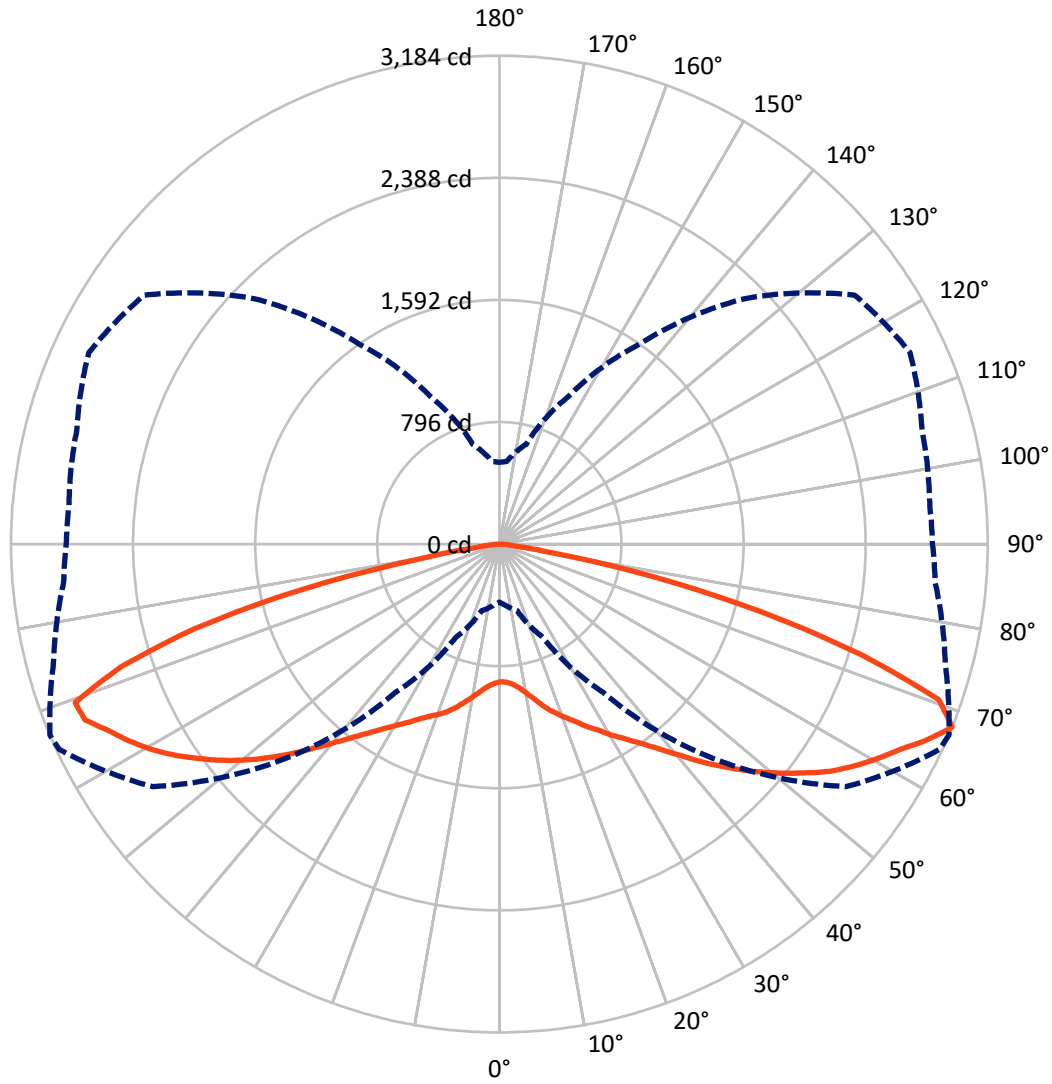
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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	4378.0	0.0	4378.0
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	4475.7	0.0	4475.7
	% Fixture	50.6	0.0	50.6
Total	Lumens	8853.7	0.0	8853.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.0	1.0
10°-20°	297.2	3.4
20°-30°	583.0	6.6
30°-40°	993.3	11.2
40°-50°	1595.0	18.0
50°-60°	2167.2	24.5
60°-70°	2073.1	23.4
70°-80°	985.6	11.1
80°-90°	71.4	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°	8853.7	100.0
0°-180°	8853.7	100.0

Coefficient of Utilization



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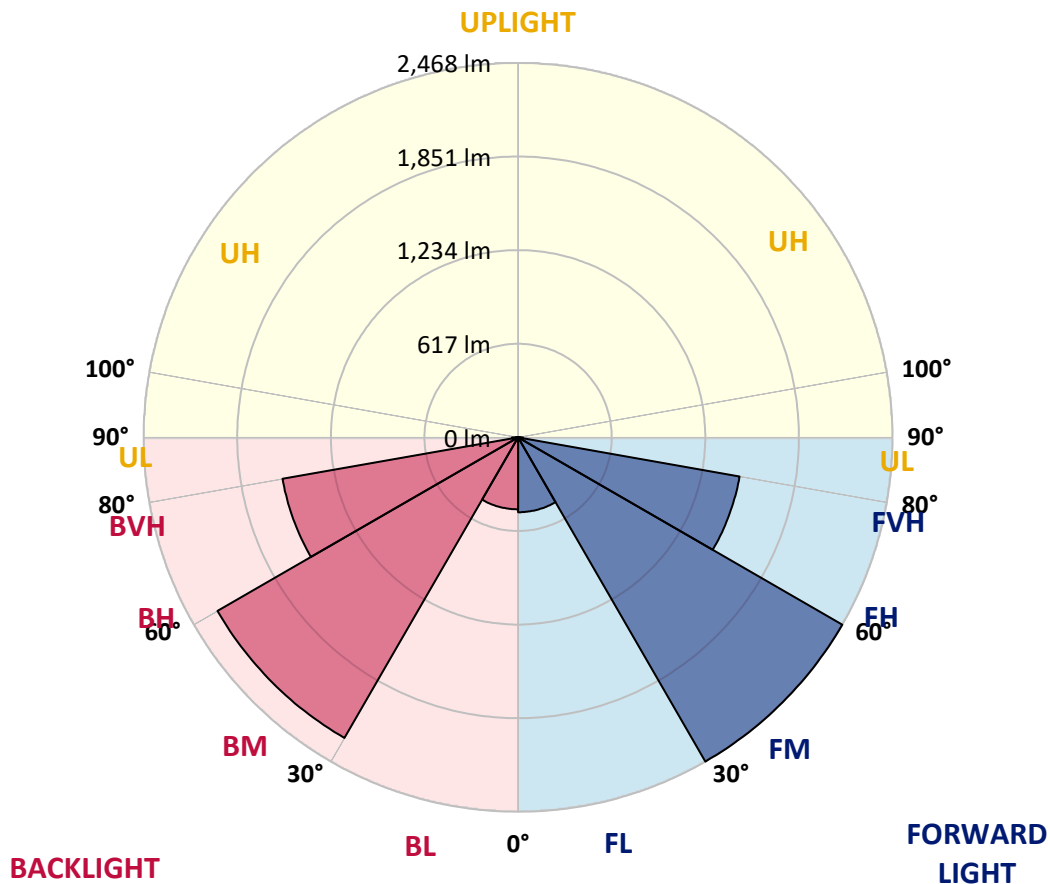
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.7	5.6			
FM (30°-60°)	2467.6	27.9			
FH (60°-80°)	1482.3	16.7			G1/1800
FVH (80°-90°)	32.1	0.4			G1/100
BL (0°-30°)	474.5	5.4	B1/500		
BM (30°-60°)	2287.8	25.8	B2/2500		
BH (60°-80°)	1576.4	17.8	B3/2500		G3/2500
BVH (80°-90°)	39.3	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°	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5
2.5°	878.0	879.2	881.1	884.8	888.5	894.0	899.6	899.0	901.4	903.3	905.1
5°	873.1	874.3	877.4	882.3	887.9	897.1	908.8	913.8	917.4	924.2	930.4
7.5°	883.5	886.0	890.3	897.1	905.7	917.4	933.5	942.1	947.7	960.0	970.5
10°	897.7	900.8	909.4	922.4	935.3	953.2	973.6	986.5	990.2	1006.2	1026.0
12.5°	911.3	915.0	929.2	952.6	976.0	1000.1	1024.1	1040.1	1041.4	1063.0	1085.2
15°	932.9	935.9	955.1	985.3	1021.0	1054.3	1083.9	1095.0	1100.0	1115.4	1143.1
17.5°	980.3	984.0	1008.7	1041.4	1079.0	1114.1	1143.7	1153.0	1153.0	1165.9	1188.7
20°	1031.5	1035.2	1067.9	1109.8	1155.4	1191.2	1214.0	1205.4	1202.3	1206.0	1222.0
22.5°	1088.9	1095.6	1127.1	1175.8	1231.9	1275.7	1287.4	1261.5	1252.9	1244.2	1247.9
25°	1162.2	1170.2	1201.1	1252.9	1307.7	1354.0	1360.8	1320.7	1315.8	1285.5	1274.4
27.5°	1246.7	1252.9	1291.1	1342.3	1393.4	1432.3	1439.7	1390.4	1373.7	1331.8	1305.9
30°	1355.8	1361.4	1394.7	1445.2	1489.6	1516.8	1526.0	1458.2	1445.2	1381.1	1341.0
32.5°	1474.8	1477.3	1511.2	1559.9	1599.4	1625.3	1612.3	1533.4	1514.3	1442.1	1387.3
35°	1611.1	1611.1	1654.9	1694.3	1725.8	1733.2	1708.5	1618.5	1596.3	1518.0	1449.5
37.5°	1744.9	1748.6	1789.3	1836.1	1863.9	1862.6	1817.6	1719.0	1693.7	1608.6	1532.8
40°	1889.8	1897.8	1938.5	1990.9	2017.4	2013.7	1944.6	1834.9	1809.0	1708.5	1634.5
42.5°	2023.0	2035.9	2083.4	2137.0	2166.0	2163.5	2091.4	1968.1	1942.8	1829.4	1755.4
45°	2129.0	2142.6	2201.8	2276.4	2322.6	2318.3	2245.5	2106.2	2075.4	1956.4	1875.0
47.5°	2222.1	2236.3	2302.3	2381.2	2454.5	2461.9	2395.4	2245.5	2212.9	2092.6	2000.8
50°	2293.6	2300.4	2374.4	2460.7	2545.8	2587.1	2529.2	2385.5	2346.0	2227.0	2123.5
52.5°	2288.1	2297.3	2388.6	2505.7	2619.8	2687.6	2647.5	2517.4	2479.2	2349.7	2248.6
55°	2175.2	2184.5	2293.0	2463.8	2661.1	2761.0	2756.7	2643.2	2615.5	2474.9	2378.7
57.5°	2010.6	2031.0	2138.9	2323.2	2606.8	2819.6	2836.8	2757.9	2728.9	2597.6	2507.6
60°	1715.9	1743.0	1867.6	2106.8	2433.0	2799.8	2922.5	2854.7	2836.8	2711.7	2624.1
62.5°	1246.7	1266.4	1432.3	1746.1	2175.2	2659.2	2994.7	2954.6	2941.0	2814.0	2729.5
65°	746.7	791.7	924.8	1235.0	1754.7	2394.1	2955.2	3085.3	3071.1	2919.4	2819.6
67.5°	378.0	398.3	450.7	669.6	1180.1	1981.0	2757.3	3166.7	3183.9	3009.5	2851.6
70°	234.3	239.8	254.6	330.5	589.4	1301.6	2254.8	2954.6	3039.1	2995.3	2768.4
72.5°	188.1	189.3	191.8	205.9	283.0	608.6	1425.5	2314.0	2466.3	2797.4	2649.4
75°	156.0	156.6	157.2	161.5	176.3	248.5	693.6	1590.1	1768.3	2377.5	2456.4
77.5°	125.2	122.1	124.5	126.4	130.1	138.7	239.2	848.4	1029.0	1560.5	1899.6
80°	81.4	80.2	85.1	86.9	90.6	96.2	127.6	287.9	349.6	567.9	604.2
82.5°	43.8	41.3	51.8	49.9	51.8	56.1	75.2	105.4	118.4	171.4	144.9
85°	13.6	13.6	14.2	16.6	20.3	19.7	32.7	51.8	57.3	73.4	54.3
87.5°	2.5	2.5	2.5	2.5	2.5	3.1	6.8	10.5	14.2	25.3	19.1
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°	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5	896.5
2.5°	908.8	903.3	906.4	908.2	907.6	906.4	900.2	899.0	895.9	890.9	889.7
5°	935.9	929.8	930.4	928.5	922.4	914.4	900.8	894.0	888.5	882.3	881.7
7.5°	978.5	971.7	969.9	961.2	944.0	925.5	903.9	891.6	882.3	874.3	873.1
10°	1032.7	1026.0	1019.8	999.5	971.1	946.4	918.1	900.2	886.6	876.8	874.9
12.5°	1093.2	1087.6	1072.2	1042.6	1008.7	979.7	950.7	928.5	908.8	894.0	892.2
15°	1160.4	1148.0	1124.6	1086.4	1054.3	1030.9	995.8	965.5	934.1	914.4	910.1
17.5°	1207.2	1196.8	1169.0	1132.0	1106.7	1086.4	1045.1	1001.9	959.4	930.4	924.2
20°	1240.5	1229.4	1198.0	1170.9	1162.8	1145.6	1097.5	1047.5	998.2	962.5	954.4
22.5°	1264.6	1252.9	1220.8	1207.2	1218.3	1215.3	1168.4	1111.7	1053.1	1010.6	1000.7
25°	1287.4	1276.3	1247.9	1252.9	1282.5	1291.7	1241.1	1175.2	1108.6	1058.6	1046.9
27.5°	1309.0	1294.8	1281.8	1309.0	1350.9	1368.2	1314.5	1239.9	1167.8	1116.6	1107.4
30°	1342.3	1325.6	1323.8	1363.2	1429.8	1444.6	1385.4	1310.8	1239.3	1187.5	1175.8
32.5°	1384.2	1368.8	1370.0	1429.2	1506.3	1518.6	1468.0	1398.4	1326.8	1275.1	1259.0
35°	1440.9	1421.8	1432.3	1505.0	1582.7	1605.5	1564.8	1506.9	1437.2	1384.2	1366.3
37.5°	1519.2	1491.5	1513.1	1589.5	1667.8	1701.7	1670.3	1627.1	1558.1	1504.4	1487.8
40°	1619.1	1596.3	1604.9	1689.4	1770.2	1810.9	1791.1	1748.6	1680.1	1624.0	1604.9
42.5°	1737.5	1714.7	1711.6	1801.6	1882.4	1944.0	1924.9	1886.1	1815.2	1751.0	1732.5
45°	1853.4	1832.4	1836.7	1928.6	2019.3	2086.5	2067.3	2021.7	1944.6	1870.7	1855.9
47.5°	1974.2	1957.0	1960.7	2058.1	2158.0	2225.2	2201.1	2145.6	2055.6	1976.7	1958.8
50°	2098.2	2078.4	2084.0	2186.3	2294.2	2357.7	2320.8	2238.7	2139.5	2062.4	2047.0
52.5°	2221.5	2198.1	2212.2	2309.0	2420.6	2471.2	2402.8	2303.5	2207.3	2130.9	2113.6
55°	2363.3	2338.6	2323.2	2426.8	2537.2	2558.1	2464.4	2348.5	2234.4	2147.5	2137.0
57.5°	2492.8	2471.8	2442.8	2546.4	2627.8	2612.4	2511.9	2336.2	2168.5	2056.9	2042.1
60°	2608.7	2590.8	2565.5	2653.7	2690.7	2656.2	2473.7	2190.0	2005.7	1889.2	1882.4
62.5°	2715.4	2696.2	2672.8	2748.0	2743.1	2662.9	2299.8	1965.6	1719.0	1593.8	1582.7
65°	2799.8	2782.6	2775.8	2835.0	2827.0	2530.4	2029.1	1598.1	1255.9	1114.8	1110.4
67.5°	2823.9	2817.1	2853.5	2954.0	2828.8	2264.0	1591.4	1059.9	674.5	540.7	532.7
70°	2733.9	2733.2	2837.4	2981.1	2572.3	1729.5	939.0	477.8	339.1	300.9	296.0
72.5°	2616.7	2614.9	2697.5	2571.7	1907.7	946.4	395.2	255.9	212.1	201.6	201.6
75°	2424.3	2419.4	2481.7	1956.4	1072.8	356.4	209.6	175.7	166.5	164.6	164.6
77.5°	1976.1	1934.8	1836.7	1209.1	374.3	175.1	138.7	138.1	132.6	131.9	131.9
80°	649.9	649.9	755.3	461.2	165.2	107.9	98.0	103.0	97.4	93.7	93.1
82.5°	106.0	146.1	207.8	131.9	89.4	67.2	60.4	64.1	67.2	53.6	53.6
85°	41.9	54.9	80.2	61.7	41.3	27.1	29.0	32.1	28.4	24.7	24.0
87.5°	16.0	19.7	28.4	14.8	8.6	4.9	3.1	3.1	2.5	2.5	2.5
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)