

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: P636543

Luminaire Tested: GWS-SA4B-722-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636543
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-SA4B-722-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10975.5 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

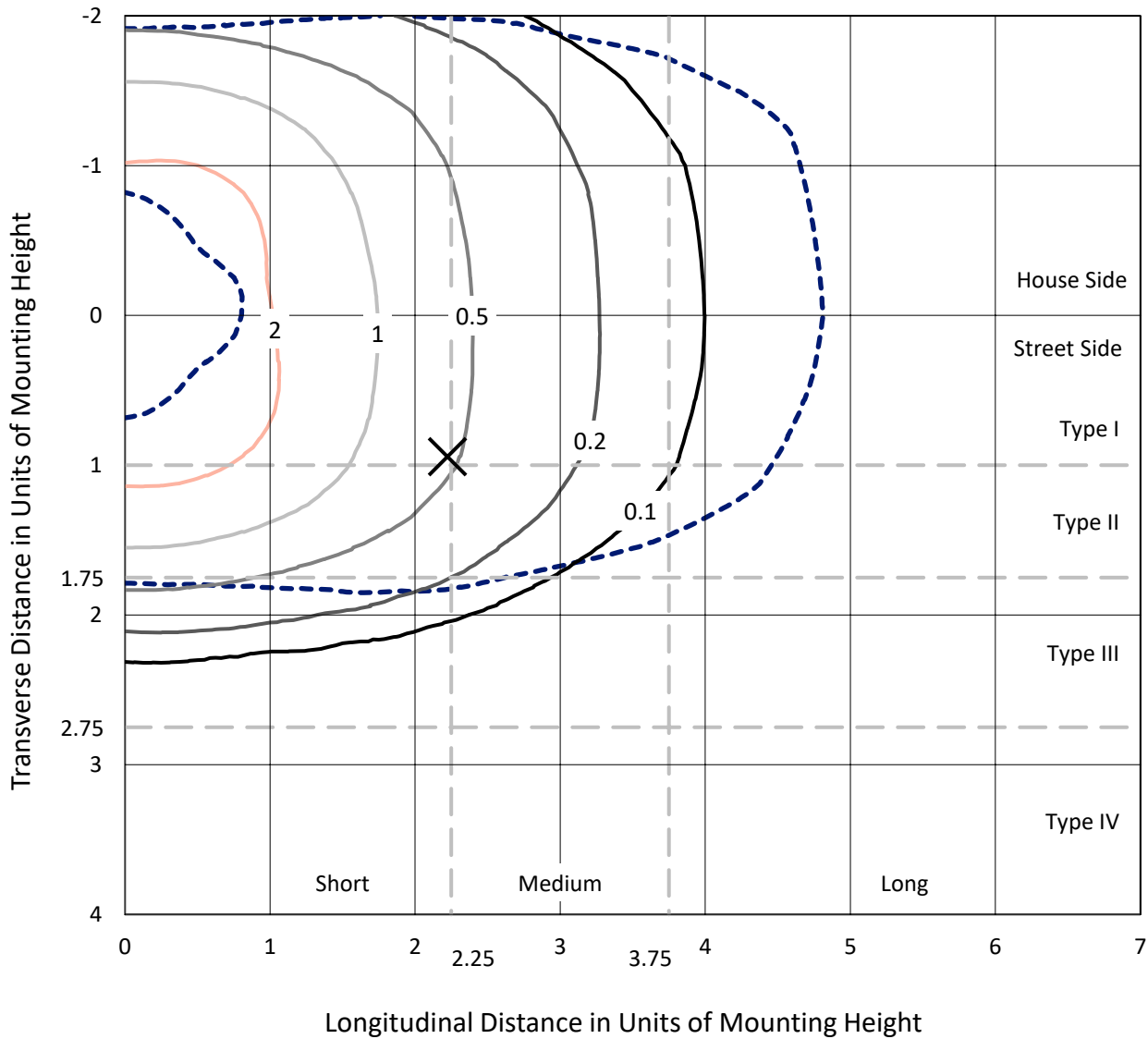
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636543
 CATALOG NUMBER: GWS-SA4B-722-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

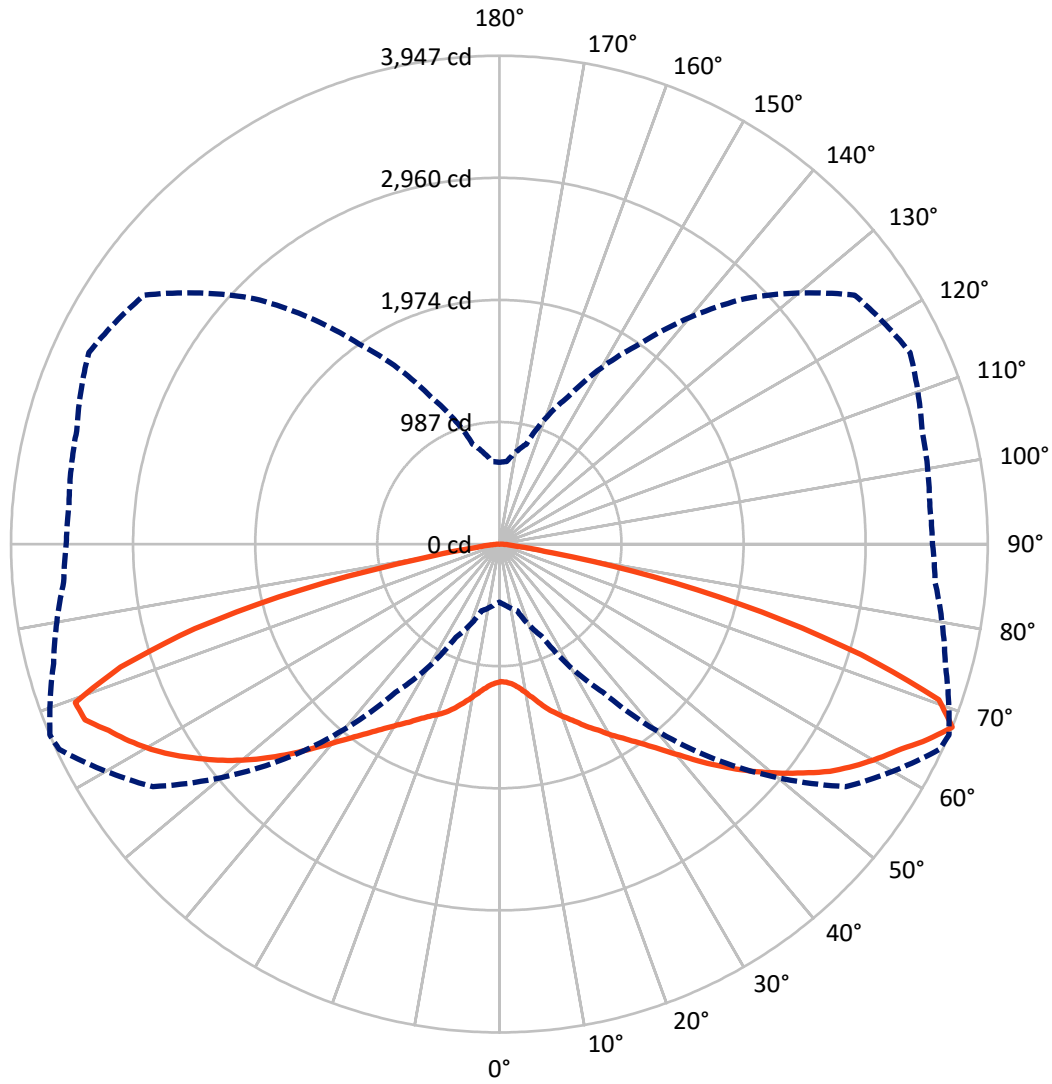
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

REPORT NUMBER: P636543
CATALOG NUMBER: GWS-SA4B-722-U-RW-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P636543

CATALOG NUMBER: GWS-SA4B-722-U-RW-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5427.2	0.0	5427.2
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	5548.3	0.0	5548.3
	% Fixture	50.6	0.0	50.6
Total	Lumens	10975.5	0.0	10975.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.0
10°-20°	368.4	3.4
20°-30°	722.7	6.6
30°-40°	1231.3	11.2
40°-50°	1977.2	18.0
50°-60°	2686.6	24.5
60°-70°	2569.9	23.4
70°-80°	1221.8	11.1
80°-90°	88.5	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°	10975.5	100.0
0°-180°	10975.5	100.0

Coefficient of Utilization



REPORT NUMBER: P636543

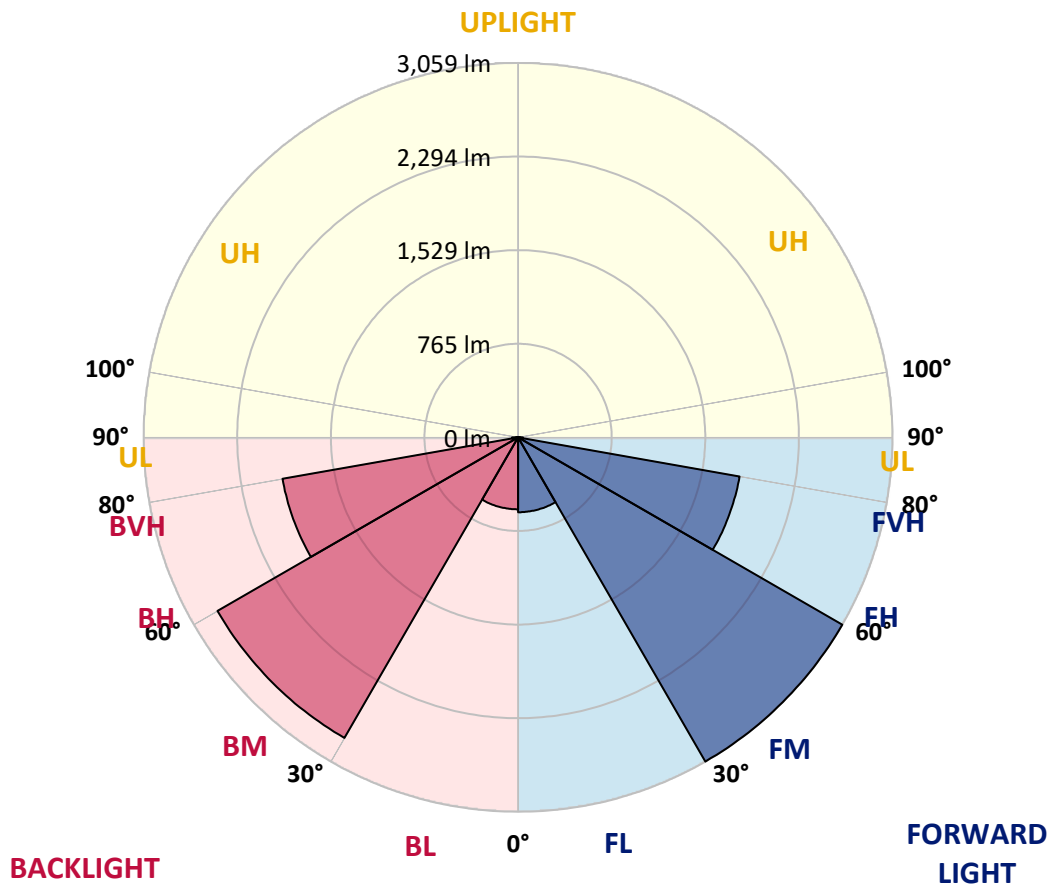
CATALOG NUMBER: GWS-SA4B-722-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.0	5.6			
FM (30°-60°)	3059.0	27.9			
FH (60°-80°)	1837.6	16.7			G2/5000
FVH (80°-90°)	39.8	0.4			G1/100
BL (0°-30°)	588.2	5.4	B2/1000		
BM (30°-60°)	2836.1	25.8	B3/5000		
BH (60°-80°)	1954.2	17.8	B3/2500		G3/2500
BVH (80°-90°)	48.7	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





REPORT NUMBER: P636543
 CATALOG NUMBER: GWS-SA4B-722-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1088.4	1089.9	1092.2	1096.8	1101.4	1108.3	1115.2	1114.4	1117.4	1119.7	1122.0
5°	1082.3	1083.8	1087.6	1093.8	1100.6	1112.1	1126.6	1132.7	1137.3	1145.7	1153.4
7.5°	1095.3	1098.3	1103.7	1112.1	1122.8	1137.3	1157.2	1167.9	1174.8	1190.1	1203.0
10°	1112.9	1116.7	1127.4	1143.4	1159.5	1181.6	1206.9	1222.9	1227.5	1247.4	1271.8
12.5°	1129.7	1134.3	1151.8	1180.9	1209.9	1239.7	1269.5	1289.4	1290.9	1317.7	1345.2
15°	1156.4	1160.2	1183.9	1221.4	1265.7	1307.0	1343.7	1357.4	1363.6	1382.7	1417.1
17.5°	1215.3	1219.9	1250.4	1290.9	1337.6	1381.1	1417.8	1429.3	1429.3	1445.3	1473.6
20°	1278.7	1283.3	1323.8	1375.8	1432.3	1476.7	1505.0	1494.3	1490.4	1495.0	1514.9
22.5°	1349.8	1358.2	1397.2	1457.6	1527.1	1581.4	1595.9	1563.8	1553.1	1542.4	1547.0
25°	1440.8	1450.7	1488.9	1553.1	1621.1	1678.5	1686.9	1637.2	1631.1	1593.6	1579.9
27.5°	1545.5	1553.1	1600.5	1663.9	1727.4	1775.5	1784.7	1723.6	1702.9	1650.9	1618.8
30°	1680.8	1687.6	1728.9	1791.6	1846.6	1880.2	1891.7	1807.6	1791.6	1712.1	1662.4
32.5°	1828.3	1831.3	1873.4	1933.7	1982.7	2014.8	1998.7	1900.9	1877.2	1787.8	1719.7
35°	1997.2	1997.2	2051.5	2100.4	2139.3	2148.5	2117.9	2006.4	1978.8	1881.8	1796.9
37.5°	2163.0	2167.6	2218.1	2276.2	2310.6	2309.0	2253.2	2130.9	2099.6	1994.1	1900.1
40°	2342.7	2352.6	2403.0	2468.0	2500.9	2496.3	2410.7	2274.6	2242.5	2117.9	2026.2
42.5°	2507.8	2523.8	2582.7	2649.2	2685.1	2682.0	2592.6	2439.7	2408.4	2267.8	2176.0
45°	2639.2	2656.0	2729.4	2821.9	2879.2	2873.9	2783.7	2610.9	2572.7	2425.2	2324.3
47.5°	2754.6	2772.2	2854.0	2951.8	3042.8	3052.0	2969.4	2783.7	2743.2	2594.1	2480.2
50°	2843.3	2851.7	2943.4	3050.4	3155.9	3207.1	3135.3	2957.2	2908.3	2760.7	2632.3
52.5°	2836.4	2847.9	2961.0	3106.2	3247.6	3331.7	3282.0	3120.7	3073.4	2912.8	2787.5
55°	2696.5	2708.0	2842.5	3054.2	3298.8	3422.7	3417.3	3276.7	3242.3	3068.0	2948.8
57.5°	2492.5	2517.7	2651.4	2880.0	3231.6	3495.3	3516.7	3418.8	3382.9	3220.1	3108.5
60°	2127.1	2160.8	2315.1	2611.7	3016.0	3470.8	3622.9	3538.8	3516.7	3361.5	3253.0
62.5°	1545.5	1569.9	1775.5	2164.6	2696.5	3296.5	3712.3	3662.7	3645.8	3488.4	3383.7
65°	925.6	981.4	1146.5	1530.9	2175.3	2967.9	3663.4	3824.7	3807.1	3619.1	3495.3
67.5°	468.5	493.8	558.7	830.1	1462.9	2455.8	3418.1	3925.6	3947.0	3730.7	3535.0
70°	290.4	297.3	315.7	409.7	730.7	1613.5	2795.1	3662.7	3767.4	3713.1	3431.8
72.5°	233.1	234.6	237.7	255.3	350.8	754.4	1767.1	2868.5	3057.3	3467.7	3284.3
75°	193.4	194.1	194.9	200.3	218.6	308.0	859.9	1971.2	2192.1	2947.2	3045.1
77.5°	155.2	151.3	154.4	156.7	161.3	172.0	296.6	1051.7	1275.7	1934.5	2354.9
80°	100.9	99.4	105.5	107.8	112.4	119.2	158.2	356.9	433.4	703.9	749.0
82.5°	54.3	51.2	64.2	61.9	64.2	69.6	93.2	130.7	146.8	212.5	179.6
85°	16.8	16.8	17.6	20.6	25.2	24.5	40.5	64.2	71.1	91.0	67.3
87.5°	3.1	3.1	3.1	3.1	3.1	3.8	8.4	13.0	17.6	31.3	23.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636543
 CATALOG NUMBER: GWS-SA4B-722-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1126.6	1119.7	1123.6	1125.9	1125.1	1123.6	1115.9	1114.4	1110.6	1104.5	1102.9
5°	1160.2	1152.6	1153.4	1151.1	1143.4	1133.5	1116.7	1108.3	1101.4	1093.8	1093.0
7.5°	1213.0	1204.6	1202.3	1191.6	1170.2	1147.3	1120.5	1105.2	1093.8	1083.8	1082.3
10°	1280.2	1271.8	1264.2	1239.0	1203.8	1173.2	1138.1	1115.9	1099.1	1086.9	1084.6
12.5°	1355.2	1348.3	1329.2	1292.5	1250.4	1214.5	1178.6	1151.1	1126.6	1108.3	1106.0
15°	1438.5	1423.2	1394.1	1346.7	1307.0	1278.0	1234.4	1196.9	1158.0	1133.5	1128.1
17.5°	1496.6	1483.6	1449.2	1403.3	1372.0	1346.7	1295.5	1242.0	1189.3	1153.4	1145.7
20°	1537.8	1524.1	1485.1	1451.5	1441.5	1420.1	1360.5	1298.6	1237.4	1193.1	1183.2
22.5°	1567.6	1553.1	1513.4	1496.6	1510.3	1506.5	1448.4	1378.1	1305.5	1252.7	1240.5
25°	1595.9	1582.2	1547.0	1553.1	1589.8	1601.3	1538.6	1456.8	1374.3	1312.3	1297.8
27.5°	1622.7	1605.1	1589.0	1622.7	1674.6	1696.0	1629.5	1537.1	1447.6	1384.2	1372.7
30°	1663.9	1643.3	1641.0	1689.9	1772.5	1790.8	1717.4	1625.0	1536.3	1472.1	1457.6
32.5°	1715.9	1696.8	1698.3	1771.7	1867.2	1882.5	1819.9	1733.5	1644.8	1580.6	1560.8
35°	1786.2	1762.5	1775.5	1865.7	1962.0	1990.3	1939.9	1868.0	1781.6	1715.9	1693.7
37.5°	1883.3	1848.9	1875.7	1970.4	2067.5	2109.5	2070.6	2017.1	1931.5	1865.0	1844.3
40°	2007.1	1978.8	1989.5	2094.3	2194.4	2244.8	2220.4	2167.6	2082.8	2013.2	1989.5
42.5°	2153.9	2125.6	2121.8	2233.4	2333.5	2409.9	2386.2	2338.1	2250.2	2170.7	2147.8
45°	2297.6	2271.6	2276.9	2390.8	2503.2	2586.5	2562.8	2506.2	2410.7	2319.0	2300.6
47.5°	2447.4	2426.0	2430.6	2551.3	2675.1	2758.5	2728.6	2659.9	2548.3	2450.4	2428.3
50°	2601.0	2576.5	2583.4	2710.3	2844.1	2922.8	2876.9	2775.3	2652.2	2556.7	2537.6
52.5°	2753.9	2724.8	2742.4	2862.4	3000.7	3063.4	2978.6	2855.5	2736.3	2641.5	2620.1
55°	2929.7	2899.1	2880.0	3008.4	3145.2	3171.2	3055.0	2911.3	2769.9	2662.1	2649.2
57.5°	3090.2	3064.2	3028.3	3156.7	3257.6	3238.5	3113.9	2896.0	2688.1	2549.8	2531.4
60°	3233.9	3211.7	3180.4	3289.7	3335.5	3292.7	3066.5	2714.9	2486.4	2341.9	2333.5
62.5°	3366.1	3342.4	3313.4	3406.6	3400.5	3301.1	2850.9	2436.7	2130.9	1975.8	1962.0
65°	3470.8	3449.4	3441.0	3514.4	3504.4	3136.8	2515.4	1981.1	1556.9	1381.9	1376.6
67.5°	3500.6	3492.2	3537.3	3661.9	3506.7	2806.6	1972.7	1313.9	836.2	670.3	660.4
70°	3389.0	3388.3	3517.4	3695.5	3188.8	2143.9	1164.1	592.4	420.4	373.0	366.9
72.5°	3243.8	3241.5	3343.9	3188.0	2364.8	1173.2	489.9	317.2	262.9	249.9	249.9
75°	3005.3	2999.2	3076.4	2425.2	1329.9	441.8	259.9	217.8	206.4	204.1	204.1
77.5°	2449.7	2398.5	2276.9	1498.8	463.9	217.1	172.0	171.2	164.3	163.6	163.6
80°	805.6	805.6	936.3	571.7	204.8	133.8	121.5	127.6	120.8	116.2	115.4
82.5°	131.5	181.1	257.6	163.6	110.8	83.3	74.9	79.5	83.3	66.5	66.5
85°	52.0	68.0	99.4	76.4	51.2	33.6	35.9	39.7	35.2	30.6	29.8
87.5°	19.9	24.5	35.2	18.3	10.7	6.1	3.8	3.8	3.1	3.1	3.1
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)