

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: P636582

Luminaire Tested: GWS-SA4B-722-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10570.4 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

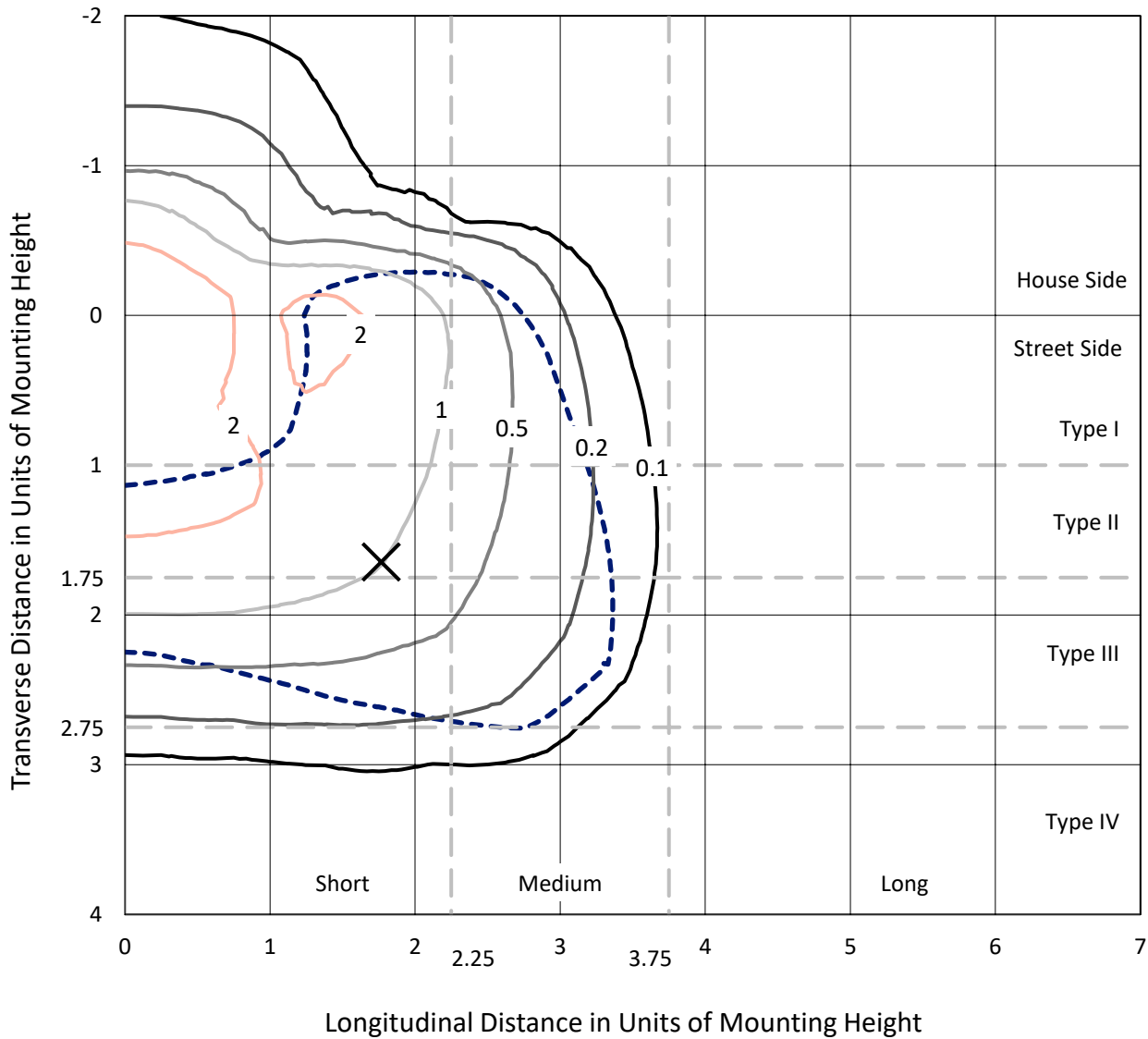
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

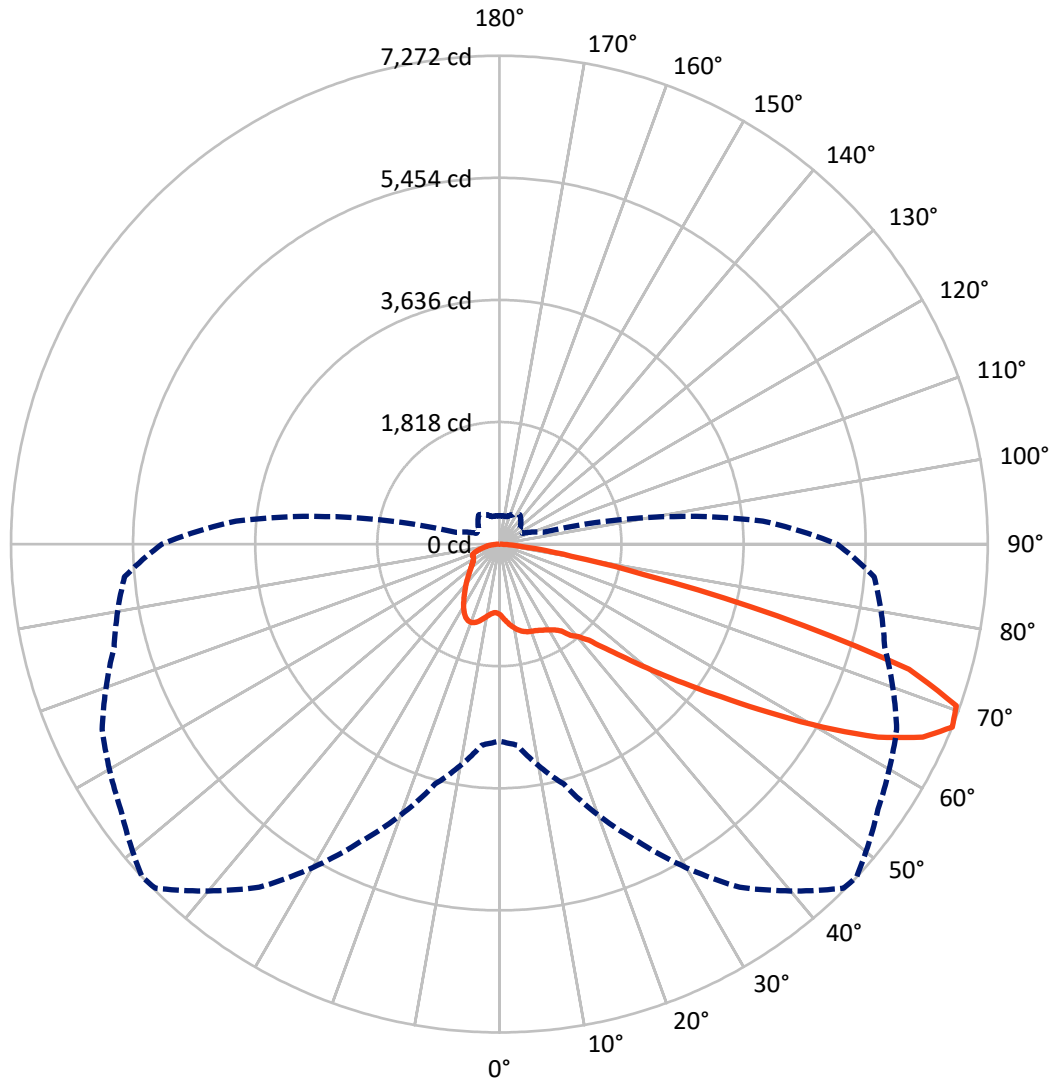
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2409.1	0.0	2409.1
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	8161.3	0.0	8161.3
	% Fixture	77.2	0.0	77.2
Total	Lumens	10570.4	0.0	10570.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	1.0
10°-20°	356.8	3.4
20°-30°	606.5	5.7
30°-40°	888.4	8.4
40°-50°	1353.6	12.8
50°-60°	2421.8	22.9
60°-70°	3231.7	30.6
70°-80°	1461.4	13.8
80°-90°	143.2	1.4
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°	10570.4	100.0
0°-180°	10570.4	100.0

Coefficient of Utilization



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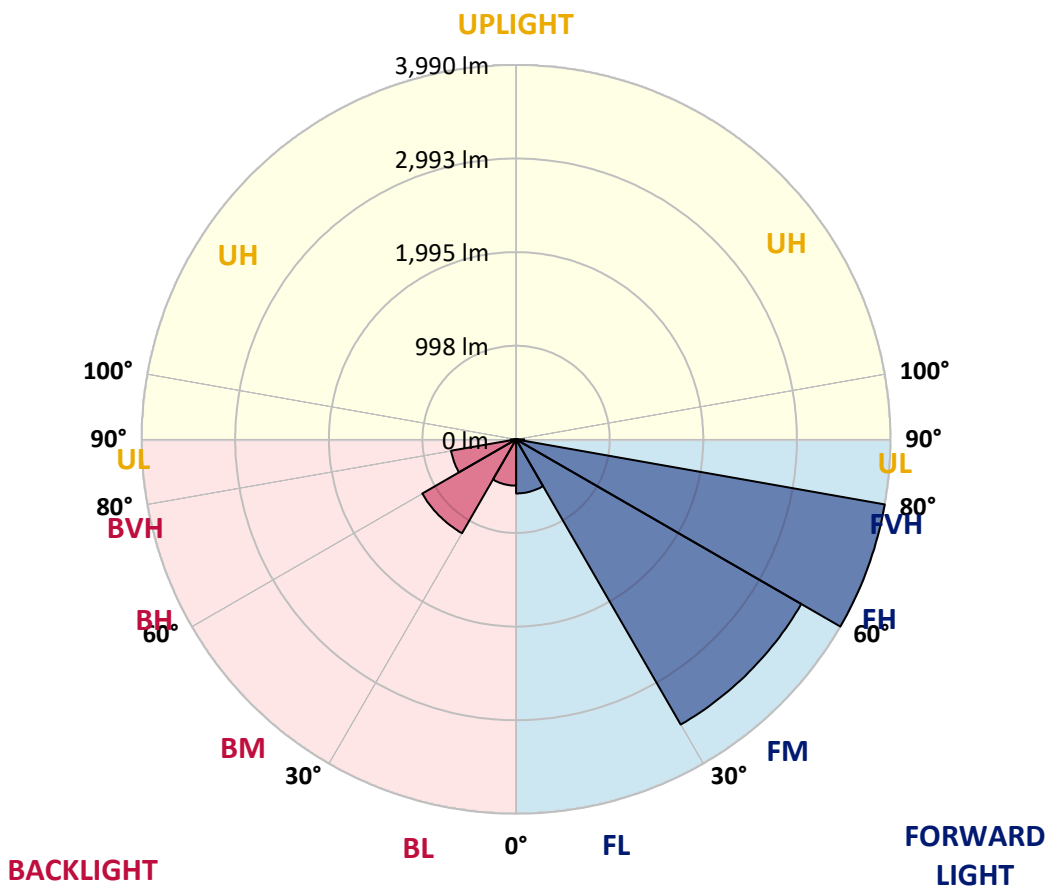
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.5	5.5			
FM (30°-60°)	3509.5	33.2			
FH (60°-80°)	3990.2	37.7			G2/5000
FVH (80°-90°)	85.2	0.8			G1/100
BL (0°-30°)	493.9	4.7	B1/500		
BM (30°-60°)	1154.3	10.9	B2/2500		
BH (60°-80°)	702.9	6.6	B2/1000		G2/1000
BVH (80°-90°)	58.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9
2.5°	1117.4	1121.2	1120.5	1114.4	1110.5	1103.7	1104.4	1093.7	1077.7	1067.0	1054.7
5°	1216.0	1222.1	1214.5	1204.5	1189.3	1167.1	1164.8	1140.3	1109.8	1088.4	1066.2
7.5°	1301.6	1305.4	1296.3	1279.4	1257.3	1227.5	1222.1	1193.1	1154.9	1121.2	1089.1
10°	1368.1	1372.7	1360.5	1338.3	1309.3	1279.4	1275.6	1245.8	1205.3	1165.6	1125.1
12.5°	1424.7	1426.2	1413.2	1383.4	1352.1	1321.5	1317.7	1290.1	1252.7	1212.2	1167.9
15°	1457.5	1458.3	1442.2	1409.4	1379.6	1352.8	1350.5	1326.8	1292.4	1254.2	1206.8
17.5°	1455.2	1456.8	1445.3	1416.3	1390.3	1374.2	1371.9	1356.6	1329.9	1295.5	1248.1
20°	1427.0	1428.5	1420.8	1401.7	1388.0	1383.4	1384.2	1379.6	1363.5	1335.2	1287.1
22.5°	1404.8	1407.1	1400.2	1386.4	1384.9	1395.6	1397.9	1400.2	1392.6	1367.3	1320.7
25°	1415.5	1419.3	1408.6	1389.5	1392.6	1416.3	1420.8	1428.5	1422.4	1401.0	1360.5
27.5°	1489.6	1491.9	1464.4	1425.4	1416.3	1441.5	1448.4	1460.6	1456.0	1436.1	1404.8
30°	1661.6	1660.1	1601.2	1505.7	1467.5	1477.4	1482.8	1500.3	1501.9	1488.9	1459.1
32.5°	1903.9	1896.2	1805.3	1653.2	1542.4	1517.9	1524.0	1547.7	1565.3	1551.5	1511.0
35°	2159.9	2153.0	2052.9	1874.8	1680.7	1595.9	1589.0	1607.3	1634.1	1595.9	1537.8
37.5°	2403.7	2393.0	2290.6	2070.5	1851.1	1732.7	1722.7	1704.4	1688.3	1615.0	1570.6
40°	2674.3	2662.1	2572.6	2323.5	2039.2	1837.4	1812.2	1739.6	1725.0	1678.4	1656.2
42.5°	2963.2	2963.2	2889.1	2643.7	2266.2	1987.2	1954.3	1845.0	1860.3	1829.7	1803.8
45°	3252.1	3260.5	3201.7	2966.3	2569.6	2270.0	2217.2	2062.1	2098.8	2085.0	2072.0
47.5°	3498.2	3514.3	3502.8	3295.7	2941.0	2613.9	2533.7	2372.4	2451.1	2484.0	2520.7
50°	3763.4	3781.0	3769.5	3687.8	3375.9	3030.5	2958.6	2792.0	2927.3	3025.9	3145.9
52.5°	4157.1	4182.3	4086.7	4055.4	3904.1	3503.6	3439.4	3249.8	3495.2	3658.7	3926.2
55°	4489.5	4488.8	4455.1	4527.0	4471.2	4082.1	4011.1	3839.1	4152.5	4326.0	4717.3
57.5°	4643.9	4662.3	4777.7	4981.0	5092.6	4789.1	4721.1	4545.3	4857.9	4948.1	5370.8
60°	4723.4	4746.3	4969.5	5371.5	5671.9	5561.1	5534.3	5310.4	5486.2	5475.5	5921.8
62.5°	4611.8	4657.7	5016.1	5550.4	6085.4	6336.8	6328.4	5989.9	6020.4	5915.7	6263.5
65°	4099.7	4149.4	4711.9	5461.0	6321.6	6926.9	6929.2	6605.1	6430.9	6129.7	6206.2
67.5°	2931.9	3003.0	3698.5	4886.2	6238.3	7245.6	7272.4	6884.1	6527.2	5940.2	5603.9
70°	1598.2	1650.1	2195.1	3551.7	5487.7	7169.2	7218.9	6749.6	6102.2	5138.4	4313.7
72.5°	726.1	742.9	1021.1	1949.0	3748.9	6171.0	6378.9	6023.5	5011.5	3795.5	2743.1
75°	332.5	340.1	444.8	932.5	1958.9	4129.5	4275.5	4486.5	3487.5	2396.9	1430.0
77.5°	208.7	210.9	253.0	426.5	976.8	2061.3	2215.0	2671.2	2042.2	1186.2	597.7
80°	123.1	125.3	157.4	230.8	458.6	943.2	1089.1	1056.3	960.0	512.1	272.1
82.5°	61.9	64.2	91.0	131.5	249.9	375.3	441.8	444.1	357.7	277.4	153.6
85°	22.2	22.9	29.8	52.0	106.2	123.8	138.3	168.9	175.0	161.3	74.1
87.5°	0.0	0.0	0.8	1.5	3.1	12.2	13.0	24.5	51.2	57.3	29.8
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°	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9	1047.9
2.5°	1050.9	1039.5	1035.6	1031.8	1025.7	1023.4	1018.8	1014.2	1014.2	1009.6	1007.4
5°	1056.3	1041.0	1031.0	1026.5	1022.6	1024.9	1024.9	1026.5	1031.8	1028.8	1030.3
7.5°	1075.4	1057.8	1044.0	1040.2	1040.2	1049.4	1055.5	1063.1	1073.1	1074.6	1074.6
10°	1109.0	1088.4	1073.8	1071.6	1075.4	1088.4	1097.5	1106.7	1118.9	1119.7	1121.2
12.5°	1145.7	1125.1	1110.5	1113.6	1117.4	1134.2	1144.2	1151.8	1164.0	1164.0	1163.3
15°	1183.9	1161.0	1148.7	1154.9	1166.3	1185.4	1187.0	1187.7	1193.8	1192.3	1191.6
17.5°	1223.7	1199.2	1190.0	1199.2	1211.4	1220.6	1213.0	1202.3	1200.0	1196.9	1195.4
20°	1262.6	1237.4	1233.6	1240.5	1244.3	1236.6	1213.0	1193.1	1183.9	1179.3	1177.8
22.5°	1296.3	1274.9	1272.6	1272.6	1253.5	1226.7	1191.6	1164.8	1152.6	1146.5	1144.9
25°	1336.0	1316.1	1312.3	1291.7	1242.8	1193.8	1146.5	1122.0	1112.1	1109.0	1109.8
27.5°	1382.6	1368.9	1356.6	1297.8	1212.2	1135.8	1082.3	1071.6	1067.7	1071.6	1073.8
30°	1439.9	1426.2	1398.7	1290.1	1163.3	1060.1	1008.9	1008.1	1019.6	1029.5	1031.0
32.5°	1486.6	1480.5	1435.4	1265.7	1094.5	976.8	933.2	936.3	956.9	970.7	973.0
35°	1523.3	1533.2	1465.9	1225.2	1012.7	898.1	863.7	865.2	876.7	895.8	896.5
37.5°	1575.2	1608.9	1493.5	1163.3	918.7	830.0	798.7	787.2	785.7	791.1	792.6
40°	1679.9	1730.4	1513.3	1073.1	827.7	768.9	733.7	711.6	692.5	677.9	673.4
42.5°	1838.2	1896.2	1524.8	963.8	746.7	708.5	668.8	640.5	606.9	576.3	565.6
45°	2128.6	2147.7	1524.8	847.6	674.9	652.0	612.2	578.6	535.8	499.9	492.2
47.5°	2593.3	2532.1	1526.3	735.3	611.4	602.3	567.9	529.7	482.3	452.5	447.9
50°	3293.4	3078.6	1557.7	642.0	558.7	560.2	535.0	493.0	450.2	428.0	424.2
52.5°	4086.7	3752.0	1641.7	573.2	514.4	525.8	512.1	471.6	433.4	414.3	410.4
55°	4832.7	4371.1	1713.6	524.3	476.9	496.8	496.0	458.6	424.2	405.1	402.8
57.5°	5467.1	4795.2	1702.9	484.6	444.8	470.0	481.5	450.2	418.1	402.0	399.7
60°	5861.4	5020.0	1550.8	447.9	420.4	450.9	473.1	447.9	421.1	417.3	418.1
62.5°	6032.7	4978.7	1258.8	420.4	404.3	441.8	482.3	463.9	449.4	458.6	463.9
65°	5766.7	4624.0	926.3	399.7	389.0	444.1	503.7	489.2	449.4	455.5	457.8
67.5°	5028.4	3936.2	669.5	379.1	369.9	450.9	534.2	485.3	423.4	423.4	418.8
70°	3623.6	2831.0	486.1	358.5	350.8	441.0	535.8	459.3	393.6	391.3	379.9
72.5°	2180.6	1670.0	379.1	335.5	321.8	391.3	502.1	428.8	364.6	345.5	331.7
75°	1132.7	836.9	318.0	310.3	275.9	331.7	459.3	381.4	311.8	295.0	287.4
77.5°	485.3	391.3	272.9	276.7	229.3	279.0	370.7	330.2	276.7	255.3	248.4
80°	239.2	222.4	215.5	221.6	183.4	215.5	319.5	288.9	234.6	210.2	200.2
82.5°	136.8	129.9	155.2	157.4	130.7	180.4	269.8	244.6	194.1	167.4	151.3
85°	63.4	68.0	94.0	94.8	81.0	123.8	176.6	137.6	103.2	85.6	81.8
87.5°	25.2	29.8	41.3	40.5	23.7	22.9	15.3	8.4	6.9	6.1	5.4
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)