

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P799735

Luminaire Tested: **ARCH2-50-722-U-T3**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-50-722-U-T3  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

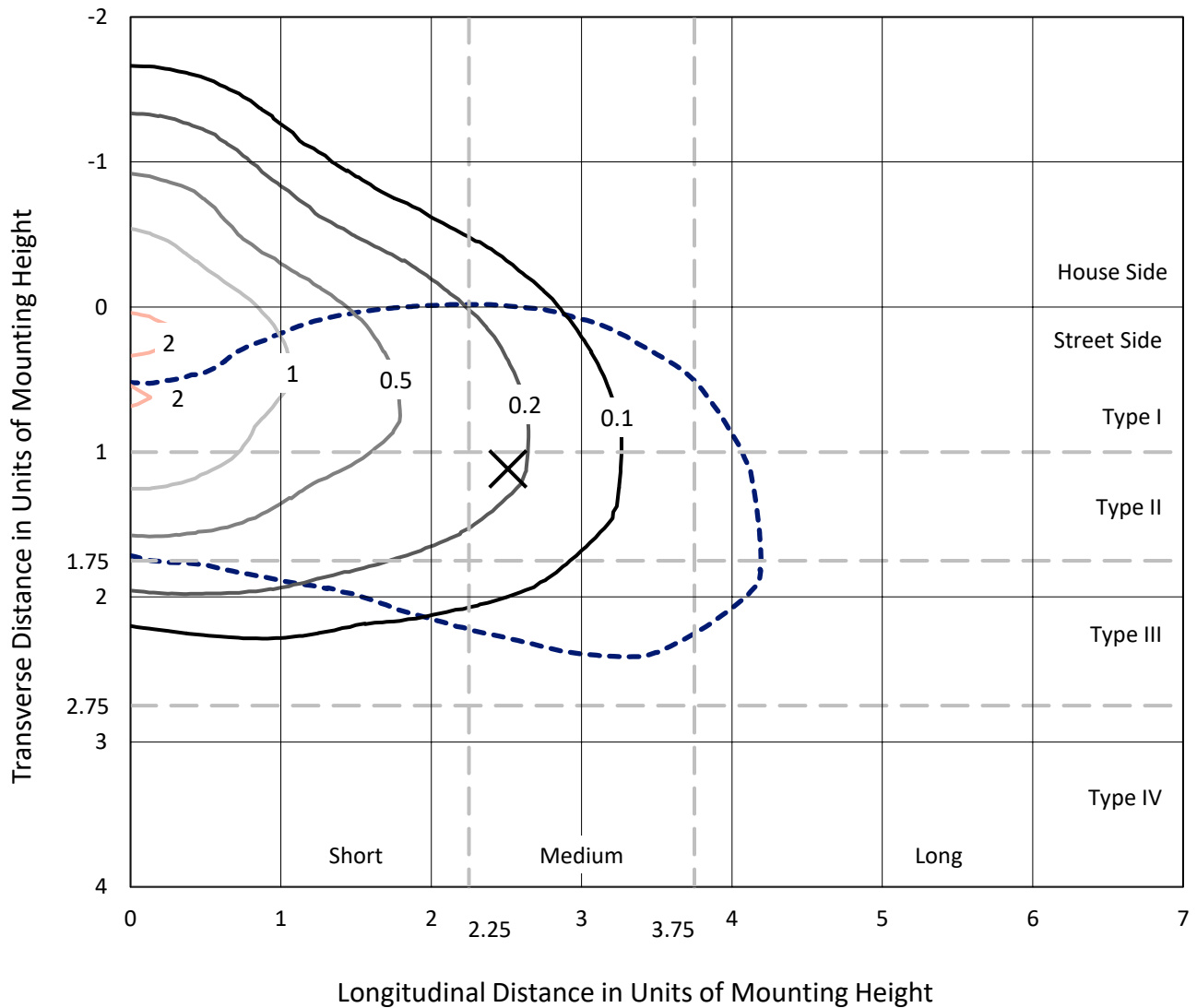
Lumens per Lamp: N/A  
Luminaire Lumens: 6741 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 54  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P799735  
 CATALOG NUMBER: ARCH2-50-722-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

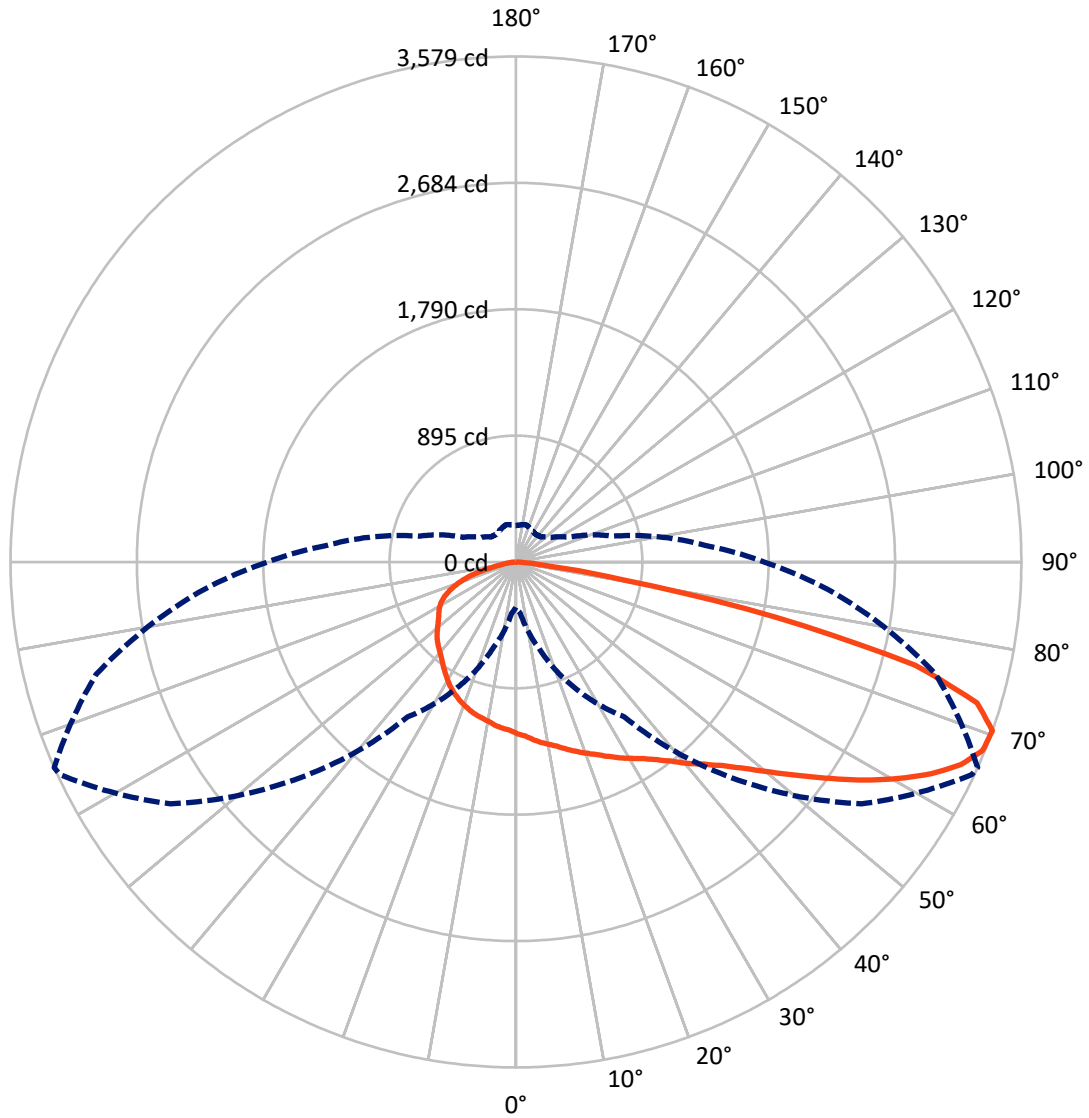
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P799735  
CATALOG NUMBER: ARCH2-50-722-U-T3

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P799735  
 CATALOG NUMBER: ARCH2-50-722-U-T3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1786.2	0.0	1786.2
	% Fixture	26.5	0.0	26.5
<b>Street Side</b>	Lumens	4954.8	0.0	4954.8
	% Fixture	73.5	0.0	73.5
<b>Total</b>	Lumens	6741.0	0.0	6741.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.9	1.7
10°-20°	350.7	5.2
20°-30°	587.8	8.7
30°-40°	880.2	13.1
40°-50°	1176.8	17.5
50°-60°	1373.9	20.4
60°-70°	1366.2	20.3
70°-80°	808.8	12.0
80°-90°	79.7	1.2
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°	6741.0	100.0
0°-180°	6741.0	100.0

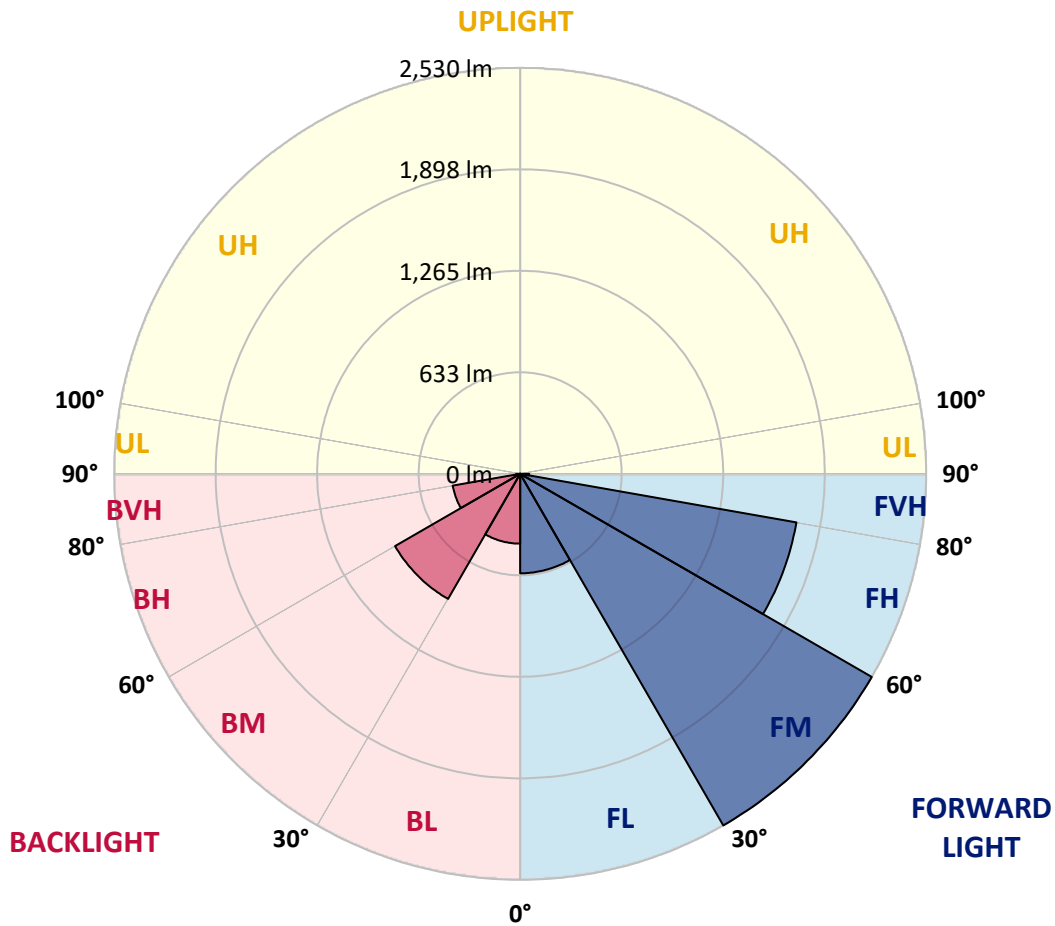


REPORT NUMBER: P799735  
 CATALOG NUMBER: ARCH2-50-722-U-T3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	620.0	9.2			
FM (30°-60°)	2530.5	37.5			
FH (60°-80°)	1748.3	25.9			G1/1800
FVH (80°-90°)	56.0	0.8			G1/100
BL (0°-30°)	435.4	6.5	B1/500		
BM (30°-60°)	900.4	13.4	B1/1000		
BH (60°-80°)	426.7	6.3	B1/500		G1/500
BVH (80°-90°)	23.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type III Medium



REPORT NUMBER: P799735  
 CATALOG NUMBER: ARCH2-50-722-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6
2.5°	1261.3	1259.3	1258.3	1254.4	1245.4	1249.4	1240.5	1234.5	1233.5	1219.6	1211.6
5°	1313.0	1312.0	1310.0	1304.1	1290.1	1292.1	1277.2	1266.3	1263.3	1241.4	1224.5
7.5°	1356.7	1354.8	1353.8	1345.8	1330.9	1329.9	1312.0	1296.1	1291.1	1261.3	1235.5
10°	1390.5	1387.6	1389.5	1381.6	1365.7	1362.7	1339.8	1319.0	1314.0	1276.2	1240.5
12.5°	1419.4	1417.4	1420.4	1413.4	1400.5	1397.5	1374.6	1347.8	1341.8	1298.1	1251.4
15°	1451.2	1444.2	1450.2	1447.2	1438.2	1437.3	1416.4	1386.6	1378.6	1325.9	1268.3
17.5°	1468.1	1464.1	1471.0	1472.0	1468.1	1475.0	1455.1	1419.4	1412.4	1351.8	1283.2
20°	1480.0	1474.0	1482.0	1487.9	1490.9	1504.8	1488.9	1454.2	1446.2	1376.6	1297.1
22.5°	1520.7	1507.8	1508.8	1512.8	1514.8	1534.7	1524.7	1490.9	1483.0	1407.4	1314.0
25°	1623.1	1597.3	1580.4	1568.5	1554.5	1571.4	1565.5	1532.7	1525.7	1444.2	1334.9
27.5°	1782.2	1749.4	1715.6	1680.8	1626.1	1619.1	1609.2	1579.4	1571.4	1481.0	1355.8
30°	1963.1	1930.3	1890.5	1834.8	1732.5	1678.8	1655.9	1623.1	1614.2	1513.8	1375.6
32.5°	2143.0	2114.1	2074.4	2006.8	1860.7	1751.3	1702.6	1668.8	1659.9	1549.6	1399.5
35°	2283.1	2265.2	2239.4	2154.9	1987.9	1836.8	1770.2	1729.5	1719.5	1606.2	1443.2
37.5°	2396.4	2383.5	2361.6	2273.2	2080.3	1922.3	1847.8	1801.0	1790.1	1667.9	1489.9
40°	2563.4	2529.6	2511.7	2383.5	2160.9	1999.8	1935.2	1886.5	1874.6	1733.5	1527.7
42.5°	2705.5	2680.7	2658.8	2481.9	2237.4	2066.4	2017.7	1973.0	1957.1	1798.1	1568.5
45°	2729.4	2739.3	2728.4	2530.6	2358.6	2132.0	2101.2	2072.4	2057.5	1885.5	1630.1
47.5°	2730.4	2730.4	2665.8	2558.4	2508.7	2205.6	2190.7	2200.6	2184.7	1996.8	1703.6
50°	2658.8	2671.7	2637.9	2565.4	2548.5	2279.1	2300.0	2353.7	2337.8	2115.1	1783.1
52.5°	2510.7	2553.5	2552.5	2554.5	2490.8	2341.8	2415.3	2537.6	2510.7	2248.3	1867.6
55°	2249.3	2334.8	2411.3	2476.9	2441.1	2379.5	2556.4	2733.4	2705.5	2397.4	1953.1
57.5°	2025.7	2080.3	2175.8	2361.6	2382.5	2412.3	2688.6	2938.1	2913.3	2562.4	2042.6
60°	1770.2	1845.8	1941.2	2205.6	2310.9	2455.1	2833.8	3137.9	3114.1	2729.4	2129.0
62.5°	1377.6	1475.0	1665.9	1966.0	2206.6	2481.9	2948.1	3313.8	3302.9	2887.4	2206.6
65°	960.2	1046.6	1314.0	1671.8	2040.6	2470.0	3039.5	3470.9	3460.9	3016.6	2261.2
67.5°	560.6	661.0	963.1	1345.8	1747.4	2387.5	3069.3	3563.3	3563.3	3095.2	2276.1
70°	320.1	366.8	635.1	981.0	1339.8	2159.9	2985.8	3562.3	3579.2	3077.3	2214.5
72.5°	223.6	244.5	427.4	660.0	908.5	1747.4	2767.2	3390.4	3413.2	2908.3	2003.8
75°	173.9	188.9	301.2	450.3	572.5	1186.8	2289.1	2858.6	2919.2	2478.9	1620.1
77.5°	132.2	143.1	175.9	281.3	366.8	681.9	1510.8	1874.6	1878.6	1517.8	868.7
80°	96.4	107.3	117.3	172.0	194.8	319.1	570.5	783.2	761.4	734.5	470.1
82.5°	57.6	68.6	71.6	93.4	95.4	136.2	199.8	252.5	242.5	323.0	220.7
85°	24.8	34.8	36.8	42.7	40.8	55.7	79.5	66.6	59.6	68.6	47.7
87.5°	6.0	9.9	9.9	10.9	8.9	13.9	14.9	10.9	9.9	11.9	11.9
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: P799735  
 CATALOG NUMBER: ARCH2-50-722-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6	1216.6
2.5°	1209.6	1206.7	1207.7	1190.8	1185.8	1180.8	1177.8	1175.8	1173.9	1176.8	1179.8
5°	1218.6	1211.6	1203.7	1178.8	1168.9	1158.0	1150.0	1143.0	1140.1	1140.1	1143.0
7.5°	1225.5	1213.6	1196.7	1163.9	1146.0	1131.1	1118.2	1109.3	1104.3	1104.3	1107.3
10°	1226.5	1209.6	1182.8	1143.0	1119.2	1097.3	1082.4	1072.5	1065.5	1065.5	1067.5
12.5°	1232.5	1209.6	1174.9	1127.1	1097.3	1070.5	1052.6	1037.7	1034.7	1034.7	1036.7
15°	1242.4	1214.6	1169.9	1113.2	1077.4	1046.6	1026.8	1010.8	1004.9	1008.9	1009.9
17.5°	1251.4	1217.6	1160.9	1095.3	1052.6	1018.8	996.9	983.0	975.1	984.0	984.0
20°	1257.3	1217.6	1148.0	1072.5	1025.8	988.0	967.1	950.2	944.3	955.2	956.2
22.5°	1266.3	1216.6	1134.1	1049.6	996.9	957.2	936.3	923.4	920.4	932.3	936.3
25°	1276.2	1218.6	1119.2	1023.8	965.1	926.4	910.5	904.5	906.5	921.4	926.4
27.5°	1287.2	1222.6	1104.3	994.9	930.3	895.6	886.6	889.6	897.5	916.4	922.4
30°	1297.1	1223.6	1083.4	961.2	890.6	857.8	861.8	874.7	886.6	905.5	912.4
32.5°	1310.0	1224.5	1061.5	924.4	847.8	824.0	841.9	862.8	874.7	892.6	900.5
35°	1341.8	1241.4	1044.6	888.6	808.1	795.2	825.0	851.8	858.8	874.7	881.6
37.5°	1378.6	1269.3	1035.7	851.8	769.3	766.3	804.1	830.9	832.9	842.9	849.8
40°	1401.5	1281.2	1025.8	821.0	734.5	736.5	775.3	796.2	792.2	799.1	804.1
42.5°	1424.3	1285.2	1004.9	795.2	701.7	703.7	733.5	748.4	750.4	765.3	772.3
45°	1463.1	1296.1	982.0	771.3	671.9	665.0	682.8	702.7	728.6	757.4	765.3
47.5°	1514.8	1319.0	958.2	742.5	643.1	620.2	627.2	662.0	688.8	715.6	720.6
50°	1567.5	1341.8	936.3	707.7	614.3	572.5	575.5	607.3	629.2	650.0	653.0
52.5°	1619.1	1361.7	917.4	674.9	581.5	515.9	527.8	560.6	575.5	585.4	588.4
55°	1670.8	1378.6	900.5	647.1	543.7	471.1	482.1	512.9	527.8	532.8	534.7
57.5°	1724.5	1398.5	887.6	623.2	501.0	431.4	438.3	460.2	474.1	480.1	478.1
60°	1769.2	1415.4	880.6	598.4	458.2	394.6	392.6	412.5	432.4	438.3	436.3
62.5°	1804.0	1426.3	869.7	566.6	420.4	357.8	347.9	373.7	394.6	398.6	401.6
65°	1822.9	1427.3	842.9	525.8	381.7	318.1	311.1	336.9	349.9	353.8	353.8
67.5°	1819.9	1411.4	790.2	471.1	345.9	282.3	276.3	292.2	311.1	314.1	311.1
70°	1758.3	1345.8	705.7	413.5	303.2	250.5	239.5	255.4	273.3	262.4	257.4
72.5°	1583.4	1175.8	581.5	349.9	255.4	210.7	205.7	221.7	222.6	224.6	219.7
75°	1249.4	875.7	435.4	272.3	206.7	176.9	175.9	172.9	176.9	184.9	178.9
77.5°	656.0	437.3	235.6	167.0	150.1	142.1	135.2	134.2	146.1	151.1	145.1
80°	355.8	245.5	135.2	100.4	91.4	92.4	101.4	99.4	112.3	115.3	110.3
82.5°	155.1	116.3	66.6	60.6	60.6	59.6	62.6	69.6	83.5	83.5	66.6
85°	33.8	28.8	25.8	29.8	33.8	33.8	33.8	33.8	23.9	12.9	8.9
87.5°	10.9	10.9	10.9	11.9	12.9	12.9	10.9	8.0	5.0	1.0	0.0
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)