

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: P799607

Luminaire Tested: **ARCH2-40-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799607
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: ARCH2-40-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5629 lumens
Efficiency: N/A
Efficacy: 127.6 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

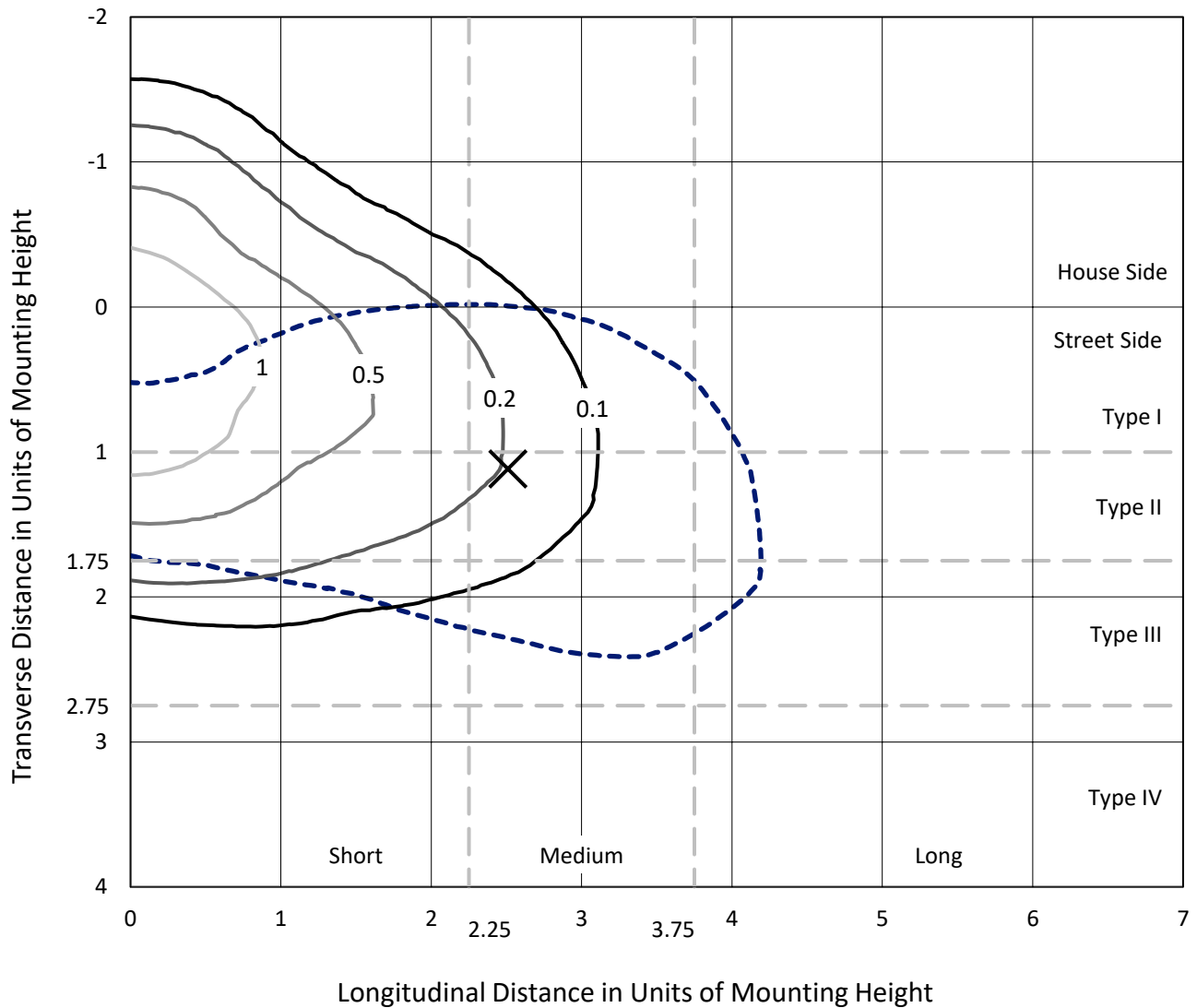
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

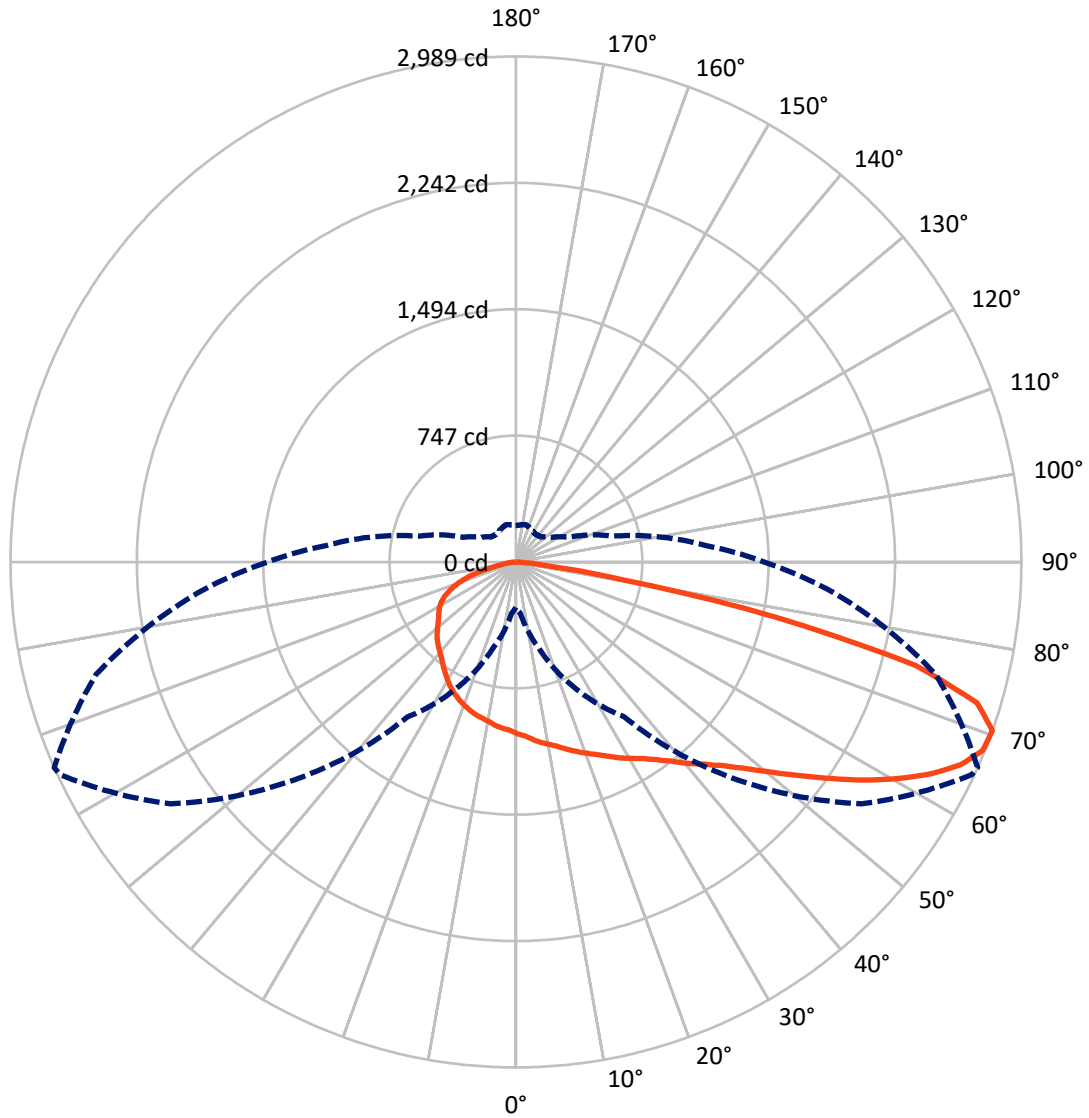
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1491.5	0.0	1491.5
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4137.4	0.0	4137.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	5629.0	0.0	5629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.7
10°-20°	292.8	5.2
20°-30°	490.9	8.7
30°-40°	735.0	13.1
40°-50°	982.7	17.5
50°-60°	1147.3	20.4
60°-70°	1140.8	20.3
70°-80°	675.4	12.0
80°-90°	66.6	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°	5629.0	100.0
0°-180°	5629.0	100.0

Coefficient of Utilization

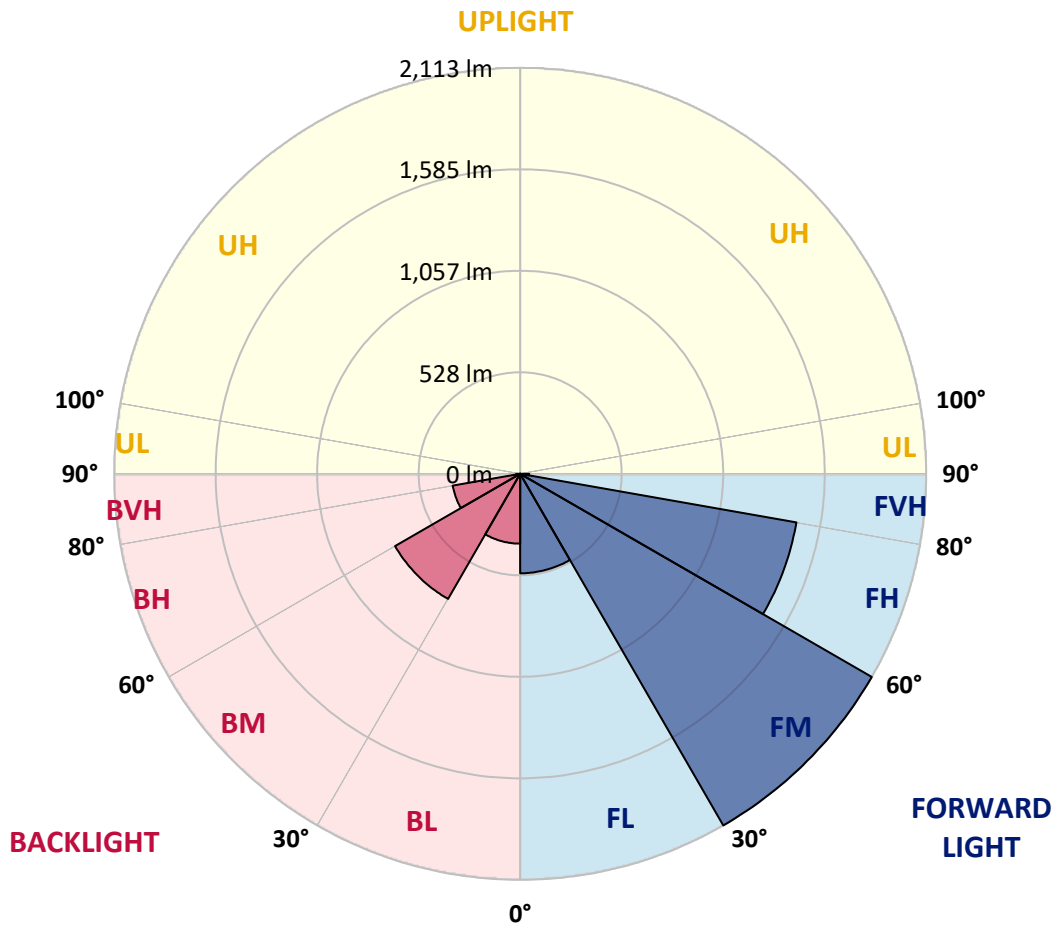


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	517.7	9.2			
FM (30°-60°)	2113.0	37.5			
FH (60°-80°)	1459.9	25.9			G1/1800
FVH (80°-90°)	46.8	0.8			G1/100
BL (0°-30°)	363.6	6.5	B1/500		
BM (30°-60°)	751.9	13.4	B1/1000		
BH (60°-80°)	356.3	6.3	B1/500		G1/500
BVH (80°-90°)	19.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1053.3	1051.6	1050.8	1047.4	1040.0	1043.3	1035.8	1030.8	1030.0	1018.4	1011.8
5°	1096.4	1095.6	1093.9	1088.9	1077.3	1079.0	1066.5	1057.4	1054.9	1036.7	1022.5
7.5°	1132.9	1131.3	1130.4	1123.8	1111.4	1110.5	1095.6	1082.3	1078.2	1053.3	1031.7
10°	1161.2	1158.7	1160.3	1153.7	1140.4	1137.9	1118.8	1101.4	1097.2	1065.7	1035.8
12.5°	1185.2	1183.6	1186.1	1180.2	1169.5	1167.0	1147.9	1125.5	1120.5	1084.0	1045.0
15°	1211.8	1206.0	1211.0	1208.5	1201.0	1200.2	1182.7	1157.8	1151.2	1107.2	1059.1
17.5°	1225.9	1222.6	1228.4	1229.2	1225.9	1231.7	1215.1	1185.2	1179.4	1128.8	1071.5
20°	1235.9	1230.9	1237.5	1242.5	1245.0	1256.6	1243.3	1214.3	1207.6	1149.5	1083.1
22.5°	1269.9	1259.1	1259.9	1263.2	1264.9	1281.5	1273.2	1245.0	1238.3	1175.3	1097.2
25°	1355.4	1333.8	1319.7	1309.7	1298.1	1312.2	1307.2	1279.8	1274.0	1206.0	1114.7
27.5°	1488.2	1460.8	1432.6	1403.5	1357.9	1352.1	1343.8	1318.9	1312.2	1236.7	1132.1
30°	1639.2	1611.8	1578.6	1532.2	1446.7	1401.9	1382.8	1355.4	1347.9	1264.1	1148.7
32.5°	1789.5	1765.4	1732.2	1675.7	1553.7	1462.4	1421.8	1393.6	1386.1	1294.0	1168.6
35°	1906.5	1891.5	1870.0	1799.4	1660.0	1533.8	1478.2	1444.2	1435.9	1341.3	1205.1
37.5°	2001.1	1990.3	1972.1	1898.2	1737.2	1605.2	1542.9	1503.9	1494.8	1392.7	1244.2
40°	2140.5	2112.3	2097.4	1990.3	1804.4	1669.9	1616.0	1575.3	1565.4	1447.5	1275.7
42.5°	2259.2	2238.5	2220.2	2072.5	1868.3	1725.5	1684.9	1647.5	1634.2	1501.4	1309.7
45°	2279.1	2287.4	2278.3	2113.2	1969.6	1780.3	1754.6	1730.5	1718.1	1574.5	1361.2
47.5°	2280.0	2280.0	2226.0	2136.4	2094.9	1841.7	1829.3	1837.6	1824.3	1667.4	1422.6
50°	2220.2	2231.0	2202.8	2142.2	2128.1	1903.2	1920.6	1965.4	1952.1	1766.2	1489.0
52.5°	2096.6	2132.2	2131.4	2133.1	2080.0	1955.5	2016.9	2119.0	2096.6	1877.4	1559.5
55°	1878.3	1949.6	2013.6	2068.3	2038.5	1987.0	2134.7	2282.5	2259.2	2001.9	1630.9
57.5°	1691.5	1737.2	1816.8	1972.1	1989.5	2014.4	2245.1	2453.4	2432.7	2139.7	1705.6
60°	1478.2	1541.3	1621.0	1841.7	1929.7	2050.1	2366.3	2620.3	2600.4	2279.1	1777.8
62.5°	1150.4	1231.7	1391.1	1641.7	1842.6	2072.5	2461.7	2767.2	2758.1	2411.1	1842.6
65°	801.8	874.0	1097.2	1396.0	1704.0	2062.5	2538.1	2898.3	2890.0	2519.0	1888.2
67.5°	468.1	551.9	804.3	1123.8	1459.1	1993.6	2563.0	2975.5	2975.5	2584.6	1900.7
70°	267.3	306.3	530.4	819.2	1118.8	1803.6	2493.3	2974.7	2988.8	2569.6	1849.2
72.5°	186.7	204.2	356.9	551.1	758.6	1459.1	2310.7	2831.1	2850.2	2428.5	1673.3
75°	145.2	157.7	251.5	376.0	478.1	991.0	1911.5	2387.0	2437.7	2070.0	1352.9
77.5°	110.4	119.5	146.9	234.9	306.3	569.4	1261.6	1565.4	1568.7	1267.4	725.4
80°	80.5	89.6	97.9	143.6	162.7	266.4	476.4	654.0	635.8	613.4	392.6
82.5°	48.1	57.3	59.8	78.0	79.7	113.7	166.8	210.8	202.5	269.7	184.3
85°	20.7	29.0	30.7	35.7	34.0	46.5	66.4	55.6	49.8	57.3	39.8
87.5°	5.0	8.3	8.3	9.1	7.5	11.6	12.4	9.1	8.3	10.0	10.0
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°	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9	1015.9
2.5°	1010.1	1007.6	1008.4	994.3	990.2	986.0	983.5	981.9	980.2	982.7	985.2
5°	1017.6	1011.8	1005.1	984.4	976.1	966.9	960.3	954.5	952.0	952.0	954.5
7.5°	1023.4	1013.4	999.3	971.9	957.0	944.5	933.7	926.3	922.1	922.1	924.6
10°	1024.2	1010.1	987.7	954.5	934.6	916.3	903.9	895.6	889.7	889.7	891.4
12.5°	1029.2	1010.1	981.0	941.2	916.3	893.9	879.0	866.5	864.0	864.0	865.7
15°	1037.5	1014.2	976.9	929.6	899.7	874.0	857.4	844.1	839.1	842.4	843.3
17.5°	1045.0	1016.7	969.4	914.6	879.0	850.7	832.5	820.9	814.2	821.7	821.7
20°	1049.9	1016.7	958.6	895.6	856.5	825.0	807.6	793.5	788.5	797.6	798.4
22.5°	1057.4	1015.9	947.0	876.5	832.5	799.3	781.8	771.1	768.6	778.5	781.8
25°	1065.7	1017.6	934.6	854.9	805.9	773.5	760.3	755.3	756.9	769.4	773.5
27.5°	1074.8	1020.9	922.1	830.8	776.9	747.8	740.4	742.8	749.5	765.2	770.2
30°	1083.1	1021.7	904.7	802.6	743.7	716.3	719.6	730.4	740.4	756.1	761.9
32.5°	1093.9	1022.5	886.4	771.9	708.0	688.1	703.0	720.4	730.4	745.3	752.0
35°	1120.5	1036.7	872.3	742.0	674.8	664.0	688.9	711.3	717.1	730.4	736.2
37.5°	1151.2	1059.9	864.8	711.3	642.4	639.9	671.5	693.9	695.5	703.8	709.6
40°	1170.3	1069.9	856.5	685.6	613.4	615.0	647.4	664.8	661.5	667.3	671.5
42.5°	1189.4	1073.2	839.1	664.0	586.0	587.6	612.5	625.0	626.6	639.1	644.9
45°	1221.7	1082.3	820.0	644.1	561.1	555.3	570.2	586.8	608.4	632.5	639.1
47.5°	1264.9	1101.4	800.1	620.0	537.0	517.9	523.7	552.8	575.2	597.6	601.7
50°	1308.9	1120.5	781.8	591.0	512.9	478.1	480.6	507.1	525.4	542.8	545.3
52.5°	1352.1	1137.1	766.1	563.6	485.5	430.8	440.7	468.1	480.6	488.9	491.4
55°	1395.2	1151.2	752.0	540.3	454.0	393.4	402.5	428.3	440.7	444.9	446.5
57.5°	1440.0	1167.8	741.2	520.4	418.3	360.2	366.0	384.3	395.9	400.9	399.2
60°	1477.4	1181.9	735.4	499.7	382.6	329.5	327.8	344.4	361.0	366.0	364.4
62.5°	1506.4	1191.0	726.2	473.1	351.1	298.8	290.5	312.1	329.5	332.8	335.3
65°	1522.2	1191.9	703.8	439.1	318.7	265.6	259.8	281.4	292.2	295.5	295.5
67.5°	1519.7	1178.6	659.8	393.4	288.8	235.7	230.7	244.0	259.8	262.3	259.8
70°	1468.3	1123.8	589.3	345.3	253.1	209.2	200.0	213.3	228.2	219.1	215.0
72.5°	1322.2	981.9	485.5	292.2	213.3	176.0	171.8	185.1	185.9	187.6	183.4
75°	1043.3	731.2	363.5	227.4	172.6	147.7	146.9	144.4	147.7	154.4	149.4
77.5°	547.8	365.2	196.7	139.4	125.3	118.7	112.9	112.0	122.0	126.2	121.2
80°	297.1	205.0	112.9	83.8	76.4	77.2	84.7	83.0	93.8	96.3	92.1
82.5°	129.5	97.1	55.6	50.6	50.6	49.8	52.3	58.1	69.7	69.7	55.6
85°	28.2	24.1	21.6	24.9	28.2	28.2	28.2	28.2	19.9	10.8	7.5
87.5°	9.1	9.1	9.1	10.0	10.8	10.8	9.1	6.6	4.1	0.8	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)