

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: P798839

Luminaire Tested: **ARCH1-40-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798839
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: ARCH1-40-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4858 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

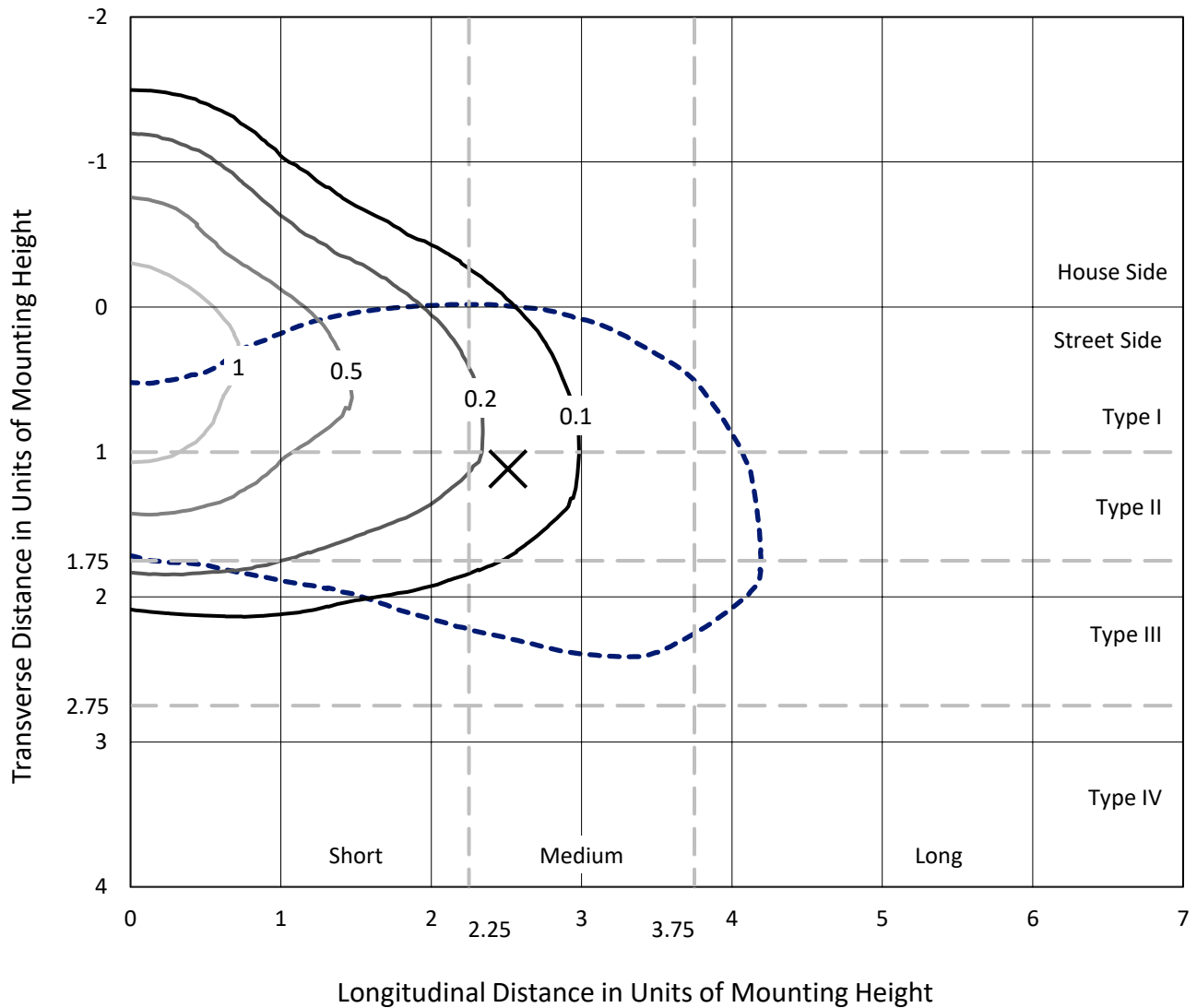
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

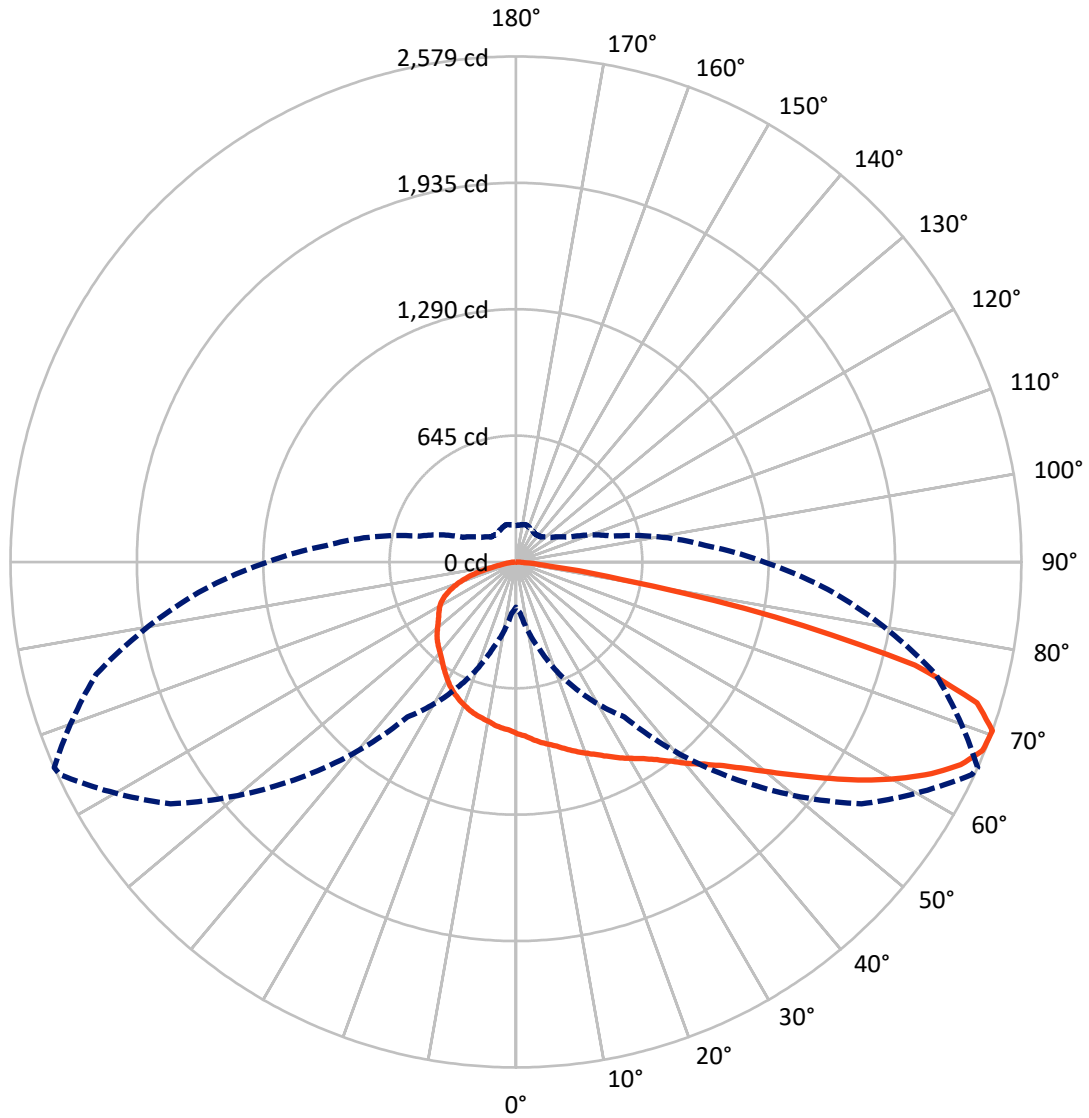
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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	1287.3	0.0	1287.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	3570.7	0.0	3570.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	4858.0	0.0	4858.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.7
10°-20°	252.7	5.2
20°-30°	423.6	8.7
30°-40°	634.3	13.1
40°-50°	848.1	17.5
50°-60°	990.2	20.4
60°-70°	984.6	20.3
70°-80°	582.9	12.0
80°-90°	57.5	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°	4858.0	100.0
0°-180°	4858.0	100.0

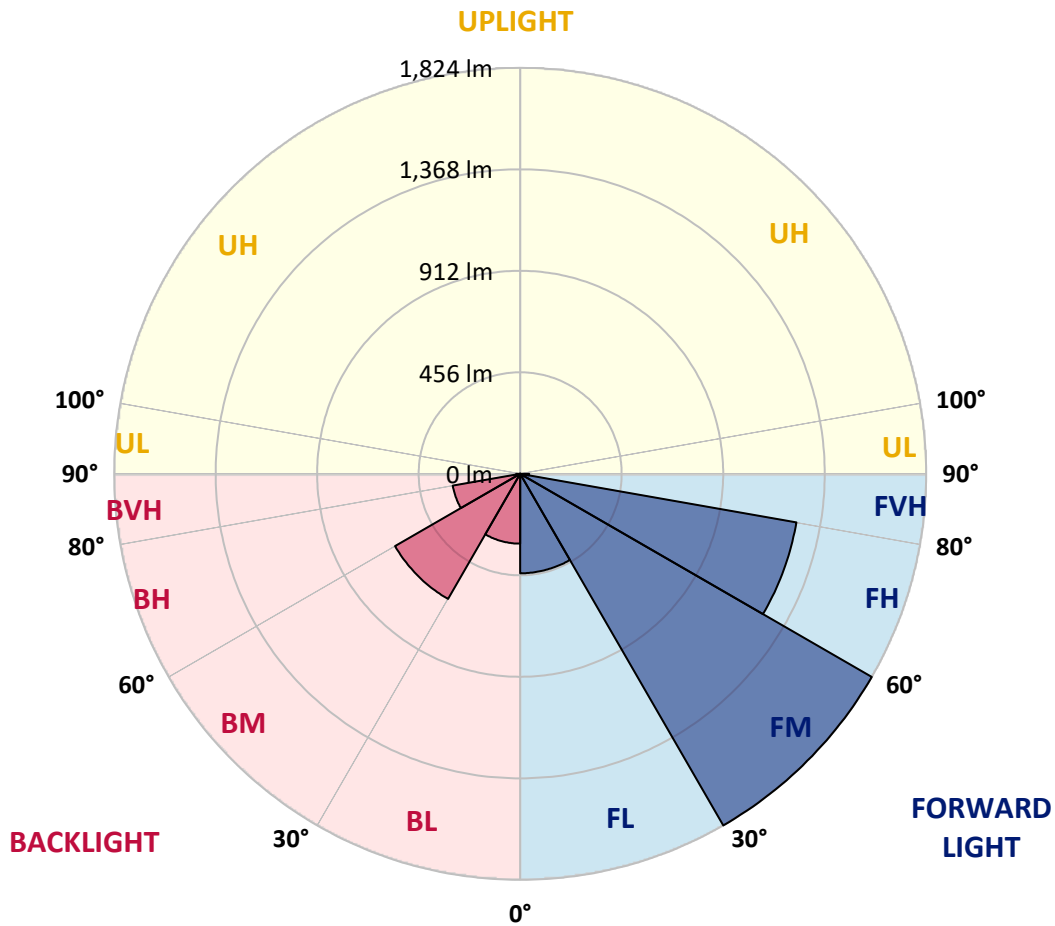


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	446.8	9.2			
FM (30°-60°)	1823.6	37.5			
FH (60°-80°)	1259.9	25.9			G1/1800
FVH (80°-90°)	40.4	0.8			G1/100
BL (0°-30°)	313.8	6.5	B1/500		
BM (30°-60°)	648.9	13.4	B1/1000		
BH (60°-80°)	307.5	6.3	B1/500		G1/500
BVH (80°-90°)	17.1	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°	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8
2.5°	909.0	907.6	906.8	904.0	897.5	900.4	893.9	889.7	888.9	878.9	873.2
5°	946.2	945.5	944.1	939.8	929.8	931.2	920.5	912.6	910.4	894.7	882.5
7.5°	977.8	976.3	975.6	969.9	959.1	958.4	945.5	934.1	930.5	909.0	890.4
10°	1002.1	1000.0	1001.4	995.7	984.2	982.1	965.6	950.5	947.0	919.7	893.9
12.5°	1022.9	1021.5	1023.6	1018.6	1009.3	1007.1	990.7	971.3	967.0	935.5	901.8
15°	1045.8	1040.8	1045.1	1042.9	1036.5	1035.8	1020.7	999.2	993.5	955.6	914.0
17.5°	1058.0	1055.1	1060.1	1060.8	1058.0	1063.0	1048.7	1022.9	1017.9	974.2	924.8
20°	1066.6	1062.3	1068.0	1072.3	1074.5	1084.5	1073.0	1048.0	1042.2	992.1	934.8
22.5°	1095.9	1086.6	1087.4	1090.2	1091.7	1106.0	1098.8	1074.5	1068.7	1014.3	947.0
25°	1169.7	1151.1	1138.9	1130.3	1120.3	1132.5	1128.2	1104.5	1099.5	1040.8	962.0
27.5°	1284.3	1260.7	1236.3	1211.3	1171.9	1166.9	1159.7	1138.2	1132.5	1067.3	977.0
30°	1414.7	1391.1	1362.4	1322.3	1248.5	1209.8	1193.4	1169.7	1163.3	1090.9	991.4
32.5°	1544.4	1523.6	1494.9	1446.2	1340.9	1262.1	1227.0	1202.7	1196.2	1116.7	1008.6
35°	1645.4	1632.5	1613.8	1553.0	1432.6	1323.7	1275.7	1246.4	1239.2	1157.6	1040.1
37.5°	1727.0	1717.7	1701.9	1638.2	1499.2	1385.3	1331.6	1297.9	1290.1	1202.0	1073.7
40°	1847.4	1823.0	1810.1	1717.7	1557.2	1441.2	1394.6	1359.5	1351.0	1249.2	1101.0
42.5°	1949.8	1931.9	1916.1	1788.6	1612.4	1489.2	1454.1	1421.9	1410.4	1295.8	1130.3
45°	1967.0	1974.1	1966.3	1823.7	1699.8	1536.5	1514.3	1493.5	1482.8	1358.8	1174.7
47.5°	1967.7	1967.7	1921.1	1843.8	1808.0	1589.5	1578.7	1585.9	1574.4	1439.1	1227.7
50°	1916.1	1925.4	1901.1	1848.8	1836.6	1642.5	1657.5	1696.2	1684.8	1524.3	1285.1
52.5°	1809.4	1840.2	1839.5	1840.9	1795.1	1687.6	1740.6	1828.7	1809.4	1620.3	1345.9
55°	1621.0	1682.6	1737.8	1785.0	1759.2	1714.8	1842.3	1969.8	1949.8	1727.7	1407.5
57.5°	1459.8	1499.2	1568.0	1701.9	1717.0	1738.5	1937.6	2117.4	2099.5	1846.6	1472.0
60°	1275.7	1330.2	1398.9	1589.5	1665.4	1769.3	2042.2	2261.4	2244.2	1967.0	1534.3
62.5°	992.8	1063.0	1200.5	1416.9	1590.2	1788.6	2124.6	2388.2	2380.3	2080.9	1590.2
65°	692.0	754.3	947.0	1204.8	1470.6	1780.0	2190.5	2501.3	2494.2	2174.0	1629.6
67.5°	404.0	476.3	694.1	969.9	1259.3	1720.6	2212.0	2568.0	2568.0	2230.6	1640.3
70°	230.7	264.3	457.7	707.0	965.6	1556.5	2151.8	2567.2	2579.4	2217.7	1595.9
72.5°	161.2	176.2	308.0	475.6	654.7	1259.3	1994.2	2443.3	2459.8	2095.9	1444.1
75°	125.4	136.1	217.0	324.5	412.6	855.3	1649.7	2060.1	2103.8	1786.5	1167.6
77.5°	95.3	103.1	126.8	202.7	264.3	491.4	1088.8	1351.0	1353.8	1093.8	626.1
80°	69.5	77.4	84.5	123.9	140.4	229.9	411.2	564.4	548.7	529.4	338.8
82.5°	41.5	49.4	51.6	67.3	68.8	98.1	144.0	181.9	174.8	232.8	159.0
85°	17.9	25.1	26.5	30.8	29.4	40.1	57.3	48.0	43.0	49.4	34.4
87.5°	4.3	7.2	7.2	7.9	6.4	10.0	10.7	7.9	7.2	8.6	8.6
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°	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8	876.8
2.5°	871.7	869.6	870.3	858.1	854.6	851.0	848.8	847.4	846.0	848.1	850.3
5°	878.2	873.2	867.4	849.5	842.4	834.5	828.8	823.8	821.6	821.6	823.8
7.5°	883.2	874.6	862.4	838.8	825.9	815.2	805.8	799.4	795.8	795.8	798.0
10°	883.9	871.7	852.4	823.8	806.6	790.8	780.1	772.9	767.9	767.9	769.3
12.5°	888.2	871.7	846.7	812.3	790.8	771.5	758.6	747.8	745.7	745.7	747.1
15°	895.4	875.3	843.1	802.3	776.5	754.3	739.9	728.5	724.2	727.1	727.8
17.5°	901.8	877.5	836.6	789.4	758.6	734.2	718.5	708.4	702.7	709.1	709.1
20°	906.1	877.5	827.3	772.9	739.2	712.0	697.0	684.8	680.5	688.4	689.1
22.5°	912.6	876.8	817.3	756.4	718.5	689.8	674.8	665.4	663.3	671.9	674.8
25°	919.7	878.2	806.6	737.8	695.5	667.6	656.1	651.8	653.3	664.0	667.6
27.5°	927.6	881.1	795.8	717.0	670.5	645.4	638.9	641.1	646.8	660.4	664.7
30°	934.8	881.8	780.8	692.7	641.8	618.2	621.0	630.3	638.9	652.6	657.6
32.5°	944.1	882.5	765.0	666.2	611.0	593.8	606.7	621.8	630.3	643.2	649.0
35°	967.0	894.7	752.8	640.4	582.4	573.0	594.5	613.9	618.9	630.3	635.4
37.5°	993.5	914.7	746.4	613.9	554.4	552.3	579.5	598.8	600.3	607.4	612.4
40°	1010.0	923.3	739.2	591.7	529.4	530.8	558.7	573.8	570.9	575.9	579.5
42.5°	1026.5	926.2	724.2	573.0	505.7	507.1	528.6	539.4	540.8	551.6	556.6
45°	1054.4	934.1	707.7	555.9	484.2	479.2	492.1	506.4	525.1	545.8	551.6
47.5°	1091.7	950.5	690.5	535.1	463.4	447.0	452.0	477.1	496.4	515.7	519.3
50°	1129.6	967.0	674.8	510.0	442.7	412.6	414.7	437.7	453.4	468.5	470.6
52.5°	1166.9	981.3	661.2	486.4	419.0	371.8	380.4	404.0	414.7	421.9	424.1
55°	1204.1	993.5	649.0	466.3	391.8	339.5	347.4	369.6	380.4	383.9	385.4
57.5°	1242.8	1007.8	639.7	449.1	361.0	310.9	315.9	331.6	341.7	346.0	344.5
60°	1275.0	1020.0	634.6	431.2	330.2	284.4	282.9	297.3	311.6	315.9	314.5
62.5°	1300.1	1027.9	626.8	408.3	303.0	257.9	250.7	269.3	284.4	287.2	289.4
65°	1313.7	1028.6	607.4	378.9	275.1	229.2	224.2	242.8	252.1	255.0	255.0
67.5°	1311.6	1017.2	569.5	339.5	249.3	203.4	199.1	210.6	224.2	226.4	224.2
70°	1267.1	969.9	508.6	298.0	218.5	180.5	172.6	184.1	197.0	189.1	185.5
72.5°	1141.1	847.4	419.0	252.1	184.1	151.9	148.3	159.7	160.5	161.9	158.3
75°	900.4	631.1	313.7	196.3	149.0	127.5	126.8	124.6	127.5	133.2	128.9
77.5°	472.8	315.2	169.8	120.3	108.2	102.4	97.4	96.7	105.3	108.9	104.6
80°	256.4	176.9	97.4	72.3	65.9	66.6	73.1	71.6	80.9	83.1	79.5
82.5°	111.7	83.8	48.0	43.7	43.7	43.0	45.1	50.1	60.2	60.2	48.0
85°	24.4	20.8	18.6	21.5	24.4	24.4	24.4	24.4	17.2	9.3	6.4
87.5°	7.9	7.9	7.9	8.6	9.3	9.3	7.9	5.7	3.6	0.7	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)