

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: P798791

Luminaire Tested: **ARCH1-30-750-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798791
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: ARCH1-30-750-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 950mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4719 lumens
Efficiency: N/A
Efficacy: 143.0 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

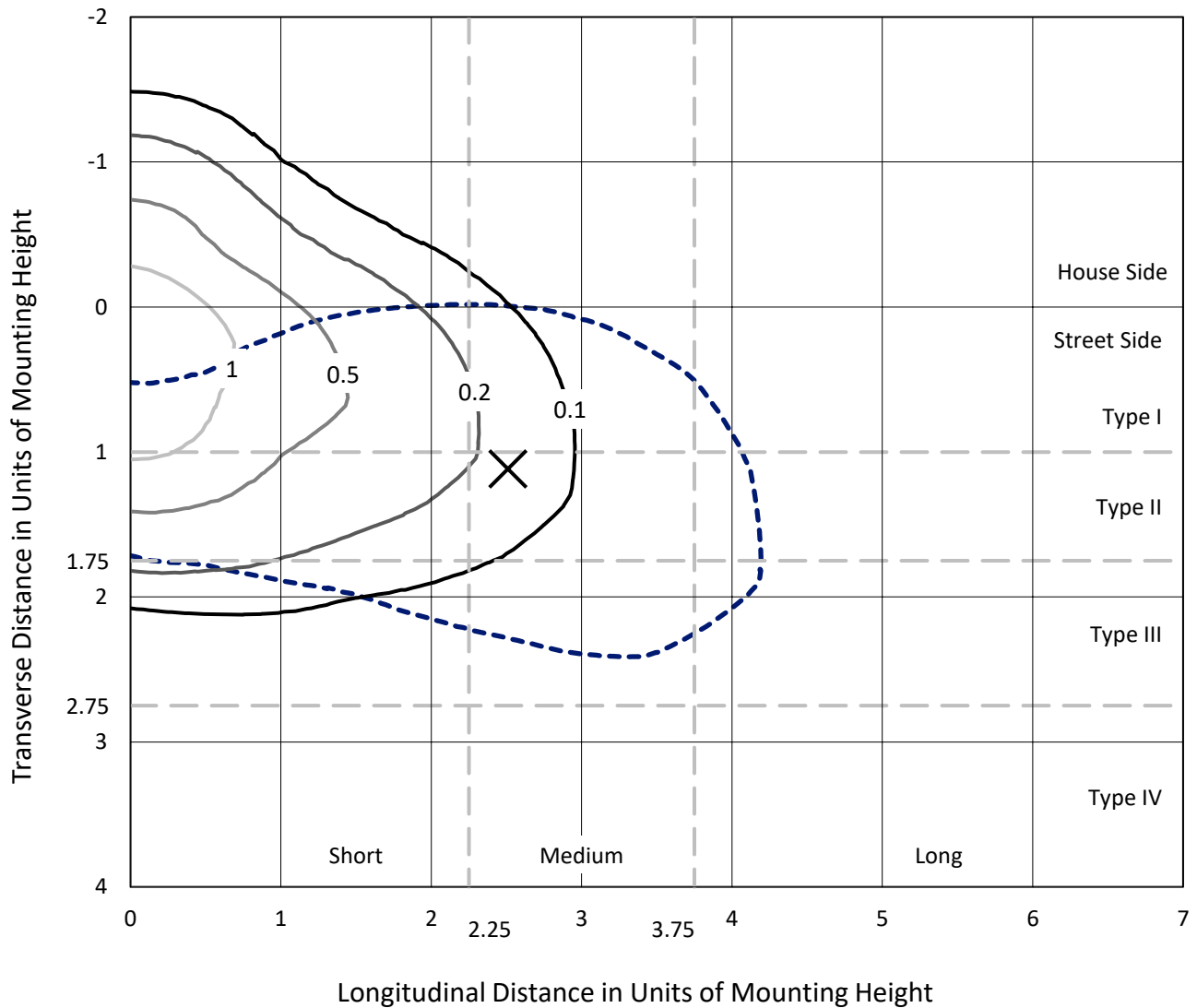
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

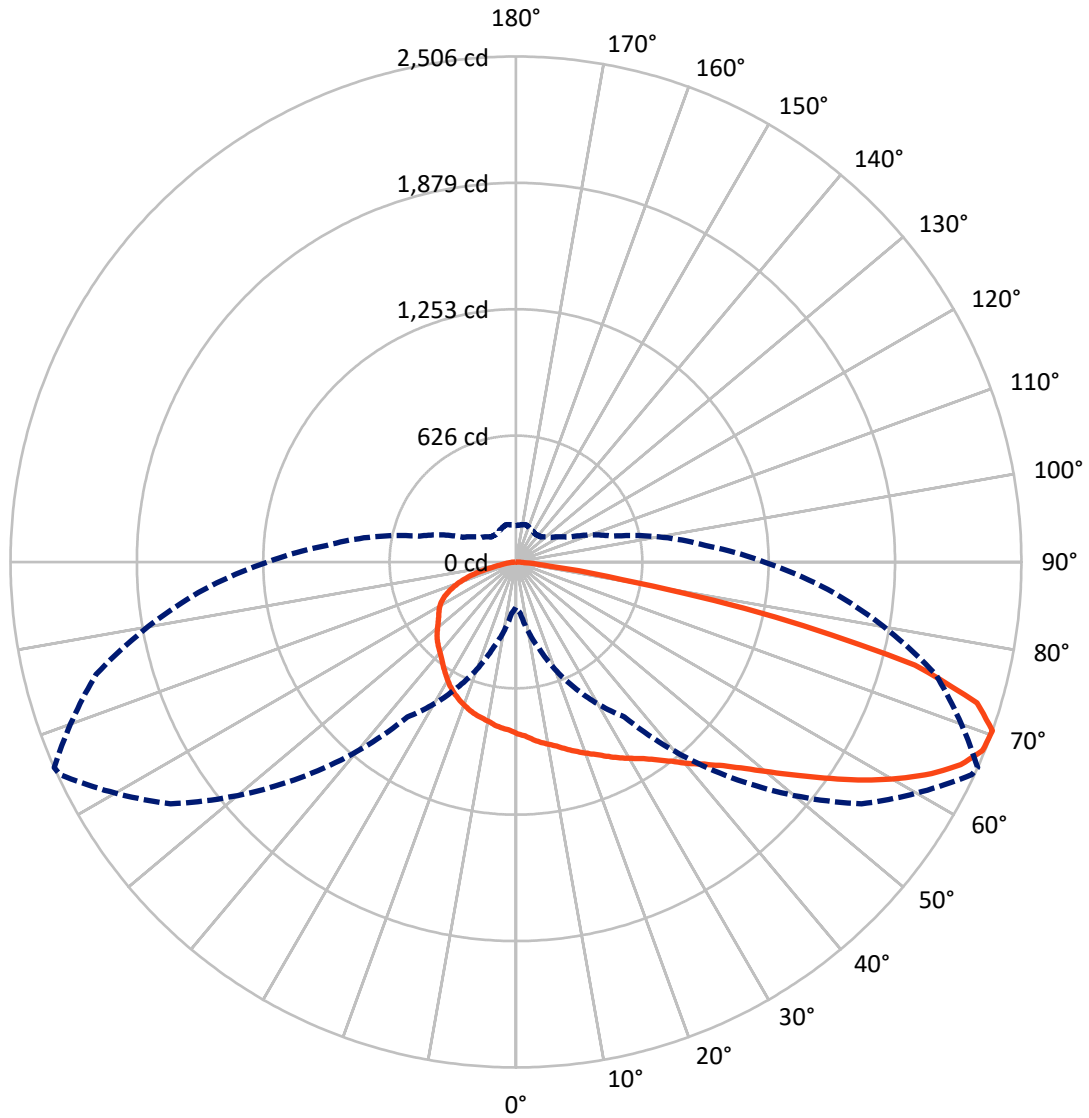
✕ Max cd
 - - - 1/2 Max cd



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	1250.4	0.0	1250.4
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	3468.6	0.0	3468.6
	% Fixture	73.5	0.0	73.5
Total	Lumens	4719.0	0.0	4719.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.7
10°-20°	245.5	5.2
20°-30°	411.5	8.7
30°-40°	616.2	13.1
40°-50°	823.8	17.5
50°-60°	961.8	20.4
60°-70°	956.4	20.3
70°-80°	566.2	12.0
80°-90°	55.8	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°	4719.0	100.0
0°-180°	4719.0	100.0

Coefficient of Utilization

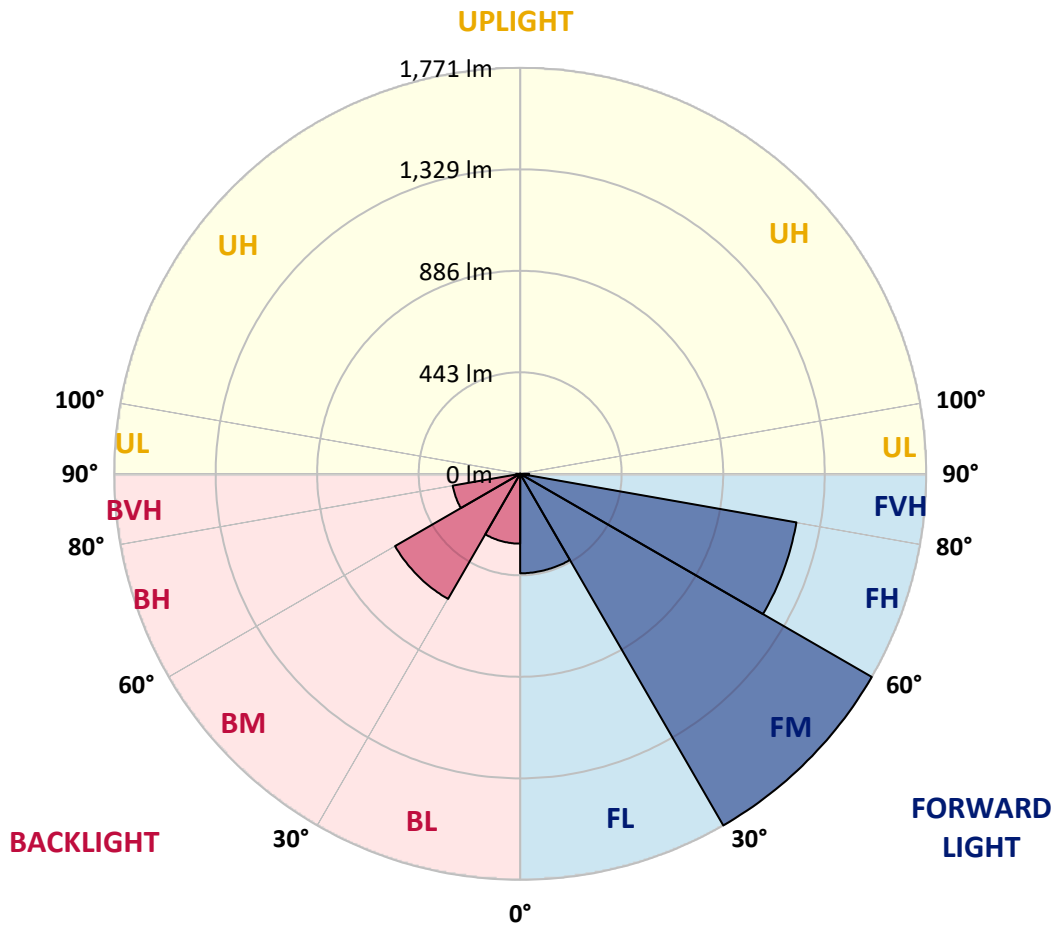


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	434.0	9.2			
FM (30°-60°)	1771.4	37.5			
FH (60°-80°)	1223.9	25.9			G1/1800
FVH (80°-90°)	39.2	0.8			G1/100
BL (0°-30°)	304.8	6.5	B1/500		
BM (30°-60°)	630.3	13.4	B1/1000		
BH (60°-80°)	298.7	6.3	B1/500		G1/500
BVH (80°-90°)	16.6	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°	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7
2.5°	883.0	881.6	880.9	878.1	871.9	874.6	868.4	864.2	863.5	853.8	848.2
5°	919.2	918.5	917.1	912.9	903.2	904.6	894.1	886.5	884.4	869.1	857.2
7.5°	949.8	948.4	947.7	942.1	931.7	931.0	918.5	907.3	903.9	883.0	864.9
10°	973.4	971.4	972.7	967.2	956.0	954.0	938.0	923.3	919.9	893.4	868.4
12.5°	993.6	992.2	994.3	989.4	980.4	978.3	962.3	943.5	939.3	908.7	876.0
15°	1015.9	1011.0	1015.2	1013.1	1006.8	1006.1	991.5	970.7	965.1	928.2	887.9
17.5°	1027.7	1024.9	1029.8	1030.5	1027.7	1032.6	1018.7	993.6	988.7	946.3	898.3
20°	1036.1	1031.9	1037.5	1041.6	1043.7	1053.5	1042.3	1018.0	1012.4	963.7	908.0
22.5°	1064.6	1055.5	1056.2	1059.0	1060.4	1074.3	1067.4	1043.7	1038.1	985.3	919.9
25°	1136.3	1118.2	1106.3	1098.0	1088.2	1100.1	1095.9	1072.9	1068.1	1011.0	934.5
27.5°	1247.6	1224.6	1201.0	1176.6	1138.3	1133.5	1126.5	1105.6	1100.1	1036.8	949.1
30°	1374.2	1351.3	1323.4	1284.5	1212.8	1175.2	1159.2	1136.3	1130.0	1059.7	963.0
32.5°	1500.2	1480.0	1452.2	1404.8	1302.6	1226.0	1191.9	1168.3	1162.0	1084.8	979.7
35°	1598.3	1585.8	1567.7	1508.5	1391.6	1285.9	1239.2	1210.7	1203.8	1124.4	1010.3
37.5°	1677.6	1668.6	1653.2	1591.3	1456.3	1345.7	1293.5	1260.8	1253.2	1167.6	1043.0
40°	1794.5	1770.8	1758.3	1668.6	1512.7	1400.0	1354.7	1320.6	1312.3	1213.5	1069.5
42.5°	1894.0	1876.6	1861.3	1737.4	1566.3	1446.6	1412.5	1381.2	1370.1	1258.7	1098.0
45°	1910.7	1917.7	1910.0	1771.5	1651.2	1492.5	1470.9	1450.8	1440.3	1320.0	1141.1
47.5°	1911.4	1911.4	1866.2	1791.0	1756.2	1544.0	1533.6	1540.5	1529.4	1397.9	1192.6
50°	1861.3	1870.3	1846.7	1795.9	1784.1	1595.5	1610.1	1647.7	1636.5	1480.7	1248.3
52.5°	1757.6	1787.5	1786.8	1788.2	1743.7	1639.3	1690.8	1776.4	1757.6	1573.9	1307.4
55°	1574.6	1634.5	1688.0	1734.0	1708.9	1665.8	1789.6	1913.5	1894.0	1678.3	1367.3
57.5°	1418.1	1456.3	1523.1	1653.2	1667.9	1688.7	1882.2	2056.8	2039.4	1793.8	1429.9
60°	1239.2	1292.1	1358.9	1544.0	1617.8	1718.7	1983.8	2196.7	2180.0	1910.7	1490.4
62.5°	964.4	1032.6	1166.2	1376.3	1544.7	1737.4	2063.8	2319.8	2312.2	2021.3	1544.7
65°	672.2	732.7	919.9	1170.4	1428.5	1729.1	2127.8	2429.8	2422.8	2111.8	1583.0
67.5°	392.4	462.7	674.2	942.1	1223.2	1671.3	2148.7	2494.5	2494.5	2166.8	1593.4
70°	224.1	256.8	444.6	686.8	938.0	1512.0	2090.2	2493.8	2505.6	2154.2	1550.3
72.5°	156.6	171.2	299.2	462.0	636.0	1223.2	1937.1	2373.4	2389.4	2035.9	1402.8
75°	121.8	132.2	210.8	315.2	400.8	830.8	1602.5	2001.2	2043.6	1735.4	1134.2
77.5°	92.5	100.2	123.2	196.9	256.8	477.3	1057.6	1312.3	1315.1	1062.5	608.1
80°	67.5	75.1	82.1	120.4	136.4	223.4	399.4	548.3	533.0	514.2	329.1
82.5°	40.4	48.0	50.1	65.4	66.8	95.3	139.9	176.7	169.8	226.1	154.5
85°	17.4	24.4	25.7	29.9	28.5	39.0	55.7	46.6	41.7	48.0	33.4
87.5°	4.2	7.0	7.0	7.7	6.3	9.7	10.4	7.7	7.0	8.3	8.3
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°	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7	851.7
2.5°	846.8	844.7	845.4	833.6	830.1	826.6	824.5	823.1	821.8	823.8	825.9
5°	853.1	848.2	842.6	825.2	818.3	810.6	805.1	800.2	798.1	798.1	800.2
7.5°	857.9	849.6	837.8	814.8	802.3	791.8	782.8	776.5	773.0	773.0	775.1
10°	858.6	846.8	828.0	800.2	783.5	768.2	757.7	750.8	745.9	745.9	747.3
12.5°	862.8	846.8	822.4	789.0	768.2	749.4	736.9	726.4	724.3	724.3	725.7
15°	869.8	850.3	819.0	779.3	754.3	732.7	718.8	707.6	703.5	706.2	706.9
17.5°	876.0	852.4	812.7	766.8	736.9	713.2	697.9	688.2	682.6	688.9	688.9
20°	880.2	852.4	803.7	750.8	718.1	691.6	677.0	665.2	661.0	668.7	669.4
22.5°	886.5	851.7	793.9	734.8	697.9	670.1	655.5	646.4	644.3	652.7	655.5
25°	893.4	853.1	783.5	716.7	675.6	648.5	637.4	633.2	634.6	645.0	648.5
27.5°	901.1	855.8	773.0	696.5	651.3	626.9	620.7	622.8	628.3	641.5	645.7
30°	908.0	856.5	758.4	672.8	623.4	600.5	603.3	612.3	620.7	633.9	638.8
32.5°	917.1	857.2	743.1	647.1	593.5	576.8	589.4	604.0	612.3	624.8	630.4
35°	939.3	869.1	731.3	622.1	565.7	556.6	577.5	596.3	601.2	612.3	617.2
37.5°	965.1	888.5	725.0	596.3	538.6	536.5	562.9	581.7	583.1	590.0	594.9
40°	981.1	896.9	718.1	574.7	514.2	515.6	542.7	557.3	554.6	559.4	562.9
42.5°	997.1	899.7	703.5	556.6	491.2	492.6	513.5	523.9	525.3	535.8	540.6
45°	1024.2	907.3	687.5	539.9	470.4	465.5	478.0	491.9	510.0	530.2	535.8
47.5°	1060.4	923.3	670.8	519.8	450.2	434.2	439.1	463.4	482.2	501.0	504.5
50°	1097.3	939.3	655.5	495.4	430.0	400.8	402.9	425.1	440.4	455.1	457.1
52.5°	1133.5	953.3	642.2	472.5	407.0	361.1	369.5	392.4	402.9	409.8	411.9
55°	1169.7	965.1	630.4	453.0	380.6	329.8	337.5	359.0	369.5	373.0	374.3
57.5°	1207.2	979.0	621.4	436.3	350.7	302.0	306.9	322.2	331.9	336.1	334.7
60°	1238.5	990.8	616.5	418.9	320.8	276.2	274.8	288.8	302.7	306.9	305.5
62.5°	1262.9	998.5	608.8	396.6	294.3	250.5	243.5	261.6	276.2	279.0	281.1
65°	1276.1	999.2	590.0	368.1	267.2	222.7	217.8	235.9	244.9	247.7	247.7
67.5°	1274.0	988.1	553.2	329.8	242.1	197.6	193.4	204.6	217.8	219.9	217.8
70°	1230.9	942.1	494.0	289.5	212.2	175.3	167.7	178.8	191.3	183.7	180.2
72.5°	1108.4	823.1	407.0	244.9	178.8	147.5	144.0	155.2	155.9	157.3	153.8
75°	874.6	613.0	304.8	190.7	144.7	123.9	123.2	121.1	123.9	129.4	125.2
77.5°	459.2	306.2	164.9	116.9	105.1	99.5	94.6	93.9	102.3	105.8	101.6
80°	249.1	171.9	94.6	70.3	64.0	64.7	71.0	69.6	78.6	80.7	77.2
82.5°	108.5	81.4	46.6	42.4	42.4	41.7	43.8	48.7	58.4	58.4	46.6
85°	23.7	20.2	18.1	20.9	23.7	23.7	23.7	23.7	16.7	9.0	6.3
87.5°	7.7	7.7	7.7	8.3	9.0	9.0	7.7	5.6	3.5	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)