

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: P798871

Luminaire Tested: **ARCH1-40-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798871
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: ARCH1-40-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5551 lumens
Efficiency: N/A
Efficacy: 129.1 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

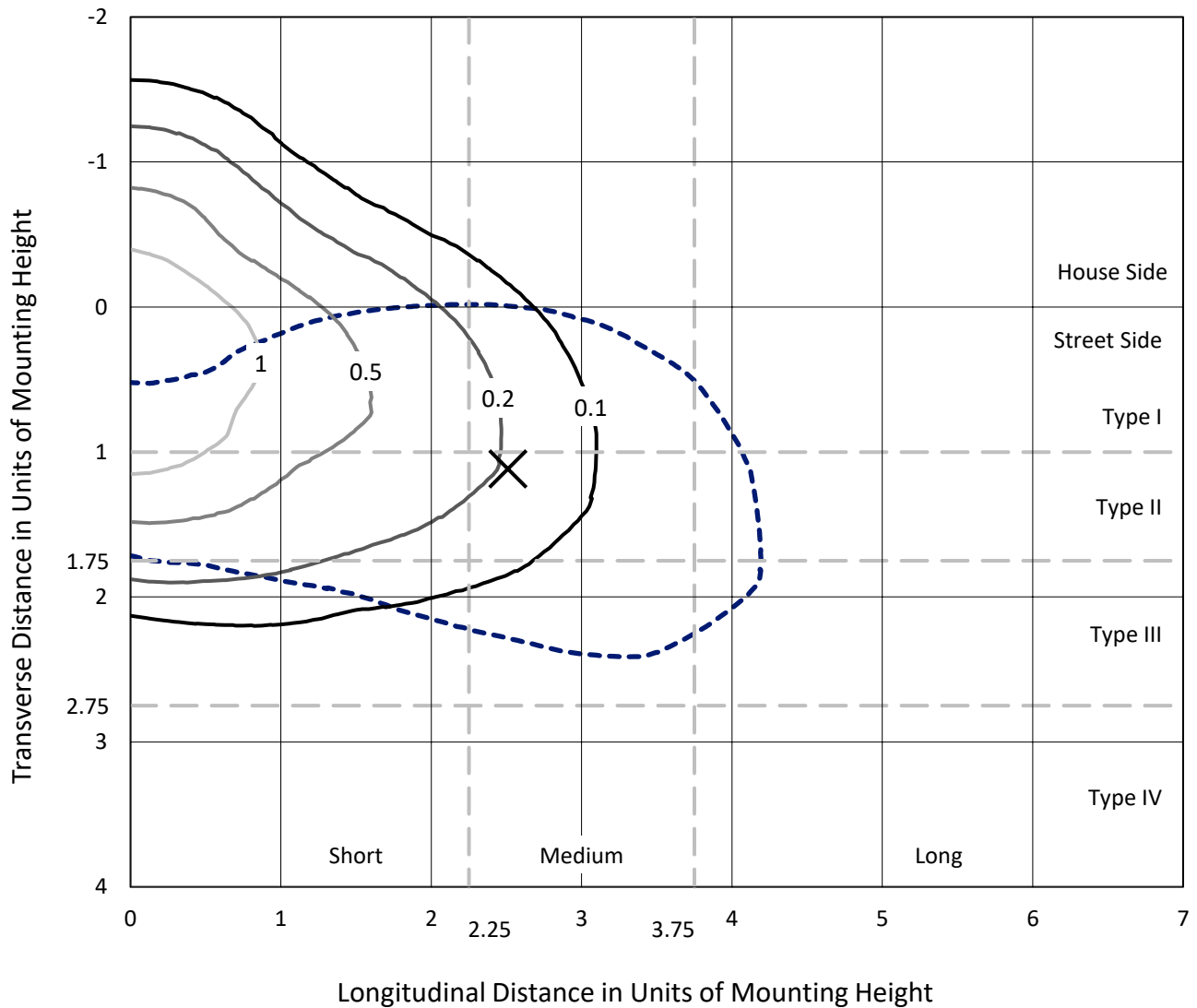
Input Watts (W): 43
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

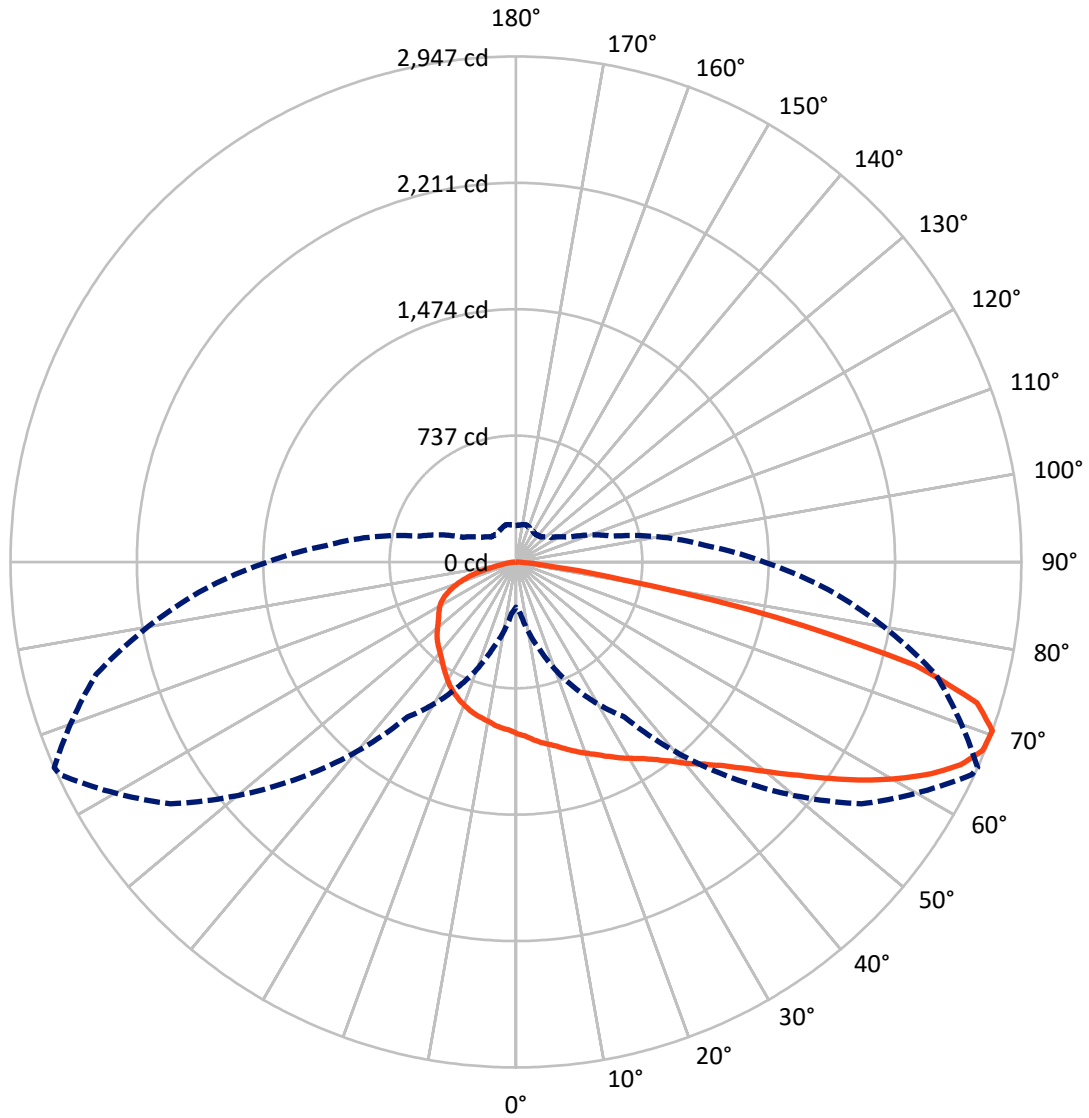
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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	1470.9	0.0	1470.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4080.1	0.0	4080.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	5551.0	0.0	5551.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.3	1.7
10°-20°	288.8	5.2
20°-30°	484.1	8.7
30°-40°	724.8	13.1
40°-50°	969.1	17.5
50°-60°	1131.4	20.4
60°-70°	1125.0	20.3
70°-80°	666.0	12.0
80°-90°	65.6	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°	5551.0	100.0
0°-180°	5551.0	100.0

Coefficient of Utilization

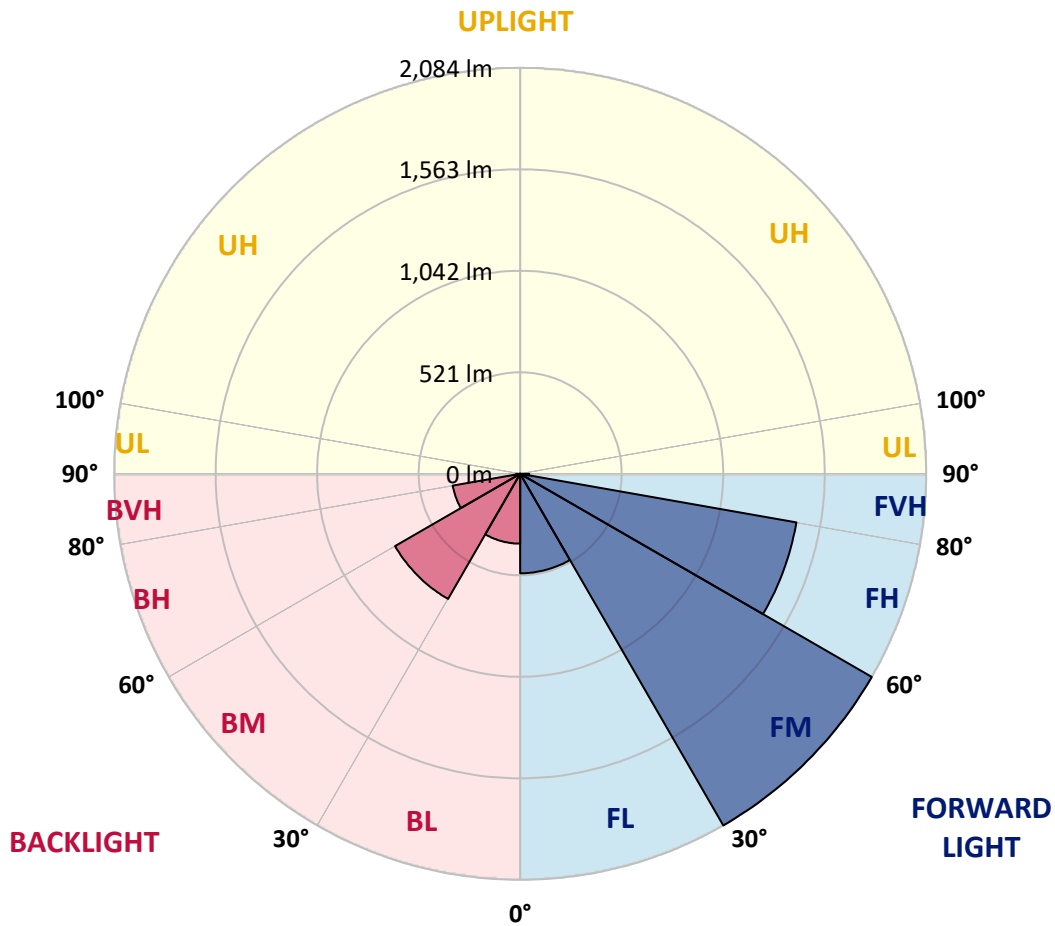


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	510.5	9.2			
FM	(30°-60°)	2083.8	37.5			
FH	(60°-80°)	1439.7	25.9			G1/1800
FVH	(80°-90°)	46.1	0.8			G1/100
BL	(0°-30°)	358.5	6.5	B1/500		
BM	(30°-60°)	741.5	13.4	B1/1000		
BH	(60°-80°)	351.4	6.3	B1/500		G1/500
BVH	(80°-90°)	19.5	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°	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1038.7	1037.0	1036.2	1032.9	1025.6	1028.8	1021.5	1016.6	1015.7	1004.3	997.7
5°	1081.2	1080.4	1078.8	1073.9	1062.4	1064.0	1051.8	1042.8	1040.3	1022.3	1008.4
7.5°	1117.2	1115.6	1114.8	1108.2	1096.0	1095.1	1080.4	1067.3	1063.2	1038.7	1017.4
10°	1145.1	1142.6	1144.2	1137.7	1124.6	1122.1	1103.3	1086.1	1082.0	1050.9	1021.5
12.5°	1168.8	1167.2	1169.6	1163.9	1153.2	1150.8	1132.0	1109.9	1105.0	1068.9	1030.5
15°	1195.0	1189.3	1194.2	1191.7	1184.4	1183.5	1166.3	1141.8	1135.2	1091.9	1044.4
17.5°	1208.9	1205.6	1211.4	1212.2	1208.9	1214.6	1198.3	1168.8	1163.1	1113.1	1056.7
20°	1218.7	1213.8	1220.4	1225.3	1227.7	1239.2	1226.1	1197.4	1190.9	1133.6	1068.1
22.5°	1252.3	1241.6	1242.5	1245.7	1247.4	1263.7	1255.6	1227.7	1221.2	1159.0	1082.0
25°	1336.6	1315.3	1301.4	1291.6	1280.1	1294.0	1289.1	1262.1	1256.4	1189.3	1099.2
27.5°	1467.5	1440.5	1412.7	1384.1	1339.0	1333.3	1325.1	1300.6	1294.0	1219.5	1116.4
30°	1616.5	1589.5	1556.8	1510.9	1426.6	1382.4	1363.6	1336.6	1329.2	1246.6	1132.8
32.5°	1764.7	1740.9	1708.2	1652.5	1532.2	1442.2	1402.1	1374.2	1366.9	1276.0	1152.4
35°	1880.1	1865.3	1844.1	1774.5	1637.0	1512.6	1457.7	1424.2	1416.0	1322.7	1188.4
37.5°	1973.4	1962.7	1944.7	1871.9	1713.1	1583.0	1521.6	1483.1	1474.1	1373.4	1226.9
40°	2110.9	2083.1	2068.3	1962.7	1779.4	1646.8	1593.6	1553.5	1543.7	1427.4	1258.0
42.5°	2227.9	2207.5	2189.5	2043.8	1842.4	1701.6	1661.5	1624.7	1611.6	1480.6	1291.6
45°	2247.6	2255.8	2246.7	2083.9	1942.3	1755.7	1730.3	1706.5	1694.3	1552.7	1342.3
47.5°	2248.4	2248.4	2195.2	2106.8	2065.9	1816.2	1803.9	1812.1	1799.0	1644.3	1402.9
50°	2189.5	2200.1	2172.3	2112.5	2098.6	1876.8	1894.0	1938.2	1925.1	1741.7	1468.4
52.5°	2067.5	2102.7	2101.9	2103.5	2051.1	1928.4	1988.9	2089.6	2067.5	1851.4	1537.9
55°	1852.2	1922.6	1985.7	2039.7	2010.2	1959.5	2105.2	2250.8	2227.9	1974.2	1608.3
57.5°	1668.1	1713.1	1791.7	1944.7	1961.9	1986.5	2214.0	2419.4	2399.0	2110.1	1682.0
60°	1457.7	1519.9	1598.5	1816.2	1903.0	2021.7	2333.5	2584.0	2564.3	2247.6	1753.2
62.5°	1134.4	1214.6	1371.8	1619.0	1817.0	2043.8	2427.6	2728.8	2719.8	2377.7	1817.0
65°	790.7	861.9	1082.0	1376.7	1680.4	2033.9	2502.9	2858.2	2850.0	2484.1	1862.1
67.5°	461.6	544.3	793.1	1108.2	1438.9	1966.0	2527.5	2934.3	2934.3	2548.8	1874.3
70°	263.6	302.0	523.0	807.8	1103.3	1778.6	2458.7	2933.5	2947.4	2534.0	1823.6
72.5°	184.2	201.3	351.9	543.5	748.1	1438.9	2278.7	2791.9	2810.7	2394.9	1650.1
75°	143.2	155.5	248.0	370.8	471.4	977.3	1885.0	2354.0	2403.9	2041.3	1334.1
77.5°	108.9	117.9	144.9	231.6	302.0	561.5	1244.1	1543.7	1546.9	1249.8	715.4
80°	79.4	88.4	96.6	141.6	160.4	262.7	469.8	645.0	627.0	604.9	387.1
82.5°	47.5	56.5	58.9	76.9	78.6	112.1	164.5	207.9	199.7	266.0	181.7
85°	20.5	28.6	30.3	35.2	33.6	45.8	65.5	54.8	49.1	56.5	39.3
87.5°	4.9	8.2	8.2	9.0	7.4	11.5	12.3	9.0	8.2	9.8	9.8
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°	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	996.1	993.6	994.5	980.5	976.5	972.4	969.9	968.3	966.6	969.1	971.5
5°	1003.5	997.7	991.2	970.7	962.5	953.5	947.0	941.3	938.8	938.8	941.3
7.5°	1009.2	999.4	985.5	958.4	943.7	931.4	920.8	913.4	909.3	909.3	911.8
10°	1010.0	996.1	974.0	941.3	921.6	903.6	891.3	883.1	877.4	877.4	879.1
12.5°	1014.9	996.1	967.5	928.2	903.6	881.5	866.8	854.5	852.0	852.0	853.7
15°	1023.1	1000.2	963.4	916.7	887.2	861.9	845.5	832.4	827.5	830.8	831.6
17.5°	1030.5	1002.6	956.0	902.0	866.8	839.0	820.9	809.5	802.9	810.3	810.3
20°	1035.4	1002.6	945.4	883.1	844.7	813.6	796.4	782.5	777.6	786.6	787.4
22.5°	1042.8	1001.8	933.9	864.3	820.9	788.2	771.0	760.4	757.9	767.7	771.0
25°	1050.9	1003.5	921.6	843.0	794.8	762.8	749.7	744.8	746.5	758.7	762.8
27.5°	1059.9	1006.7	909.3	819.3	766.1	737.5	730.1	732.5	739.1	754.6	759.6
30°	1068.1	1007.6	892.2	791.5	733.4	706.4	709.6	720.3	730.1	745.6	751.4
32.5°	1078.8	1008.4	874.1	761.2	698.2	678.5	693.3	710.4	720.3	735.0	741.5
35°	1105.0	1022.3	860.2	731.7	665.4	654.8	679.3	701.4	707.2	720.3	726.0
37.5°	1135.2	1045.2	852.9	701.4	633.5	631.1	662.2	684.3	685.9	694.1	699.8
40°	1154.1	1055.0	844.7	676.1	604.9	606.5	638.4	655.6	652.3	658.1	662.2
42.5°	1172.9	1058.3	827.5	654.8	577.9	579.5	604.0	616.3	618.0	630.2	636.0
45°	1204.8	1067.3	808.7	635.1	553.3	547.6	562.3	578.7	600.0	623.7	630.2
47.5°	1247.4	1086.1	789.0	611.4	529.6	510.7	516.5	545.1	567.2	589.3	593.4
50°	1290.8	1105.0	771.0	582.8	505.8	471.4	473.9	500.1	518.1	535.3	537.7
52.5°	1333.3	1121.3	755.5	555.8	478.8	424.8	434.6	461.6	473.9	482.1	484.5
55°	1375.9	1135.2	741.5	532.8	447.7	388.0	397.0	422.3	434.6	438.7	440.3
57.5°	1420.1	1151.6	730.9	513.2	412.5	355.2	361.0	379.0	390.4	395.3	393.7
60°	1456.9	1165.5	725.2	492.7	377.3	324.9	323.3	339.7	356.0	361.0	359.3
62.5°	1485.6	1174.5	716.2	466.5	346.2	294.7	286.5	307.8	324.9	328.2	330.7
65°	1501.1	1175.3	694.1	433.0	314.3	261.9	256.2	277.5	288.1	291.4	291.4
67.5°	1498.7	1162.3	650.7	388.0	284.8	232.5	227.5	240.6	256.2	258.6	256.2
70°	1447.9	1108.2	581.1	340.5	249.6	206.3	197.3	210.4	225.1	216.1	212.0
72.5°	1303.9	968.3	478.8	288.1	210.4	173.5	169.4	182.5	183.3	185.0	180.9
75°	1028.8	721.1	358.5	224.3	170.2	145.7	144.9	142.4	145.7	152.2	147.3
77.5°	540.2	360.1	194.0	137.5	123.6	117.0	111.3	110.5	120.3	124.4	119.5
80°	293.0	202.2	111.3	82.7	75.3	76.1	83.5	81.8	92.5	94.9	90.9
82.5°	127.7	95.8	54.8	49.9	49.9	49.1	51.6	57.3	68.8	68.8	54.8
85°	27.8	23.7	21.3	24.6	27.8	27.8	27.8	27.8	19.6	10.6	7.4
87.5°	9.0	9.0	9.0	9.8	10.6	10.6	9.0	6.5	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)