

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: P799511

Luminaire Tested: **ARCH2-30-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799511
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: ARCH2-30-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 260mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5107 lumens
Efficiency: N/A
Efficacy: 148.5 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

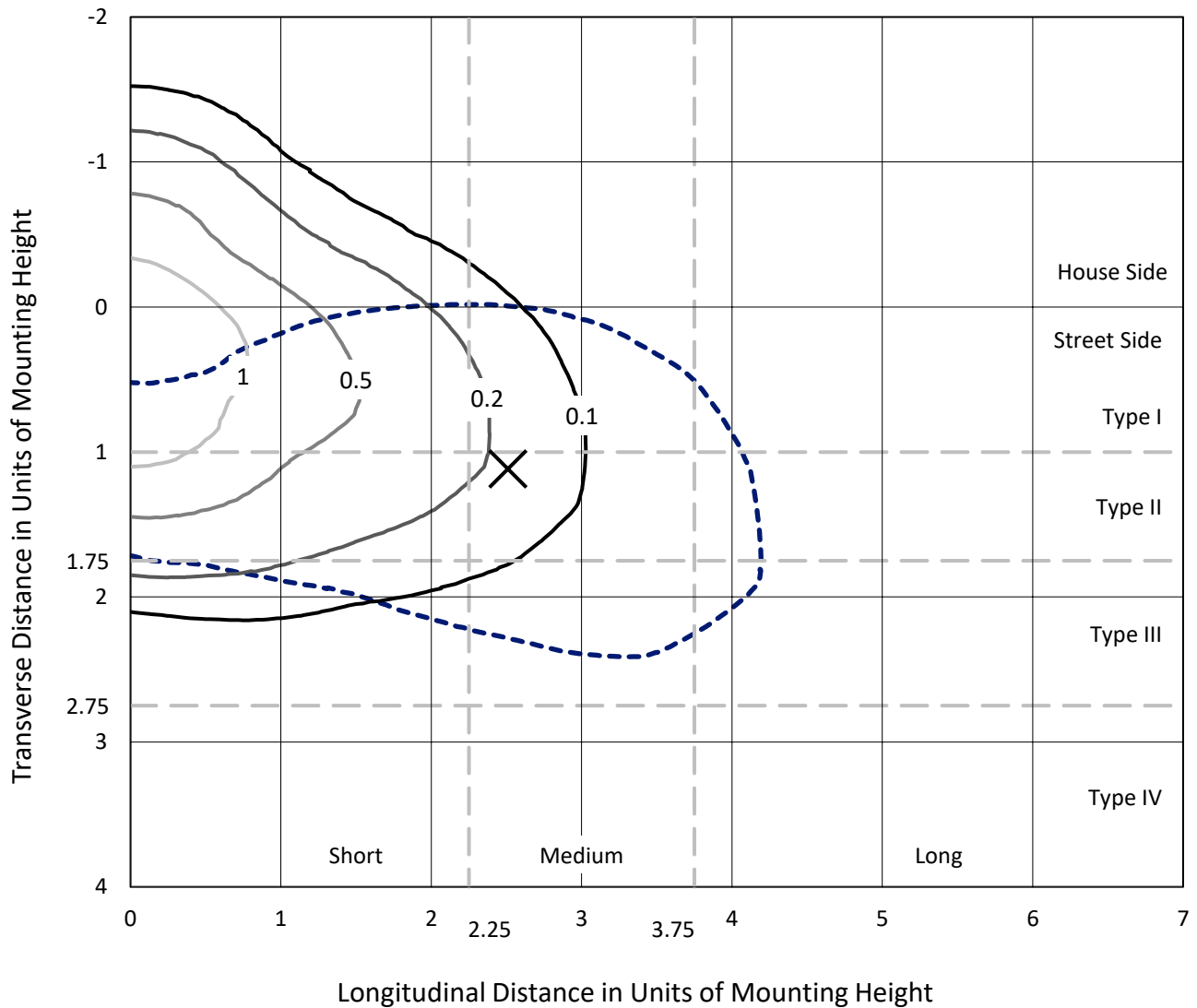
Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

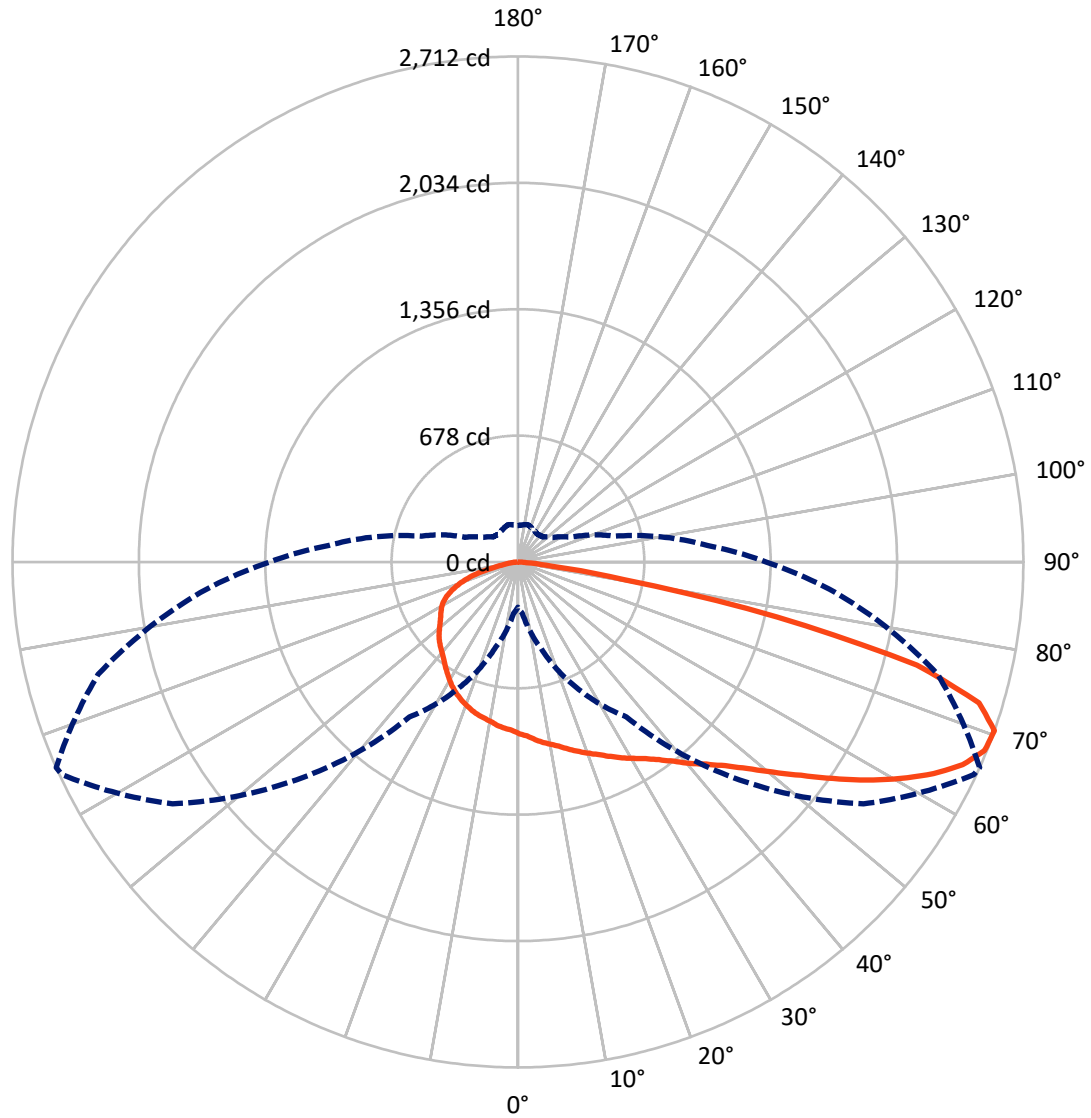
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	1353.2	0.0	1353.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	3753.8	0.0	3753.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	5107.0	0.0	5107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	1.7
10°-20°	265.7	5.2
20°-30°	445.3	8.7
30°-40°	666.8	13.1
40°-50°	891.5	17.5
50°-60°	1040.9	20.4
60°-70°	1035.0	20.3
70°-80°	612.7	12.0
80°-90°	60.4	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°	5107.0	100.0
0°-180°	5107.0	100.0

Coefficient of Utilization

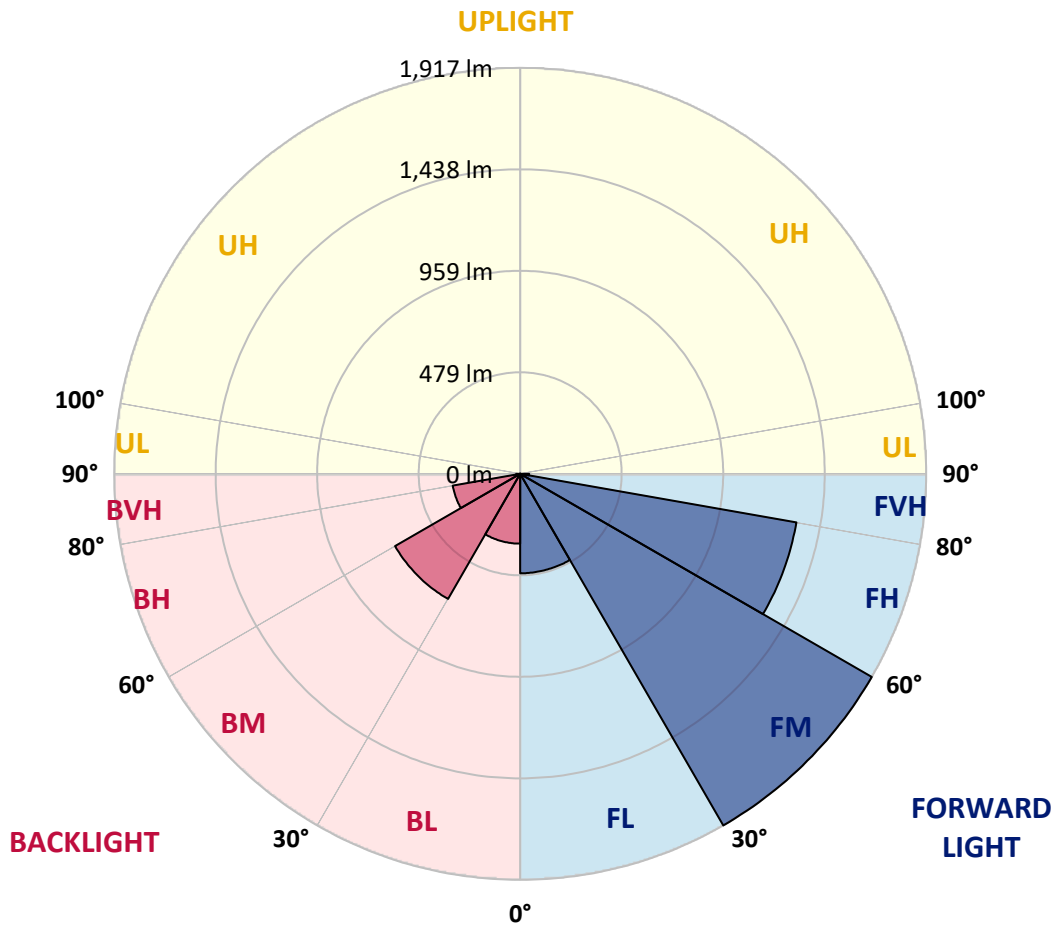


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.7	9.2			
FM (30°-60°)	1917.1	37.5			
FH (60°-80°)	1324.5	25.9			G1/1800
FVH (80°-90°)	42.4	0.8			G1/100
BL (0°-30°)	329.9	6.5	B1/500		
BM (30°-60°)	682.2	13.4	B1/1000		
BH (60°-80°)	323.3	6.3	B1/500		G1/500
BVH (80°-90°)	18.0	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°	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7
2.5°	955.6	954.1	953.3	950.3	943.5	946.5	939.8	935.3	934.5	924.0	917.9
5°	994.7	994.0	992.5	988.0	977.4	978.9	967.6	959.3	957.1	940.5	927.7
7.5°	1027.9	1026.4	1025.6	1019.6	1008.3	1007.5	994.0	981.9	978.2	955.6	936.0
10°	1053.5	1051.2	1052.7	1046.7	1034.7	1032.4	1015.1	999.3	995.5	966.9	939.8
12.5°	1075.3	1073.8	1076.1	1070.8	1061.0	1058.7	1041.4	1021.1	1016.6	983.4	948.1
15°	1099.4	1094.1	1098.7	1096.4	1089.6	1088.9	1073.1	1050.5	1044.4	1004.5	960.9
17.5°	1112.2	1109.2	1114.5	1115.2	1112.2	1117.5	1102.4	1075.3	1070.0	1024.1	972.1
20°	1121.2	1116.7	1122.8	1127.3	1129.5	1140.1	1128.0	1101.7	1095.6	1042.9	982.7
22.5°	1152.1	1142.3	1143.1	1146.1	1147.6	1162.7	1155.1	1129.5	1123.5	1066.3	995.5
25°	1229.7	1210.1	1197.3	1188.3	1177.7	1190.5	1186.0	1161.2	1155.9	1094.1	1011.3
27.5°	1350.2	1325.3	1299.7	1273.4	1231.9	1226.7	1219.1	1196.5	1190.5	1122.0	1027.1
30°	1487.2	1462.4	1432.2	1390.1	1312.5	1271.9	1254.5	1229.7	1222.9	1146.9	1042.2
32.5°	1623.5	1601.7	1571.6	1520.3	1409.7	1326.8	1289.9	1264.3	1257.5	1174.0	1060.3
35°	1729.7	1716.1	1696.6	1632.5	1506.0	1391.6	1341.1	1310.3	1302.7	1216.9	1093.4
37.5°	1815.5	1805.7	1789.2	1722.2	1576.1	1456.3	1399.9	1364.5	1356.2	1263.6	1128.8
40°	1942.0	1916.4	1902.9	1805.7	1637.1	1515.1	1466.1	1429.2	1420.2	1313.3	1157.4
42.5°	2049.7	2030.9	2014.3	1880.3	1695.0	1565.5	1528.6	1494.7	1482.7	1362.2	1188.3
45°	2067.8	2075.3	2067.0	1917.2	1786.9	1615.2	1591.9	1570.0	1558.8	1428.5	1235.0
47.5°	2068.5	2068.5	2019.6	1938.3	1900.6	1671.0	1659.7	1667.2	1655.1	1512.8	1290.7
50°	2014.3	2024.1	1998.5	1943.5	1930.7	1726.7	1742.5	1783.2	1771.1	1602.4	1350.9
52.5°	1902.1	1934.5	1933.8	1935.3	1887.1	1774.1	1829.8	1922.5	1902.1	1703.3	1414.9
55°	1704.1	1768.8	1826.8	1876.5	1849.4	1802.7	1936.8	2070.8	2049.7	1816.3	1479.7
57.5°	1534.7	1576.1	1648.4	1789.2	1805.0	1827.6	2036.9	2225.9	2207.1	1941.3	1547.5
60°	1341.1	1398.4	1470.6	1671.0	1750.8	1860.0	2146.9	2377.3	2359.2	2067.8	1613.0
62.5°	1043.7	1117.5	1262.1	1489.5	1671.7	1880.3	2233.5	2510.6	2502.3	2187.5	1671.7
65°	727.4	792.9	995.5	1266.6	1546.0	1871.3	2302.7	2629.5	2622.0	2285.4	1713.1
67.5°	424.7	500.8	729.7	1019.6	1323.8	1808.8	2325.3	2699.6	2699.6	2344.9	1724.4
70°	242.5	277.9	481.2	743.2	1015.1	1636.3	2262.1	2698.8	2711.6	2331.4	1677.7
72.5°	169.4	185.2	323.8	500.0	688.3	1323.8	2096.4	2568.6	2585.9	2203.3	1518.1
75°	131.8	143.1	228.2	341.1	433.7	899.1	1734.2	2165.7	2211.6	1878.0	1227.4
77.5°	100.2	108.4	133.3	213.1	277.9	516.6	1144.6	1420.2	1423.2	1149.9	658.1
80°	73.0	81.3	88.9	130.3	147.6	241.7	432.2	593.4	576.8	556.5	356.2
82.5°	43.7	52.0	54.2	70.8	72.3	103.2	151.4	191.3	183.7	244.7	167.2
85°	18.8	26.4	27.9	32.4	30.9	42.2	60.2	50.5	45.2	52.0	36.1
87.5°	4.5	7.5	7.5	8.3	6.8	10.5	11.3	8.3	7.5	9.0	9.0
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°	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7	921.7
2.5°	916.4	914.2	914.9	902.1	898.4	894.6	892.3	890.8	889.3	891.6	893.8
5°	923.2	917.9	911.9	893.1	885.6	877.3	871.2	866.0	863.7	863.7	866.0
7.5°	928.5	919.4	906.6	881.8	868.2	856.9	847.1	840.4	836.6	836.6	838.9
10°	929.2	916.4	896.1	866.0	847.9	831.3	820.0	812.5	807.2	807.2	808.7
12.5°	933.7	916.4	890.1	853.9	831.3	811.0	797.4	786.2	783.9	783.9	785.4
15°	941.3	920.2	886.3	843.4	816.3	792.9	777.9	765.8	761.3	764.3	765.1
17.5°	948.1	922.5	879.5	829.8	797.4	771.8	755.3	744.7	738.7	745.5	745.5
20°	952.6	922.5	869.7	812.5	777.1	748.5	732.7	719.9	715.4	723.7	724.4
22.5°	959.3	921.7	859.2	795.2	755.3	725.2	709.3	699.6	697.3	706.3	709.3
25°	966.9	923.2	847.9	775.6	731.2	701.8	689.8	685.2	686.8	698.1	701.8
27.5°	975.2	926.2	836.6	753.8	704.8	678.5	671.7	674.0	680.0	694.3	698.8
30°	982.7	927.0	820.8	728.2	674.7	649.9	652.9	662.7	671.7	686.0	691.3
32.5°	992.5	927.7	804.2	700.3	642.3	624.3	637.8	653.6	662.7	676.2	682.2
35°	1016.6	940.5	791.4	673.2	612.2	602.4	625.0	645.3	650.6	662.7	667.9
37.5°	1044.4	961.6	784.6	645.3	582.8	580.6	609.2	629.5	631.0	638.6	643.8
40°	1061.8	970.6	777.1	622.0	556.5	558.0	587.4	603.2	600.2	605.4	609.2
42.5°	1079.1	973.7	761.3	602.4	531.6	533.1	555.7	567.0	568.5	579.8	585.1
45°	1108.4	981.9	744.0	584.3	509.0	503.8	517.3	532.4	552.0	573.8	579.8
47.5°	1147.6	999.3	725.9	562.5	487.2	469.9	475.2	501.5	521.8	542.2	545.9
50°	1187.5	1016.6	709.3	536.2	465.4	433.7	436.0	460.1	476.7	492.5	494.7
52.5°	1226.7	1031.6	695.0	511.3	440.5	390.8	399.9	424.7	436.0	443.5	445.8
55°	1265.8	1044.4	682.2	490.2	411.9	356.9	365.2	388.6	399.9	403.6	405.1
57.5°	1306.5	1059.5	672.4	472.1	379.5	326.8	332.1	348.6	359.2	363.7	362.2
60°	1340.4	1072.3	667.2	453.3	347.1	298.9	297.4	312.5	327.6	332.1	330.6
62.5°	1366.7	1080.6	658.9	429.2	318.5	271.1	263.6	283.1	298.9	302.0	304.2
65°	1381.0	1081.3	638.6	398.3	289.2	241.0	235.7	255.3	265.1	268.1	268.1
67.5°	1378.8	1069.3	598.7	356.9	262.1	213.9	209.3	221.4	235.7	238.0	235.7
70°	1332.1	1019.6	534.6	313.3	229.7	189.8	181.5	193.5	207.1	198.8	195.0
72.5°	1199.6	890.8	440.5	265.1	193.5	159.6	155.9	167.9	168.7	170.2	166.4
75°	946.5	663.4	329.8	206.3	156.6	134.0	133.3	131.0	134.0	140.1	135.5
77.5°	497.0	331.3	178.5	126.5	113.7	107.7	102.4	101.7	110.7	114.5	109.9
80°	269.6	186.0	102.4	76.1	69.3	70.0	76.8	75.3	85.1	87.4	83.6
82.5°	117.5	88.1	50.5	45.9	45.9	45.2	47.4	52.7	63.3	63.3	50.5
85°	25.6	21.8	19.6	22.6	25.6	25.6	25.6	25.6	18.1	9.8	6.8
87.5°	8.3	8.3	8.3	9.0	9.8	9.8	8.3	6.0	3.8	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)