

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: P799639

Luminaire Tested: **ARCH2-40-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799639
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: ARCH2-40-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6433 lumens
Efficiency: N/A
Efficacy: 145.9 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

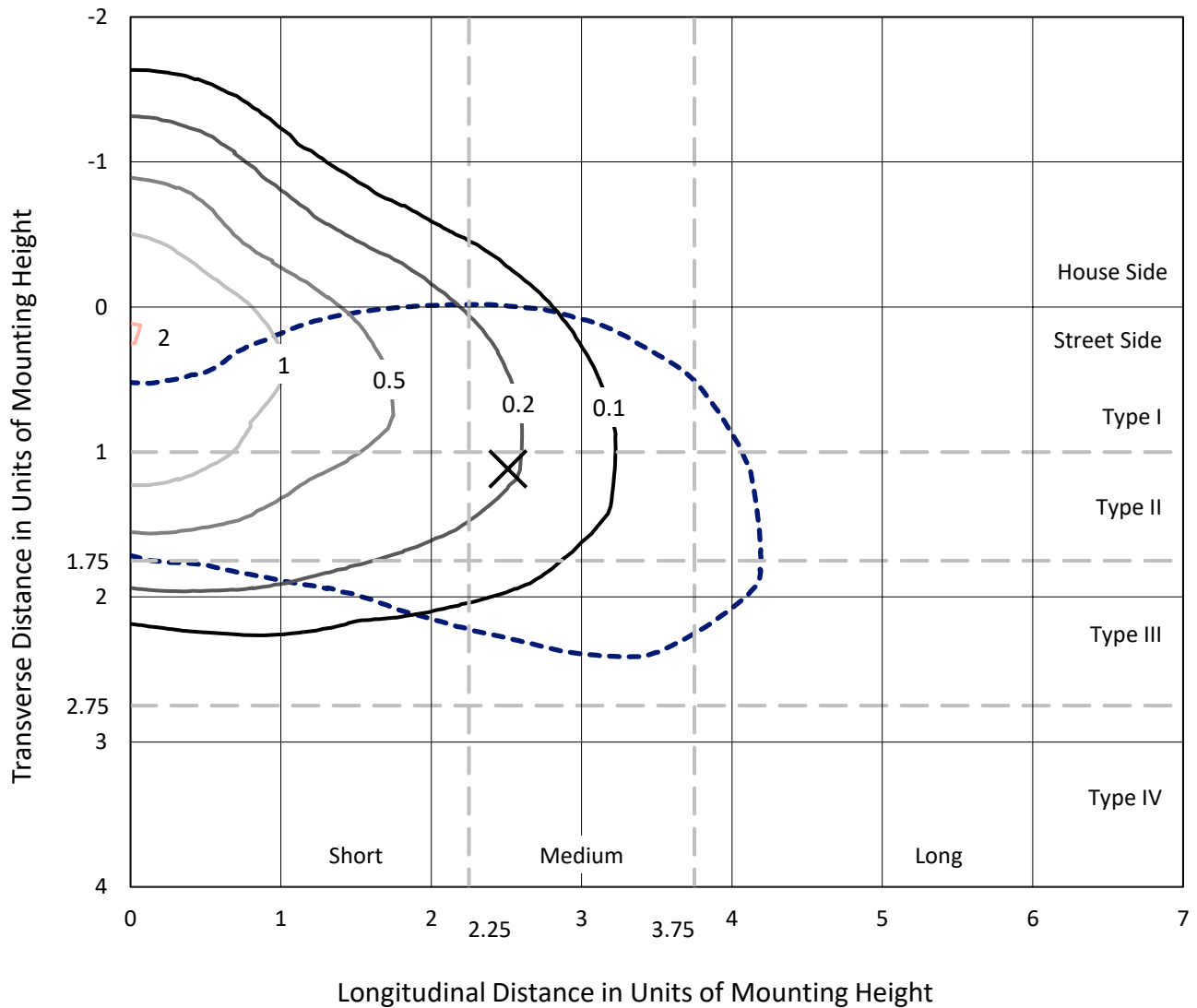
Input Watts (W): 44.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

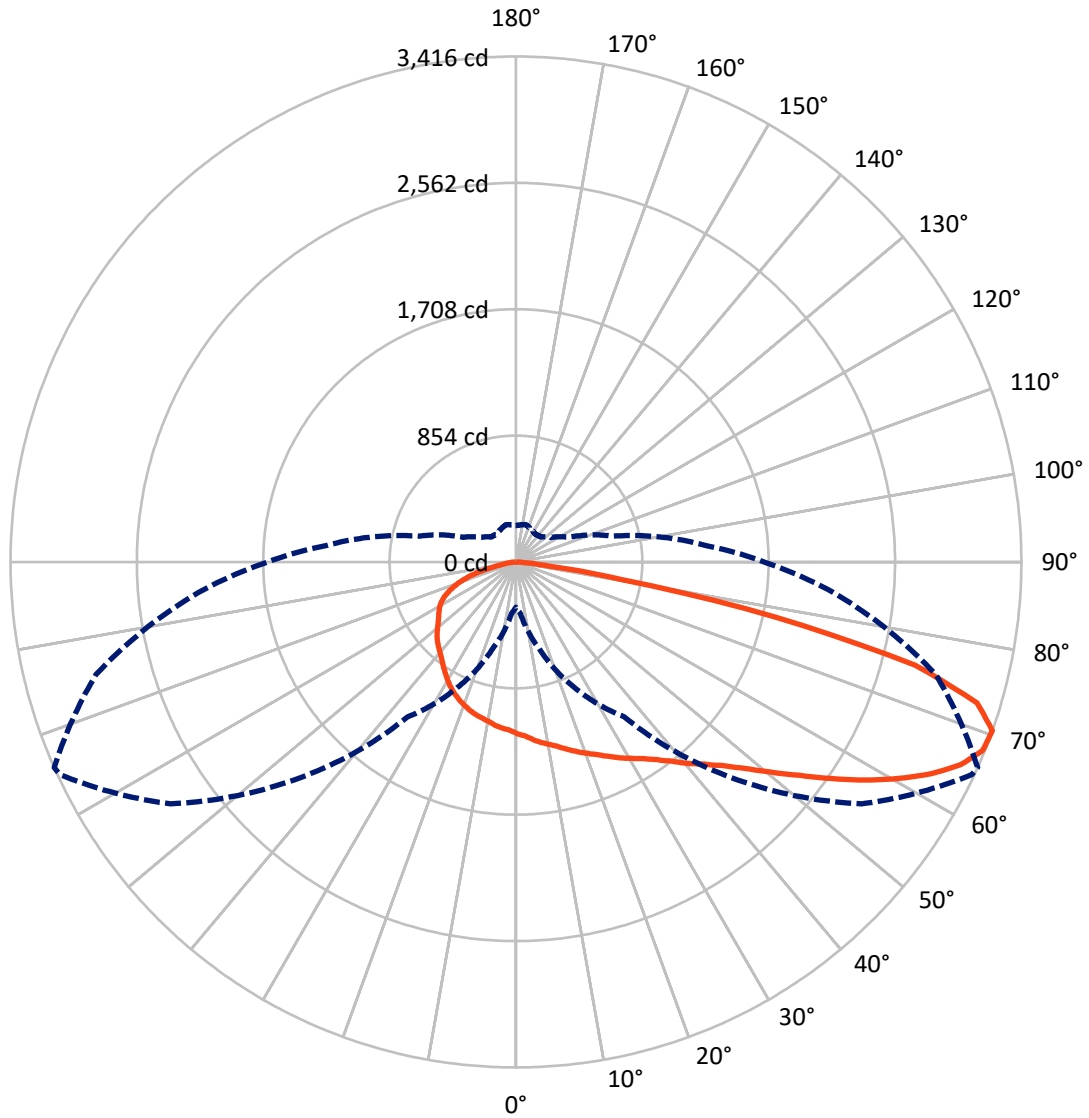
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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	1704.6	0.0	1704.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	4728.4	0.0	4728.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	6433.0	0.0	6433.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	1.7
10°-20°	334.6	5.2
20°-30°	561.0	8.7
30°-40°	840.0	13.1
40°-50°	1123.0	17.5
50°-60°	1311.2	20.4
60°-70°	1303.8	20.3
70°-80°	771.8	12.0
80°-90°	76.1	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°	6433.0	100.0
0°-180°	6433.0	100.0

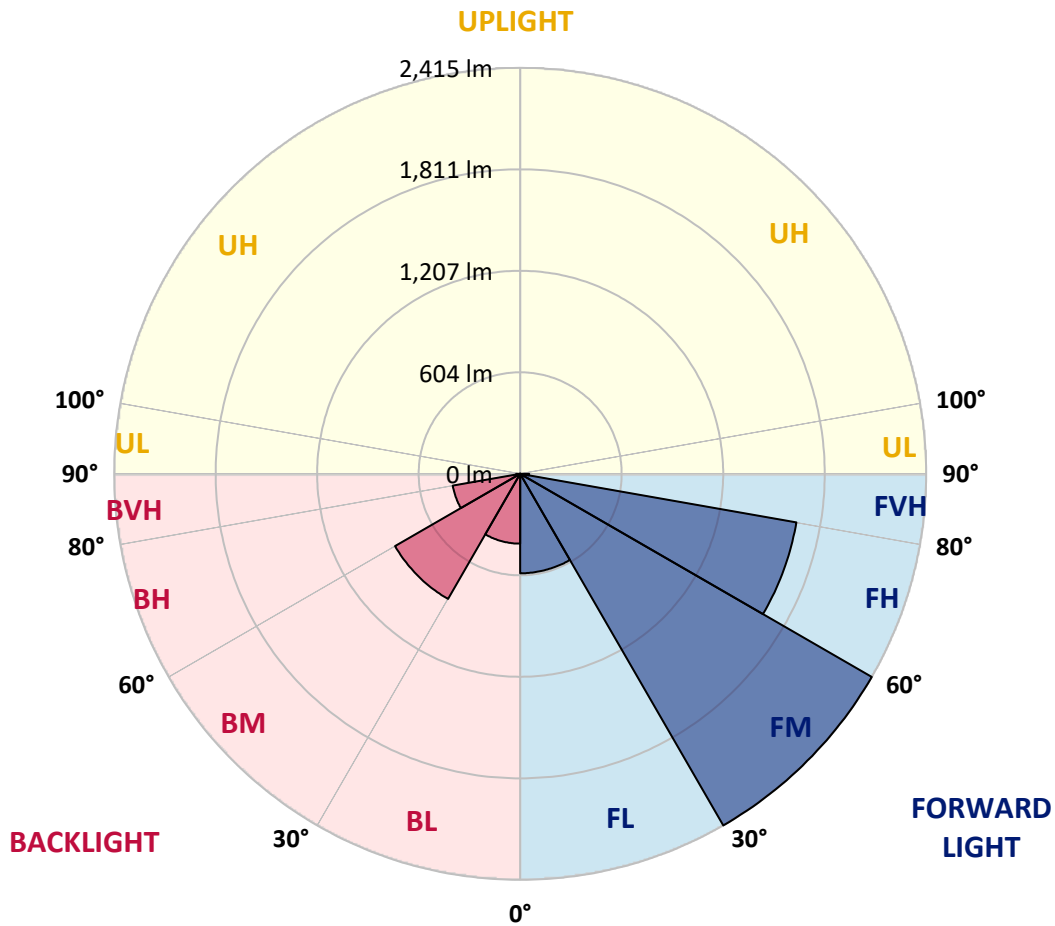


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.7	9.2			
FM (30°-60°)	2414.9	37.5			
FH (60°-80°)	1668.4	25.9			G1/1800
FVH (80°-90°)	53.5	0.8			G1/100
BL (0°-30°)	415.5	6.5	B1/500		
BM (30°-60°)	859.3	13.4	B1/1000		
BH (60°-80°)	407.2	6.3	B1/500		G1/500
BVH (80°-90°)	22.6	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°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	1203.7	1201.8	1200.8	1197.1	1188.5	1192.3	1183.8	1178.1	1177.1	1163.9	1156.3
5°	1253.0	1252.1	1250.2	1244.5	1231.2	1233.1	1218.9	1208.4	1205.6	1184.7	1168.6
7.5°	1294.8	1292.9	1291.9	1284.3	1270.1	1269.1	1252.1	1236.9	1232.2	1203.7	1179.0
10°	1327.0	1324.2	1326.1	1318.5	1303.3	1300.4	1278.6	1258.7	1254.0	1217.9	1183.8
12.5°	1354.5	1352.6	1355.5	1348.8	1336.5	1333.6	1311.8	1286.2	1280.5	1238.8	1194.2
15°	1384.9	1378.2	1383.9	1381.1	1372.5	1371.6	1351.7	1323.2	1315.6	1265.3	1210.3
17.5°	1401.0	1397.2	1403.8	1404.8	1401.0	1407.6	1388.7	1354.5	1347.9	1290.0	1224.6
20°	1412.4	1406.7	1414.3	1420.0	1422.8	1436.1	1420.9	1387.7	1380.1	1313.7	1237.8
22.5°	1451.3	1438.9	1439.9	1443.7	1445.6	1464.5	1455.1	1422.8	1415.2	1343.1	1254.0
25°	1549.0	1524.3	1508.2	1496.8	1483.5	1499.6	1493.9	1462.6	1456.0	1378.2	1273.9
27.5°	1700.7	1669.4	1637.2	1604.0	1551.8	1545.2	1535.7	1507.2	1499.6	1413.3	1293.8
30°	1873.4	1842.1	1804.1	1751.0	1653.3	1602.1	1580.3	1549.0	1540.4	1444.6	1312.8
32.5°	2045.0	2017.5	1979.6	1915.1	1775.7	1671.3	1624.8	1592.6	1584.1	1478.8	1335.5
35°	2178.8	2161.7	2137.1	2056.4	1897.1	1752.9	1689.3	1650.5	1641.0	1532.8	1377.3
37.5°	2286.9	2274.6	2253.7	2169.3	1985.3	1834.5	1763.3	1718.8	1708.3	1591.6	1421.9
40°	2446.3	2414.0	2397.0	2274.6	2062.1	1908.5	1846.8	1800.3	1788.9	1654.2	1457.9
42.5°	2581.9	2558.2	2537.3	2368.5	2135.2	1972.0	1925.5	1882.8	1867.7	1715.9	1496.8
45°	2604.7	2614.2	2603.7	2415.0	2250.9	2034.6	2005.2	1977.7	1963.5	1799.4	1555.6
47.5°	2605.6	2605.6	2544.0	2441.5	2394.1	2104.8	2090.6	2100.1	2084.9	1905.6	1625.8
50°	2537.3	2549.7	2517.4	2448.2	2432.1	2175.0	2194.9	2246.1	2231.0	2018.5	1701.7
52.5°	2396.0	2436.8	2435.8	2437.7	2377.0	2234.8	2304.9	2421.6	2396.0	2145.6	1782.3
55°	2146.5	2228.1	2301.2	2363.8	2329.6	2270.8	2439.6	2608.5	2581.9	2287.9	1863.9
57.5°	1933.1	1985.3	2076.3	2253.7	2273.6	2302.1	2565.8	2803.9	2780.2	2445.3	1949.2
60°	1689.3	1761.4	1852.5	2104.8	2205.3	2342.9	2704.3	2994.5	2971.8	2604.7	2031.8
62.5°	1314.7	1407.6	1589.7	1876.2	2105.8	2368.5	2813.4	3162.4	3152.0	2755.5	2105.8
65°	916.3	998.8	1254.0	1595.4	1947.3	2357.1	2900.6	3312.3	3302.8	2878.8	2157.9
67.5°	535.0	630.8	919.1	1284.3	1667.5	2278.4	2929.1	3400.5	3400.5	2953.7	2172.2
70°	305.4	350.0	606.1	936.2	1278.6	2061.2	2849.4	3399.6	3415.7	2936.7	2113.3
72.5°	213.4	233.3	407.9	629.8	867.0	1667.5	2640.7	3235.5	3257.3	2775.4	1912.3
75°	166.0	180.2	287.4	429.7	546.4	1132.6	2184.5	2728.0	2785.9	2365.7	1546.1
77.5°	126.2	136.6	167.9	268.4	350.0	650.7	1441.8	1788.9	1792.7	1448.4	829.0
80°	92.0	102.4	111.9	164.1	185.9	304.5	544.5	747.4	726.6	701.0	448.7
82.5°	55.0	65.4	68.3	89.2	91.1	129.9	190.7	240.9	231.4	308.3	210.6
85°	23.7	33.2	35.1	40.8	38.9	53.1	75.9	63.6	56.9	65.4	45.5
87.5°	5.7	9.5	9.5	10.4	8.5	13.3	14.2	10.4	9.5	11.4	11.4
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°	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0	1161.0
2.5°	1154.4	1151.5	1152.5	1136.3	1131.6	1126.9	1124.0	1122.1	1120.2	1123.1	1125.9
5°	1162.9	1156.3	1148.7	1125.0	1115.5	1105.0	1097.5	1090.8	1088.0	1088.0	1090.8
7.5°	1169.5	1158.2	1142.0	1110.7	1093.7	1079.4	1067.1	1058.6	1053.8	1053.8	1056.7
10°	1170.5	1154.4	1128.8	1090.8	1068.1	1047.2	1033.0	1023.5	1016.8	1016.8	1018.7
12.5°	1176.2	1154.4	1121.2	1075.6	1047.2	1021.6	1004.5	990.3	987.4	987.4	989.3
15°	1185.7	1159.1	1116.4	1062.4	1028.2	998.8	979.8	964.7	959.0	962.8	963.7
17.5°	1194.2	1162.0	1107.9	1045.3	1004.5	972.3	951.4	938.1	930.5	939.1	939.1
20°	1199.9	1162.0	1095.6	1023.5	978.9	942.8	922.9	906.8	901.1	911.5	912.5
22.5°	1208.4	1161.0	1082.3	1001.7	951.4	913.4	893.5	881.2	878.3	889.7	893.5
25°	1217.9	1162.9	1068.1	977.0	921.0	884.0	868.9	863.2	865.1	879.3	884.0
27.5°	1228.4	1166.7	1053.8	949.5	887.8	854.6	846.1	848.9	856.5	874.6	880.2
30°	1237.8	1167.6	1033.9	917.2	849.9	818.6	822.4	834.7	846.1	864.1	870.8
32.5°	1250.2	1168.6	1013.0	882.1	809.1	786.3	803.4	823.3	834.7	851.8	859.4
35°	1280.5	1184.7	996.9	848.0	771.2	758.8	787.3	812.9	819.5	834.7	841.4
37.5°	1315.6	1211.3	988.4	812.9	734.2	731.3	767.4	793.0	794.9	804.4	811.0
40°	1337.4	1222.7	978.9	783.5	701.0	702.9	739.9	759.8	756.0	762.6	767.4
42.5°	1359.3	1226.5	959.0	758.8	669.7	671.6	700.0	714.2	716.1	730.4	737.0
45°	1396.2	1236.9	937.2	736.1	641.2	634.6	651.6	670.6	695.3	722.8	730.4
47.5°	1445.6	1258.7	914.4	708.6	613.7	591.9	598.5	631.7	657.3	682.9	687.7
50°	1495.8	1280.5	893.5	675.4	586.2	546.4	549.2	579.6	600.4	620.3	623.2
52.5°	1545.2	1299.5	875.5	644.1	554.9	492.3	503.7	535.0	549.2	558.7	561.5
55°	1594.5	1315.6	859.4	617.5	518.9	449.6	460.0	489.4	503.7	508.4	510.3
57.5°	1645.7	1334.6	847.0	594.7	478.1	411.7	418.3	439.2	452.5	458.1	456.2
60°	1688.4	1350.7	840.4	571.0	437.3	376.6	374.7	393.6	412.6	418.3	416.4
62.5°	1721.6	1361.2	830.0	540.7	401.2	341.5	332.0	356.7	376.6	380.4	383.2
65°	1739.6	1362.1	804.4	501.8	364.2	303.5	296.9	321.6	333.9	337.7	337.7
67.5°	1736.8	1346.9	754.1	449.6	330.1	269.4	263.7	278.9	296.9	299.7	296.9
70°	1678.0	1284.3	673.5	394.6	289.3	239.0	228.6	243.8	260.8	250.4	245.7
72.5°	1511.0	1122.1	554.9	333.9	243.8	201.1	196.3	211.5	212.5	214.4	209.6
75°	1192.3	835.7	415.5	259.9	197.3	168.8	167.9	165.0	168.8	176.4	170.7
77.5°	626.0	417.4	224.8	159.4	143.2	135.6	129.0	128.1	139.4	144.2	138.5
80°	339.6	234.3	129.0	95.8	87.3	88.2	96.8	94.9	107.2	110.0	105.3
82.5°	148.0	111.0	63.6	57.9	57.9	56.9	59.8	66.4	79.7	79.7	63.6
85°	32.3	27.5	24.7	28.5	32.3	32.3	32.3	32.3	22.8	12.3	8.5
87.5°	10.4	10.4	10.4	11.4	12.3	12.3	10.4	7.6	4.7	0.9	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)