

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: P799127

Luminaire Tested: **ARCH1-60-730-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799127
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: ARCH1-60-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7001 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

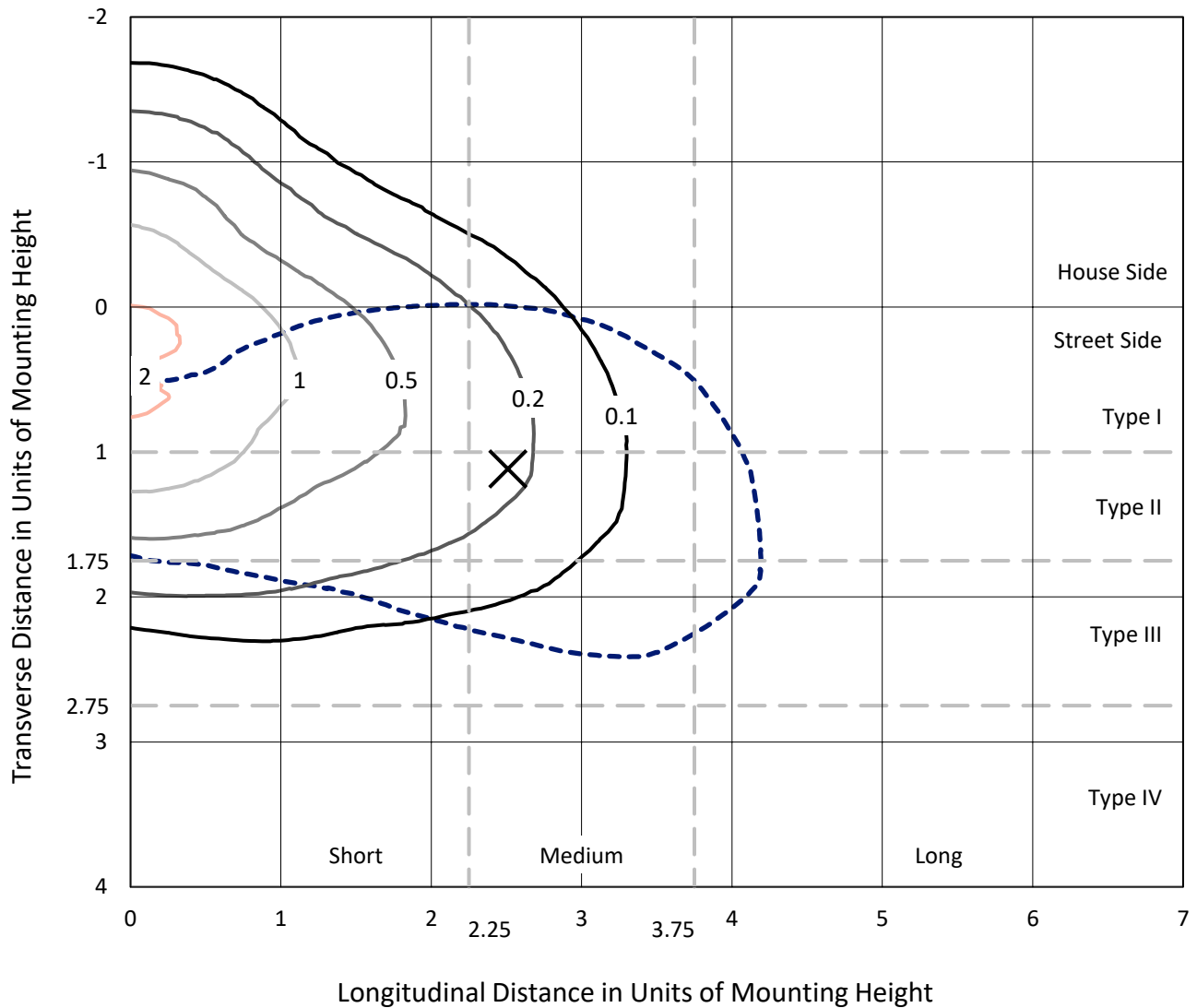
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

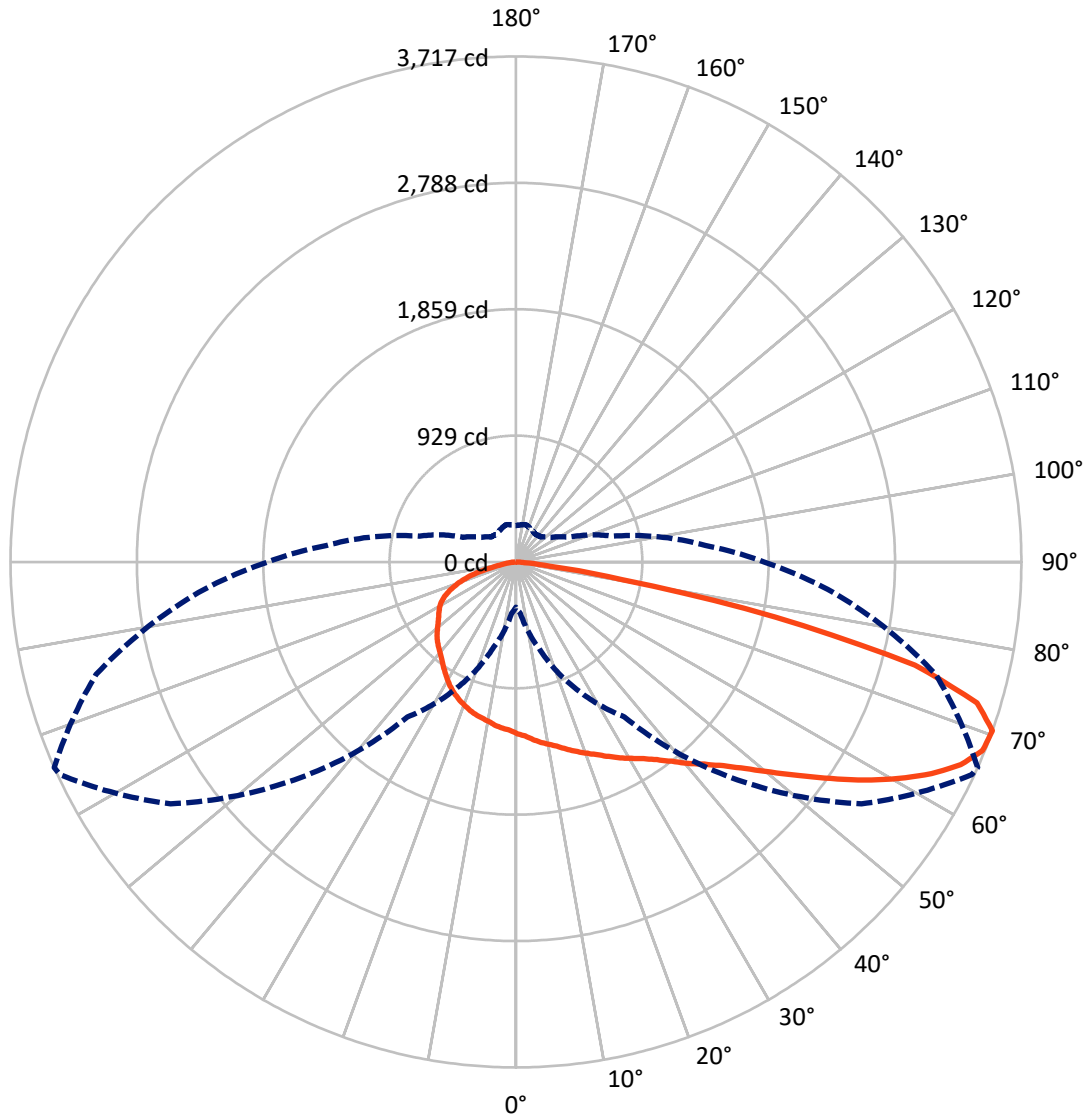
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	1855.1	0.0	1855.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	5145.9	0.0	5145.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	7001.0	0.0	7001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.7
10°-20°	364.2	5.2
20°-30°	610.5	8.7
30°-40°	914.1	13.1
40°-50°	1222.2	17.5
50°-60°	1426.9	20.4
60°-70°	1418.9	20.3
70°-80°	840.0	12.0
80°-90°	82.8	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°	7001.0	100.0
0°-180°	7001.0	100.0

Coefficient of Utilization



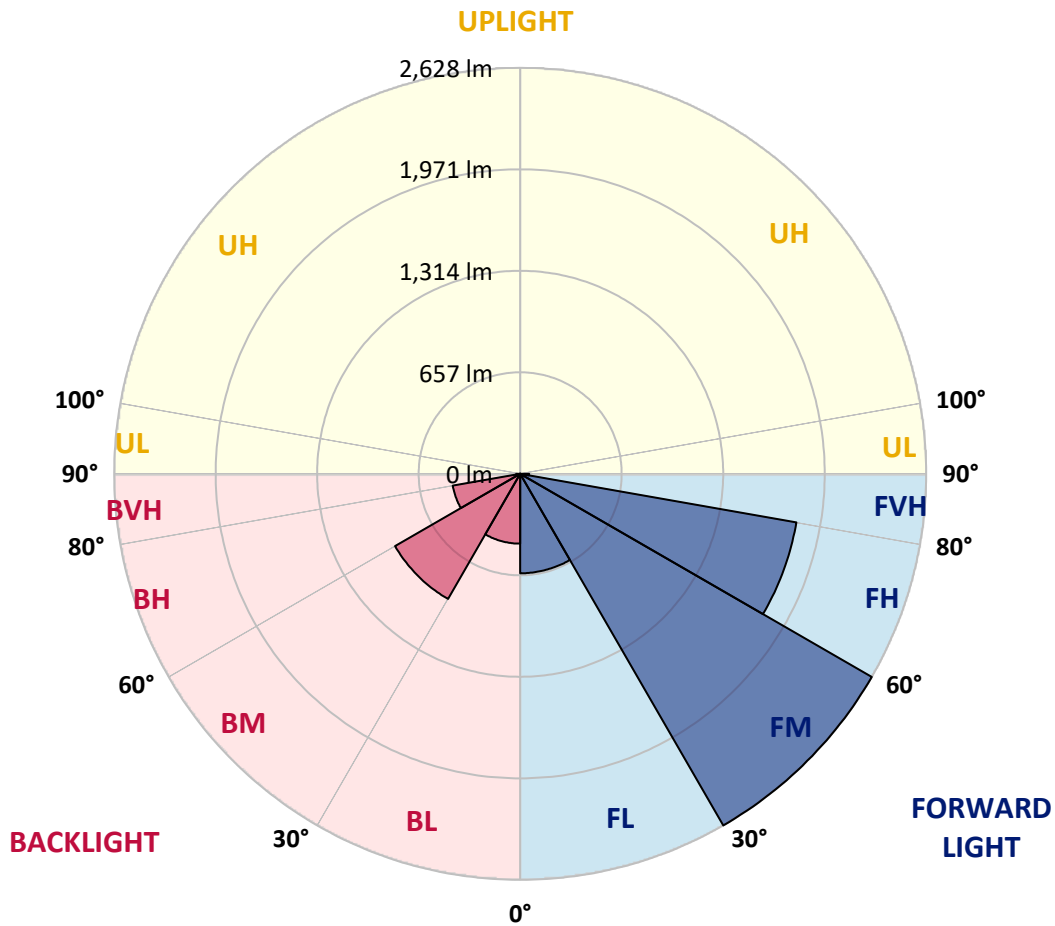
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.9	9.2			
FM (30°-60°)	2628.1	37.5			
FH (60°-80°)	1815.7	25.9			G2/5000
FVH (80°-90°)	58.2	0.8			G1/100
BL (0°-30°)	452.2	6.5	B1/500		
BM (30°-60°)	935.2	13.4	B1/1000		
BH (60°-80°)	443.1	6.3	B1/500		G1/500
BVH (80°-90°)	24.6	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1310.0	1307.9	1306.9	1302.7	1293.5	1297.6	1288.3	1282.1	1281.1	1266.6	1258.4
5°	1363.7	1362.6	1360.6	1354.4	1339.9	1342.0	1326.5	1315.1	1312.0	1289.3	1271.8
7.5°	1409.1	1407.0	1406.0	1397.7	1382.2	1381.2	1362.6	1346.1	1340.9	1310.0	1283.1
10°	1444.2	1441.1	1443.1	1434.9	1418.4	1415.3	1391.5	1369.8	1364.7	1325.5	1288.3
12.5°	1474.1	1472.0	1475.1	1467.9	1454.5	1451.4	1427.7	1399.8	1393.6	1348.2	1299.7
15°	1507.1	1499.9	1506.1	1503.0	1493.7	1492.7	1471.0	1440.0	1431.8	1377.1	1317.2
17.5°	1524.7	1520.6	1527.8	1528.8	1524.7	1531.9	1511.3	1474.1	1466.9	1403.9	1332.7
20°	1537.1	1530.9	1539.1	1545.3	1548.4	1562.9	1546.4	1510.2	1502.0	1429.7	1347.1
22.5°	1579.4	1566.0	1567.0	1571.1	1573.2	1593.9	1583.5	1548.4	1540.2	1461.7	1364.7
25°	1685.7	1658.9	1641.3	1629.0	1614.5	1632.0	1625.9	1591.8	1584.6	1499.9	1386.4
27.5°	1850.9	1816.8	1781.7	1745.6	1688.8	1681.6	1671.3	1640.3	1632.0	1538.1	1408.0
30°	2038.8	2004.7	1963.4	1905.6	1799.3	1743.5	1719.8	1685.7	1676.4	1572.2	1428.7
32.5°	2225.6	2195.7	2154.4	2084.2	1932.4	1818.9	1768.3	1733.2	1723.9	1609.3	1453.5
35°	2371.2	2352.6	2325.7	2238.0	2064.6	1907.7	1838.5	1796.2	1785.9	1668.2	1498.9
37.5°	2488.8	2475.4	2452.7	2360.8	2160.6	1996.4	1919.0	1870.5	1859.2	1732.2	1547.4
40°	2662.3	2627.2	2608.6	2475.4	2244.2	2077.0	2009.9	1959.3	1946.9	1800.3	1586.6
42.5°	2809.9	2784.1	2761.4	2577.6	2323.7	2146.1	2095.5	2049.1	2032.6	1867.4	1629.0
45°	2834.7	2845.0	2833.6	2628.2	2449.6	2214.3	2182.3	2152.3	2136.8	1958.3	1693.0
47.5°	2835.7	2835.7	2768.6	2657.1	2605.5	2290.6	2275.2	2285.5	2269.0	2073.9	1769.3
50°	2761.4	2774.8	2739.7	2664.3	2646.8	2367.0	2388.7	2444.5	2427.9	2196.7	1851.9
52.5°	2607.6	2651.9	2650.9	2653.0	2586.9	2432.1	2508.5	2635.4	2607.6	2335.0	1939.7
55°	2336.1	2424.8	2504.3	2572.5	2535.3	2471.3	2655.0	2838.8	2809.9	2489.9	2028.4
57.5°	2103.8	2160.6	2259.7	2452.7	2474.4	2505.4	2792.3	3051.4	3025.6	2661.2	2121.4
60°	1838.5	1917.0	2016.1	2290.6	2400.1	2549.8	2943.1	3258.9	3234.2	2834.7	2211.2
62.5°	1430.8	1531.9	1730.1	2041.9	2291.7	2577.6	3061.8	3441.6	3430.3	2998.8	2291.7
65°	997.2	1087.0	1364.7	1736.3	2119.3	2565.2	3156.7	3604.8	3594.4	3133.0	2348.5
67.5°	582.2	686.5	1000.3	1397.7	1814.8	2479.6	3187.7	3700.8	3700.8	3214.5	2363.9
70°	332.4	380.9	659.6	1018.9	1391.5	2243.2	3101.0	3699.7	3717.3	3196.0	2299.9
72.5°	232.3	253.9	443.9	685.4	943.5	1814.8	2873.9	3521.1	3544.9	3020.5	2081.1
75°	180.7	196.1	312.8	467.6	594.6	1232.6	2377.4	2968.9	3031.8	2574.5	1682.6
77.5°	137.3	148.6	182.7	292.1	380.9	708.1	1569.1	1946.9	1951.0	1576.3	902.2
80°	100.1	111.5	121.8	178.6	202.3	331.4	592.5	813.4	790.7	762.9	488.3
82.5°	59.9	71.2	74.3	97.0	99.1	141.4	207.5	262.2	251.9	335.5	229.2
85°	25.8	36.1	38.2	44.4	42.3	57.8	82.6	69.2	61.9	71.2	49.5
87.5°	6.2	10.3	10.3	11.4	9.3	14.5	15.5	11.4	10.3	12.4	12.4
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°	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1256.3	1253.2	1254.2	1236.7	1231.5	1226.4	1223.3	1221.2	1219.1	1222.2	1225.3
5°	1265.6	1258.4	1250.1	1224.3	1214.0	1202.6	1194.4	1187.1	1184.0	1184.0	1187.1
7.5°	1272.8	1260.4	1242.9	1208.8	1190.2	1174.7	1161.3	1152.0	1146.9	1146.9	1150.0
10°	1273.8	1256.3	1228.4	1187.1	1162.4	1139.6	1124.2	1113.8	1106.6	1106.6	1108.7
12.5°	1280.0	1256.3	1220.2	1170.6	1139.6	1111.8	1093.2	1077.7	1074.6	1074.6	1076.7
15°	1290.4	1261.5	1215.0	1156.2	1119.0	1087.0	1066.4	1049.8	1043.6	1047.8	1048.8
17.5°	1299.7	1264.6	1205.7	1137.6	1093.2	1058.1	1035.4	1020.9	1012.7	1022.0	1022.0
20°	1305.8	1264.6	1192.3	1113.8	1065.3	1026.1	1004.4	986.9	980.7	992.0	993.1
22.5°	1315.1	1263.5	1177.8	1090.1	1035.4	994.1	972.4	959.0	955.9	968.3	972.4
25°	1325.5	1265.6	1162.4	1063.3	1002.4	962.1	945.6	939.4	941.4	956.9	962.1
27.5°	1336.8	1269.7	1146.9	1033.3	966.2	930.1	920.8	923.9	932.2	951.8	958.0
30°	1347.1	1270.7	1125.2	998.2	924.9	890.9	895.0	908.4	920.8	940.4	947.6
32.5°	1360.6	1271.8	1102.5	960.0	880.5	855.8	874.3	896.0	908.4	927.0	935.3
35°	1393.6	1289.3	1084.9	922.9	839.3	825.8	856.8	884.7	891.9	908.4	915.6
37.5°	1431.8	1318.2	1075.6	884.7	799.0	795.9	835.1	863.0	865.1	875.4	882.6
40°	1455.5	1330.6	1065.3	852.7	762.9	764.9	805.2	826.9	822.7	830.0	835.1
42.5°	1479.3	1334.7	1043.6	825.8	728.8	730.9	761.8	777.3	779.4	794.9	802.1
45°	1519.5	1346.1	1019.9	801.1	697.8	690.6	709.2	729.8	756.7	786.6	794.9
47.5°	1573.2	1369.8	995.1	771.1	667.9	644.1	651.4	687.5	715.4	743.2	748.4
50°	1627.9	1393.6	972.4	735.0	638.0	594.6	597.7	630.7	653.4	675.1	678.2
52.5°	1681.6	1414.2	952.8	700.9	603.9	535.8	548.1	582.2	597.7	608.0	611.1
55°	1735.3	1431.8	935.3	672.0	564.7	489.3	500.7	532.7	548.1	553.3	555.4
57.5°	1791.0	1452.4	921.8	647.2	520.3	448.0	455.2	477.9	492.4	498.6	496.5
60°	1837.5	1470.0	914.6	621.4	475.9	409.8	407.8	428.4	449.0	455.2	453.2
62.5°	1873.6	1481.3	903.3	588.4	436.7	371.6	361.3	388.1	409.8	413.9	417.0
65°	1893.2	1482.4	875.4	546.1	396.4	330.3	323.1	349.9	363.4	367.5	367.5
67.5°	1890.1	1465.8	820.7	489.3	359.2	293.2	287.0	303.5	323.1	326.2	323.1
70°	1826.1	1397.7	732.9	429.4	314.8	260.1	248.8	265.3	283.9	272.5	267.4
72.5°	1644.4	1221.2	603.9	363.4	265.3	218.8	213.7	230.2	231.2	233.3	228.1
75°	1297.6	909.4	452.1	282.8	214.7	183.7	182.7	179.6	183.7	192.0	185.8
77.5°	681.3	454.2	244.7	173.4	155.9	147.6	140.4	139.4	151.7	156.9	150.7
80°	369.6	255.0	140.4	104.3	95.0	96.0	105.3	103.2	116.6	119.7	114.6
82.5°	161.0	120.8	69.2	63.0	63.0	61.9	65.0	72.3	86.7	86.7	69.2
85°	35.1	29.9	26.8	31.0	35.1	35.1	35.1	35.1	24.8	13.4	9.3
87.5°	11.4	11.4	11.4	12.4	13.4	13.4	11.4	8.3	5.2	1.0	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)