

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: P799991

Luminaire Tested: **ARCH2-70-722-U-T3**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799991
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: ARCH2-70-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8718 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

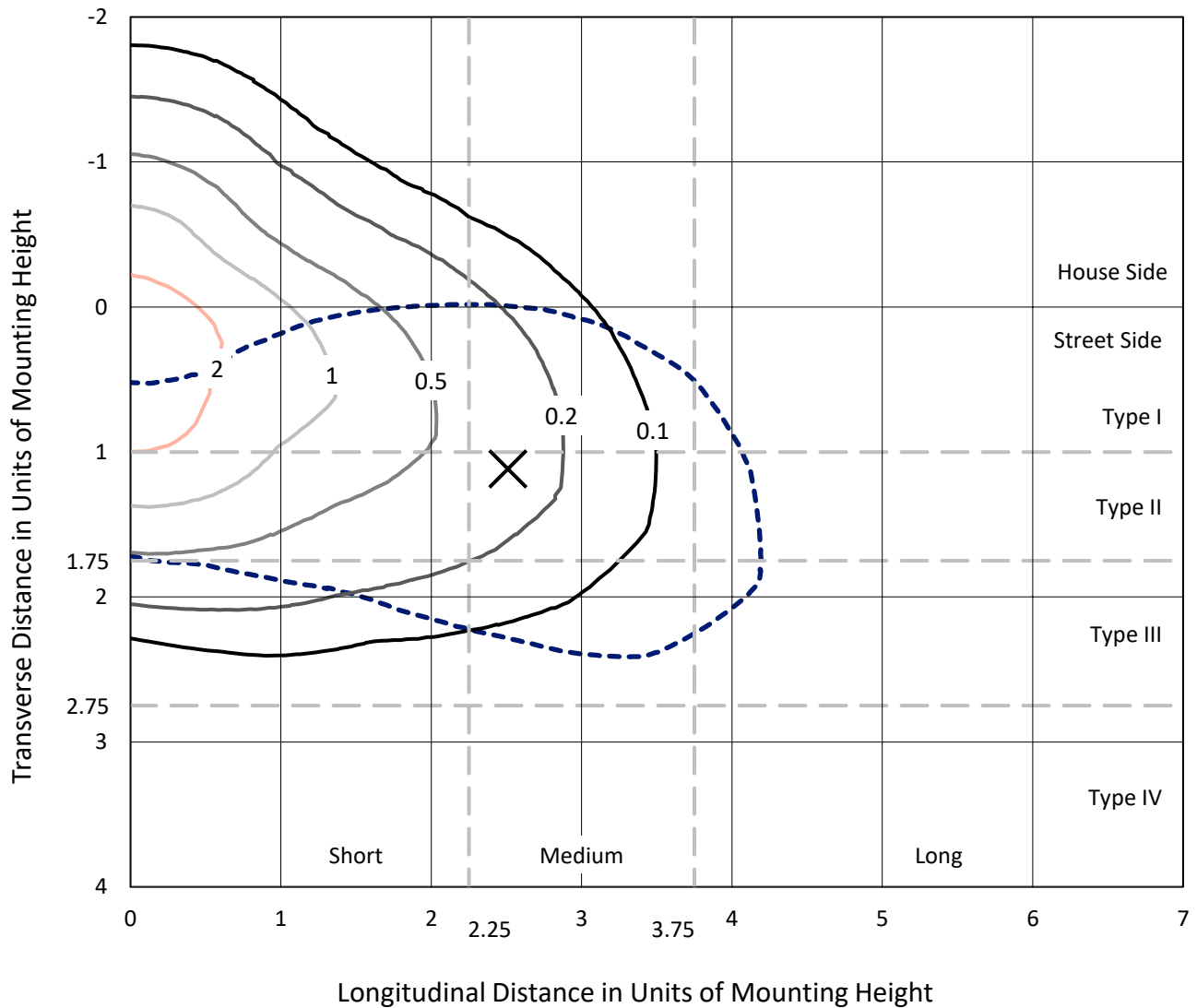
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P799991
 CATALOG NUMBER: ARCH2-70-722-U-T3

Iso-Footcandle Lines of Horizontal Illumination

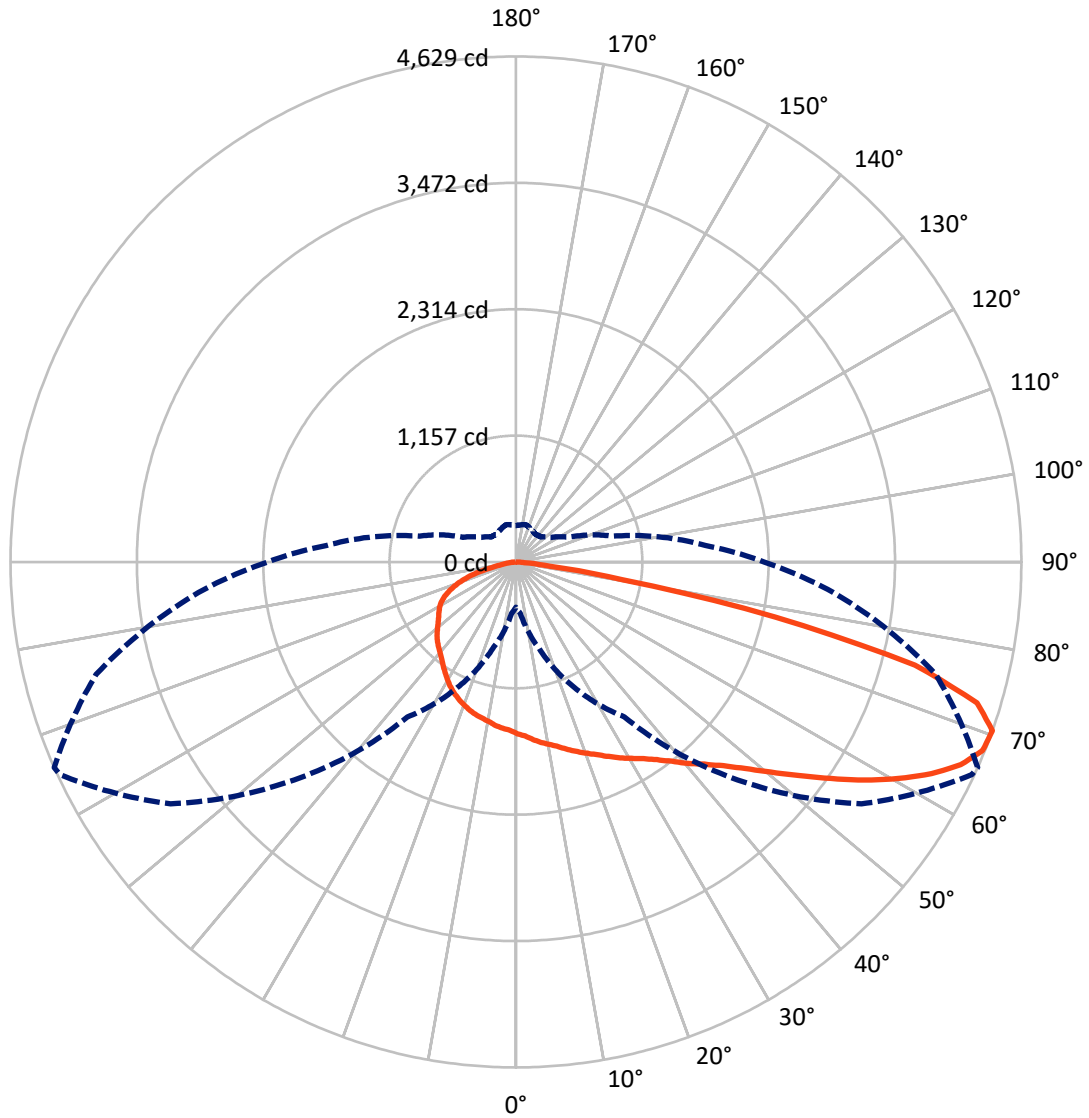
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Medium - N/A

REPORT NUMBER: P799991
CATALOG NUMBER: ARCH2-70-722-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P799991
 CATALOG NUMBER: ARCH2-70-722-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2310.1	0.0	2310.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	6407.9	0.0	6407.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	8718.0	0.0	8718.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	1.7
10°-20°	453.5	5.2
20°-30°	760.2	8.7
30°-40°	1138.3	13.1
40°-50°	1521.9	17.5
50°-60°	1776.9	20.4
60°-70°	1766.8	20.3
70°-80°	1046.0	12.0
80°-90°	103.1	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°	8718.0	100.0
0°-180°	8718.0	100.0



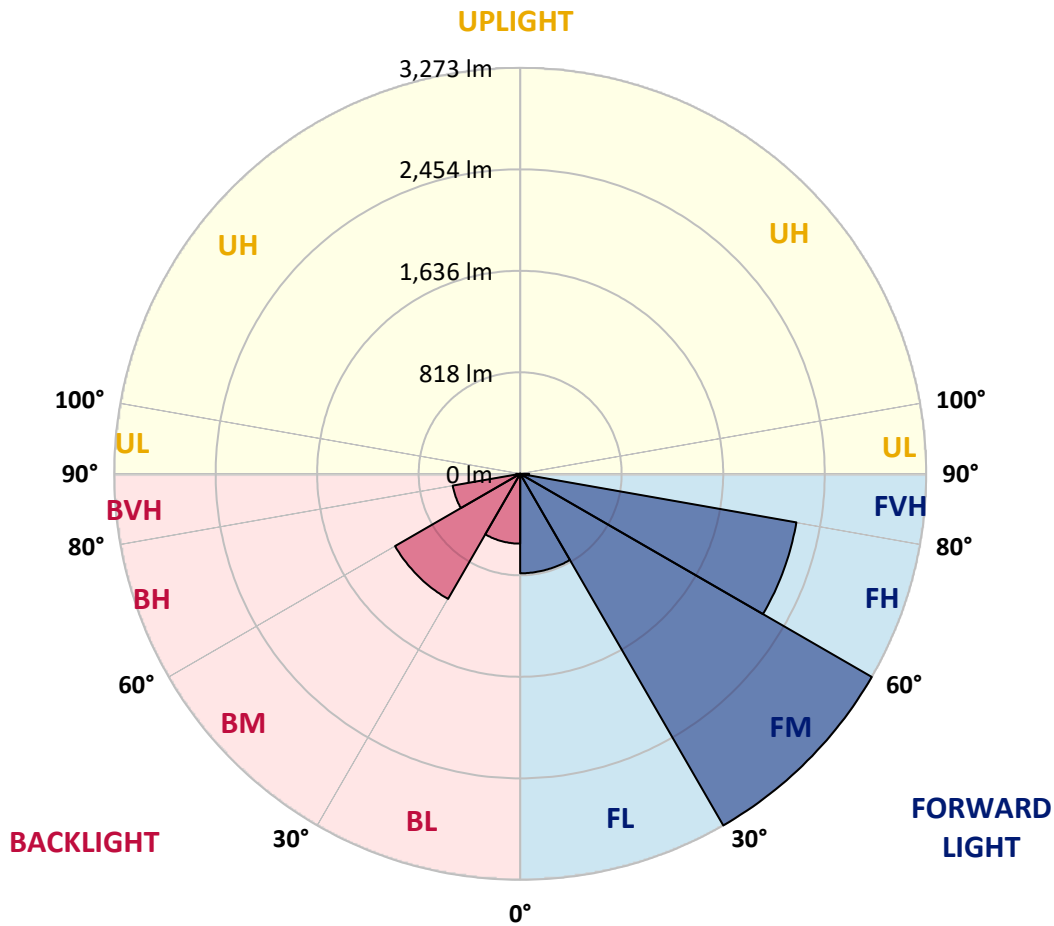
REPORT NUMBER: P799991
 CATALOG NUMBER: ARCH2-70-722-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.8	9.2			
FM (30°-60°)	3272.6	37.5			
FH (60°-80°)	2261.0	25.9			G2/5000
FVH (80°-90°)	72.5	0.8			G1/100
BL (0°-30°)	563.1	6.5	B2/1000		
BM (30°-60°)	1164.5	13.4	B2/2500		
BH (60°-80°)	551.8	6.3	B2/1000		G2/1000
BVH (80°-90°)	30.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



REPORT NUMBER: P799991
 CATALOG NUMBER: ARCH2-70-722-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4
2.5°	1631.2	1628.7	1627.4	1622.2	1610.7	1615.8	1604.3	1596.5	1595.3	1577.3	1567.0
5°	1698.1	1696.8	1694.2	1686.5	1668.5	1671.1	1651.8	1637.7	1633.8	1605.5	1583.7
7.5°	1754.7	1752.1	1750.8	1740.5	1721.2	1719.9	1696.8	1676.2	1669.8	1631.2	1597.8
10°	1798.4	1794.5	1797.1	1786.8	1766.2	1762.4	1732.8	1705.8	1699.4	1650.5	1604.3
12.5°	1835.6	1833.1	1836.9	1827.9	1811.2	1807.4	1777.8	1743.1	1735.4	1678.8	1618.4
15°	1876.8	1867.8	1875.5	1871.6	1860.1	1858.8	1831.8	1793.2	1782.9	1714.8	1640.2
17.5°	1898.6	1893.5	1902.5	1903.8	1898.6	1907.6	1881.9	1835.6	1826.6	1748.2	1659.5
20°	1914.0	1906.3	1916.6	1924.3	1928.2	1946.2	1925.6	1880.6	1870.3	1780.4	1677.5
22.5°	1966.8	1950.0	1951.3	1956.5	1959.0	1984.7	1971.9	1928.2	1917.9	1820.2	1699.4
25°	2099.2	2065.7	2043.9	2028.5	2010.5	2032.3	2024.6	1982.2	1973.2	1867.8	1726.4
27.5°	2304.8	2262.4	2218.7	2173.7	2103.0	2094.0	2081.2	2042.6	2032.3	1915.3	1753.4
30°	2538.8	2496.4	2444.9	2373.0	2240.6	2171.1	2141.6	2099.2	2087.6	1957.8	1779.1
32.5°	2771.4	2734.2	2682.8	2595.3	2406.4	2265.0	2202.0	2158.3	2146.7	2004.0	1809.9
35°	2952.7	2929.6	2896.1	2786.9	2570.9	2375.5	2289.4	2236.7	2223.8	2077.3	1866.5
37.5°	3099.2	3082.5	3054.2	2939.8	2690.5	2486.1	2389.7	2329.2	2315.1	2157.0	1926.9
40°	3315.2	3271.5	3248.4	3082.5	2794.6	2586.3	2502.8	2439.8	2424.4	2241.8	1975.7
42.5°	3499.0	3466.9	3438.6	3209.8	2893.6	2672.5	2609.5	2551.6	2531.1	2325.4	2028.5
45°	3529.9	3542.7	3528.6	3272.8	3050.4	2757.3	2717.5	2680.2	2660.9	2438.5	2108.2
47.5°	3531.2	3531.2	3447.6	3308.8	3244.5	2852.4	2833.1	2846.0	2825.4	2582.5	2203.3
50°	3438.6	3455.3	3411.6	3317.8	3295.9	2947.6	2974.5	3044.0	3023.4	2735.5	2306.1
52.5°	3247.1	3302.3	3301.1	3303.6	3221.4	3028.5	3123.7	3281.8	3247.1	2907.7	2415.4
55°	2909.0	3019.5	3118.5	3203.4	3157.1	3077.4	3306.2	3535.0	3499.0	3100.5	2525.9
57.5°	2619.8	2690.5	2813.9	3054.2	3081.2	3119.8	3477.2	3799.8	3767.7	3313.9	2641.6
60°	2289.4	2387.1	2510.5	2852.4	2988.7	3175.1	3664.8	4058.2	4027.3	3529.9	2753.5
62.5°	1781.6	1907.6	2154.4	2542.6	2853.7	3209.8	3812.7	4285.7	4271.6	3734.3	2853.7
65°	1241.8	1353.6	1699.4	2162.1	2639.0	3194.4	3930.9	4488.8	4476.0	3901.4	2924.4
67.5°	725.0	854.8	1245.6	1740.5	2259.8	3087.7	3969.5	4608.4	4608.4	4002.9	2943.7
70°	413.9	474.3	821.4	1268.7	1732.8	2793.3	3861.5	4607.1	4628.9	3979.8	2864.0
72.5°	289.2	316.2	552.7	853.5	1174.9	2259.8	3578.7	4384.7	4414.3	3761.2	2591.5
75°	225.0	244.2	389.5	582.3	740.4	1534.8	2960.4	3697.0	3775.4	3205.9	2095.3
77.5°	171.0	185.1	227.5	363.8	474.3	881.8	1953.9	2424.4	2429.5	1962.9	1123.5
80°	124.7	138.8	151.7	222.4	251.9	412.6	737.9	1012.9	984.7	950.0	608.0
82.5°	74.6	88.7	92.6	120.8	123.4	176.1	258.4	326.5	313.7	417.8	285.4
85°	32.1	45.0	47.6	55.3	52.7	72.0	102.8	86.1	77.1	88.7	61.7
87.5°	7.7	12.9	12.9	14.1	11.6	18.0	19.3	14.1	12.9	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799991
 CATALOG NUMBER: ARCH2-70-722-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4	1573.4
2.5°	1564.4	1560.5	1561.8	1540.0	1533.6	1527.1	1523.3	1520.7	1518.1	1522.0	1525.8
5°	1576.0	1567.0	1556.7	1524.6	1511.7	1497.6	1487.3	1478.3	1474.4	1474.4	1478.3
7.5°	1585.0	1569.5	1547.7	1505.3	1482.1	1462.9	1446.1	1434.6	1428.1	1428.1	1432.0
10°	1586.3	1564.4	1529.7	1478.3	1447.4	1419.1	1399.9	1387.0	1378.0	1378.0	1380.6
12.5°	1594.0	1564.4	1519.4	1457.7	1419.1	1384.4	1361.3	1342.0	1338.2	1338.2	1340.7
15°	1606.8	1570.8	1513.0	1439.7	1393.4	1353.6	1327.9	1307.3	1299.6	1304.7	1306.0
17.5°	1618.4	1574.7	1501.4	1416.6	1361.3	1317.6	1289.3	1271.3	1261.0	1272.6	1272.6
20°	1626.1	1574.7	1484.7	1387.0	1326.6	1277.7	1250.8	1228.9	1221.2	1235.3	1236.6
22.5°	1637.7	1573.4	1466.7	1357.4	1289.3	1237.9	1210.9	1194.2	1190.3	1205.8	1210.9
25°	1650.5	1576.0	1447.4	1324.0	1248.2	1198.0	1177.5	1169.8	1172.3	1191.6	1198.0
27.5°	1664.7	1581.1	1428.1	1286.7	1203.2	1158.2	1146.6	1150.5	1160.8	1185.2	1192.9
30°	1677.5	1582.4	1401.1	1243.0	1151.8	1109.4	1114.5	1131.2	1146.6	1171.1	1180.1
32.5°	1694.2	1583.7	1372.9	1195.5	1096.5	1065.6	1088.8	1115.8	1131.2	1154.3	1164.6
35°	1735.4	1605.5	1351.0	1149.2	1045.1	1028.4	1066.9	1101.6	1110.6	1131.2	1140.2
37.5°	1782.9	1641.5	1339.4	1101.6	994.9	991.1	1039.9	1074.6	1077.2	1090.1	1099.1
40°	1812.5	1657.0	1326.6	1061.8	950.0	952.5	1002.7	1029.7	1024.5	1033.5	1039.9
42.5°	1842.1	1662.1	1299.6	1028.4	907.5	910.1	948.7	967.9	970.5	989.8	998.8
45°	1892.2	1676.2	1270.0	997.5	869.0	860.0	883.1	908.8	942.2	979.5	989.8
47.5°	1959.0	1705.8	1239.2	960.2	831.7	802.1	811.1	856.1	890.8	925.5	932.0
50°	2027.2	1735.4	1210.9	915.2	794.4	740.4	744.3	785.4	813.7	840.7	844.5
52.5°	2094.0	1761.1	1186.5	872.8	752.0	667.2	682.6	725.0	744.3	757.1	761.0
55°	2160.9	1782.9	1164.6	836.8	703.1	609.3	623.4	663.3	682.6	689.0	691.6
57.5°	2230.3	1808.6	1147.9	806.0	647.9	557.9	566.9	595.2	613.2	620.9	618.3
60°	2288.1	1830.5	1138.9	773.8	592.6	510.3	507.8	533.5	559.2	566.9	564.3
62.5°	2333.1	1844.6	1124.8	732.7	543.7	462.8	449.9	483.3	510.3	515.5	519.3
65°	2357.5	1845.9	1090.1	680.0	493.6	411.3	402.3	435.8	452.5	457.6	457.6
67.5°	2353.7	1825.4	1021.9	609.3	447.3	365.1	357.4	377.9	402.3	406.2	402.3
70°	2274.0	1740.5	912.7	534.8	392.1	323.9	309.8	330.4	353.5	339.4	332.9
72.5°	2047.7	1520.7	752.0	452.5	330.4	272.5	266.1	286.7	287.9	290.5	284.1
75°	1615.8	1132.5	563.0	352.2	267.4	228.8	227.5	223.7	228.8	239.1	231.4
77.5°	848.4	565.6	304.7	216.0	194.1	183.8	174.8	173.5	189.0	195.4	187.7
80°	460.2	317.5	174.8	129.8	118.3	119.5	131.1	128.5	145.3	149.1	142.7
82.5°	200.5	150.4	86.1	78.4	78.4	77.1	81.0	90.0	108.0	108.0	86.1
85°	43.7	37.3	33.4	38.6	43.7	43.7	43.7	43.7	30.9	16.7	11.6
87.5°	14.1	14.1	14.1	15.4	16.7	16.7	14.1	10.3	6.4	1.3	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)