

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: P1210709

Luminaire Tested: **ARCH3-50-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210709
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7545 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53.6
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

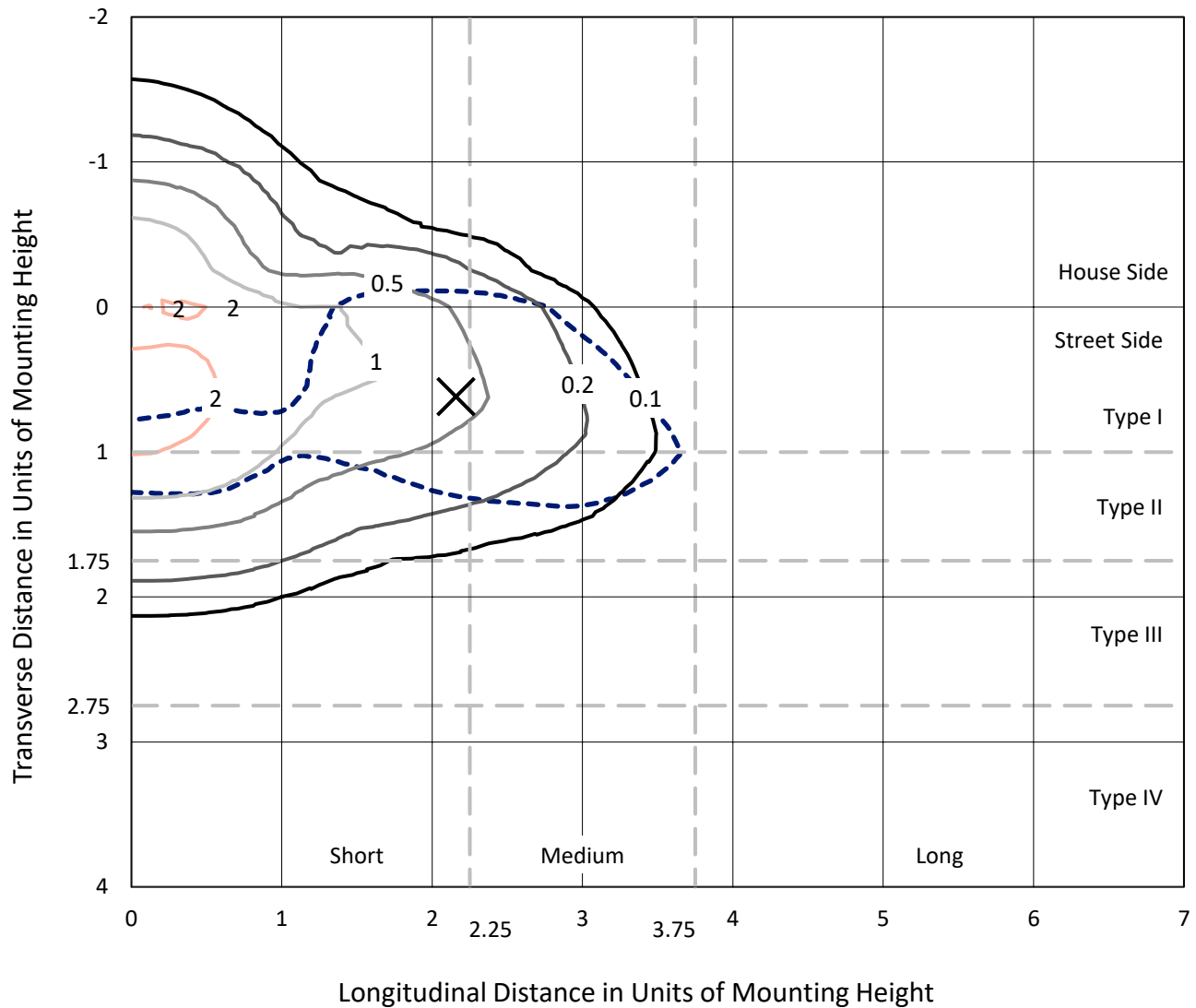


REPORT NUMBER: P1210709

CATALOG NUMBER: ARCH3-50-722-U-T2RE

Iso-Footcandle Lines of Horizontal Illumination

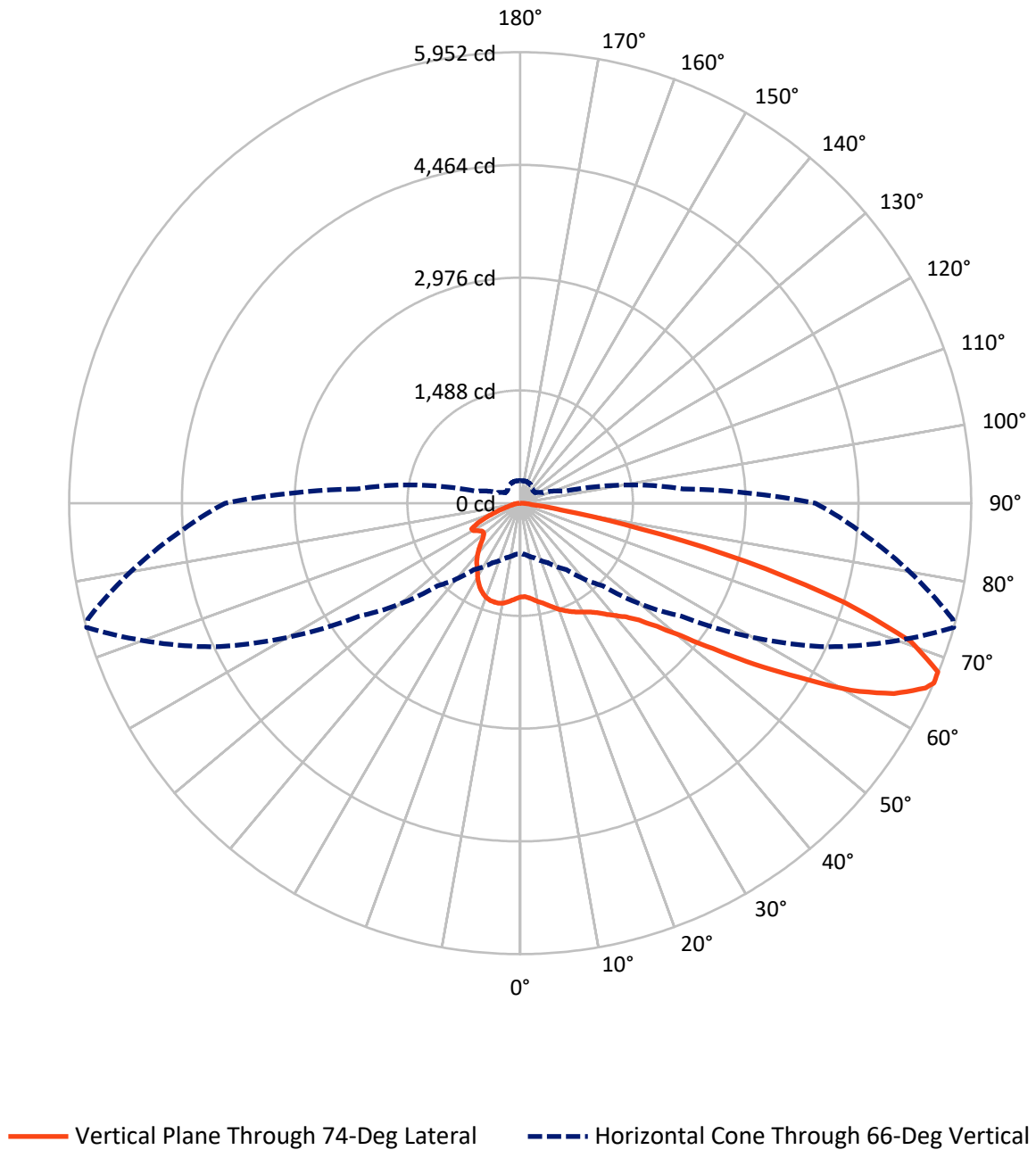
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

REPORT NUMBER: P1210709
CATALOG NUMBER: ARCH3-50-722-U-T2RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210709

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1837.4	0.0	1837.4
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	5707.6	0.0	5707.6
	% Fixture	75.6	0.0	75.6
Total	Lumens	7545.0	0.0	7545.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	1.6
10°-20°	362.8	4.8
20°-30°	680.9	9.0
30°-40°	1047.3	13.9
40°-50°	1408.7	18.7
50°-60°	1666.0	22.1
60°-70°	1541.1	20.4
70°-80°	648.3	8.6
80°-90°	71.7	1.0
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°	7545.0	100.0
0°-180°	7545.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210709

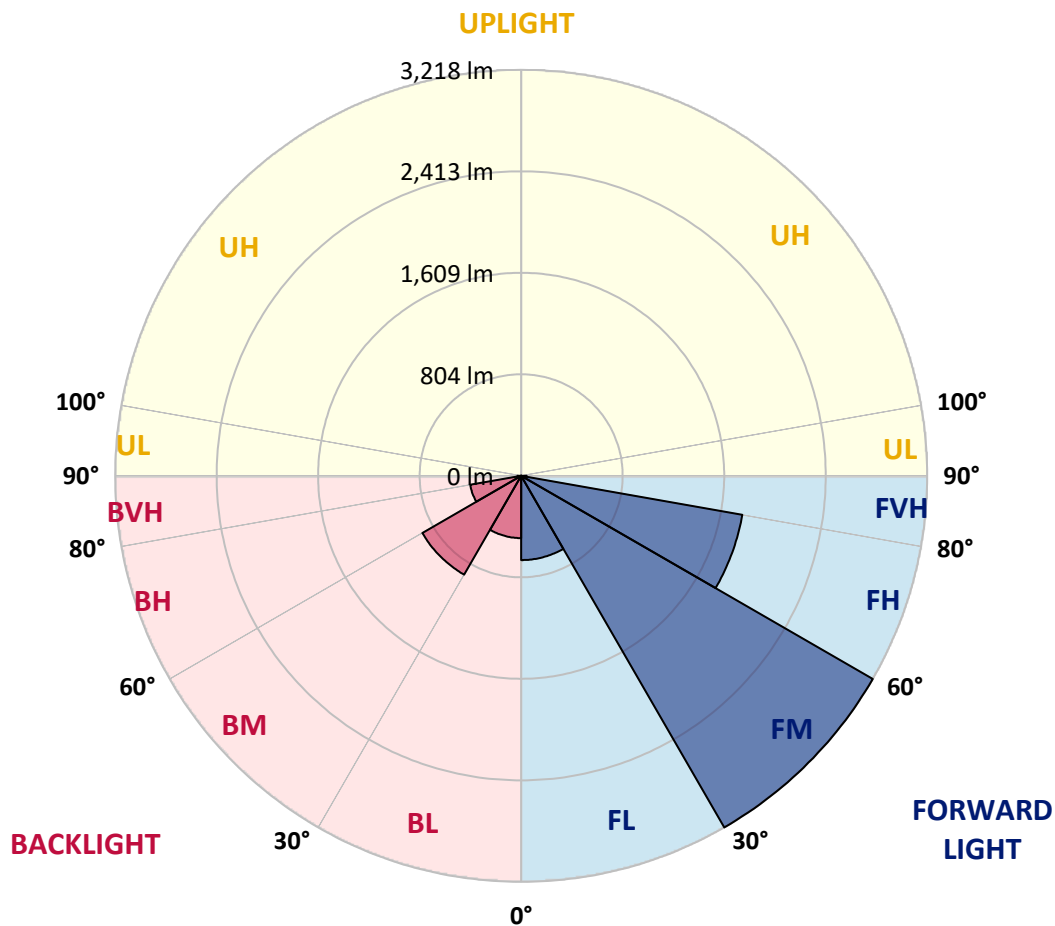
CATALOG NUMBER: ARCH3-50-722-U-T2RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	667.8	8.9			
FM	(30°-60°)	3217.5	42.6			
FH	(60°-80°)	1779.3	23.6			G1/1800
FVH	(80°-90°)	42.9	0.6			G1/100
BL	(0°-30°)	493.9	6.5	B1/500		
BM	(30°-60°)	904.6	12.0	B1/1000		
BH	(60°-80°)	410.2	5.4	B1/500		G1/500
BVH	(80°-90°)	28.8	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 II Short



REPORT NUMBER: P1210709

CATALOG NUMBER: ARCH3-50-722-U-T2RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9
2.5°	1233.0	1231.1	1234.9	1240.8	1243.7	1238.8	1236.9	1235.9	1235.9	1233.0	1237.8
5°	1174.7	1173.8	1182.5	1193.2	1213.6	1228.1	1247.6	1259.2	1255.3	1249.5	1253.4
7.5°	1099.0	1097.1	1107.8	1128.1	1156.3	1188.3	1235.9	1272.8	1287.4	1285.4	1284.4
10°	1128.1	1126.2	1125.2	1119.4	1129.1	1160.2	1209.7	1274.7	1324.3	1325.2	1326.2
12.5°	1229.1	1234.0	1229.1	1210.7	1189.3	1177.7	1206.8	1279.6	1355.3	1361.1	1385.4
15°	1367.0	1362.1	1352.4	1331.0	1298.0	1263.1	1241.7	1301.9	1400.0	1404.8	1458.2
17.5°	1488.3	1492.2	1486.4	1466.0	1427.2	1381.5	1316.5	1340.8	1447.6	1461.1	1535.9
20°	1620.4	1635.9	1628.1	1602.9	1570.9	1502.9	1421.3	1397.1	1500.0	1509.7	1616.5
22.5°	1772.8	1789.3	1774.7	1750.5	1724.2	1640.8	1535.9	1466.0	1543.7	1564.1	1694.2
25°	1955.3	1970.8	1957.3	1919.4	1886.4	1784.4	1659.2	1543.7	1586.4	1608.7	1757.3
27.5°	2100.0	2111.6	2124.2	2101.9	2051.4	1945.6	1787.4	1624.2	1629.1	1652.4	1815.5
30°	2229.1	2258.2	2268.9	2271.8	2229.1	2110.7	1918.4	1707.7	1666.0	1690.3	1873.8
32.5°	2405.8	2449.5	2432.0	2449.5	2424.2	2266.0	2054.3	1794.2	1713.6	1735.9	1929.1
35°	2664.0	2699.0	2653.4	2639.8	2599.0	2423.3	2185.4	1883.5	1776.7	1800.9	1981.5
37.5°	2941.7	2981.5	2915.5	2861.1	2783.5	2578.6	2298.0	2000.9	1864.1	1883.5	2030.1
40°	3184.4	3217.4	3160.2	3088.3	2958.2	2715.5	2395.1	2083.5	1951.4	1975.7	2086.4
42.5°	3408.7	3430.1	3366.0	3297.0	3123.3	2838.8	2500.0	2170.8	2053.4	2076.7	2132.0
45°	3635.9	3652.4	3563.1	3465.0	3261.1	2951.4	2615.5	2293.2	2202.9	2234.0	2205.8
47.5°	3676.6	3681.5	3666.0	3600.0	3369.9	3059.2	2758.2	2457.2	2431.0	2465.0	2333.0
50°	3394.1	3437.8	3533.9	3599.0	3413.5	3149.5	2900.9	2692.2	2745.6	2789.3	2597.1
52.5°	2845.6	2887.3	3109.7	3356.3	3308.7	3169.9	3054.3	2990.3	3189.3	3241.7	2956.3
55°	2267.0	2303.9	2538.8	2894.1	2969.9	3076.7	3218.4	3370.8	3755.3	3790.2	3350.4
57.5°	1867.0	1887.4	2055.3	2397.1	2518.4	2778.6	3306.8	3823.2	4331.0	4384.4	3693.2
60°	1531.0	1553.4	1678.6	1960.2	2121.3	2352.4	3236.8	4269.8	5018.4	5018.4	4133.0
62.5°	1152.4	1171.8	1288.3	1508.7	1779.6	1991.2	3013.6	4566.0	5536.8	5513.5	4451.4
65°	791.3	806.8	891.2	1037.8	1281.5	1697.1	2708.7	4569.8	5880.5	5849.4	4587.3
66°	664.1	677.7	749.5	867.9	1072.8	1539.8	2600.9	4487.3	5952.3	5908.7	4530.0
67.5°	524.3	534.0	581.5	651.4	786.4	1246.6	2431.0	4253.3	5945.6	5919.3	4384.4
70°	374.8	381.5	416.5	431.1	465.0	721.3	1931.0	3725.2	5468.9	5476.6	3811.6
72.5°	290.3	301.0	322.3	325.2	317.5	383.5	1171.8	3107.7	4473.7	4470.8	2829.1
75°	234.0	239.8	250.5	256.3	254.4	247.6	496.1	2318.4	3079.6	3115.5	1584.4
77.5°	184.5	183.5	193.2	201.0	206.8	194.2	227.2	1359.2	1614.5	1568.9	595.1
80°	135.9	135.9	149.5	152.4	161.2	163.1	151.5	524.3	554.4	503.9	154.4
82.5°	89.3	89.3	103.9	105.8	114.6	127.2	109.7	157.3	153.4	145.6	69.9
85°	48.5	46.6	51.5	58.3	63.1	74.8	66.0	78.6	80.6	79.6	46.6
87.5°	9.7	8.7	13.6	15.5	17.5	23.3	21.4	32.0	44.7	43.7	20.4
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: P1210709

CATALOG NUMBER: ARCH3-50-722-U-T2RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9	1236.9
2.5°	1244.6	1243.7	1254.4	1267.0	1281.5	1290.3	1294.2	1301.0	1296.1	1298.0	1303.9
5°	1263.1	1266.0	1281.5	1298.0	1304.8	1300.0	1289.3	1285.4	1276.7	1274.7	1272.8
7.5°	1290.3	1295.1	1310.7	1314.5	1294.2	1260.2	1235.9	1222.3	1207.8	1203.9	1201.9
10°	1334.9	1337.8	1341.7	1301.9	1251.4	1205.8	1175.7	1163.1	1153.4	1145.6	1147.6
12.5°	1391.2	1389.3	1359.2	1276.7	1204.8	1158.2	1137.8	1130.1	1123.3	1118.4	1117.5
15°	1462.1	1448.5	1362.1	1241.7	1161.1	1122.3	1107.8	1104.8	1097.1	1097.1	1096.1
17.5°	1534.0	1499.0	1360.2	1204.8	1119.4	1098.0	1089.3	1087.4	1085.4	1084.5	1087.4
20°	1605.8	1543.7	1344.6	1159.2	1090.3	1077.7	1075.7	1076.7	1074.7	1077.7	1075.7
22.5°	1668.9	1572.8	1315.5	1110.7	1069.9	1068.9	1064.1	1066.0	1072.8	1073.8	1076.7
25°	1717.5	1583.5	1272.8	1066.0	1055.3	1053.4	1059.2	1067.0	1072.8	1073.8	1078.6
27.5°	1757.3	1577.6	1219.4	1031.1	1030.1	1040.8	1058.2	1061.2	1062.1	1062.1	1058.2
30°	1787.4	1565.0	1151.4	992.2	997.1	1023.3	1039.8	1039.8	1032.0	1030.1	1035.9
32.5°	1794.2	1548.5	1077.7	952.4	960.2	991.2	1011.6	1004.8	996.1	996.1	1000.0
35°	1800.0	1526.2	1018.4	898.0	909.7	946.6	966.0	952.4	942.7	939.8	938.8
37.5°	1798.0	1517.5	965.0	829.1	844.6	880.6	893.2	880.6	866.0	859.2	867.9
40°	1800.0	1511.6	898.0	753.4	768.9	790.3	806.8	797.1	783.5	766.0	774.7
42.5°	1811.6	1519.4	824.3	679.6	679.6	691.3	719.4	712.6	679.6	672.8	680.6
45°	1873.8	1561.1	750.5	605.8	595.1	602.9	632.0	602.9	582.5	582.5	589.3
47.5°	2024.2	1638.8	685.4	540.8	515.5	531.1	538.8	511.6	496.1	492.2	499.0
50°	2331.0	1794.2	646.6	487.4	456.3	468.0	463.1	462.1	446.6	448.5	452.4
52.5°	2797.0	2097.1	634.9	461.2	422.3	425.2	420.4	422.3	419.4	429.1	432.0
55°	3304.8	2416.5	649.5	465.0	399.0	378.6	380.6	390.3	401.9	417.5	420.4
57.5°	3684.4	2576.7	687.4	491.3	369.9	338.8	343.7	362.1	384.5	397.1	403.9
60°	3966.9	2557.2	742.7	498.1	334.9	302.9	311.6	338.8	358.2	368.9	375.7
62.5°	4059.2	2435.9	756.3	448.5	289.3	268.9	290.3	318.4	327.2	338.8	343.7
65°	3983.4	2264.0	657.3	364.1	254.4	243.7	274.8	296.1	307.8	313.6	314.6
66°	3894.1	2161.1	603.9	331.1	241.7	235.9	268.9	286.4	298.1	297.1	298.1
67.5°	3698.0	1945.6	517.5	284.5	223.3	224.3	259.2	270.9	274.8	271.8	271.8
70°	3031.0	1369.9	370.9	215.5	196.1	209.7	233.0	235.9	244.7	240.8	240.8
72.5°	1868.9	672.8	248.5	165.0	174.8	196.1	195.1	204.9	225.2	231.1	234.9
75°	918.4	272.8	164.1	139.8	156.3	164.1	162.1	186.4	215.5	240.8	249.5
77.5°	348.5	135.9	114.6	122.3	126.2	123.3	129.1	168.9	215.5	261.2	269.9
80°	107.8	94.2	90.3	101.0	95.1	90.3	97.1	139.8	182.5	198.1	198.1
82.5°	65.0	73.8	69.9	68.9	64.1	65.0	69.9	100.0	140.8	147.6	147.6
85°	45.6	48.5	39.8	37.9	36.9	35.9	35.9	58.3	83.5	82.5	85.4
87.5°	17.5	19.4	14.6	14.6	13.6	9.7	7.8	9.7	9.7	6.8	4.9
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)