

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: P1210729

Luminaire Tested: **ARCH3-50-750-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210729
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: ARCH3-50-750-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9054 lumens
Efficiency: N/A
Efficacy: 168.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

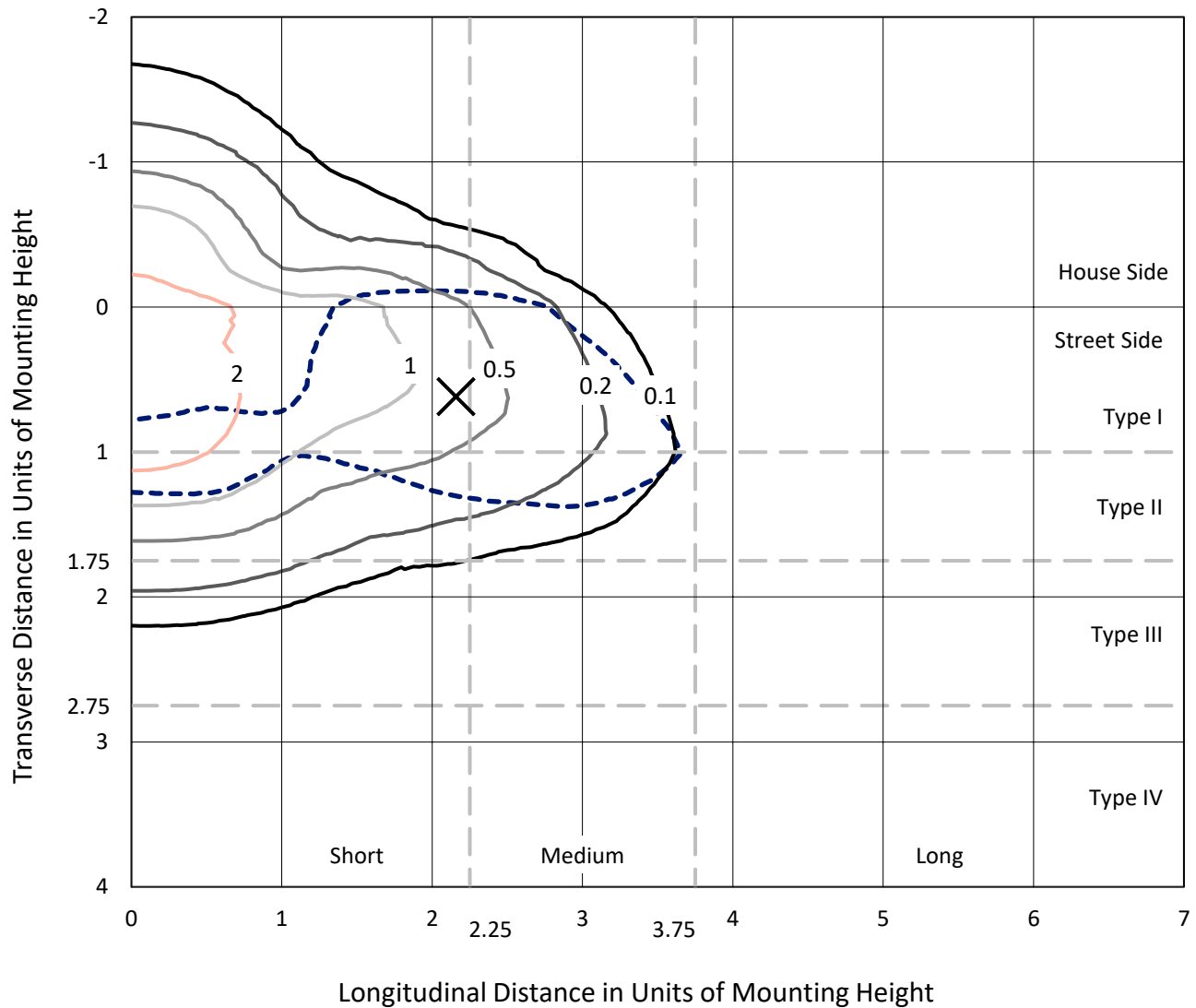


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Iso-Footcandle Lines of Horizontal Illumination

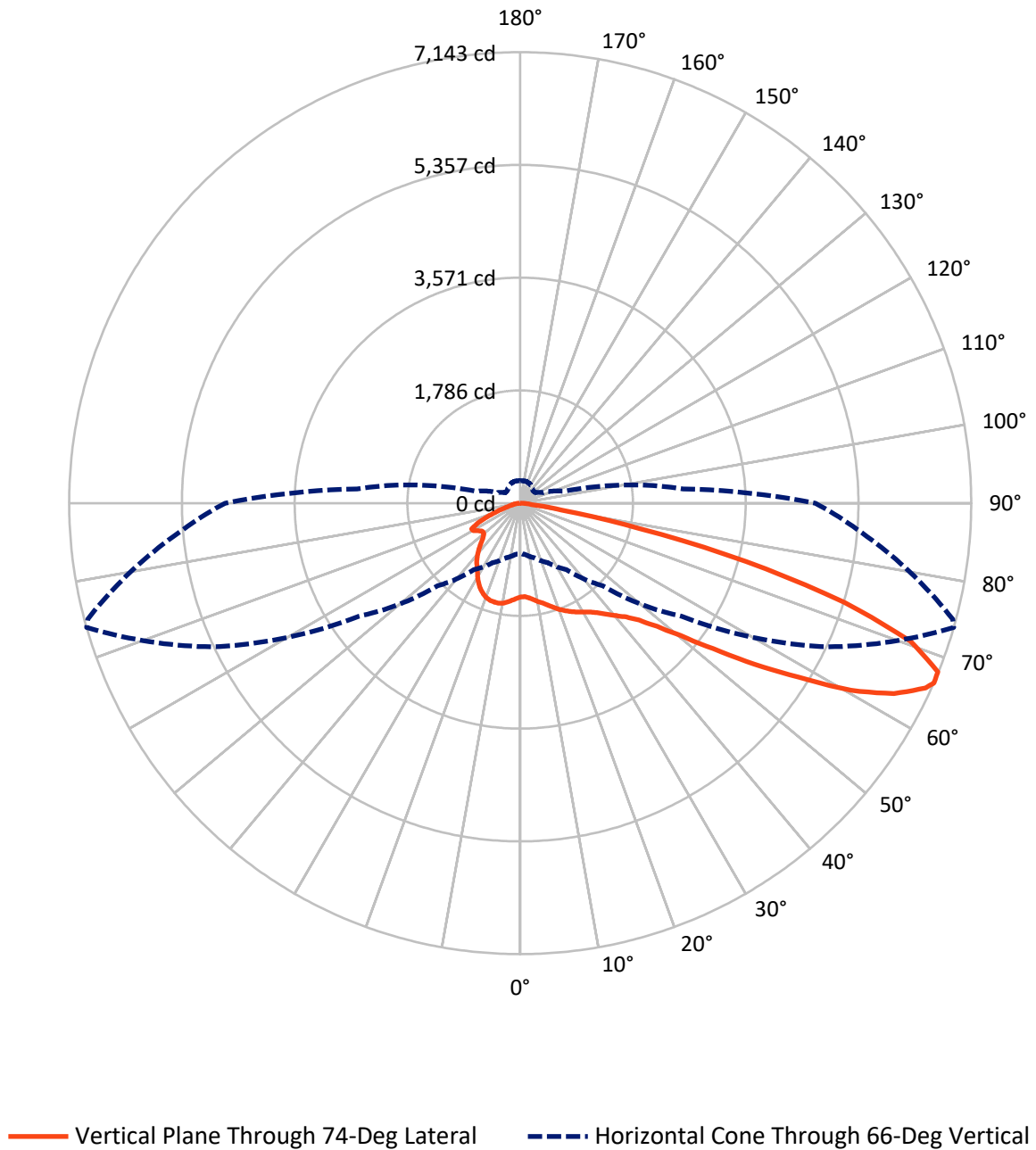
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2204.9	0.0	2204.9
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	6849.1	0.0	6849.1
	% Fixture	75.6	0.0	75.6
Total	Lumens	9054.0	0.0	9054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.6
10°-20°	435.4	4.8
20°-30°	817.0	9.0
30°-40°	1256.8	13.9
40°-50°	1690.5	18.7
50°-60°	1999.2	22.1
60°-70°	1849.4	20.4
70°-80°	778.0	8.6
80°-90°	86.1	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°	9054.0	100.0
0°-180°	9054.0	100.0

Coefficient of Utilization



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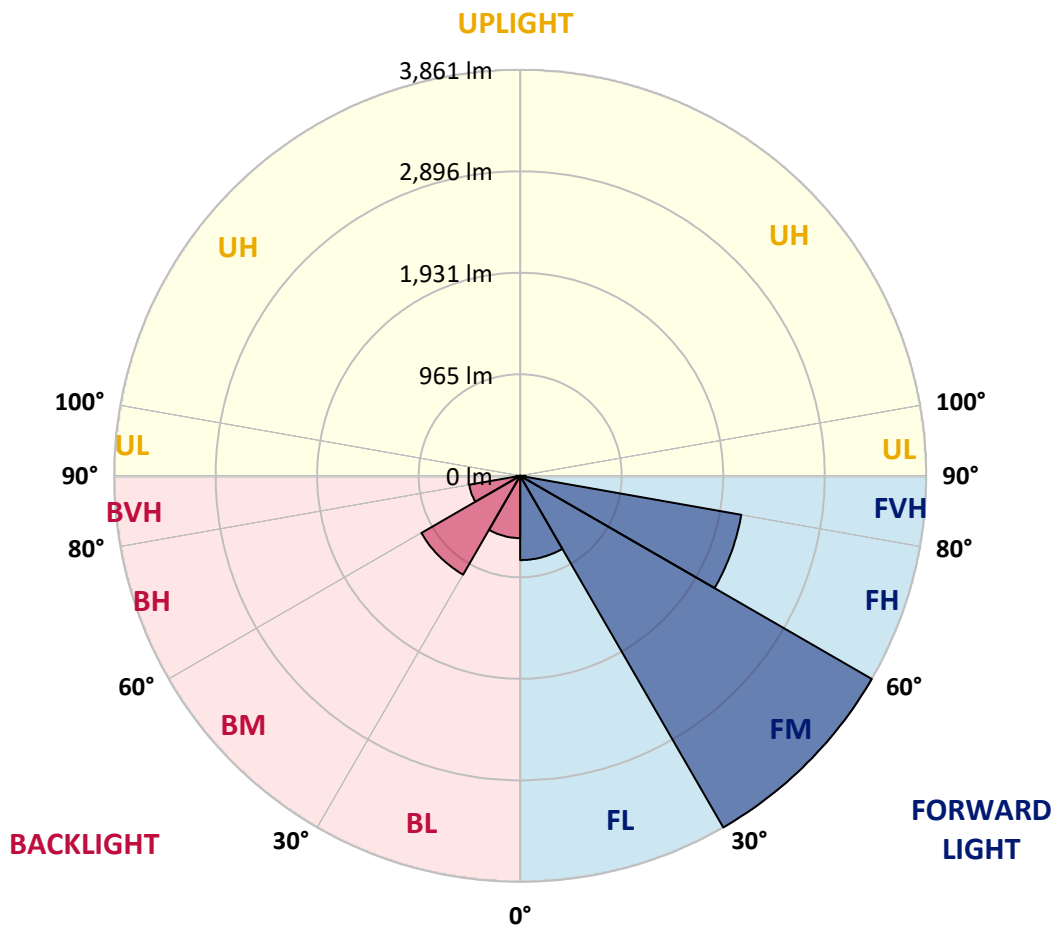
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.4	8.9			
FM	(30°-60°)	3861.0	42.6			
FH	(60°-80°)	2135.2	23.6			G2/5000
FVH	(80°-90°)	51.5	0.6			G1/100
BL	(0°-30°)	592.6	6.5	B2/1000		
BM	(30°-60°)	1085.5	12.0	B2/2500		
BH	(60°-80°)	492.2	5.4	B1/500		G1/500
BVH	(80°-90°)	34.6	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3
2.5°	1479.6	1477.3	1481.9	1488.9	1492.4	1486.6	1484.3	1483.1	1483.1	1479.6	1485.4
5°	1409.7	1408.5	1419.0	1431.8	1456.3	1473.8	1497.1	1511.0	1506.4	1499.4	1504.1
7.5°	1318.8	1316.5	1329.3	1353.8	1387.6	1426.0	1483.1	1527.4	1544.8	1542.5	1541.3
10°	1353.8	1351.4	1350.3	1343.3	1354.9	1392.2	1451.6	1529.7	1589.1	1590.3	1591.4
12.5°	1474.9	1480.8	1474.9	1452.8	1427.2	1413.2	1448.1	1535.5	1626.4	1633.4	1662.5
15°	1640.4	1634.5	1622.9	1597.3	1557.6	1515.7	1490.1	1562.3	1680.0	1685.8	1749.9
17.5°	1786.0	1790.7	1783.7	1759.2	1712.6	1657.8	1579.8	1608.9	1737.1	1753.4	1843.1
20°	1944.4	1963.1	1953.8	1923.5	1885.0	1803.5	1705.6	1676.5	1800.0	1811.6	1939.8
22.5°	2127.3	2147.2	2129.7	2100.6	2069.1	1968.9	1843.1	1759.2	1852.4	1876.9	2033.0
25°	2346.4	2365.0	2348.7	2303.3	2263.7	2141.3	1991.0	1852.4	1903.7	1930.5	2108.7
27.5°	2520.0	2533.9	2549.1	2522.3	2461.7	2334.7	2144.8	1949.1	1954.9	1982.9	2178.6
30°	2674.9	2709.9	2722.7	2726.2	2674.9	2532.8	2302.1	2049.3	1999.2	2028.3	2248.5
32.5°	2887.0	2939.4	2918.4	2939.4	2909.1	2719.2	2465.2	2153.0	2056.3	2083.1	2314.9
35°	3196.8	3238.8	3184.0	3167.7	3118.8	2907.9	2622.5	2260.2	2132.0	2161.1	2377.8
37.5°	3530.0	3577.8	3498.6	3433.4	3340.1	3094.3	2757.6	2401.1	2236.9	2260.2	2436.1
40°	3821.3	3860.9	3792.2	3706.0	3549.9	3258.6	2874.1	2500.2	2341.7	2370.8	2503.7
42.5°	4090.4	4116.1	4039.2	3956.5	3747.9	3406.6	3000.0	2605.0	2464.0	2492.0	2558.4
45°	4363.0	4382.9	4275.7	4158.0	3913.3	3541.7	3138.6	2751.8	2643.5	2680.7	2647.0
47.5°	4412.0	4417.8	4399.2	4319.9	4043.8	3671.0	3309.9	2948.7	2917.2	2958.0	2799.6
50°	4073.0	4125.4	4240.7	4318.8	4096.3	3779.4	3481.1	3230.6	3294.7	3347.1	3116.5
52.5°	3414.7	3464.8	3731.6	4027.5	3970.4	3803.8	3665.2	3588.3	3827.1	3890.0	3547.5
55°	2720.4	2764.6	3046.6	3473.0	3563.8	3692.0	3862.1	4045.0	4506.3	4548.3	4020.5
57.5°	2240.4	2264.8	2466.4	2876.5	3022.1	3334.3	3968.1	4587.9	5197.2	5261.3	4431.8
60°	1837.3	1864.1	2014.3	2352.2	2545.6	2822.9	3884.2	5123.8	6022.1	6022.1	4959.5
62.5°	1382.9	1406.2	1546.0	1810.5	2135.5	2389.5	3616.3	5479.1	6644.2	6616.2	5341.7
65°	949.5	968.1	1069.5	1245.4	1537.8	2036.5	3250.4	5483.8	7056.6	7019.3	5504.8
66°	796.9	813.2	899.4	1041.5	1287.4	1847.7	3121.1	5384.8	7142.8	7090.4	5436.0
67.5°	629.1	640.8	697.9	781.7	943.7	1495.9	2917.2	5104.0	7134.7	7103.2	5261.3
70°	449.7	457.9	499.8	517.3	558.1	865.6	2317.2	4470.2	6562.6	6571.9	4573.9
72.5°	348.3	361.2	386.8	390.3	381.0	460.2	1406.2	3729.3	5368.5	5365.0	3394.9
75°	280.8	287.8	300.6	307.6	305.2	297.1	595.3	2782.1	3695.5	3738.6	1901.3
77.5°	221.4	220.2	231.8	241.2	248.2	233.0	272.6	1631.0	1937.4	1882.7	714.2
80°	163.1	163.1	179.4	182.9	193.4	195.7	181.7	629.1	665.2	604.7	185.2
82.5°	107.2	107.2	124.7	127.0	137.5	152.6	131.6	188.7	184.1	174.8	83.9
85°	58.3	55.9	61.7	69.9	75.7	89.7	79.2	94.4	96.7	95.5	55.9
87.5°	11.7	10.5	16.3	18.6	21.0	28.0	25.6	38.4	53.6	52.4	24.5
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°	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3	1484.3
2.5°	1493.6	1492.4	1505.2	1520.4	1537.8	1548.3	1553.0	1561.1	1555.3	1557.6	1564.6
5°	1515.7	1519.2	1537.8	1557.6	1565.8	1560.0	1547.2	1542.5	1532.0	1529.7	1527.4
7.5°	1548.3	1554.2	1572.8	1577.5	1553.0	1512.2	1483.1	1466.8	1449.3	1444.6	1442.3
10°	1601.9	1605.4	1610.1	1562.3	1501.7	1447.0	1410.9	1395.7	1384.1	1374.7	1377.1
12.5°	1669.5	1667.2	1631.0	1532.0	1445.8	1389.9	1365.4	1356.1	1347.9	1342.1	1341.0
15°	1754.5	1738.2	1634.5	1490.1	1393.4	1346.8	1329.3	1325.8	1316.5	1316.5	1315.3
17.5°	1840.8	1798.8	1632.2	1445.8	1343.3	1317.7	1307.2	1304.8	1302.5	1301.3	1304.8
20°	1927.0	1852.4	1613.6	1391.0	1308.3	1293.2	1290.9	1292.0	1289.7	1293.2	1290.9
22.5°	2002.7	1887.4	1578.6	1332.8	1283.9	1282.7	1276.9	1279.2	1287.4	1288.5	1292.0
25°	2060.9	1900.2	1527.4	1279.2	1266.4	1264.1	1271.1	1280.4	1287.4	1288.5	1294.4
27.5°	2108.7	1893.2	1463.3	1237.3	1236.1	1248.9	1269.9	1273.4	1274.5	1274.5	1269.9
30°	2144.8	1878.0	1381.7	1190.7	1196.5	1227.9	1247.7	1247.7	1238.4	1236.1	1243.1
32.5°	2153.0	1858.2	1293.2	1142.9	1152.2	1189.5	1214.0	1205.8	1195.3	1195.3	1200.0
35°	2160.0	1831.4	1222.1	1077.7	1091.6	1135.9	1159.2	1142.9	1131.2	1127.8	1126.6
37.5°	2157.6	1820.9	1158.0	994.9	1013.6	1056.7	1071.8	1056.7	1039.2	1031.1	1041.5
40°	2160.0	1814.0	1077.7	904.1	922.7	948.3	968.1	956.5	940.2	919.2	929.7
42.5°	2174.0	1823.3	989.1	815.5	815.5	829.5	863.3	855.1	815.5	807.4	816.7
45°	2248.5	1873.4	900.6	727.0	714.2	723.5	758.4	723.5	699.0	699.0	707.2
47.5°	2429.1	1966.6	822.5	648.9	618.6	637.3	646.6	614.0	595.3	590.7	598.8
50°	2797.2	2153.0	775.9	584.8	547.6	561.5	555.7	554.6	535.9	538.2	542.9
52.5°	3356.5	2516.5	761.9	553.4	506.8	510.3	504.5	506.8	503.3	514.9	518.4
55°	3965.8	2899.8	779.4	558.1	478.8	454.4	456.7	468.3	482.3	501.0	504.5
57.5°	4421.3	3092.0	824.8	589.5	443.9	406.6	412.4	434.6	461.4	476.5	484.7
60°	4760.3	3068.7	891.2	597.7	401.9	363.5	374.0	406.6	429.9	442.7	450.9
62.5°	4871.0	2923.1	907.6	538.2	347.2	322.7	348.3	382.1	392.6	406.6	412.4
65°	4780.1	2716.9	788.7	436.9	305.2	292.4	329.7	355.3	369.3	376.3	377.5
66°	4672.9	2593.4	724.7	397.3	290.1	283.1	322.7	343.7	357.7	356.5	357.7
67.5°	4437.6	2334.7	621.0	341.4	268.0	269.1	311.1	325.0	329.7	326.2	326.2
70°	3637.2	1643.9	445.0	258.6	235.3	251.6	279.6	283.1	293.6	288.9	288.9
72.5°	2242.7	807.4	298.2	198.1	209.7	235.3	234.2	245.8	270.3	277.3	281.9
75°	1102.1	327.4	196.9	167.8	187.6	196.9	194.6	223.7	258.6	288.9	299.4
77.5°	418.2	163.1	137.5	146.8	151.5	148.0	154.9	202.7	258.6	313.4	323.9
80°	129.3	113.0	108.3	121.2	114.2	108.3	116.5	167.8	219.0	237.7	237.7
82.5°	78.1	88.5	83.9	82.7	76.9	78.1	83.9	120.0	168.9	177.1	177.1
85°	54.8	58.3	47.8	45.4	44.3	43.1	43.1	69.9	100.2	99.0	102.5
87.5°	21.0	23.3	17.5	17.5	16.3	11.7	9.3	11.7	11.7	8.2	5.8
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)