

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: P198961

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-T4W-7050-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13072 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 128
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: 28.75 FT

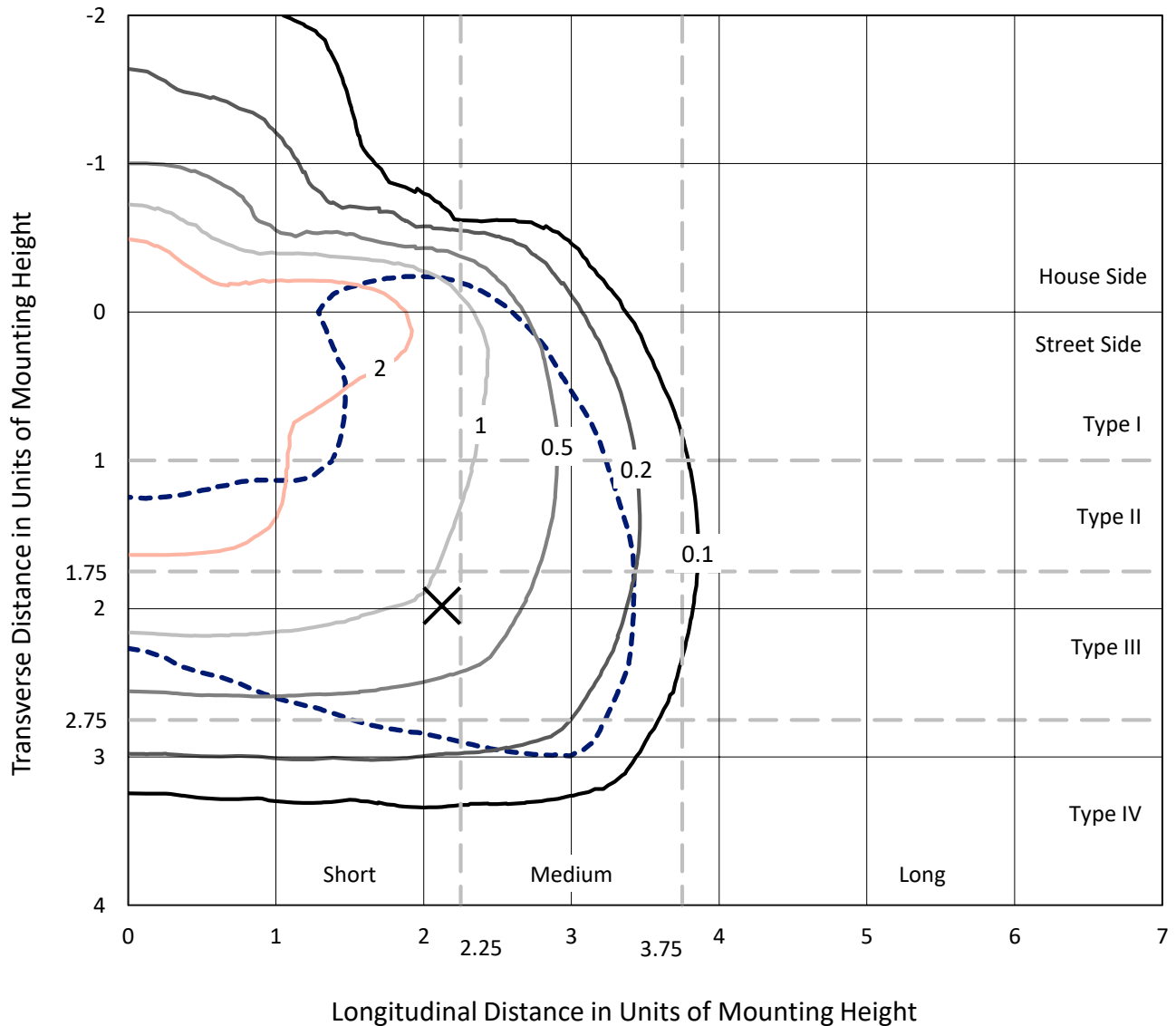


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

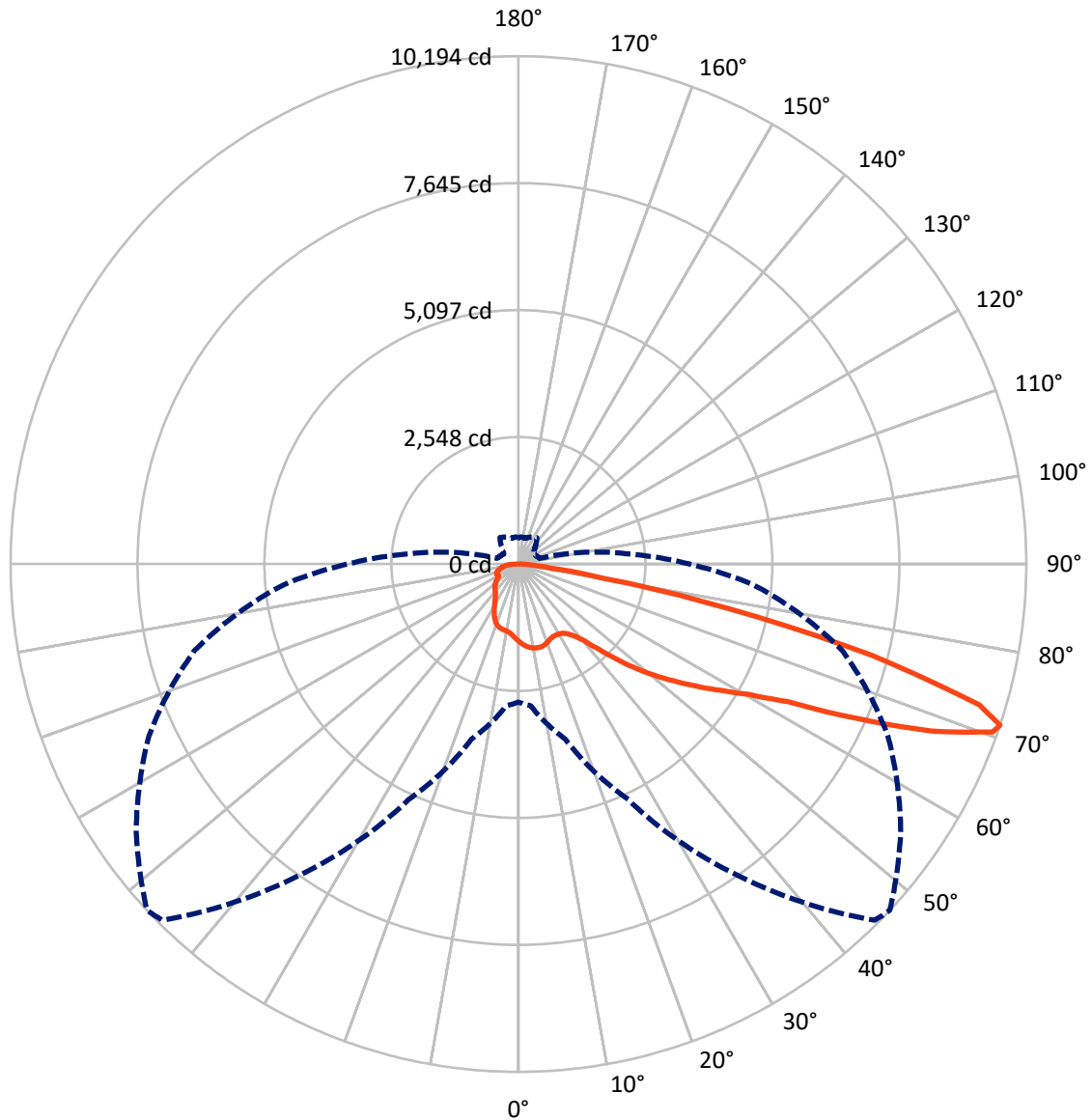


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2801.5	0.0	2801.5
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	10270.5	0.0	10270.5
	% Fixture	78.6	0.0	78.6
Total	Lumens	13072.0	0.0	13072.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.1
10°-20°	434.2	3.3
20°-30°	645.2	4.9
30°-40°	926.4	7.1
40°-50°	1642.6	12.6
50°-60°	2810.8	21.5
60°-70°	3990.3	30.5
70°-80°	2185.5	16.7
80°-90°	288.5	2.2
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°	13072.0	100.0
0°-180°	13072.0	100.0



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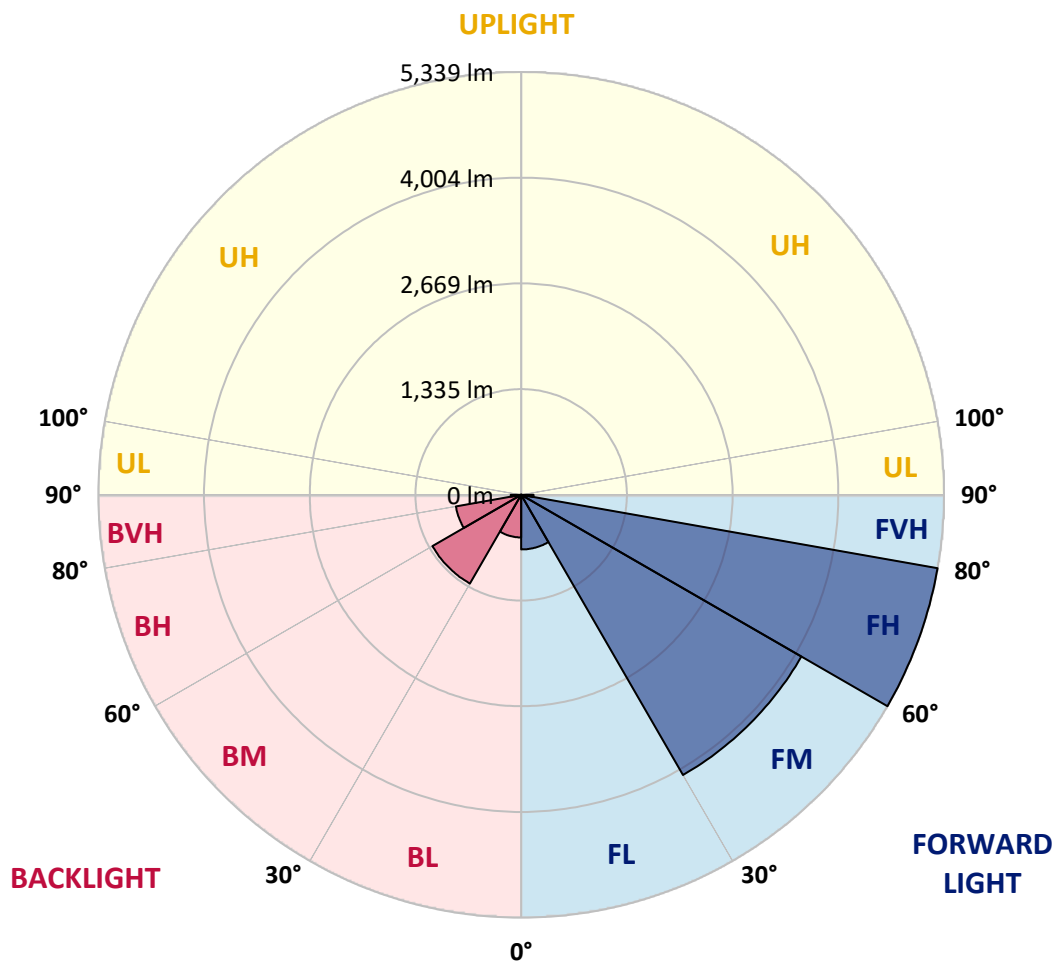
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	689.9	5.3			
FM	(30°-60°)	4085.4	31.3			
FH	(60°-80°)	5338.7	40.8			G3/7500
FVH	(80°-90°)	156.5	1.2			G2/225
BL	(0°-30°)	538.0	4.1	B2/1000		
BM	(30°-60°)	1294.5	9.9	B2/2500		
BH	(60°-80°)	837.1	6.4	B2/1000		G2/1000
BVH	(80°-90°)	132.0	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1649.4	1646.0	1647.7	1641.7	1627.3	1612.1	1612.1	1596.0	1579.0	1562.1	1543.5
5°	1751.9	1746.8	1742.5	1723.9	1696.0	1664.6	1659.5	1627.3	1592.6	1557.9	1524.0
7.5°	1837.4	1832.3	1819.6	1785.7	1745.1	1698.5	1692.6	1650.2	1604.5	1556.2	1508.7
10°	1898.4	1895.0	1870.5	1827.3	1779.8	1724.8	1714.6	1671.4	1617.2	1557.0	1496.9
12.5°	1932.3	1927.2	1897.6	1846.7	1790.8	1734.9	1724.8	1683.2	1621.4	1555.3	1485.0
15°	1918.7	1916.2	1888.2	1836.6	1780.7	1732.4	1723.9	1681.5	1618.9	1549.4	1474.0
17.5°	1861.1	1867.1	1845.0	1794.2	1748.5	1714.6	1705.3	1665.5	1606.2	1535.0	1457.1
20°	1781.5	1788.3	1777.3	1725.6	1699.3	1677.3	1672.2	1640.0	1585.0	1513.8	1436.7
22.5°	1696.8	1702.7	1703.6	1655.3	1646.8	1638.3	1634.1	1611.2	1566.3	1501.1	1423.2
25°	1638.3	1645.1	1646.8	1604.5	1609.5	1612.1	1611.2	1595.1	1563.0	1501.1	1424.9
27.5°	1623.1	1626.5	1624.8	1585.8	1595.1	1609.5	1610.4	1607.0	1576.5	1518.1	1448.6
30°	1675.6	1677.3	1656.1	1597.7	1607.0	1625.6	1626.5	1624.8	1605.3	1562.1	1502.0
32.5°	1902.6	1901.0	1828.1	1677.3	1645.1	1651.9	1654.4	1669.7	1671.4	1635.0	1579.0
35°	2248.3	2247.4	2162.7	1905.2	1753.6	1718.0	1721.4	1745.1	1766.3	1741.7	1709.5
37.5°	2628.6	2631.2	2579.5	2230.5	1987.4	1839.1	1835.7	1853.5	1891.6	1900.1	1904.3
40°	3050.5	3063.2	3060.7	2604.1	2315.2	2045.8	2011.9	1991.6	2065.3	2111.9	2172.0
42.5°	3532.5	3529.1	3530.8	3014.1	2689.6	2371.1	2308.4	2213.5	2299.1	2379.6	2511.7
45°	3946.8	3960.3	3970.5	3450.4	3109.0	2743.0	2679.5	2506.7	2583.7	2704.0	2905.6
47.5°	4363.6	4339.8	4358.5	3935.8	3575.7	3167.4	3085.2	2852.3	2924.3	3093.7	3400.4
50°	4849.0	4837.9	4753.2	4569.4	4139.9	3597.8	3490.2	3213.2	3318.2	3544.4	4011.2
52.5°	5284.4	5225.1	5159.0	5067.5	4694.8	4033.2	3896.8	3588.4	3781.6	4062.0	4769.3
55°	5443.6	5403.8	5483.5	5602.1	5281.8	4477.1	4324.6	4026.4	4304.3	4654.1	5661.4
57.5°	5613.1	5626.6	5806.2	6046.0	5837.6	4950.6	4785.4	4544.8	4877.8	5316.6	6658.4
60°	5697.8	5752.0	6110.3	6560.2	6366.2	5469.9	5311.5	5140.4	5514.0	6048.5	7653.0
62.5°	5712.2	5785.0	6292.5	6740.6	7093.8	6265.4	6082.4	5896.9	6308.6	6857.5	8373.0
65°	5447.9	5559.7	6276.4	6962.5	7757.2	7594.5	7478.4	7154.8	7372.6	7569.9	8495.8
67.5°	4671.1	4793.0	5655.4	6871.1	8289.1	8973.6	8951.6	8473.8	8194.3	7845.3	7585.2
70°	3428.3	3526.6	4355.1	5874.0	8057.0	10056.3	10095.2	9328.6	8423.8	7260.7	5640.2
71°	2772.6	2857.4	3638.4	5214.9	7604.7	10112.2	10193.5	9366.7	8185.0	6733.0	4721.9
72.5°	1725.6	1773.0	2416.0	3935.8	6548.3	9536.1	9673.4	8878.7	7432.7	5691.0	3337.7
75°	651.4	670.1	896.3	1735.8	3908.6	7164.2	7330.2	6710.1	5221.7	3248.7	1396.9
77.5°	349.9	359.2	444.7	721.8	1566.3	4106.9	4320.4	3827.3	2505.0	1136.8	571.0
80°	234.7	240.6	307.5	427.8	720.1	1563.8	1741.7	1536.7	937.8	648.9	406.6
82.5°	151.6	155.0	209.2	281.2	465.1	549.8	627.7	655.7	585.4	465.1	245.7
85°	100.0	102.5	138.1	179.6	288.0	271.1	277.9	363.4	399.0	306.7	125.4
87.5°	57.6	59.3	83.0	92.3	129.6	101.7	110.1	172.8	237.2	199.9	72.0
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°	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5	1554.5
2.5°	1535.0	1528.2	1513.0	1503.7	1499.4	1497.7	1496.0	1499.4	1499.4	1497.7	1494.3
5°	1507.0	1494.3	1468.9	1451.1	1441.8	1439.3	1442.7	1446.9	1449.4	1449.4	1446.9
7.5°	1486.7	1468.1	1434.2	1409.6	1395.2	1391.0	1400.3	1415.6	1425.7	1430.8	1431.6
10°	1469.8	1444.4	1407.1	1381.7	1369.8	1368.1	1380.0	1399.5	1420.6	1430.0	1431.6
12.5°	1454.5	1425.7	1385.1	1361.3	1352.9	1357.1	1373.2	1391.0	1415.6	1429.1	1430.0
15°	1440.1	1410.5	1367.3	1342.7	1341.0	1347.8	1363.0	1377.4	1396.1	1413.0	1413.0
17.5°	1423.2	1391.0	1346.1	1323.2	1323.2	1329.1	1339.3	1346.9	1358.8	1374.9	1374.0
20°	1402.8	1369.8	1324.1	1300.3	1295.3	1291.9	1291.9	1293.6	1303.7	1318.1	1320.7
22.5°	1387.6	1353.7	1305.4	1276.6	1253.7	1231.7	1222.4	1219.0	1228.3	1241.9	1245.3
25°	1387.6	1353.7	1299.5	1251.2	1195.3	1152.9	1135.2	1130.1	1139.4	1152.1	1157.2
27.5°	1410.5	1376.6	1313.0	1228.3	1125.8	1058.1	1036.9	1032.6	1041.1	1051.3	1056.4
30°	1463.8	1430.8	1352.0	1202.1	1048.7	959.8	936.1	931.8	936.1	940.3	946.2
32.5°	1552.8	1524.8	1415.6	1178.4	970.8	870.8	842.0	835.3	837.0	837.8	842.9
35°	1697.6	1684.9	1500.3	1150.4	897.1	798.0	768.3	754.8	753.9	758.2	764.1
37.5°	1919.6	1927.2	1609.5	1109.7	836.1	746.3	716.7	703.1	696.3	704.8	711.6
40°	2233.0	2250.8	1735.8	1054.7	786.1	715.8	684.5	671.8	662.5	659.9	663.3
42.5°	2640.5	2635.4	1864.5	984.4	731.9	695.5	662.5	648.9	633.7	614.2	609.9
45°	3123.4	3050.5	1972.1	898.0	670.1	676.0	642.1	623.5	599.8	571.0	567.6
47.5°	3693.5	3492.7	2038.2	805.6	612.5	650.6	619.3	590.4	555.7	537.1	534.5
50°	4380.5	4010.3	2084.8	711.6	560.8	618.4	587.1	548.9	515.1	510.0	509.1
52.5°	5193.7	4621.1	2142.4	626.9	520.1	576.9	554.9	515.9	488.8	491.3	491.3
55°	6058.7	5253.0	2144.1	560.0	484.6	528.6	531.1	499.8	478.6	487.1	489.6
57.5°	6847.3	5805.4	1975.5	512.5	450.7	490.5	523.5	505.7	489.6	519.3	521.8
60°	7535.2	6230.6	1612.9	473.5	422.7	476.1	540.5	542.2	538.8	619.3	625.2
62.5°	7786.8	6234.9	1145.3	440.5	407.5	484.6	576.0	578.6	578.6	653.1	664.1
65°	7434.4	5715.6	762.4	421.0	397.3	503.2	604.8	593.8	567.6	619.3	607.4
67.5°	6192.5	4449.1	557.4	408.3	382.9	504.0	630.3	602.3	557.4	601.5	581.1
70°	4256.0	2831.1	466.8	396.5	366.0	482.0	643.8	599.8	542.2	560.8	533.7
71°	3425.8	2259.3	443.0	392.2	359.2	469.3	645.5	596.4	534.5	546.4	521.8
72.5°	2256.7	1391.8	414.2	382.9	349.0	447.3	641.3	588.8	524.4	525.2	509.1
75°	890.3	576.9	372.7	361.7	320.2	411.7	622.6	572.7	504.9	487.9	481.2
77.5°	449.8	377.0	327.8	332.1	286.3	375.3	596.4	546.4	477.8	454.9	449.8
80°	328.7	286.3	280.4	288.0	248.2	339.7	563.3	510.8	443.0	466.8	456.6
82.5°	199.9	174.5	219.4	238.0	207.5	303.3	524.4	469.3	399.0	367.7	355.8
85°	94.9	102.5	158.4	175.4	153.3	242.3	479.5	423.6	348.2	300.7	305.8
87.5°	46.6	56.8	90.6	105.0	100.8	177.9	361.7	328.7	274.5	226.2	221.1
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)