

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: P198791

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
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-T4FT
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12432.9 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

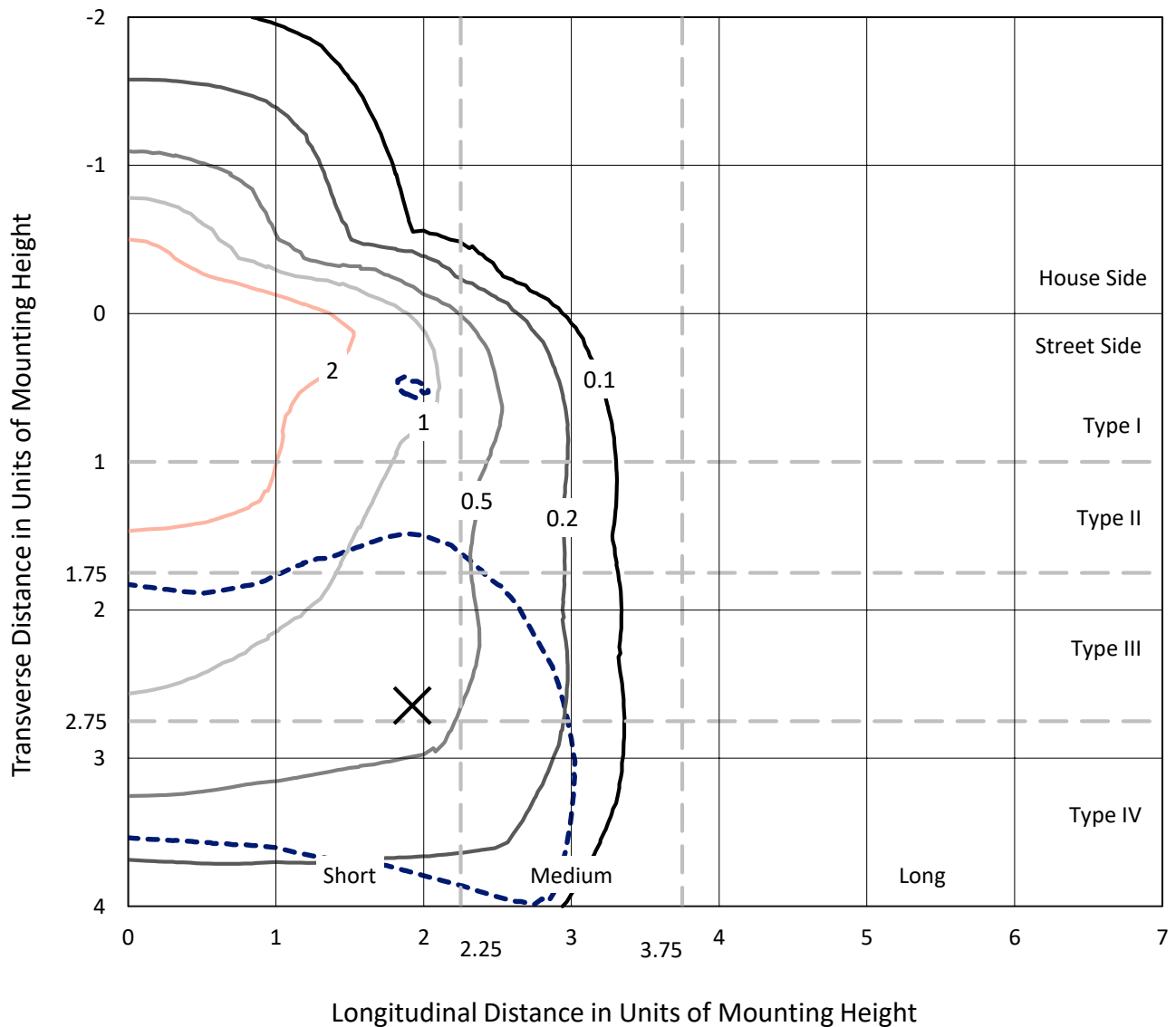
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

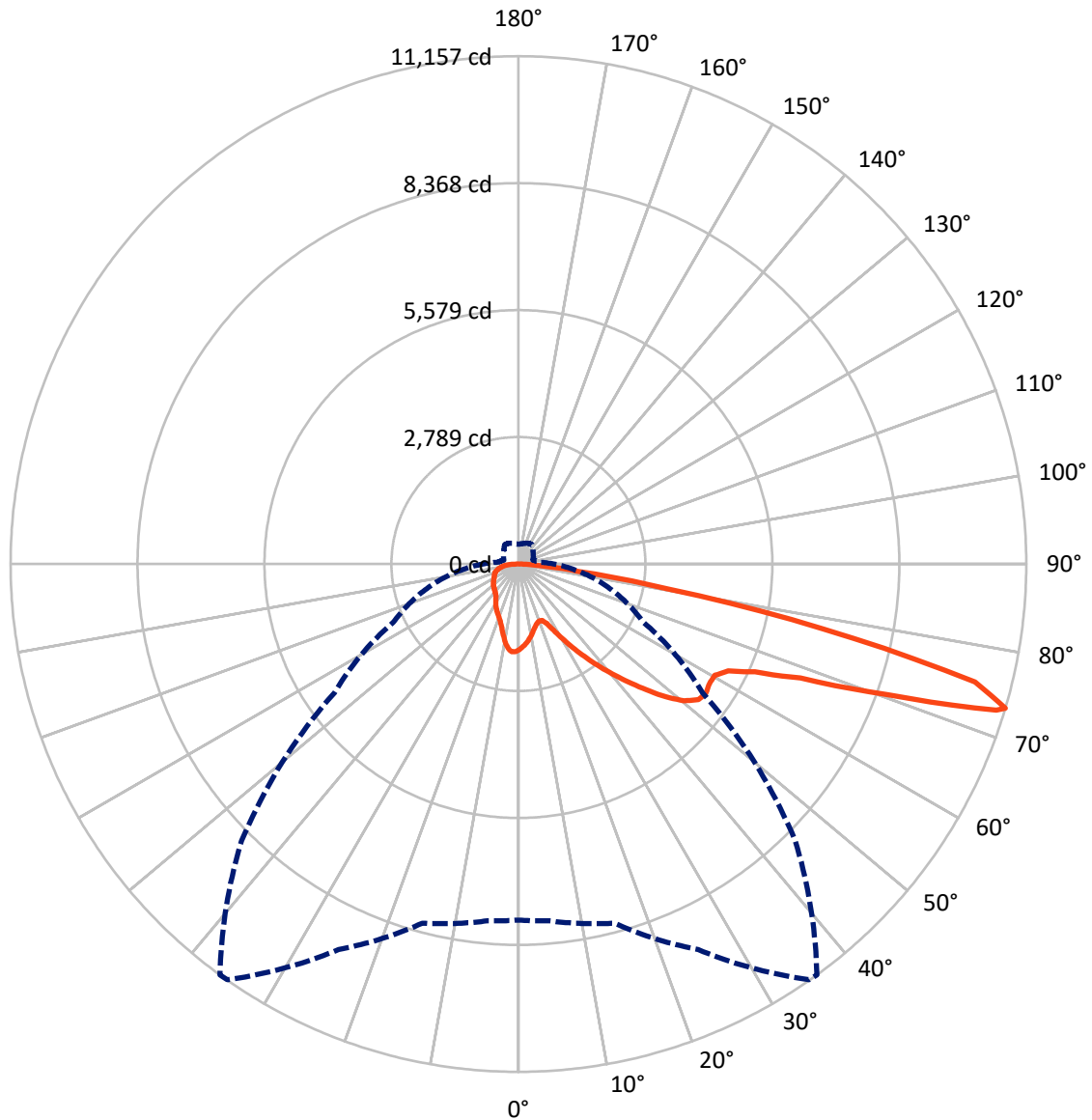


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2397.4	0.0	2397.4
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	10035.5	0.0	10035.5
	% Fixture	80.7	0.0	80.7
Total	Lumens	12432.9	0.0	12432.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	1.4
10°-20°	429.6	3.5
20°-30°	688.8	5.5
30°-40°	1139.3	9.2
40°-50°	1762.9	14.2
50°-60°	2360.0	19.0
60°-70°	3082.9	24.8
70°-80°	2518.2	20.3
80°-90°	280.3	2.3
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°	12432.9	100.0
0°-180°	12432.9	100.0



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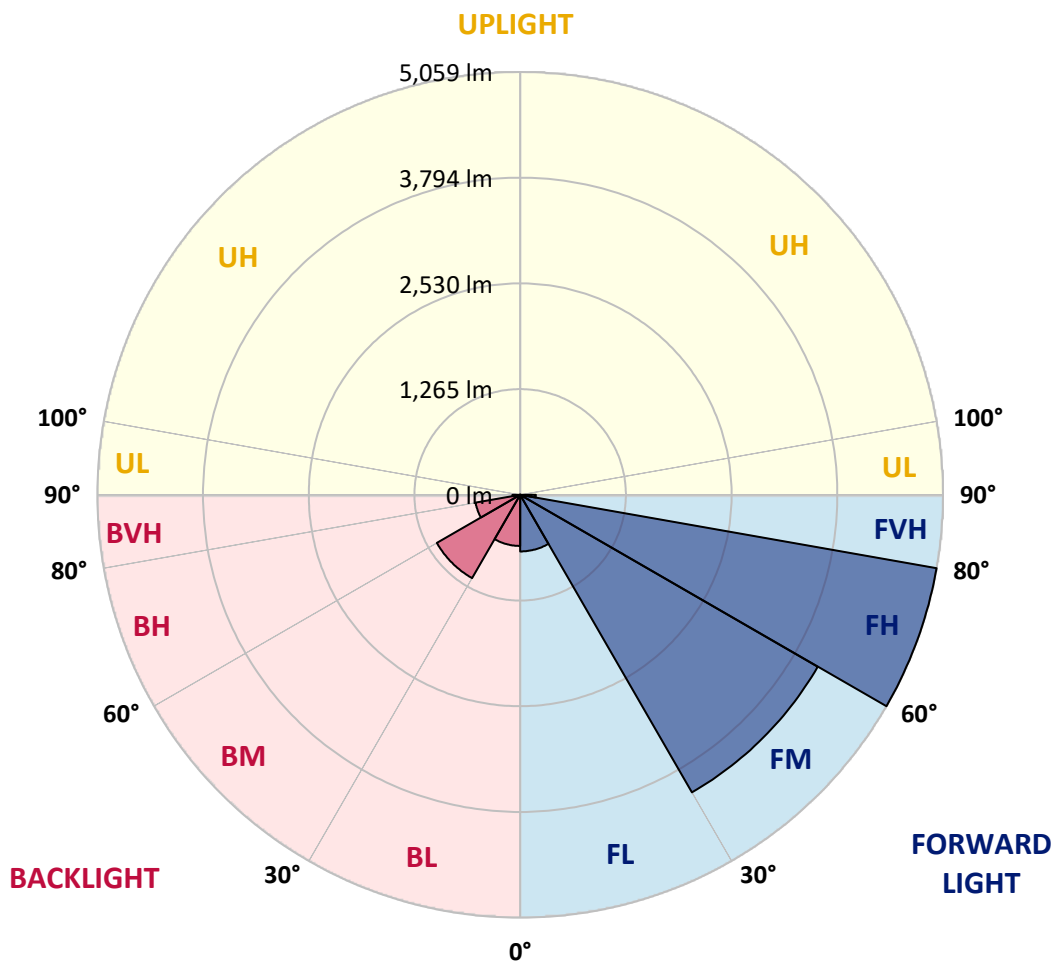
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.5	5.4			
FM (30°-60°)	4110.8	33.1			
FH (60°-80°)	5059.3	40.7			G3/7500
FVH (80°-90°)	188.0	1.5			G2/225
BL (0°-30°)	612.0	4.9	B2/1000		
BM (30°-60°)	1151.4	9.3	B2/2500		
BH (60°-80°)	541.8	4.4	B2/1000		G2/1000
BVH (80°-90°)	92.3	0.7			G1/100
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°	36°	45°	55°	65°	75°	85°
0°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1811.3	1816.0	1816.9	1822.4	1822.4	1821.6	1824.0	1833.4	1838.2	1849.3	1858.7
5°	1722.0	1727.6	1730.0	1739.4	1751.3	1752.1	1760.8	1778.9	1796.3	1820.9	1841.3
7.5°	1621.8	1628.0	1634.4	1654.1	1671.5	1673.1	1689.7	1719.0	1741.8	1771.9	1809.0
10°	1524.6	1526.1	1532.5	1557.7	1580.7	1583.0	1606.7	1639.9	1670.7	1712.6	1754.5
12.5°	1444.8	1449.5	1448.0	1466.9	1486.7	1488.3	1519.9	1561.7	1606.7	1654.1	1703.9
15°	1417.2	1416.4	1399.8	1399.0	1407.7	1409.2	1440.1	1489.0	1539.6	1598.1	1662.1
17.5°	1436.1	1429.8	1386.3	1359.5	1354.0	1355.5	1378.4	1432.1	1485.8	1553.0	1629.7
20°	1540.4	1515.9	1414.0	1349.3	1331.1	1331.1	1344.5	1387.9	1447.2	1525.4	1621.8
22.5°	1787.6	1749.8	1532.5	1417.2	1353.2	1346.8	1336.6	1369.7	1435.3	1529.3	1654.1
25°	2098.9	2080.7	1749.8	1598.1	1466.1	1445.6	1377.7	1389.5	1459.9	1572.0	1742.6
27.5°	2387.3	2355.7	2034.9	1861.2	1674.7	1643.1	1499.3	1451.2	1518.3	1650.9	1870.6
30°	2555.4	2534.2	2327.9	2162.1	1940.1	1899.8	1693.6	1572.8	1622.5	1781.4	2052.2
32.5°	2738.7	2726.1	2621.8	2470.9	2227.7	2181.0	1944.8	1771.0	1782.1	1954.3	2271.1
35°	2916.4	2933.1	2873.8	2763.2	2537.3	2493.9	2282.1	2030.1	1978.8	2148.6	2504.9
37.5°	3129.7	3133.7	3096.6	3024.7	2862.7	2827.2	2652.6	2306.7	2192.9	2355.7	2730.9
40°	3555.6	3493.2	3347.8	3290.9	3194.6	3172.4	2973.3	2560.2	2392.0	2568.1	2944.2
42.5°	4016.1	3918.9	3691.4	3598.2	3559.5	3539.0	3240.4	2729.2	2578.3	2780.6	3153.5
45°	4387.3	4308.4	4085.6	3970.3	3975.0	3941.8	3473.4	2880.1	2780.6	2993.9	3387.3
47.5°	4753.1	4621.2	4371.6	4355.0	4410.2	4361.2	3696.1	3031.0	2991.5	3226.2	3621.1
50°	4776.8	4656.7	4555.6	4688.3	4783.1	4722.2	3898.4	3228.5	3210.3	3507.4	3922.9
52.5°	4488.5	4471.1	4625.2	4848.7	5005.9	4951.4	4063.5	3431.5	3433.8	3858.9	4290.2
55°	4383.4	4361.2	4546.1	4821.1	5033.5	5001.1	4186.7	3660.6	3681.9	4285.4	4684.4
57.5°	4560.3	4505.1	4541.4	4768.9	4968.8	4949.8	4314.7	3914.9	3953.7	4776.8	5048.6
60°	5109.3	4996.4	4803.7	4846.3	4971.1	4960.1	4497.9	4198.6	4263.4	5288.7	5279.2
62.5°	5931.7	5803.7	5411.1	5221.6	5193.9	5172.6	4800.5	4546.9	4579.3	5658.4	5144.9
65°	6833.8	6696.3	6229.5	5919.1	5756.3	5710.5	5288.7	4967.1	4764.2	5657.6	4622.0
67.5°	7846.5	7701.2	7235.9	6939.7	6763.5	6685.3	6081.0	5306.9	4704.1	5178.9	3698.5
70°	8883.7	8745.5	8532.2	8635.6	8713.1	8593.8	7329.1	5419.8	4272.8	4060.3	2483.6
72.5°	8333.2	8322.1	8484.0	9465.2	10957.3	10981.1	8575.6	5100.6	3301.2	2413.2	1323.9
73°	7822.0	7868.6	8168.8	9342.7	11149.2	11157.2	8600.2	4935.5	3031.0	2079.1	1162.8
75°	4052.4	4368.4	5482.2	7575.6	10323.8	10361.0	7581.1	3736.4	1806.6	1154.9	783.6
77.5°	1085.4	1071.1	1766.3	3690.6	6882.8	6833.8	4790.3	1809.0	865.8	724.4	549.8
80°	372.0	376.8	601.2	1350.0	3212.7	3327.2	2079.1	789.1	569.6	504.7	389.4
82.5°	189.6	195.9	314.4	574.3	1343.6	1315.2	669.1	464.5	381.6	306.5	218.0
85°	101.1	104.2	173.0	297.8	493.0	498.5	235.4	248.1	242.5	173.8	107.4
87.5°	49.7	51.4	83.0	131.1	182.5	176.2	82.1	107.4	119.3	98.0	59.2
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°	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3	1883.3
2.5°	1870.6	1870.6	1880.9	1898.2	1910.9	1922.7	1930.6	1943.3	1950.4	1949.5	1948.8
5°	1858.0	1865.9	1886.4	1907.7	1921.9	1931.4	1931.4	1937.0	1937.0	1934.6	1931.4
7.5°	1828.7	1842.1	1872.2	1891.1	1895.1	1884.8	1864.2	1848.5	1828.7	1818.5	1814.5
10°	1782.1	1799.5	1837.4	1846.1	1825.6	1789.2	1739.4	1696.8	1658.9	1641.5	1636.0
12.5°	1736.3	1759.2	1794.8	1781.4	1732.4	1661.3	1584.7	1526.1	1483.5	1466.9	1461.4
15°	1698.4	1726.0	1753.6	1711.8	1626.5	1527.8	1443.2	1388.8	1356.3	1343.6	1340.6
17.5°	1673.1	1705.5	1715.0	1636.7	1518.3	1407.7	1332.6	1297.1	1282.9	1277.4	1275.7
20°	1674.7	1711.0	1688.1	1564.1	1414.0	1302.6	1252.8	1242.6	1242.6	1242.6	1241.8
22.5°	1718.1	1749.8	1677.0	1496.2	1313.7	1214.1	1192.9	1201.5	1207.8	1207.8	1207.1
25°	1808.2	1825.6	1684.9	1430.6	1219.7	1137.5	1138.3	1154.9	1160.4	1160.4	1158.8
27.5°	1945.7	1931.4	1699.1	1357.9	1127.3	1068.0	1079.1	1094.0	1098.0	1095.7	1094.9
30°	2117.8	2060.9	1711.0	1272.6	1040.3	1003.2	1012.7	1021.4	1018.2	1012.7	1011.9
32.5°	2310.5	2192.9	1703.9	1177.0	963.7	936.1	941.6	946.3	941.6	928.2	928.2
35°	2501.7	2312.2	1665.2	1072.8	902.9	871.3	870.5	885.6	884.8	868.9	869.7
37.5°	2669.2	2406.2	1590.2	977.1	850.8	823.9	827.1	836.6	841.3	820.0	817.5
40°	2815.4	2470.9	1484.3	895.8	808.9	810.5	801.8	786.8	781.2	771.8	770.2
42.5°	2952.8	2515.9	1372.1	827.9	787.6	805.8	776.5	740.9	726.0	734.7	740.2
45°	3087.9	2566.5	1264.0	771.8	760.7	791.6	751.3	711.8	694.4	698.3	703.8
47.5°	3253.0	2636.9	1133.5	711.8	719.6	765.5	735.4	692.7	666.8	650.9	646.2
50°	3470.3	2738.7	964.5	646.9	676.2	737.0	722.0	665.1	636.7	605.1	597.2
52.5°	3742.0	2835.1	793.9	594.8	640.7	712.5	699.9	641.4	606.7	568.8	562.4
55°	4012.9	2848.5	646.9	549.8	600.4	679.3	673.0	622.5	573.5	542.7	536.3
57.5°	4202.5	2721.4	548.2	511.9	561.6	638.3	648.6	599.6	545.8	522.1	518.2
60°	4205.7	2417.2	488.2	486.6	532.4	602.7	623.3	572.8	528.5	512.7	509.5
62.5°	3871.6	1948.0	449.5	467.7	511.1	573.5	604.3	557.7	524.6	518.2	515.1
65°	3245.1	1439.3	418.7	450.3	491.3	549.0	588.5	553.0	522.9	520.6	518.2
67.5°	2395.9	986.6	392.6	428.1	469.2	523.8	573.5	545.8	513.4	522.9	519.8
70°	1507.2	658.8	368.2	402.8	440.0	494.5	553.7	533.2	501.7	496.1	485.8
72.5°	850.8	476.3	338.9	370.5	402.1	455.8	526.9	511.9	474.8	452.7	442.3
73°	768.6	451.0	331.7	362.5	393.4	447.8	520.6	505.5	466.9	442.3	432.9
75°	562.4	368.9	299.4	330.2	357.0	411.5	490.5	473.9	432.1	402.8	396.6
77.5°	407.6	284.4	257.5	285.2	308.8	361.0	445.5	426.6	385.4	369.7	363.4
80°	293.9	215.6	213.3	240.2	260.6	313.6	397.3	377.6	338.1	384.7	374.4
82.5°	175.3	138.2	156.4	186.4	207.8	263.0	345.2	322.3	284.4	287.6	244.9
85°	83.8	78.2	97.2	122.4	137.5	180.1	287.6	269.3	227.5	186.4	182.5
87.5°	37.1	35.5	46.6	54.5	73.4	108.2	196.7	174.6	165.1	98.7	77.4
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)