

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: P198631

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198631
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-7030
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 10759 lumens
Efficiency: N/A
Efficacy: 96.9 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 - G2

Input Watts (W): 111
Input Voltage (V): NR
Input Current (A_{in}): 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

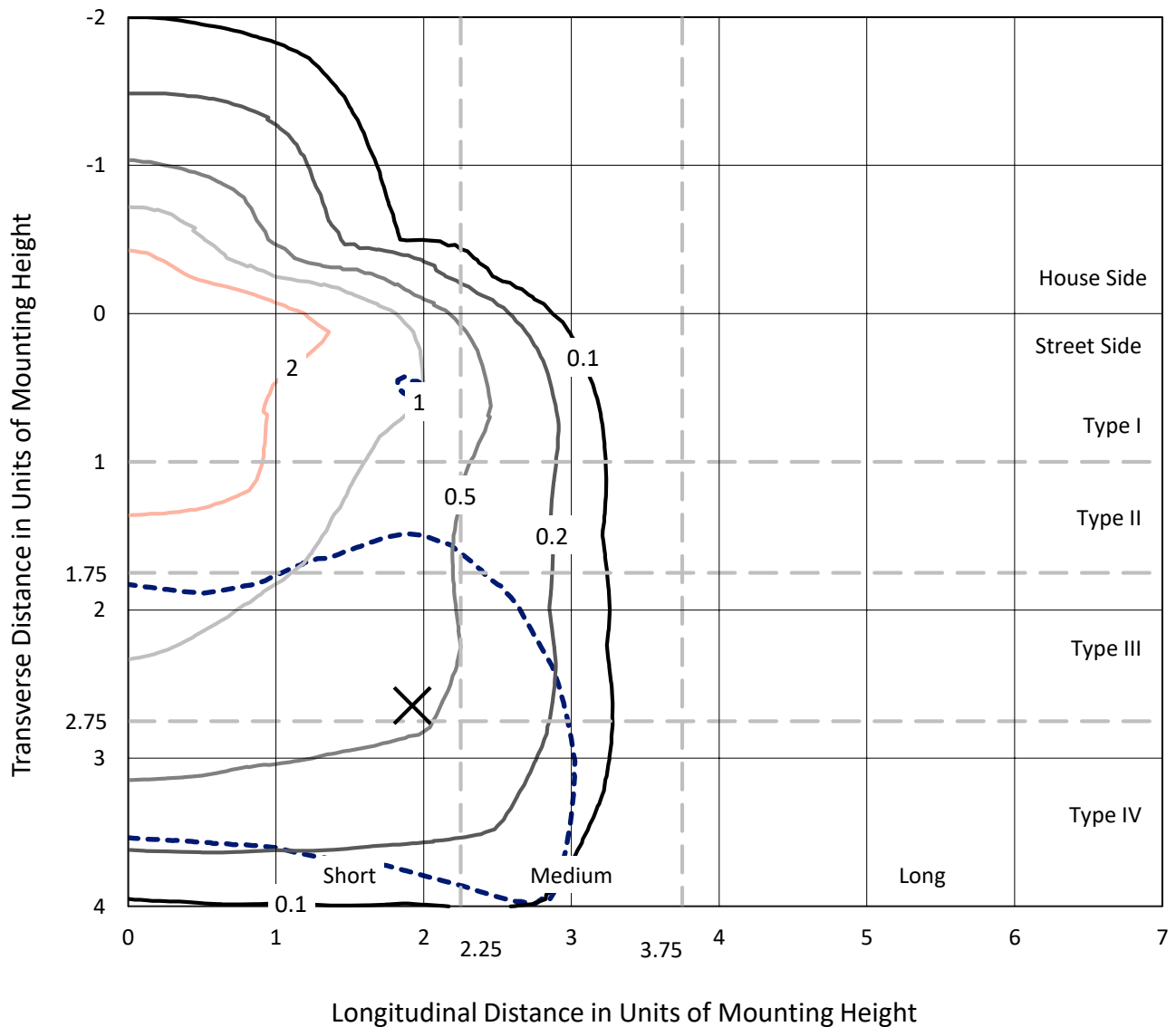


REPORT NUMBER: P198631

CATALOG NUMBER: XNV2-AF-02-LED-U-T4FT-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

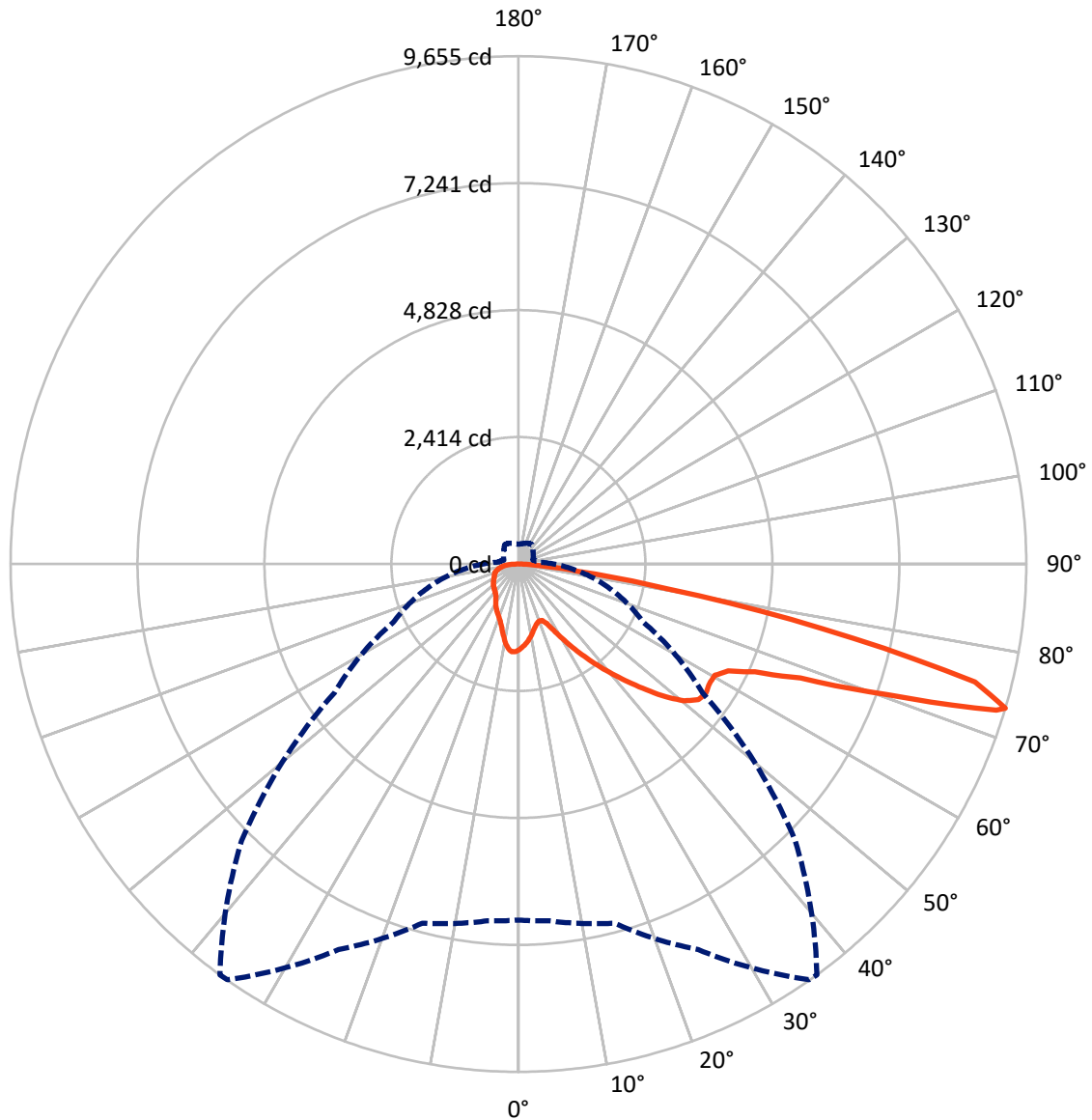


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198631

CATALOG NUMBER: XNV2-AF-02-LED-U-T4FT-7030

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	2074.7	0.0	2074.7
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	8684.3	0.0	8684.3
	% Fixture	80.7	0.0	80.7
Total	Lumens	10759.0	0.0	10759.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	1.4
10°-20°	371.8	3.5
20°-30°	596.0	5.5
30°-40°	985.9	9.2
40°-50°	1525.5	14.2
50°-60°	2042.3	19.0
60°-70°	2667.8	24.8
70°-80°	2179.1	20.3
80°-90°	242.6	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°	10759.0	100.0
0°-180°	10759.0	100.0



REPORT NUMBER: P198631

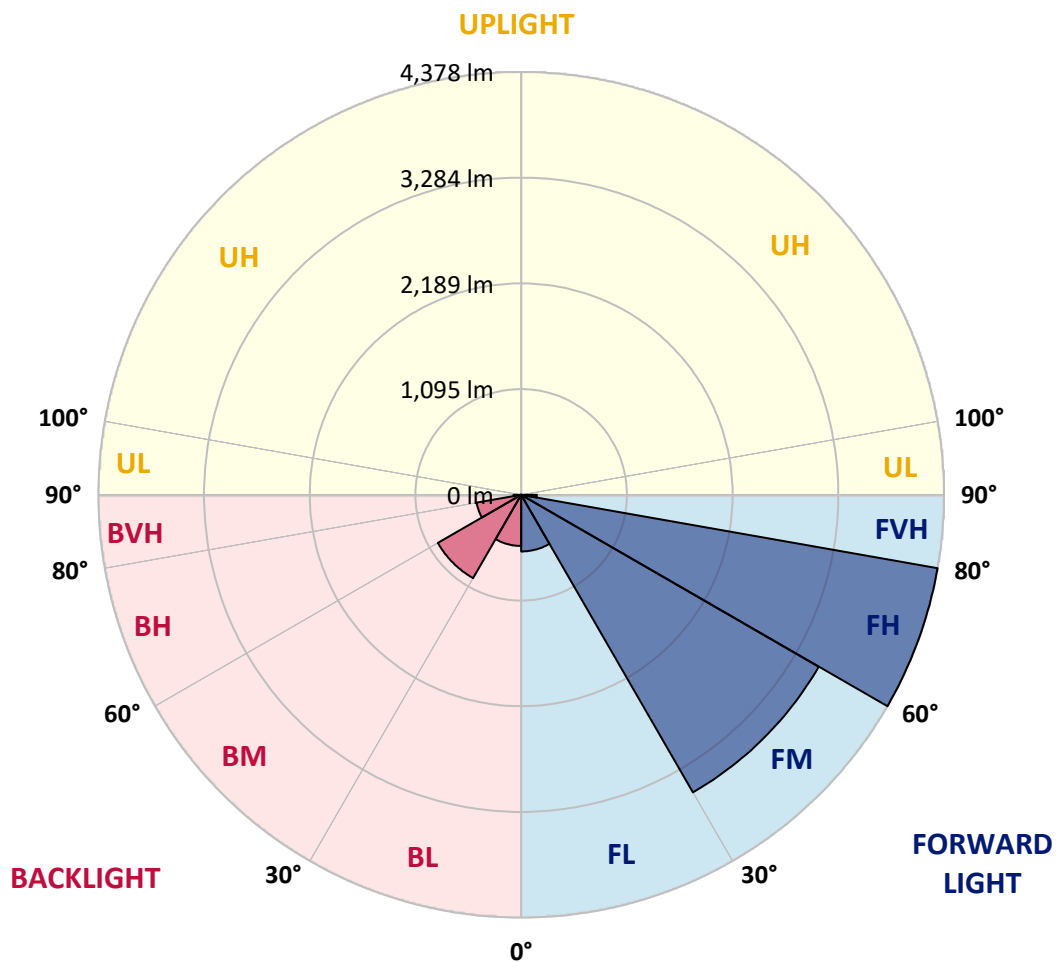
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	586.2	5.4			
FM	(30°-60°)	3557.3	33.1			
FH	(60°-80°)	4378.1	40.7			G2/5000
FVH	(80°-90°)	162.7	1.5			G2/225
BL	(0°-30°)	529.6	4.9	B2/1000		
BM	(30°-60°)	996.4	9.3	B1/1000		
BH	(60°-80°)	468.8	4.4	B1/500		G1/500
BVH	(80°-90°)	79.9	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-G2

Type IV Short





REPORT NUMBER: P198631

CATALOG NUMBER: XNV2-AF-02-LED-U-T4FT-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7
2.5°	1567.5	1571.6	1572.3	1577.0	1577.0	1576.4	1578.4	1586.6	1590.7	1600.3	1608.5
5°	1490.2	1495.0	1497.1	1505.3	1515.5	1516.2	1523.7	1539.4	1554.5	1575.7	1593.4
7.5°	1403.4	1408.9	1414.3	1431.4	1446.5	1447.8	1462.2	1487.5	1507.3	1533.3	1565.4
10°	1319.3	1320.7	1326.2	1348.0	1367.9	1369.9	1390.4	1419.1	1445.8	1482.0	1518.3
12.5°	1250.3	1254.4	1253.0	1269.4	1286.5	1287.9	1315.2	1351.5	1390.4	1431.4	1474.5
15°	1226.4	1225.7	1211.3	1210.6	1218.2	1219.5	1246.2	1288.6	1332.3	1382.9	1438.3
17.5°	1242.8	1237.3	1199.7	1176.5	1171.7	1173.0	1192.9	1239.3	1285.8	1343.9	1410.2
20°	1333.0	1311.8	1223.6	1167.6	1151.8	1151.8	1163.5	1201.1	1252.3	1320.0	1403.4
22.5°	1547.0	1514.1	1326.2	1226.4	1171.0	1165.5	1156.6	1185.3	1242.1	1323.4	1431.4
25°	1816.3	1800.6	1514.1	1382.9	1268.7	1251.0	1192.2	1202.4	1263.3	1360.3	1508.0
27.5°	2065.8	2038.5	1760.9	1610.5	1449.2	1421.9	1297.5	1255.8	1313.9	1428.7	1618.7
30°	2211.4	2193.0	2014.5	1871.0	1678.9	1644.0	1465.6	1361.0	1404.1	1541.5	1776.0
32.5°	2370.0	2359.1	2268.8	2138.3	1927.7	1887.4	1683.0	1532.6	1542.2	1691.2	1965.3
35°	2523.8	2538.2	2486.9	2391.2	2195.7	2158.1	1974.9	1756.8	1712.4	1859.4	2167.7
37.5°	2708.4	2711.8	2679.7	2617.5	2477.3	2446.6	2295.5	1996.1	1897.6	2038.5	2363.2
40°	3076.8	3022.8	2897.0	2847.8	2764.4	2745.3	2573.0	2215.5	2069.9	2222.3	2547.7
42.5°	3475.4	3391.3	3194.4	3113.7	3080.3	3062.5	2804.1	2361.8	2231.2	2406.2	2728.9
45°	3796.7	3728.3	3535.5	3435.7	3439.8	3411.1	3005.7	2492.4	2406.2	2590.8	2931.2
47.5°	4113.2	3999.0	3783.0	3768.6	3816.5	3774.1	3198.5	2622.9	2588.8	2791.8	3133.6
50°	4133.7	4029.8	3942.3	4057.1	4139.1	4086.5	3373.5	2793.8	2778.1	3035.1	3394.7
52.5°	3884.2	3869.1	4002.4	4195.9	4331.9	4284.7	3516.4	2969.5	2971.6	3339.3	3712.6
55°	3793.2	3774.1	3934.1	4171.9	4355.8	4327.8	3623.0	3167.8	3186.2	3708.5	4053.7
57.5°	3946.4	3898.5	3930.0	4126.8	4299.8	4283.4	3733.8	3387.9	3421.4	4133.7	4368.8
60°	4421.5	4323.7	4156.9	4193.8	4301.8	4292.3	3892.4	3633.3	3689.3	4576.6	4568.4
62.5°	5133.1	5022.3	4682.6	4518.5	4494.6	4476.1	4154.2	3934.7	3962.8	4896.5	4452.2
65°	5913.7	5794.8	5390.8	5122.1	4981.3	4941.7	4576.6	4298.4	4122.7	4895.9	3999.7
67.5°	6790.1	6664.3	6261.7	6005.3	5852.9	5785.2	5262.3	4592.3	4070.8	4481.6	3200.6
70°	7687.6	7568.0	7383.4	7473.0	7540.0	7436.8	6342.3	4690.1	3697.5	3513.6	2149.2
72.5°	7211.2	7201.6	7341.7	8190.8	9482.1	9502.6	7421.0	4413.9	2856.7	2088.4	1145.7
73°	6768.9	6809.2	7069.0	8084.8	9648.2	9655.0	7442.2	4271.1	2622.9	1799.2	1006.2
75°	3506.8	3780.2	4744.1	6555.6	8933.8	8966.0	6560.4	3233.4	1563.4	999.4	678.1
77.5°	939.3	926.9	1528.5	3193.7	5956.1	5913.7	4145.3	1565.4	749.2	626.9	475.8
80°	322.0	326.1	520.2	1168.3	2780.2	2879.3	1799.2	682.9	492.9	436.8	337.0
82.5°	164.1	169.5	272.1	497.0	1162.8	1138.2	579.0	402.0	330.2	265.2	188.7
85°	87.5	90.2	149.7	257.7	426.6	431.3	203.7	214.6	209.9	150.4	93.0
87.5°	43.1	44.4	71.8	113.5	157.9	152.4	71.1	93.0	103.2	84.8	51.3
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: P198631

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7	1629.7
2.5°	1618.7	1618.7	1627.6	1642.7	1653.6	1663.9	1670.7	1681.6	1687.8	1687.1	1686.4
5°	1607.8	1614.6	1632.4	1650.9	1663.2	1671.4	1671.4	1676.2	1676.2	1674.1	1671.4
7.5°	1582.5	1594.1	1620.1	1636.5	1639.9	1631.0	1613.3	1599.6	1582.5	1573.6	1570.2
10°	1542.2	1557.2	1590.0	1597.5	1579.8	1548.3	1505.3	1468.3	1435.5	1420.5	1415.7
12.5°	1502.5	1522.4	1553.1	1541.5	1499.1	1437.6	1371.3	1320.7	1283.8	1269.4	1264.6
15°	1469.7	1493.6	1517.6	1481.3	1407.5	1322.1	1248.9	1201.7	1173.7	1162.8	1160.1
17.5°	1447.8	1475.9	1484.1	1416.4	1313.9	1218.2	1153.2	1122.5	1110.1	1105.4	1104.0
20°	1449.2	1480.7	1460.8	1353.5	1223.6	1127.2	1084.2	1075.3	1075.3	1075.3	1074.6
22.5°	1486.8	1514.1	1451.3	1294.7	1136.8	1050.7	1032.2	1039.7	1045.2	1045.2	1044.5
25°	1564.7	1579.8	1458.1	1238.0	1055.5	984.4	985.1	999.4	1004.2	1004.2	1002.8
27.5°	1683.7	1671.4	1470.4	1175.1	975.5	924.2	933.8	946.8	950.2	948.1	947.5
30°	1832.7	1783.5	1480.7	1101.3	900.3	868.2	876.4	883.9	881.1	876.4	875.7
32.5°	1999.5	1897.6	1474.5	1018.5	834.0	810.1	814.8	818.9	814.8	803.2	803.2
35°	2164.9	2000.9	1441.0	928.3	781.3	754.0	753.3	766.3	765.6	751.9	752.6
37.5°	2309.8	2082.2	1376.1	845.6	736.2	713.0	715.7	723.9	728.0	709.6	707.5
40°	2436.3	2138.3	1284.5	775.2	700.0	701.4	693.8	680.9	676.1	667.9	666.5
42.5°	2555.3	2177.2	1187.4	716.4	681.5	697.3	672.0	641.2	628.2	635.7	640.5
45°	2672.1	2221.0	1093.7	667.9	658.3	685.0	650.1	615.9	600.9	604.3	609.1
47.5°	2815.0	2281.8	980.9	615.9	622.7	662.4	636.4	599.5	576.9	563.3	559.2
50°	3003.0	2370.0	834.7	559.9	585.2	637.8	624.8	575.6	551.0	523.6	516.8
52.5°	3238.2	2453.4	687.0	514.7	554.4	616.6	605.7	555.1	525.0	492.2	486.7
55°	3472.6	2465.0	559.9	475.8	519.5	587.9	582.4	538.7	496.3	469.6	464.2
57.5°	3636.7	2355.0	474.4	443.0	486.0	552.3	561.2	518.8	472.4	451.9	448.4
60°	3639.4	2091.8	422.5	421.1	460.7	521.6	539.4	495.6	457.3	443.6	440.9
62.5°	3350.3	1685.7	389.0	404.7	442.3	496.3	522.9	482.6	453.9	448.4	445.7
65°	2808.2	1245.5	362.3	389.6	425.2	475.1	509.3	478.5	452.5	450.5	448.4
67.5°	2073.3	853.8	339.7	370.5	406.1	453.2	496.3	472.4	444.3	452.5	449.8
70°	1304.3	570.1	318.6	348.6	380.8	427.9	479.2	461.4	434.1	429.3	420.4
72.5°	736.2	412.2	293.3	320.6	347.9	394.4	456.0	443.0	410.8	391.7	382.8
73°	665.1	390.3	287.1	313.8	340.4	387.6	450.5	437.5	404.0	382.8	374.6
75°	486.7	319.2	259.1	285.7	309.0	356.1	424.5	410.2	373.9	348.6	343.2
77.5°	352.7	246.1	222.8	246.8	267.3	312.4	385.5	369.1	333.6	319.9	314.5
80°	254.3	186.6	184.6	207.8	225.6	271.4	343.8	326.8	292.6	332.9	324.0
82.5°	151.8	119.6	135.4	161.3	179.8	227.6	298.7	278.9	246.1	248.8	211.9
85°	72.5	67.7	84.1	106.0	118.9	155.9	248.8	233.1	196.9	161.3	157.9
87.5°	32.1	30.8	40.3	47.2	63.6	93.7	170.2	151.1	142.9	85.4	67.0
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)