

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: P198959

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198959
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
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11916 lumens
Efficiency: N/A
Efficacy: 107.4 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 - G2

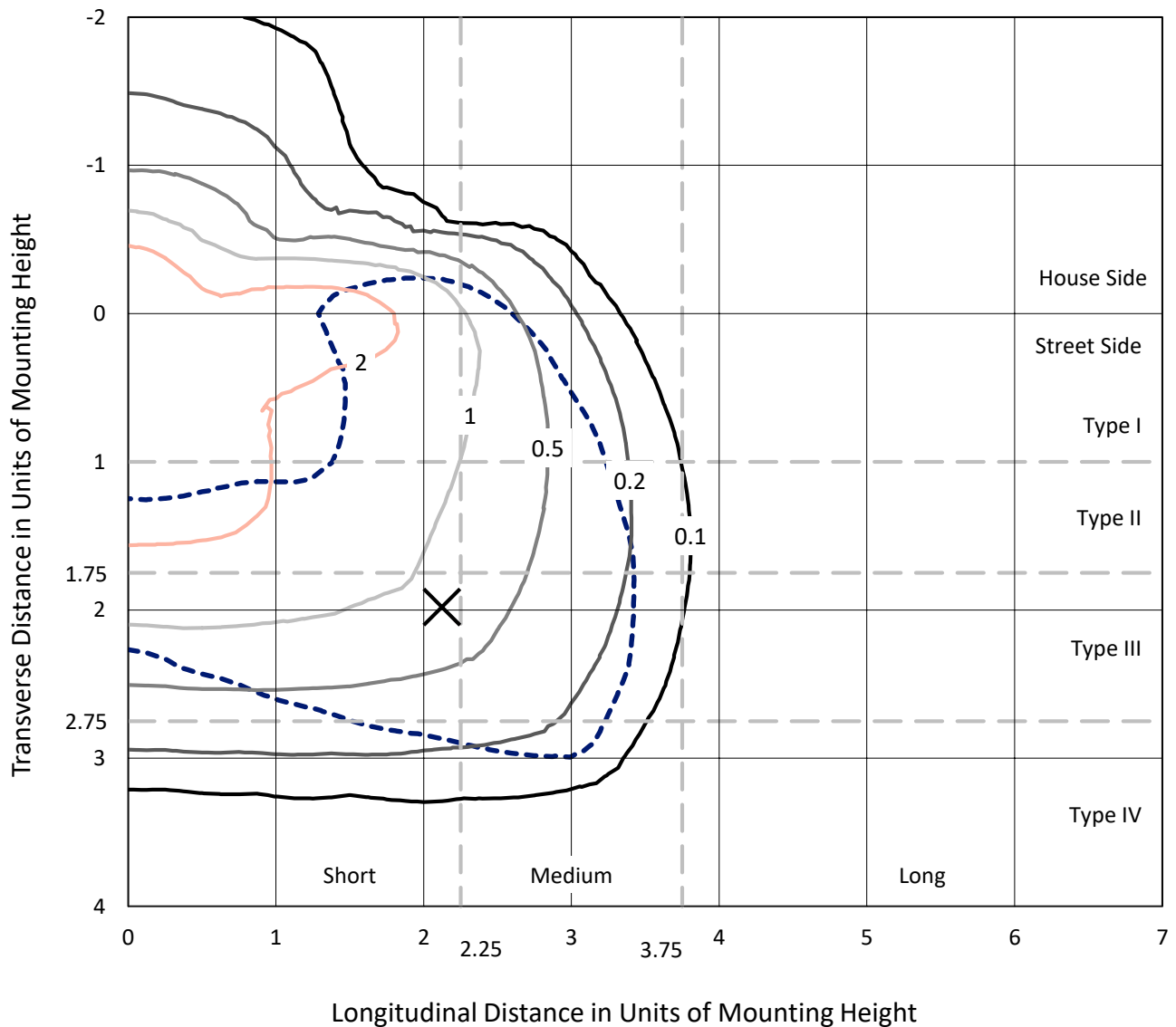
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

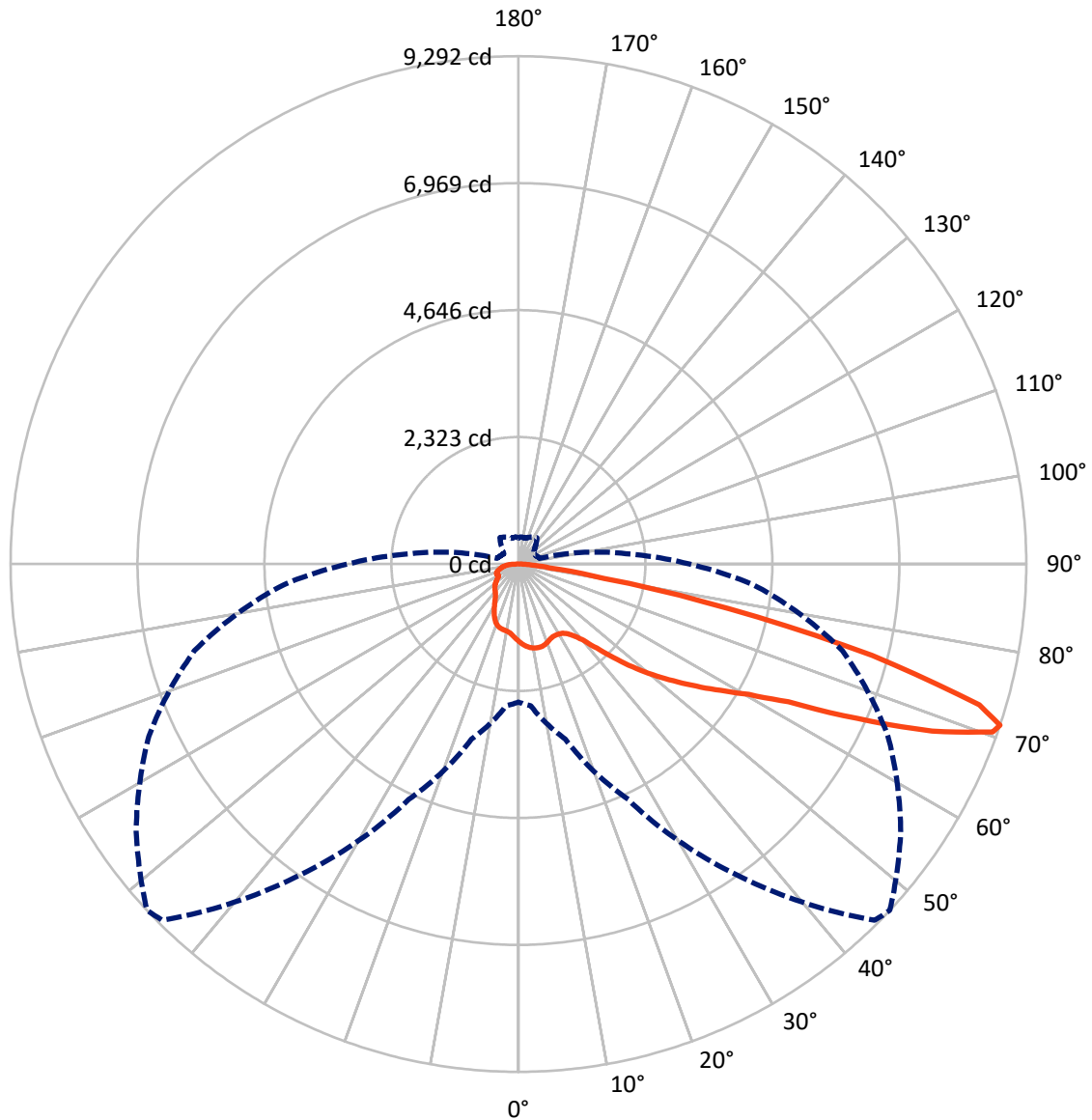


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Semi-Cutoff

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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	2553.8	0.0	2553.8
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	9362.2	0.0	9362.2
	% Fixture	78.6	0.0	78.6
Total	Lumens	11916.0	0.0	11916.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.1
10°-20°	395.8	3.3
20°-30°	588.2	4.9
30°-40°	844.5	7.1
40°-50°	1497.4	12.6
50°-60°	2562.2	21.5
60°-70°	3637.5	30.5
70°-80°	1992.2	16.7
80°-90°	263.0	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°	11916.0	100.0
0°-180°	11916.0	100.0



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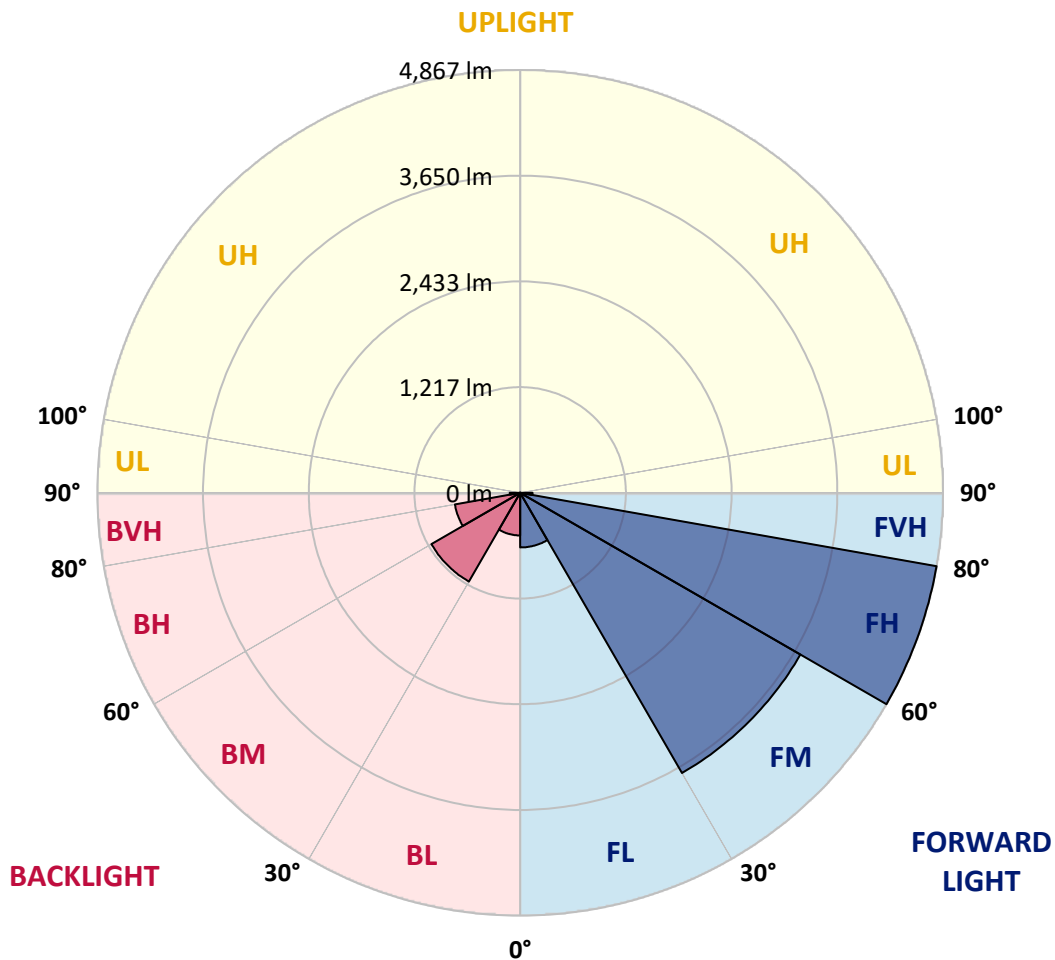
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.9	5.3			
FM	(30°-60°)	3724.1	31.3			
FH	(60°-80°)	4866.6	40.8			G2/5000
FVH	(80°-90°)	142.6	1.2			G2/225
BL	(0°-30°)	490.4	4.1	B1/500		
BM	(30°-60°)	1180.0	9.9	B2/2500		
BH	(60°-80°)	763.0	6.4	B2/1000		G2/1000
BVH	(80°-90°)	120.3	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1503.5	1500.4	1502.0	1496.6	1483.4	1469.5	1469.5	1454.9	1439.4	1424.0	1407.0
5°	1596.9	1592.3	1588.4	1571.5	1546.0	1517.4	1512.8	1483.4	1451.8	1420.1	1389.2
7.5°	1674.9	1670.3	1658.7	1627.8	1590.8	1548.3	1542.9	1504.3	1462.6	1418.6	1375.3
10°	1730.5	1727.4	1705.0	1665.7	1622.4	1572.2	1563.0	1523.6	1474.2	1419.3	1364.5
12.5°	1761.4	1756.8	1729.8	1683.4	1632.5	1581.5	1572.2	1534.4	1478.0	1417.8	1353.7
15°	1749.1	1746.7	1721.3	1674.2	1623.2	1579.2	1571.5	1532.8	1475.7	1412.4	1343.7
17.5°	1696.6	1702.0	1681.9	1635.5	1593.8	1563.0	1554.5	1518.2	1464.1	1399.3	1328.2
20°	1624.0	1630.1	1620.1	1573.0	1549.1	1529.0	1524.3	1495.0	1444.8	1379.9	1309.7
22.5°	1546.7	1552.1	1552.9	1508.9	1501.2	1493.5	1489.6	1468.8	1427.8	1368.4	1297.3
25°	1493.5	1499.6	1501.2	1462.6	1467.2	1469.5	1468.8	1454.1	1424.7	1368.4	1298.9
27.5°	1479.6	1482.7	1481.1	1445.6	1454.1	1467.2	1468.0	1464.9	1437.1	1383.8	1320.5
30°	1527.4	1529.0	1509.7	1456.4	1464.9	1481.9	1482.7	1481.1	1463.3	1424.0	1369.1
32.5°	1734.4	1732.8	1666.4	1529.0	1499.6	1505.8	1508.1	1522.0	1523.6	1490.4	1439.4
35°	2049.5	2048.7	1971.5	1736.7	1598.5	1566.0	1569.1	1590.8	1610.1	1587.7	1558.3
37.5°	2396.2	2398.5	2351.4	2033.2	1811.6	1676.5	1673.4	1689.6	1724.4	1732.1	1735.9
40°	2780.7	2792.3	2790.0	2373.8	2110.5	1864.9	1834.0	1815.5	1882.7	1925.1	1980.0
42.5°	3220.1	3217.0	3218.6	2747.5	2451.8	2161.4	2104.3	2017.8	2095.8	2169.1	2289.6
45°	3597.7	3610.1	3619.4	3145.2	2834.0	2500.4	2442.5	2285.0	2355.3	2464.9	2648.7
47.5°	3977.7	3956.1	3973.0	3587.7	3259.5	2887.3	2812.4	2600.0	2665.7	2820.1	3099.7
50°	4420.2	4410.1	4332.9	4165.3	3773.8	3279.6	3181.5	2929.0	3024.8	3230.9	3656.4
52.5°	4817.1	4763.0	4702.8	4619.4	4279.6	3676.5	3552.2	3271.1	3447.2	3702.8	4347.6
55°	4962.2	4926.0	4998.5	5106.6	4814.8	4081.1	3942.2	3670.3	3923.6	4242.5	5160.7
57.5°	5116.7	5129.0	5292.8	5511.3	5321.3	4512.8	4362.2	4142.9	4446.4	4846.4	6069.6
60°	5193.9	5243.3	5570.0	5980.0	5803.2	4986.2	4841.8	4685.8	5026.3	5513.6	6976.2
62.5°	5207.0	5273.4	5736.0	6144.5	6466.5	5711.3	5544.5	5375.4	5750.7	6251.1	7632.6
65°	4966.1	5068.0	5721.3	6346.8	7071.2	6922.9	6817.1	6522.1	6720.6	6900.5	7744.5
67.5°	4258.0	4369.2	5155.3	6263.4	7556.1	8180.1	8160.0	7724.5	7469.6	7151.5	6914.4
70°	3125.1	3214.7	3970.0	5354.5	7344.5	9166.9	9202.5	8503.6	7678.9	6618.6	5141.4
71°	2527.5	2604.7	3316.7	4753.7	6932.2	9217.9	9292.0	8538.4	7461.1	6137.6	4304.3
72.5°	1573.0	1616.2	2202.4	3587.7	5969.2	8692.8	8817.9	8093.6	6775.4	5187.7	3042.5
75°	593.8	610.8	817.0	1582.3	3563.0	6530.6	6682.0	6116.7	4759.9	2961.4	1273.4
77.5°	318.9	327.4	405.4	657.9	1427.8	3743.7	3938.3	3488.9	2283.4	1036.3	520.5
80°	213.9	219.3	280.3	390.0	656.4	1425.5	1587.7	1400.8	854.8	591.5	370.7
82.5°	138.2	141.3	190.7	256.4	423.9	501.2	572.2	597.7	533.6	423.9	223.9
85°	91.1	93.4	125.9	163.7	262.6	247.1	253.3	331.3	363.7	279.5	114.3
87.5°	52.5	54.1	75.7	84.2	118.1	92.7	100.4	157.5	216.2	182.2	65.6
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°	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1399.3	1393.1	1379.2	1370.7	1366.8	1365.3	1363.7	1366.8	1366.8	1365.3	1362.2
5°	1373.8	1362.2	1339.0	1322.8	1314.3	1312.0	1315.1	1318.9	1321.3	1321.3	1318.9
7.5°	1355.2	1338.2	1307.4	1285.0	1271.8	1268.0	1276.5	1290.4	1299.6	1304.3	1305.0
10°	1339.8	1316.6	1282.6	1259.5	1248.7	1247.1	1257.9	1275.7	1295.0	1303.5	1305.0
12.5°	1325.9	1299.6	1262.6	1240.9	1233.2	1237.1	1251.8	1268.0	1290.4	1302.7	1303.5
15°	1312.8	1285.7	1246.4	1224.0	1222.4	1228.6	1242.5	1255.6	1272.6	1288.1	1288.1
17.5°	1297.3	1268.0	1227.0	1206.2	1206.2	1211.6	1220.9	1227.8	1238.6	1253.3	1252.5
20°	1278.8	1248.7	1207.0	1185.3	1180.7	1177.6	1177.6	1179.2	1188.4	1201.6	1203.9
22.5°	1264.9	1234.0	1190.0	1163.7	1142.9	1122.8	1114.3	1111.2	1119.7	1132.1	1135.2
25°	1264.9	1234.0	1184.6	1140.6	1089.6	1051.0	1034.8	1030.1	1038.6	1050.2	1054.8
27.5°	1285.7	1254.8	1196.9	1119.7	1026.3	964.5	945.2	941.3	949.1	958.3	963.0
30°	1334.4	1304.3	1232.5	1095.8	956.0	874.9	853.3	849.4	853.3	857.2	862.6
32.5°	1415.5	1390.0	1290.4	1074.1	885.0	793.8	767.6	761.4	762.9	763.7	768.4
35°	1547.5	1535.9	1367.6	1048.7	817.8	727.4	700.4	688.0	687.3	691.1	696.5
37.5°	1749.8	1756.8	1467.2	1011.6	762.2	680.3	653.3	640.9	634.8	642.5	648.7
40°	2035.6	2051.8	1582.3	961.4	716.6	652.5	623.9	612.4	603.9	601.6	604.6
42.5°	2407.0	2402.4	1699.6	897.3	667.2	634.0	603.9	591.5	577.6	559.9	556.0
45°	2847.2	2780.7	1797.7	818.5	610.8	616.2	585.3	568.3	546.7	520.5	517.4
47.5°	3366.9	3183.8	1857.9	734.4	558.3	593.1	564.5	538.2	506.6	489.6	487.3
50°	3993.1	3655.7	1900.4	648.7	511.2	563.7	535.1	500.4	469.5	464.9	464.1
52.5°	4734.4	4212.4	1952.9	571.4	474.1	525.9	505.8	470.3	445.6	447.9	447.9
55°	5522.9	4788.5	1954.5	510.4	441.7	481.9	484.2	455.6	436.3	444.0	446.3
57.5°	6241.8	5292.0	1800.8	467.2	410.8	447.1	477.2	461.0	446.3	473.4	475.7
60°	6868.8	5679.6	1470.3	431.7	385.3	434.0	492.7	494.2	491.1	564.5	569.9
62.5°	7098.2	5683.5	1044.0	401.6	371.4	441.7	525.1	527.4	527.4	595.4	605.4
65°	6776.9	5210.1	695.0	383.8	362.2	458.7	551.4	541.3	517.4	564.5	553.7
67.5°	5644.9	4055.7	508.1	372.2	349.0	459.5	574.5	549.0	508.1	548.3	529.7
70°	3879.6	2580.7	425.5	361.4	333.6	439.4	586.9	546.7	494.2	511.2	486.5
71°	3122.8	2059.5	403.9	357.5	327.4	427.8	588.4	543.6	487.3	498.1	475.7
72.5°	2057.2	1268.7	377.6	349.0	318.2	407.7	584.6	536.7	478.0	478.8	464.1
75°	811.6	525.9	339.8	329.7	291.9	375.3	567.6	522.0	460.2	444.8	438.6
77.5°	410.0	343.6	298.8	302.7	261.0	342.1	543.6	498.1	435.5	414.7	410.0
80°	299.6	261.0	255.6	262.6	226.3	309.7	513.5	465.6	403.9	425.5	416.2
82.5°	182.2	159.1	200.0	217.0	189.2	276.5	478.0	427.8	363.7	335.1	324.3
85°	86.5	93.4	144.4	159.8	139.8	220.9	437.1	386.1	317.4	274.1	278.8
87.5°	42.5	51.7	82.6	95.8	91.9	162.2	329.7	299.6	250.2	206.2	201.5
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)