

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: P271353

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271353
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-7027
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 10559.8 lumens
Efficiency: N/A
Efficacy: 95.1 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 (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

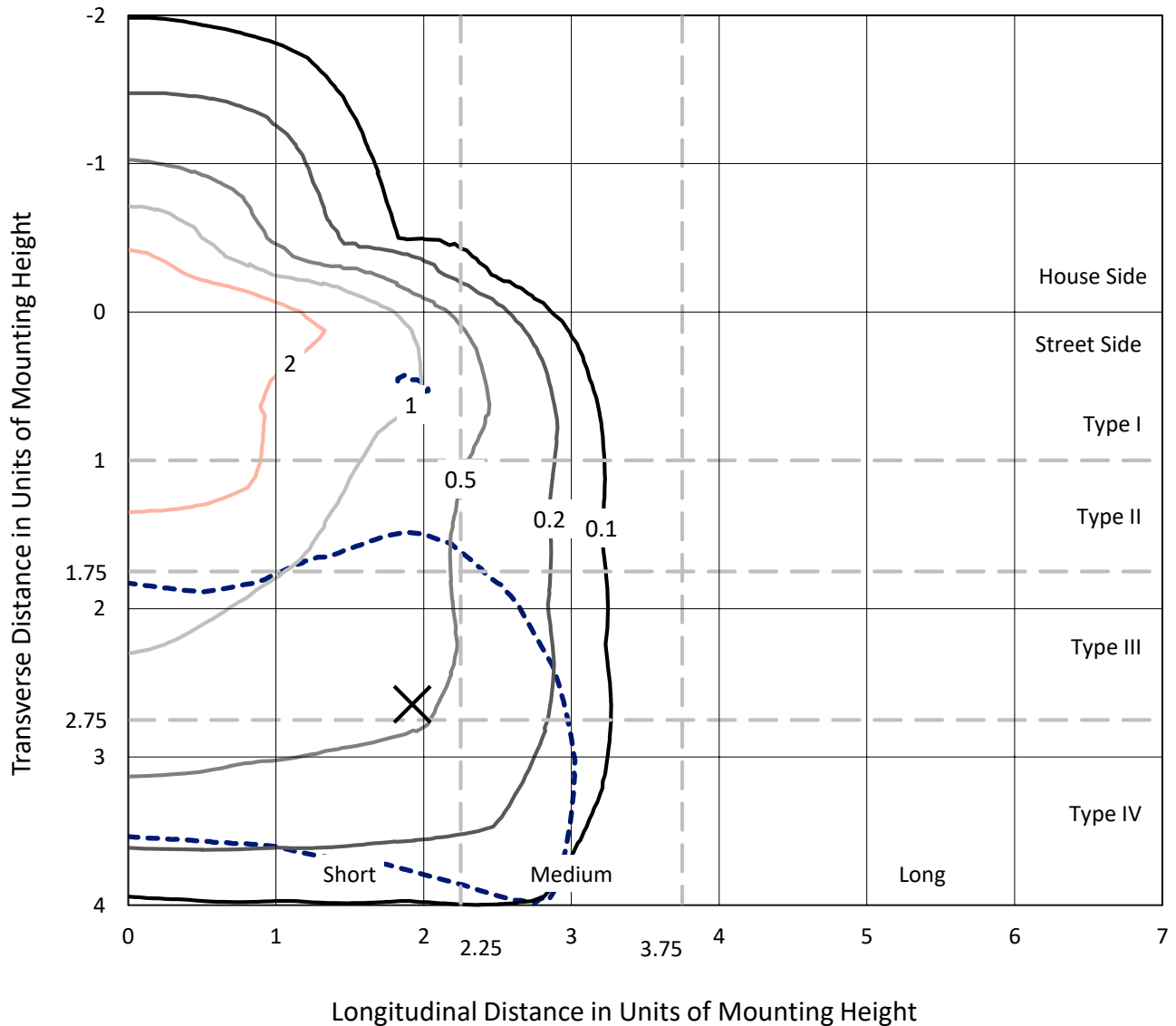


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

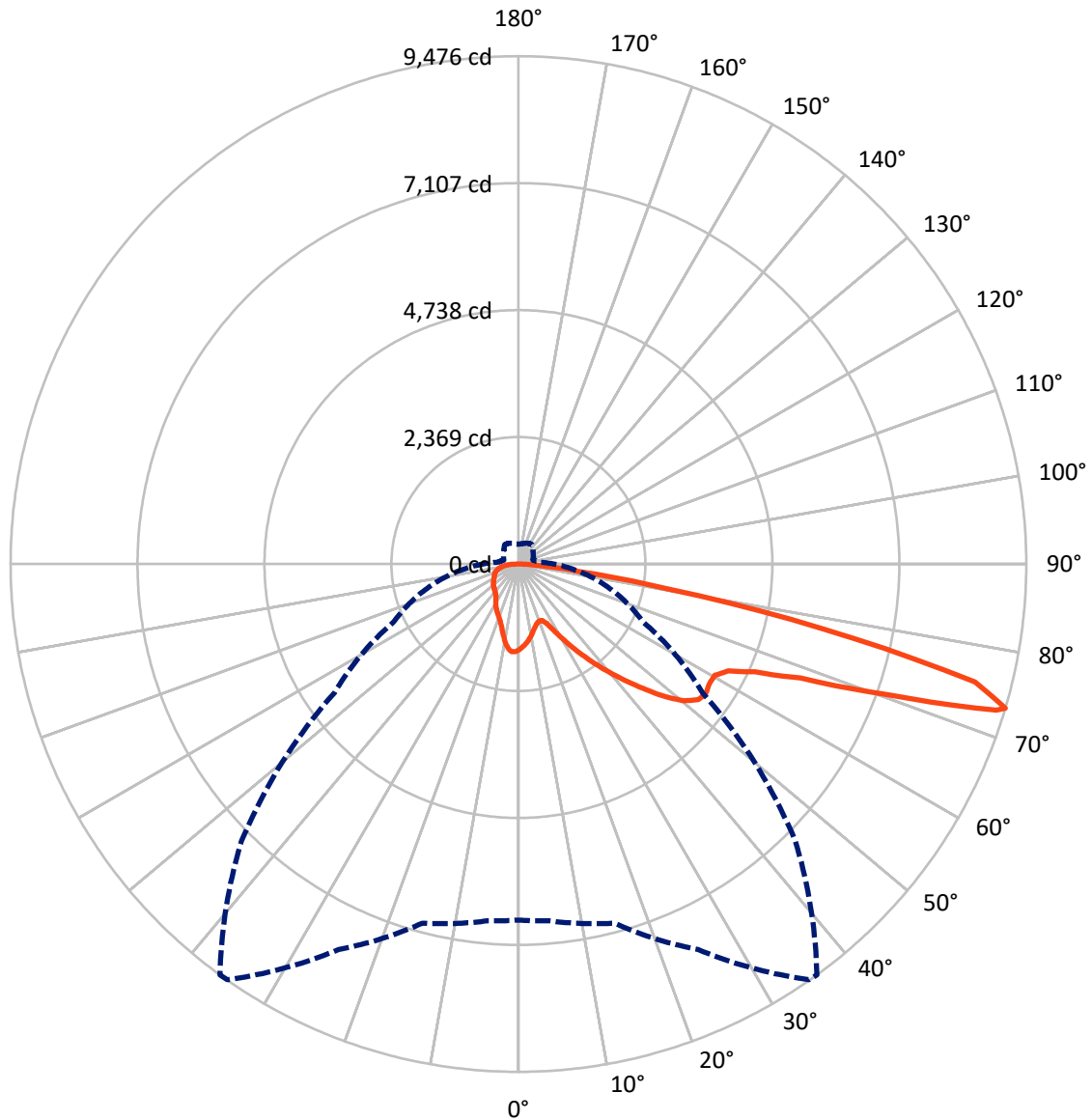


Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type IV - Short - Non-Cutoff

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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	2036.3	0.0	2036.3
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	8523.5	0.0	8523.5
	% Fixture	80.7	0.0	80.7
Total	Lumens	10559.8	0.0	10559.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	1.4
10°-20°	364.9	3.5
20°-30°	585.0	5.5
30°-40°	967.6	9.2
40°-50°	1497.3	14.2
50°-60°	2004.4	19.0
60°-70°	2618.4	24.8
70°-80°	2138.8	20.3
80°-90°	238.1	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°	10559.8	100.0
0°-180°	10559.8	100.0

Coefficient of Utilization



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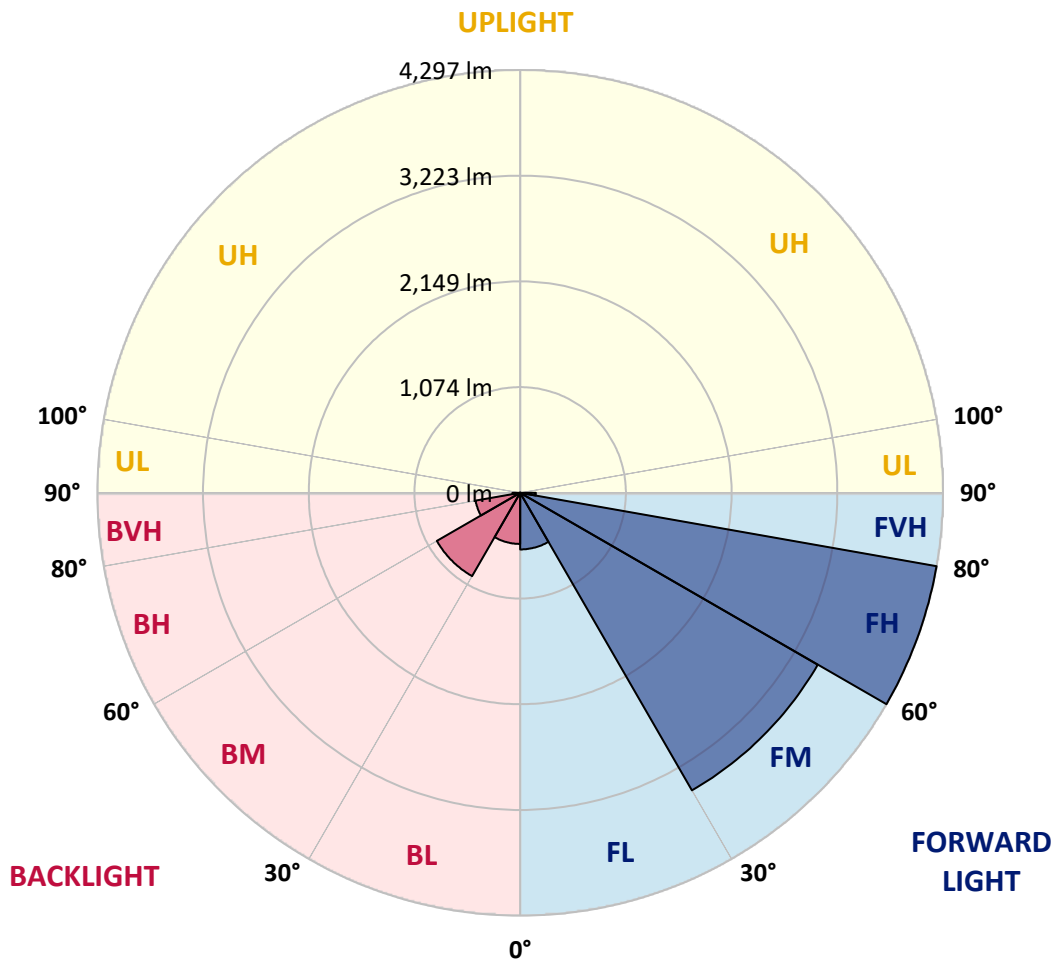
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.4	5.4			
FM	(30°-60°)	3491.4	33.1			
FH	(60°-80°)	4297.1	40.7			G2/5000
FVH	(80°-90°)	159.7	1.5			G2/225
BL	(0°-30°)	519.8	4.9	B2/1000		
BM	(30°-60°)	977.9	9.3	B1/1000		
BH	(60°-80°)	460.1	4.4	B1/500		G1/500
BVH	(80°-90°)	78.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5
2.5°	1538.4	1542.5	1543.2	1547.8	1547.8	1547.2	1549.1	1557.2	1561.3	1570.6	1578.7
5°	1462.6	1467.3	1469.4	1477.4	1487.5	1488.1	1495.5	1510.9	1525.7	1546.5	1563.9
7.5°	1377.5	1382.9	1388.2	1404.9	1419.7	1420.9	1435.1	1459.9	1479.4	1504.9	1536.5
10°	1294.8	1296.3	1301.6	1323.1	1342.5	1344.6	1364.6	1392.8	1419.1	1454.5	1490.2
12.5°	1227.2	1231.1	1229.8	1245.9	1262.7	1264.0	1290.9	1326.4	1364.6	1404.9	1447.2
15°	1203.6	1203.0	1188.8	1188.2	1195.6	1196.9	1223.1	1264.8	1307.7	1357.2	1411.6
17.5°	1219.8	1214.4	1177.5	1154.7	1150.0	1151.3	1170.9	1216.3	1261.9	1319.0	1384.1
20°	1308.3	1287.5	1200.9	1146.0	1130.4	1130.4	1141.9	1178.8	1229.2	1295.5	1377.5
22.5°	1518.3	1486.1	1301.6	1203.6	1149.3	1143.9	1135.2	1163.3	1219.1	1298.9	1404.9
25°	1782.6	1767.2	1486.1	1357.2	1245.2	1227.9	1170.1	1180.2	1239.9	1335.2	1480.0
27.5°	2027.6	2000.7	1728.2	1580.7	1422.3	1395.5	1273.4	1232.6	1289.5	1402.3	1588.7
30°	2170.5	2152.3	1977.2	1836.3	1647.9	1613.5	1438.5	1335.8	1378.1	1512.9	1743.2
32.5°	2326.2	2315.4	2226.8	2098.7	1892.0	1852.5	1651.9	1504.2	1513.6	1659.9	1928.9
35°	2477.0	2491.2	2440.9	2346.9	2155.0	2118.2	1938.4	1724.2	1680.6	1824.9	2127.5
37.5°	2658.3	2661.6	2630.1	2569.1	2431.4	2401.3	2252.9	1959.2	1862.5	2000.7	2319.5
40°	3019.8	2966.8	2843.3	2795.0	2713.2	2694.5	2525.3	2174.4	2031.5	2181.2	2500.5
42.5°	3411.0	3328.5	3135.3	3056.0	3023.2	3005.8	2752.1	2318.0	2189.9	2361.6	2678.3
45°	3726.3	3659.2	3470.1	3372.1	3376.1	3348.0	2950.0	2446.3	2361.6	2542.8	2876.9
47.5°	4037.1	3925.0	3713.0	3698.9	3745.8	3704.3	3139.2	2574.4	2540.9	2740.1	3075.5
50°	4057.1	3955.1	3869.3	3981.9	4062.4	4010.8	3311.1	2742.0	2726.6	2978.9	3331.9
52.5°	3812.2	3797.4	3928.3	4118.2	4251.7	4205.3	3451.3	2914.6	2916.5	3277.5	3643.9
55°	3722.9	3704.3	3861.3	4094.7	4275.2	4247.6	3555.9	3109.2	3127.2	3639.8	3978.7
57.5°	3873.3	3826.3	3857.2	4050.4	4220.1	4204.1	3664.6	3325.2	3358.0	4057.1	4287.9
60°	4339.6	4243.7	4079.9	4116.2	4222.2	4212.8	3820.3	3566.0	3621.0	4491.9	4483.8
62.5°	5038.1	4929.3	4595.9	4434.8	4411.3	4393.3	4077.2	3861.9	3889.4	4805.8	4369.7
65°	5804.2	5687.4	5290.9	5027.3	4889.0	4850.2	4491.9	4218.8	4046.3	4805.3	3925.7
67.5°	6664.3	6540.9	6145.8	5894.0	5744.5	5678.0	5164.9	4507.2	3995.4	4398.6	3141.4
70°	7545.3	7427.8	7246.6	7334.7	7400.3	7299.1	6224.9	4603.3	3629.1	3448.6	2109.4
72.5°	7077.7	7068.3	7205.8	8039.1	9306.5	9326.7	7283.5	4332.2	2803.8	2049.8	1124.5
73°	6643.5	6683.1	6938.1	7935.1	9469.6	9476.2	7304.4	4192.0	2574.4	1765.9	987.5
75°	3441.9	3710.2	4656.3	6434.2	8768.4	8799.9	6439.0	3173.5	1534.5	980.9	665.6
77.5°	921.9	909.8	1500.2	3134.5	5845.8	5804.2	4068.6	1536.5	735.4	615.2	466.9
80°	316.1	320.1	510.5	1146.6	2728.7	2826.0	1765.9	670.2	483.7	428.8	330.8
82.5°	161.1	166.4	267.1	487.8	1141.2	1117.1	568.3	394.5	324.1	260.2	185.2
85°	85.9	88.6	147.0	253.0	418.7	423.3	200.0	210.7	206.0	147.6	91.3
87.5°	42.3	43.6	70.4	111.4	155.0	149.6	69.8	91.3	101.2	83.3	50.3
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°	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5
2.5°	1588.7	1588.7	1597.5	1612.3	1623.0	1633.1	1639.8	1650.5	1656.6	1655.8	1655.1
5°	1578.1	1584.7	1602.1	1620.4	1632.4	1640.5	1640.5	1645.2	1645.2	1643.1	1640.5
7.5°	1553.2	1564.6	1590.1	1606.2	1609.6	1600.8	1583.4	1570.0	1553.2	1544.5	1541.1
10°	1513.6	1528.3	1560.5	1567.9	1550.6	1519.7	1477.4	1441.2	1408.9	1394.2	1389.5
12.5°	1474.7	1494.2	1524.3	1512.9	1471.3	1411.0	1345.9	1296.3	1260.1	1245.9	1241.2
15°	1442.5	1465.9	1489.5	1453.8	1381.5	1297.6	1225.7	1179.5	1151.9	1141.2	1138.6
17.5°	1420.9	1448.5	1456.6	1390.1	1289.5	1195.6	1131.9	1101.7	1089.6	1085.0	1083.5
20°	1422.3	1453.3	1433.8	1328.5	1200.9	1106.4	1064.1	1055.4	1055.4	1055.4	1054.7
22.5°	1459.2	1486.1	1424.4	1270.7	1115.8	1031.3	1013.1	1020.5	1025.9	1025.9	1025.1
25°	1535.7	1550.6	1431.1	1215.0	1035.9	966.1	966.8	980.9	985.6	985.6	984.3
27.5°	1652.5	1640.5	1443.1	1153.3	957.5	907.1	916.5	929.2	932.6	930.6	929.9
30°	1798.8	1750.4	1453.3	1080.9	883.7	852.1	860.1	867.6	864.8	860.1	859.5
32.5°	1962.4	1862.5	1447.2	999.6	818.5	795.1	799.8	803.8	799.8	788.4	788.4
35°	2124.9	1963.9	1414.3	911.2	766.9	740.1	739.3	752.2	751.4	738.0	738.6
37.5°	2267.1	2043.6	1350.6	829.9	722.5	699.8	702.5	710.5	714.5	696.5	694.4
40°	2391.2	2098.7	1260.7	760.9	687.1	688.5	680.9	668.2	663.6	655.6	654.1
42.5°	2508.0	2136.9	1165.5	703.2	668.9	684.4	659.5	629.4	616.5	624.0	628.6
45°	2622.6	2179.8	1073.5	655.6	646.2	672.3	638.1	604.5	589.7	593.2	597.8
47.5°	2762.8	2239.6	962.8	604.5	611.1	650.2	624.6	588.4	566.2	552.8	548.9
50°	2947.3	2326.2	819.3	549.6	574.3	625.9	613.3	564.9	540.8	513.9	507.3
52.5°	3178.3	2407.9	674.3	505.1	544.2	605.2	594.5	544.8	515.3	483.1	477.7
55°	3408.3	2419.3	549.6	466.9	509.9	577.0	571.6	528.7	487.2	460.9	455.6
57.5°	3569.3	2311.3	465.6	434.8	477.0	542.0	550.8	509.2	463.6	443.6	440.1
60°	3572.0	2053.0	414.7	413.3	452.1	511.9	529.5	486.4	448.9	435.4	432.8
62.5°	3288.2	1654.5	381.8	397.2	434.2	487.2	513.2	473.6	445.5	440.1	437.5
65°	2756.2	1222.5	355.5	382.4	417.4	466.3	499.8	469.6	444.1	442.1	440.1
67.5°	2034.9	837.9	333.5	363.6	398.6	444.8	487.2	463.6	436.0	444.1	441.4
70°	1280.2	559.6	312.7	342.2	373.8	420.0	470.4	452.8	426.1	421.3	412.6
72.5°	722.5	404.5	287.8	314.6	341.4	387.1	447.5	434.8	403.2	384.5	375.8
73°	652.8	383.0	281.8	307.9	334.1	380.4	442.1	429.4	396.5	375.8	367.6
75°	477.7	313.2	254.3	280.5	303.3	349.5	416.6	402.6	367.0	342.2	336.9
77.5°	346.1	241.6	218.6	242.3	262.3	306.6	378.4	362.2	327.4	314.0	308.7
80°	249.5	183.2	181.2	203.9	221.4	266.3	337.5	320.8	287.2	326.8	318.0
82.5°	148.9	117.4	132.9	158.3	176.4	223.4	293.1	273.8	241.6	244.2	208.0
85°	71.1	66.5	82.6	104.1	116.7	153.0	244.2	228.8	193.2	158.3	155.0
87.5°	31.5	30.3	39.5	46.4	62.4	91.9	167.1	148.3	140.2	83.8	65.8
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)