

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: P198633

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198633
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-7030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 11802 lumens
Efficiency: N/A
Efficacy: 92.2 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): 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

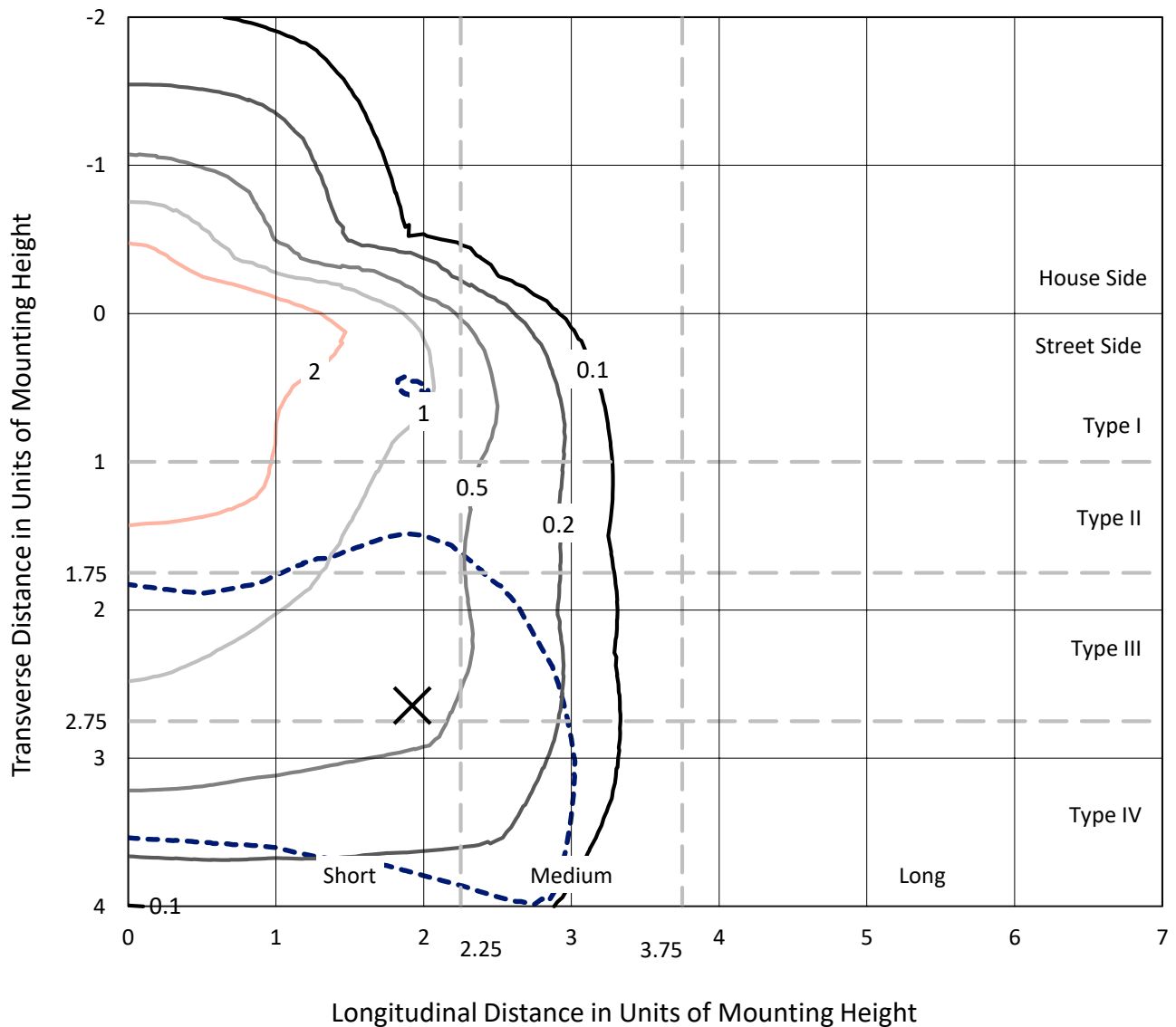


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

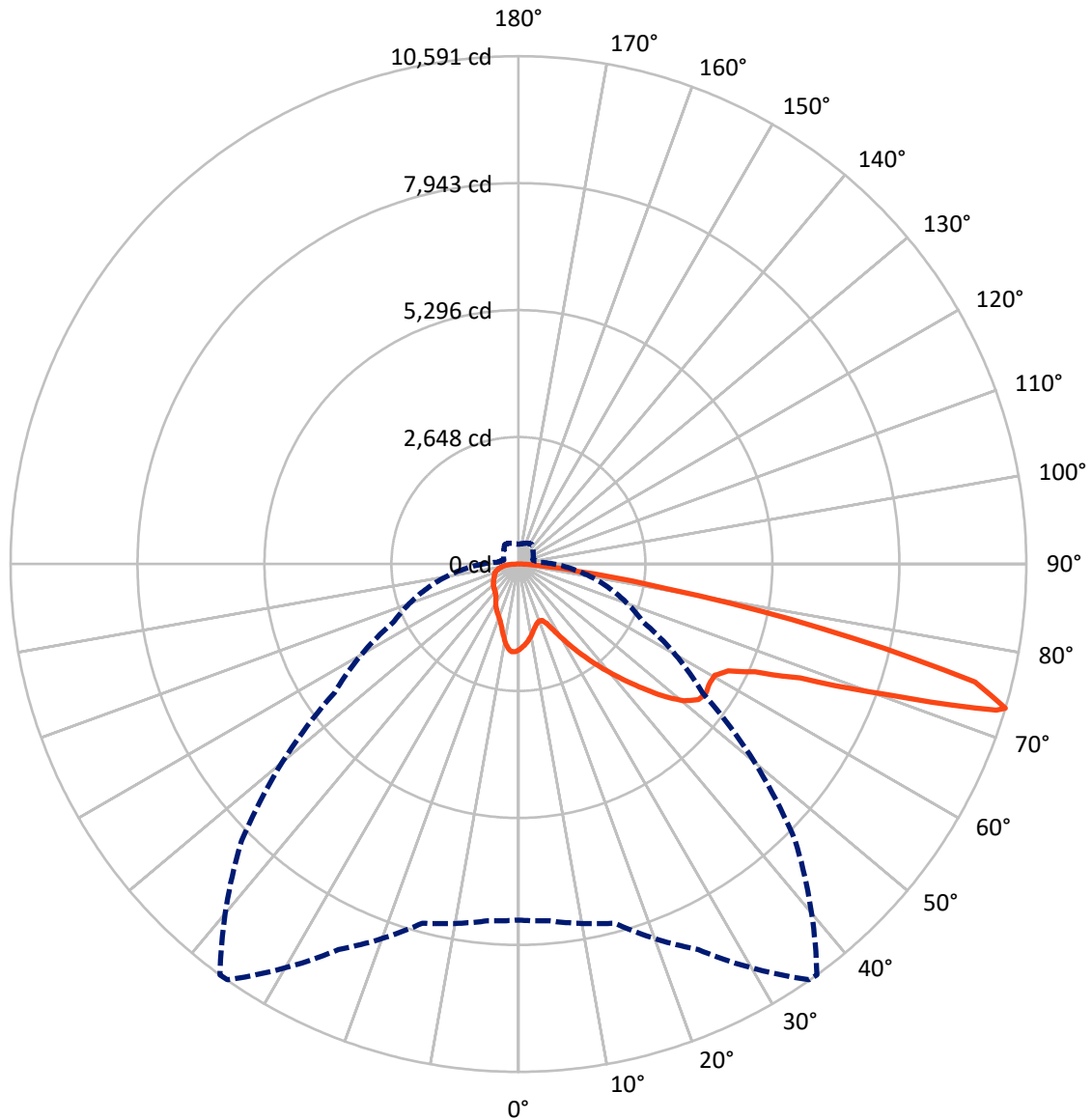


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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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	2275.8	0.0	2275.8
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	9526.2	0.0	9526.2
	% Fixture	80.7	0.0	80.7
Total	Lumens	11802.0	0.0	11802.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.4
10°-20°	407.8	3.5
20°-30°	653.8	5.5
30°-40°	1081.5	9.2
40°-50°	1673.4	14.2
50°-60°	2240.2	19.0
60°-70°	2926.4	24.8
70°-80°	2390.4	20.3
80°-90°	266.1	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°	11802.0	100.0
0°-180°	11802.0	100.0



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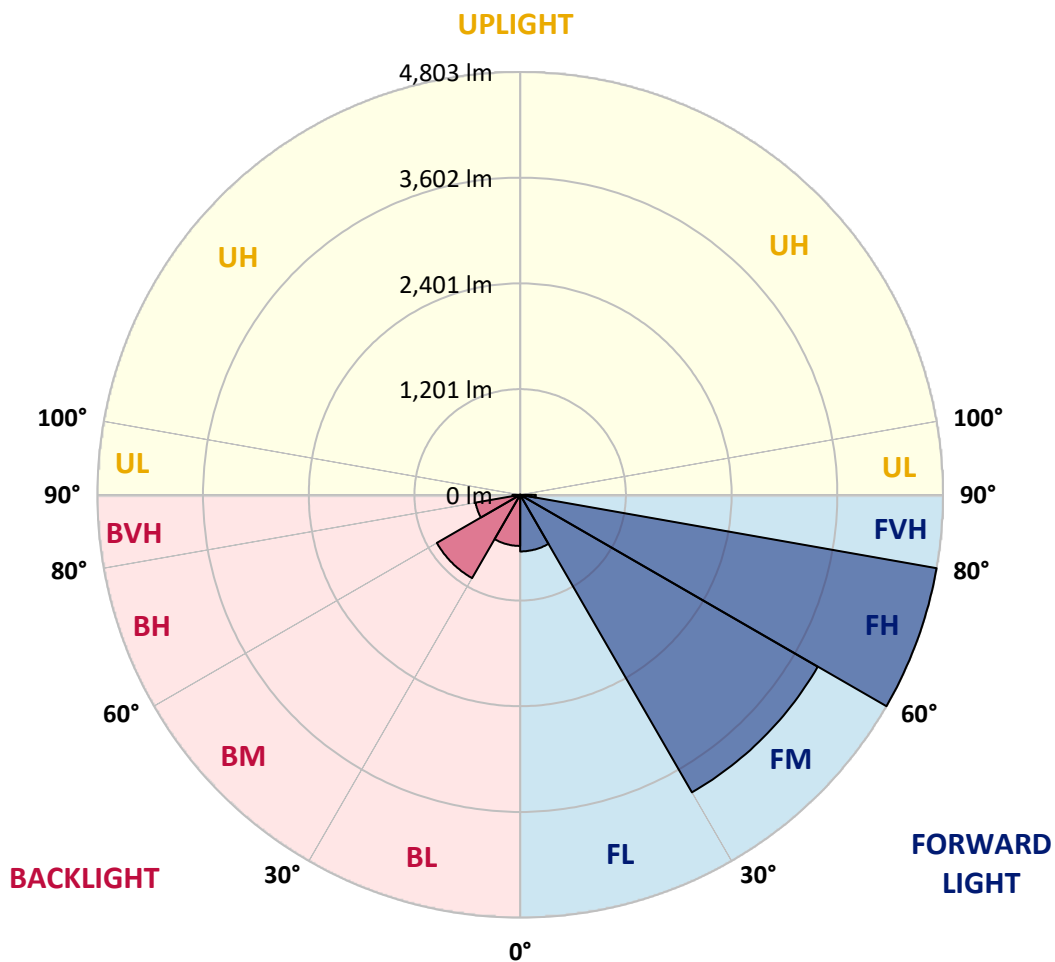
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	643.1	5.4			
FM (30°-60°)	3902.2	33.1			
FH (60°-80°)	4802.6	40.7			G2/5000
FVH (80°-90°)	178.4	1.5			G2/225
BL (0°-30°)	580.9	4.9	B2/1000		
BM (30°-60°)	1093.0	9.3	B2/2500		
BH (60°-80°)	514.3	4.4	B2/1000		G2/1000
BVH (80°-90°)	87.6	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°	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7
2.5°	1719.4	1723.9	1724.7	1729.9	1729.9	1729.2	1731.4	1740.4	1744.9	1755.4	1764.4
5°	1634.7	1639.9	1642.2	1651.2	1662.4	1663.2	1671.4	1688.7	1705.2	1728.4	1747.9
7.5°	1539.5	1545.5	1551.5	1570.2	1586.7	1588.2	1603.9	1631.7	1653.4	1681.9	1717.2
10°	1447.2	1448.7	1454.7	1478.7	1500.5	1502.7	1525.2	1556.7	1585.9	1625.7	1665.4
12.5°	1371.5	1376.0	1374.5	1392.5	1411.2	1412.7	1442.7	1482.5	1525.2	1570.2	1617.4
15°	1345.2	1344.5	1328.7	1328.0	1336.2	1337.7	1367.0	1413.5	1461.5	1517.0	1577.7
17.5°	1363.2	1357.2	1316.0	1290.5	1285.3	1286.8	1308.5	1359.5	1410.5	1474.2	1547.0
20°	1462.2	1439.0	1342.2	1280.8	1263.5	1263.5	1276.3	1317.5	1373.7	1448.0	1539.5
22.5°	1696.9	1660.9	1454.7	1345.2	1284.5	1278.5	1268.8	1300.3	1362.5	1451.7	1570.2
25°	1992.4	1975.1	1660.9	1517.0	1391.7	1372.2	1307.8	1319.0	1385.7	1492.2	1654.2
27.5°	2266.1	2236.1	1931.6	1766.7	1589.7	1559.7	1423.2	1377.5	1441.2	1567.2	1775.7
30°	2425.8	2405.5	2209.8	2052.4	1841.6	1803.4	1607.7	1493.0	1540.2	1690.9	1948.1
32.5°	2599.8	2587.8	2488.8	2345.6	2114.6	2070.4	1846.1	1681.2	1691.7	1855.1	2155.8
35°	2768.5	2784.2	2728.0	2623.0	2408.5	2367.3	2166.3	1927.1	1878.4	2039.6	2377.8
37.5°	2970.9	2974.7	2939.4	2871.2	2717.5	2683.7	2518.0	2189.6	2081.6	2236.1	2592.3
40°	3375.1	3315.9	3177.9	3123.9	3032.4	3011.4	2822.5	2430.3	2270.6	2437.8	2794.7
42.5°	3812.3	3720.0	3504.1	3415.6	3378.9	3359.4	3075.9	2590.8	2447.5	2639.5	2993.4
45°	4164.7	4089.7	3878.3	3768.8	3773.3	3741.8	3297.1	2734.0	2639.5	2842.0	3215.4
47.5°	4511.9	4386.7	4149.7	4134.0	4186.5	4140.0	3508.6	2877.2	2839.7	3062.4	3437.3
50°	4534.4	4420.4	4324.4	4450.4	4540.4	4482.6	3700.5	3064.7	3047.4	3329.4	3723.8
52.5°	4260.7	4244.2	4390.4	4602.6	4751.8	4700.1	3857.3	3257.4	3259.6	3663.1	4072.5
55°	4161.0	4140.0	4315.4	4576.4	4778.1	4747.3	3974.2	3474.8	3495.1	4068.0	4446.7
57.5°	4328.9	4276.4	4310.9	4526.9	4716.6	4698.6	4095.7	3716.3	3753.0	4534.4	4792.3
60°	4850.1	4742.8	4559.9	4600.4	4718.9	4708.4	4269.7	3985.5	4047.0	5020.3	5011.3
62.5°	5630.7	5509.2	5136.5	4956.6	4930.3	4910.1	4556.9	4316.2	4346.9	5371.2	4883.8
65°	6487.0	6356.5	5913.4	5618.7	5464.2	5420.7	5020.3	4715.1	4522.4	5370.5	4387.4
67.5°	7448.3	7310.4	6868.7	6587.5	6420.3	6346.0	5772.4	5037.5	4465.4	4916.1	3510.8
70°	8432.9	8301.7	8099.2	8197.4	8270.9	8157.7	6957.2	5144.8	4056.0	3854.3	2357.6
72.5°	7910.2	7899.7	8053.5	8984.8	10401.3	10423.8	8140.5	4841.8	3133.7	2290.8	1256.8
73°	7425.1	7469.3	7754.3	8868.6	10583.5	10591.0	8163.7	4685.1	2877.2	1973.6	1103.8
75°	3846.8	4146.7	5204.0	7191.1	9799.9	9835.1	7196.4	3546.8	1714.9	1096.3	743.9
77.5°	1030.3	1016.8	1676.7	3503.3	6533.5	6487.0	4547.1	1717.2	821.8	687.6	521.9
80°	353.2	357.7	570.6	1281.5	3049.7	3158.4	1973.6	749.1	540.6	479.2	369.7
82.5°	180.0	186.0	298.4	545.1	1275.5	1248.5	635.1	440.9	362.2	290.9	207.0
85°	96.0	99.0	164.2	282.7	467.9	473.2	223.5	235.5	230.2	165.0	102.0
87.5°	47.2	48.7	78.7	124.5	173.2	167.2	78.0	102.0	113.2	93.0	56.2
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°	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7	1787.7
2.5°	1775.7	1775.7	1785.4	1801.9	1813.9	1825.2	1832.7	1844.6	1851.4	1850.6	1849.9
5°	1763.7	1771.2	1790.7	1810.9	1824.4	1833.4	1833.4	1838.7	1838.7	1836.4	1833.4
7.5°	1735.9	1748.7	1777.2	1795.2	1798.9	1789.2	1769.7	1754.7	1735.9	1726.2	1722.4
10°	1691.7	1708.2	1744.2	1752.4	1732.9	1698.4	1651.2	1610.7	1574.7	1558.2	1553.0
12.5°	1648.2	1669.9	1703.7	1690.9	1644.4	1576.9	1504.2	1448.7	1408.2	1392.5	1387.2
15°	1612.2	1638.4	1664.7	1624.9	1544.0	1450.2	1370.0	1318.2	1287.5	1275.5	1272.5
17.5°	1588.2	1618.9	1627.9	1553.7	1441.2	1336.2	1265.0	1231.3	1217.8	1212.5	1211.0
20°	1589.7	1624.2	1602.4	1484.7	1342.2	1236.5	1189.3	1179.5	1179.5	1179.5	1178.8
22.5°	1630.9	1660.9	1591.9	1420.2	1247.0	1152.5	1132.3	1140.5	1146.5	1146.5	1145.8
25°	1716.4	1732.9	1599.4	1358.0	1157.8	1079.8	1080.5	1096.3	1101.5	1101.5	1100.0
27.5°	1846.9	1833.4	1612.9	1289.0	1070.0	1013.8	1024.3	1038.6	1042.3	1040.1	1039.3
30°	2010.4	1956.4	1624.2	1208.0	987.6	952.3	961.3	969.6	966.6	961.3	960.6
32.5°	2193.3	2081.6	1617.4	1117.3	914.8	888.6	893.8	898.3	893.8	881.1	881.1
35°	2374.8	2194.8	1580.7	1018.3	857.1	827.1	826.3	840.6	839.8	824.8	825.6
37.5°	2533.8	2284.1	1509.5	927.6	807.6	782.1	785.1	794.1	798.6	778.4	776.1
40°	2672.5	2345.6	1409.0	850.3	767.9	769.4	761.1	746.9	741.6	732.6	731.1
42.5°	2803.0	2388.3	1302.5	785.9	747.6	764.9	737.1	703.4	689.1	697.4	702.6
45°	2931.2	2436.3	1199.8	732.6	722.1	751.4	713.1	675.6	659.1	662.9	668.1
47.5°	3087.9	2503.0	1076.0	675.6	683.1	726.6	698.1	657.6	632.9	617.9	613.4
50°	3294.1	2599.8	915.6	614.1	641.9	699.6	685.4	631.4	604.4	574.4	566.9
52.5°	3552.1	2691.2	753.6	564.6	608.1	676.4	664.4	608.9	575.9	539.9	533.9
55°	3809.3	2704.0	614.1	521.9	569.9	644.9	638.9	590.9	544.4	515.2	509.2
57.5°	3989.2	2583.3	520.4	485.9	533.1	605.9	615.6	569.1	518.2	495.7	491.9
60°	3992.2	2294.6	463.4	461.9	505.4	572.1	591.6	543.6	501.7	486.7	483.7
62.5°	3675.1	1849.1	426.7	443.9	485.2	544.4	573.6	529.4	497.9	491.9	488.9
65°	3080.4	1366.2	397.4	427.4	466.4	521.2	558.6	524.9	496.4	494.2	491.9
67.5°	2274.3	936.6	372.7	406.4	445.4	497.2	544.4	518.2	487.4	496.4	493.4
70°	1430.7	625.4	349.4	382.4	417.7	469.4	525.6	506.2	476.2	470.9	461.2
72.5°	807.6	452.2	321.7	351.7	381.7	432.7	500.2	485.9	450.7	429.7	419.9
73°	729.6	428.2	314.9	344.2	373.4	425.2	494.2	479.9	443.2	419.9	410.9
75°	533.9	350.2	284.2	313.4	338.9	390.7	465.7	449.9	410.2	382.4	376.4
77.5°	386.9	269.9	244.5	270.7	293.2	342.7	422.9	404.9	365.9	350.9	344.9
80°	278.9	204.7	202.5	228.0	247.5	297.7	377.2	358.4	320.9	365.2	355.4
82.5°	166.5	131.2	148.5	177.0	197.2	249.7	327.7	305.9	269.9	272.9	232.5
85°	79.5	74.2	92.2	116.2	130.5	171.0	272.9	255.7	216.0	177.0	173.2
87.5°	35.2	33.7	44.2	51.7	69.7	102.7	186.7	165.7	156.7	93.7	73.5
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)