

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: P199273

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199273
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-8030-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 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: 10880 lumens
Efficiency: N/A
Efficacy: 85.0 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 - 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

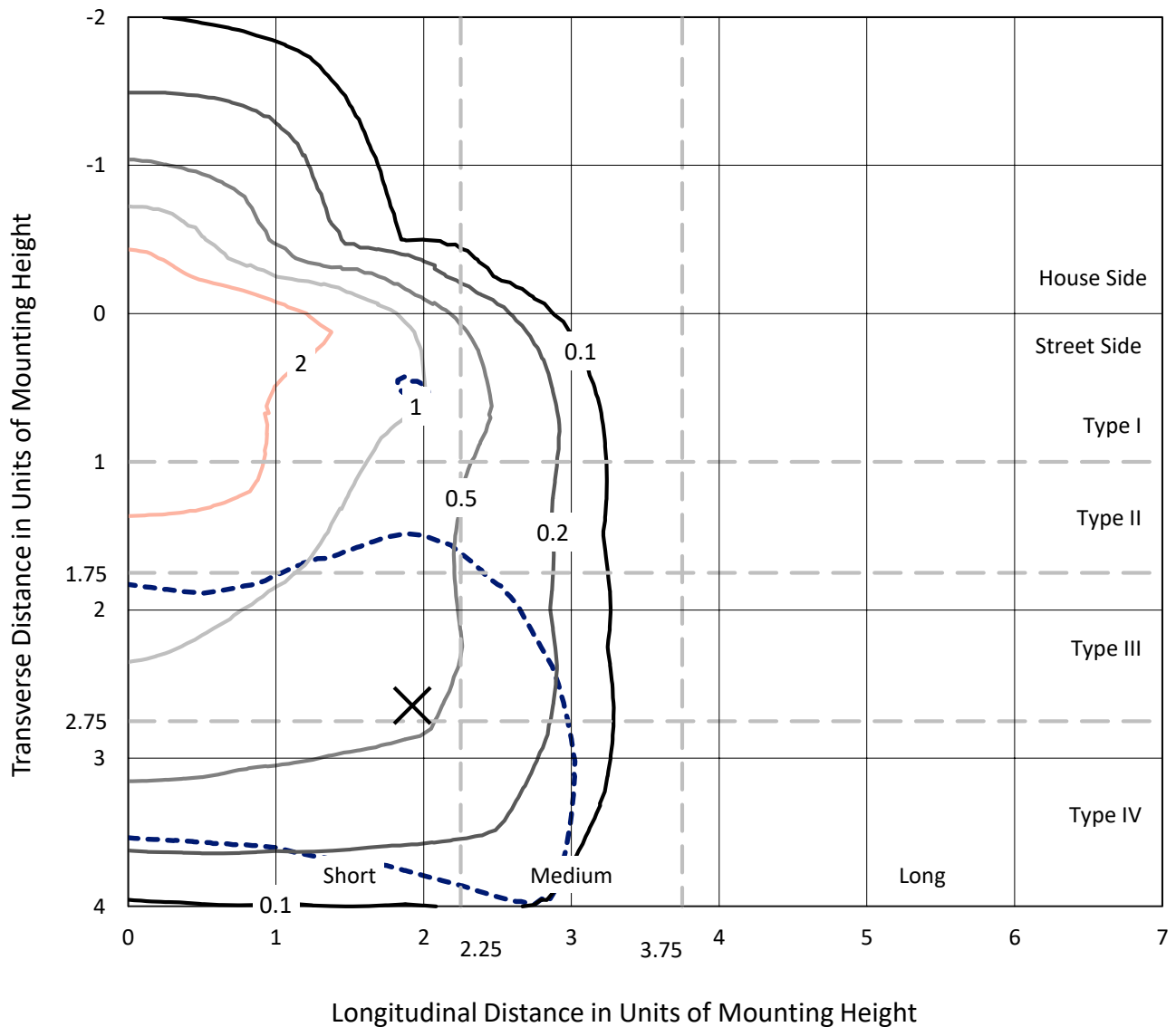


REPORT NUMBER: P199273

CATALOG NUMBER: XNV2-AF-02-LED-U-T4FT-8030-1200

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

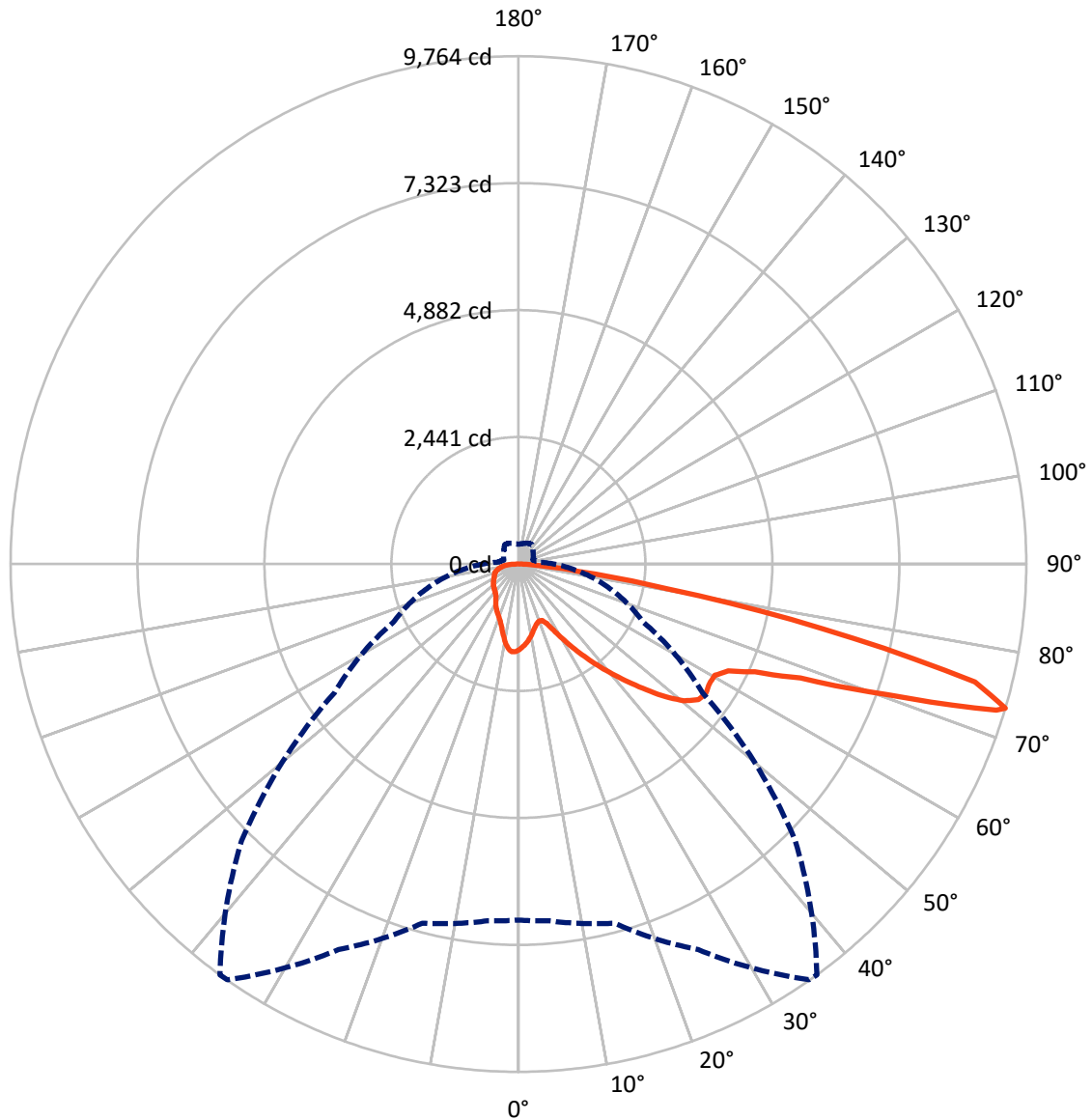


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P199273

CATALOG NUMBER: XNV2-AF-02-LED-U-T4FT-8030-1200

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: XNV2-AF-02-LED-U-T4FT-8030-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.0	0.0	2098.0
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	8782.0	0.0	8782.0
	% Fixture	80.7	0.0	80.7
Total	Lumens	10880.0	0.0	10880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	1.4
10°-20°	375.9	3.5
20°-30°	602.7	5.5
30°-40°	997.0	9.2
40°-50°	1542.7	14.2
50°-60°	2065.2	19.0
60°-70°	2697.8	24.8
70°-80°	2203.6	20.3
80°-90°	245.3	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°	10880.0	100.0
0°-180°	10880.0	100.0



REPORT NUMBER: P199273

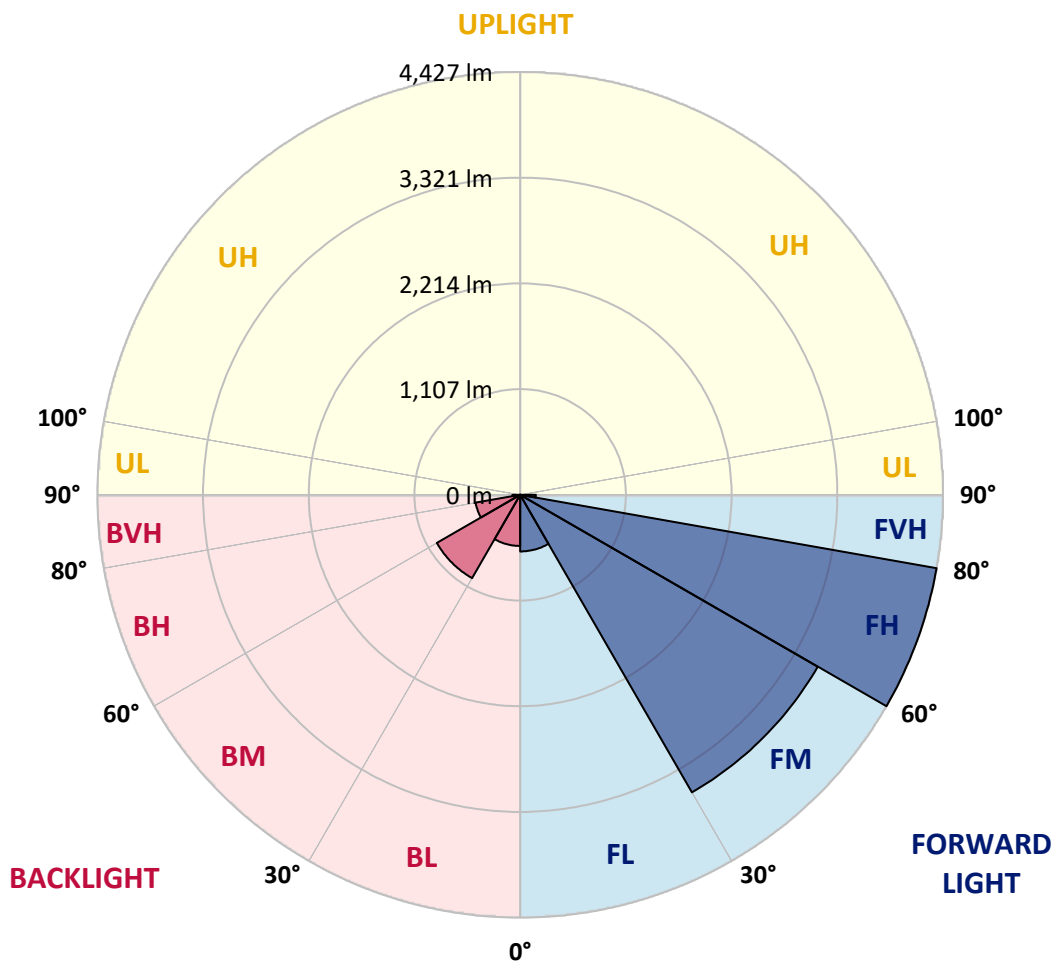
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	592.8	5.4			
FM (30°-60°)	3597.3	33.1			
FH (60°-80°)	4427.4	40.7			G2/5000
FVH (80°-90°)	164.5	1.5			G2/225
BL (0°-30°)	535.5	4.9	B2/1000		
BM (30°-60°)	1007.6	9.3	B2/2500		
BH (60°-80°)	474.1	4.4	B1/500		G1/500
BVH (80°-90°)	80.8	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: P199273

CATALOG NUMBER: XNV2-AF-02-LED-U-T4FT-8030-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0
2.5°	1585.1	1589.2	1589.9	1594.8	1594.8	1594.1	1596.2	1604.5	1608.6	1618.3	1626.6
5°	1507.0	1511.8	1513.9	1522.2	1532.6	1533.3	1540.9	1556.8	1572.0	1593.4	1611.4
7.5°	1419.2	1424.7	1430.3	1447.5	1462.7	1464.1	1478.6	1504.2	1524.3	1550.5	1583.0
10°	1334.2	1335.5	1341.1	1363.2	1383.2	1385.3	1406.1	1435.1	1462.1	1498.7	1535.3
12.5°	1264.3	1268.5	1267.1	1283.7	1301.0	1302.4	1330.0	1366.7	1406.1	1447.5	1491.1
15°	1240.2	1239.5	1224.9	1224.3	1231.9	1233.2	1260.2	1303.1	1347.3	1398.5	1454.4
17.5°	1256.7	1251.2	1213.2	1189.7	1184.8	1186.2	1206.3	1253.3	1300.3	1359.0	1426.1
20°	1348.0	1326.6	1237.4	1180.7	1164.8	1164.8	1176.6	1214.6	1266.4	1334.9	1419.2
22.5°	1564.4	1531.2	1341.1	1240.2	1184.2	1178.6	1169.6	1198.7	1256.0	1338.3	1447.5
25°	1836.7	1820.8	1531.2	1398.5	1283.0	1265.0	1205.6	1216.0	1277.5	1375.6	1525.0
27.5°	2089.0	2061.4	1780.7	1628.6	1465.5	1437.9	1312.0	1269.9	1328.6	1444.8	1636.9
30°	2236.3	2217.6	2037.2	1892.0	1697.8	1662.5	1482.1	1376.3	1419.9	1558.8	1795.9
32.5°	2396.7	2385.6	2294.3	2162.3	1949.4	1908.6	1701.9	1549.8	1559.5	1710.2	1987.4
35°	2552.2	2566.7	2514.9	2418.1	2220.4	2182.4	1997.1	1776.6	1731.6	1880.3	2192.0
37.5°	2738.8	2742.3	2709.8	2646.9	2505.2	2474.1	2321.3	2018.5	1919.0	2061.4	2389.7
40°	3111.4	3056.8	2929.6	2879.9	2795.5	2776.2	2602.0	2240.4	2093.2	2247.3	2576.4
42.5°	3514.5	3429.4	3230.3	3148.8	3114.9	3096.9	2835.6	2388.4	2256.3	2433.3	2759.6
45°	3839.4	3770.2	3575.3	3474.4	3478.5	3449.5	3039.5	2520.4	2433.3	2619.9	2964.2
47.5°	4159.4	4044.0	3825.5	3811.0	3859.4	3816.5	3234.5	2652.4	2617.9	2823.2	3168.8
50°	4180.2	4075.1	3986.6	4102.7	4185.7	4132.5	3411.5	2825.2	2809.3	3069.3	3432.9
52.5°	3927.8	3912.6	4047.4	4243.1	4380.6	4332.9	3555.9	3002.9	3005.0	3376.9	3754.3
55°	3835.9	3816.5	3978.3	4218.9	4404.8	4376.5	3663.8	3203.4	3222.0	3750.2	4099.3
57.5°	3990.7	3942.4	3974.1	4173.2	4348.1	4331.5	3775.8	3426.0	3459.8	4180.2	4417.9
60°	4471.2	4372.3	4203.7	4241.0	4350.2	4340.5	3936.1	3674.1	3730.8	4628.1	4619.8
62.5°	5190.8	5078.8	4735.2	4569.3	4545.1	4526.5	4200.9	3979.0	4007.3	4951.6	4502.3
65°	5980.2	5860.0	5451.4	5179.7	5037.3	4997.2	4628.1	4346.7	4169.1	4950.9	4044.7
67.5°	6866.5	6739.3	6332.1	6072.9	5918.7	5850.3	5321.4	4644.0	4116.6	4532.0	3236.6
70°	7774.1	7653.1	7466.5	7557.0	7624.8	7520.4	6413.7	4742.8	3739.1	3553.2	2173.4
72.5°	7292.3	7282.6	7424.3	8282.9	9588.7	9609.4	7504.5	4463.6	2888.8	2111.9	1158.6
73°	6845.0	6885.8	7148.5	8175.7	9756.7	9763.6	7525.9	4319.1	2652.4	1819.4	1017.6
75°	3546.2	3822.8	4797.5	6629.3	9034.3	9066.8	6634.2	3269.7	1580.9	1010.6	685.7
77.5°	949.8	937.4	1545.7	3229.6	6023.1	5980.2	4191.9	1583.0	757.6	633.9	481.1
80°	325.6	329.7	526.1	1181.4	2811.4	2911.7	1819.4	690.6	498.4	441.7	340.8
82.5°	165.9	171.4	275.1	502.6	1175.9	1151.0	585.5	406.5	333.9	268.2	190.8
85°	88.5	91.2	151.4	260.6	431.4	436.2	206.0	217.1	212.2	152.1	94.0
87.5°	43.6	44.9	72.6	114.8	159.7	154.2	71.9	94.0	104.4	85.7	51.8
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: P199273

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0	1648.0
2.5°	1636.9	1636.9	1645.9	1661.1	1672.2	1682.6	1689.5	1700.5	1706.8	1706.1	1705.4
5°	1625.9	1632.8	1650.8	1669.4	1681.9	1690.2	1690.2	1695.0	1695.0	1692.9	1690.2
7.5°	1600.3	1612.1	1638.3	1654.9	1658.4	1649.4	1631.4	1617.6	1600.3	1591.3	1587.9
10°	1559.5	1574.7	1607.9	1615.5	1597.5	1565.7	1522.2	1484.9	1451.7	1436.5	1431.6
12.5°	1519.4	1539.5	1570.6	1558.8	1516.0	1453.8	1386.7	1335.5	1298.2	1283.7	1278.9
15°	1486.2	1510.4	1534.6	1498.0	1423.3	1336.9	1263.0	1215.3	1186.9	1175.9	1173.1
17.5°	1464.1	1492.5	1500.8	1432.3	1328.6	1231.9	1166.2	1135.1	1122.6	1117.8	1116.4
20°	1465.5	1497.3	1477.3	1368.7	1237.4	1139.9	1096.4	1087.4	1087.4	1087.4	1086.7
22.5°	1503.5	1531.2	1467.6	1309.3	1149.6	1062.5	1043.8	1051.4	1057.0	1057.0	1056.3
25°	1582.3	1597.5	1474.5	1251.9	1067.3	995.4	996.1	1010.6	1015.5	1015.5	1014.1
27.5°	1702.6	1690.2	1486.9	1188.3	986.5	934.6	944.3	957.4	960.9	958.8	958.1
30°	1853.3	1803.5	1497.3	1113.6	910.4	877.9	886.2	893.8	891.1	886.2	885.5
32.5°	2022.0	1919.0	1491.1	1030.0	843.4	819.2	824.0	828.1	824.0	812.3	812.3
35°	2189.3	2023.4	1457.2	938.8	790.1	762.5	761.8	774.9	774.2	760.4	761.1
37.5°	2335.8	2105.6	1391.5	855.1	744.5	721.0	723.8	732.1	736.2	717.5	715.5
40°	2463.7	2162.3	1298.9	783.9	707.9	709.2	701.6	688.5	683.7	675.4	674.0
42.5°	2584.0	2201.7	1200.7	724.5	689.2	705.1	679.5	648.4	635.3	642.9	647.7
45°	2702.2	2246.0	1106.0	675.4	665.7	692.7	657.4	622.8	607.6	611.1	615.9
47.5°	2846.7	2307.5	992.0	622.8	629.8	669.8	643.6	606.2	583.4	569.6	565.5
50°	3036.8	2396.7	844.0	566.2	591.7	645.0	631.8	582.1	557.2	529.5	522.6
52.5°	3274.6	2481.0	694.7	520.5	560.6	623.5	612.5	561.3	530.9	497.7	492.2
55°	3511.7	2492.7	566.2	481.1	525.4	594.5	589.0	544.7	501.9	474.9	469.4
57.5°	3677.6	2381.4	479.7	447.9	491.5	558.6	567.5	524.7	477.7	456.9	453.5
60°	3680.4	2115.3	427.2	425.8	465.9	527.4	545.4	501.2	462.5	448.6	445.9
62.5°	3387.9	1704.7	393.3	409.2	447.3	501.9	528.8	488.0	459.0	453.5	450.7
65°	2839.8	1259.5	366.4	394.0	430.0	480.4	515.0	483.9	457.6	455.6	453.5
67.5°	2096.6	863.4	343.6	374.7	410.6	458.3	501.9	477.7	449.3	457.6	454.9
70°	1319.0	576.5	322.1	352.6	385.0	432.7	484.6	466.6	439.0	434.1	425.1
72.5°	744.5	416.8	296.6	324.2	351.9	398.9	461.1	447.9	415.5	396.1	387.1
73°	672.6	394.7	290.3	317.3	344.3	392.0	455.6	442.4	408.5	387.1	378.8
75°	492.2	322.8	262.0	289.0	312.5	360.2	429.3	414.8	378.1	352.6	347.0
77.5°	356.7	248.9	225.4	249.6	270.3	315.9	389.9	373.3	337.3	323.5	318.0
80°	257.2	188.7	186.6	210.1	228.1	274.4	347.7	330.4	295.9	336.7	327.7
82.5°	153.5	121.0	136.9	163.1	181.8	230.2	302.1	282.0	248.9	251.6	214.3
85°	73.3	68.4	85.0	107.1	120.3	157.6	251.6	235.7	199.1	163.1	159.7
87.5°	32.5	31.1	40.8	47.7	64.3	94.7	172.1	152.8	144.5	86.4	67.7
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)