

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: P199265

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)  
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-T3R-8030-1200  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10978 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

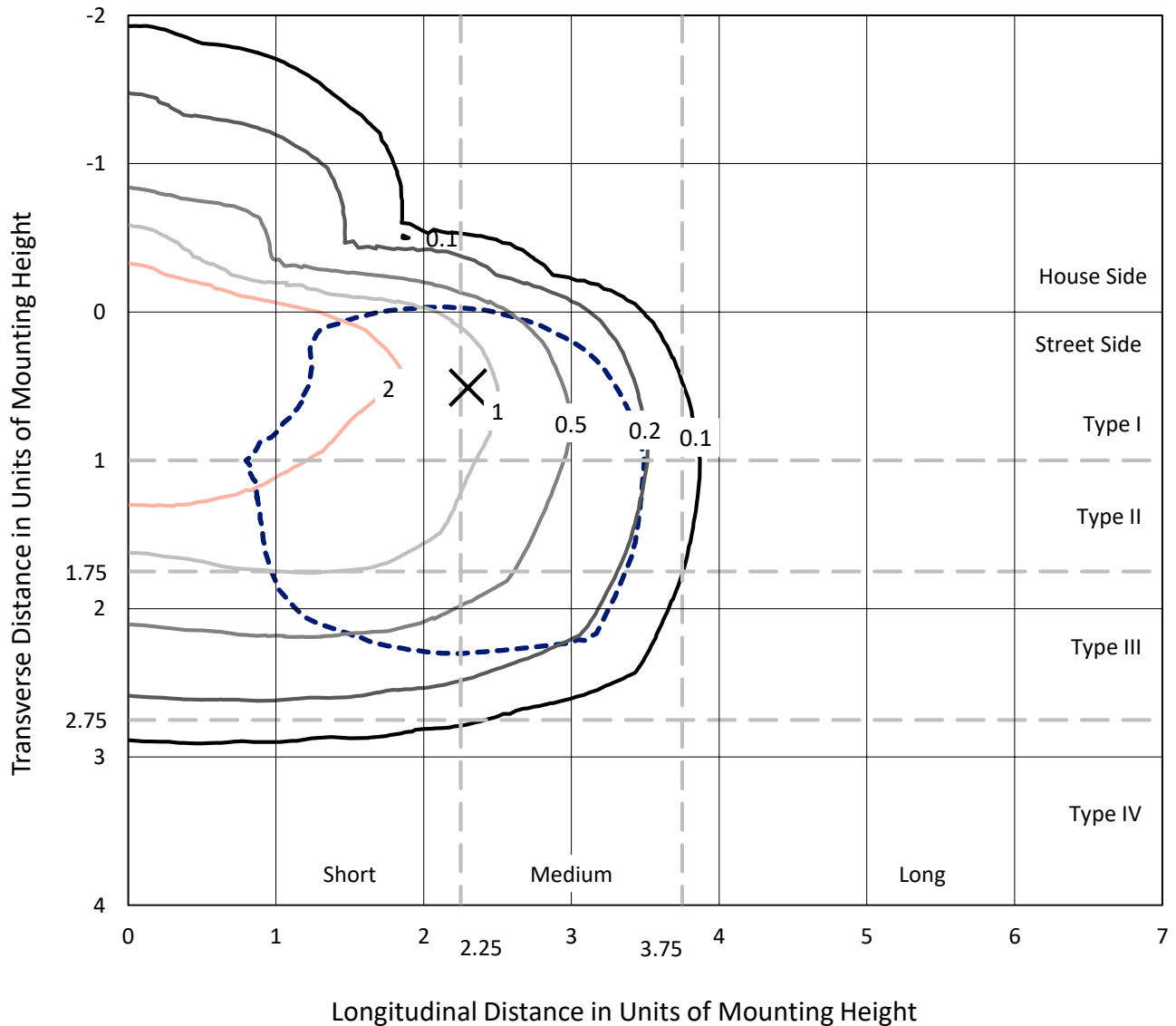
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P199265  
 CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-1200

### Iso-Footcandle Lines of Horizontal Illumination

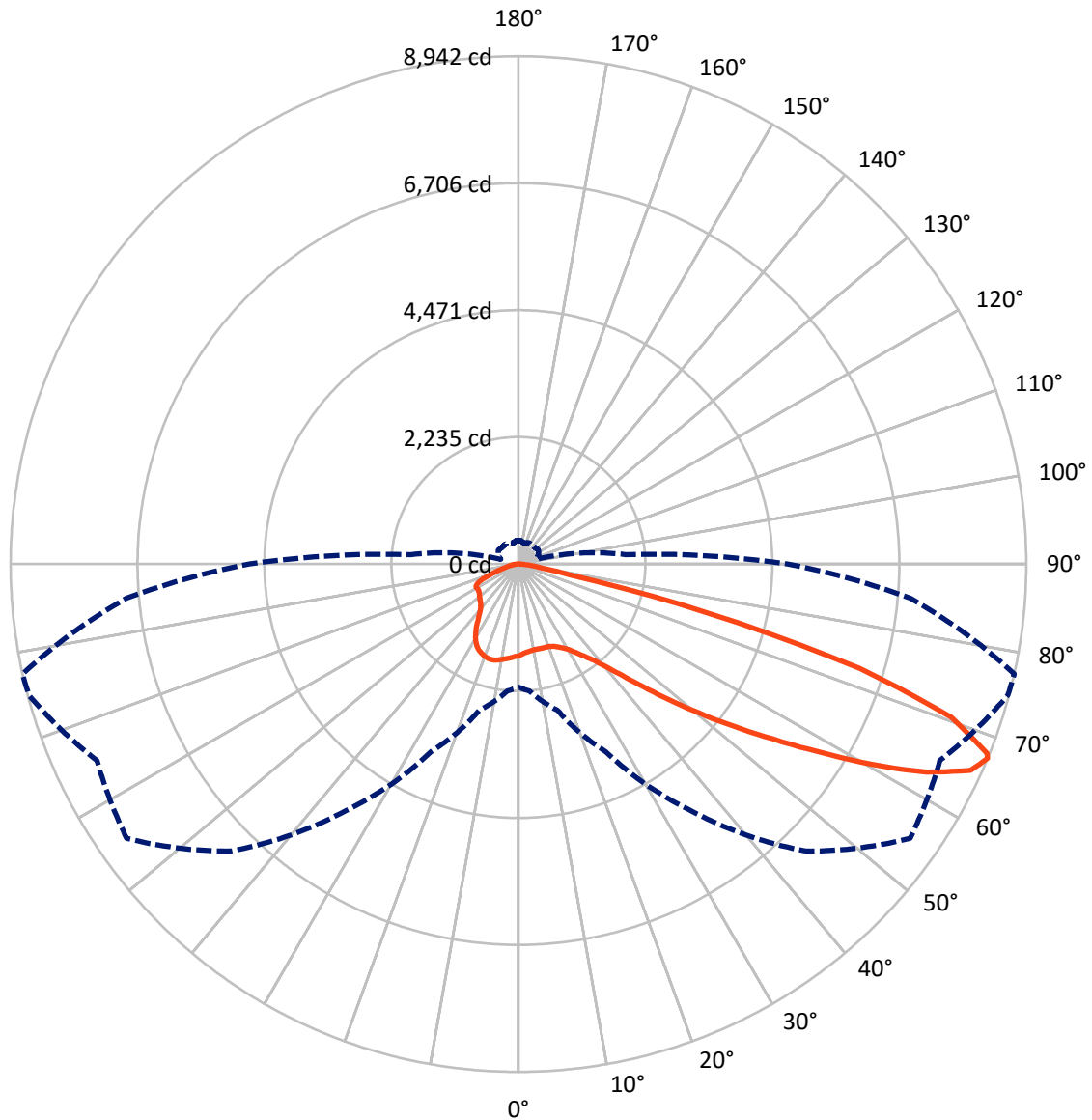
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Medium - Full Cutoff

REPORT NUMBER: P199265  
CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-1200

### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-1200

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1886.6	0.0	1886.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	9091.4	0.0	9091.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	10978.0	0.0	10978.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.9	1.3
10°-20°	398.5	3.6
20°-30°	677.1	6.2
30°-40°	1083.2	9.9
40°-50°	1667.6	15.2
50°-60°	2313.6	21.1
60°-70°	3086.2	28.1
70°-80°	1468.7	13.4
80°-90°	139.1	1.3
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°	10978.0	100.0
0°-180°	10978.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P199265

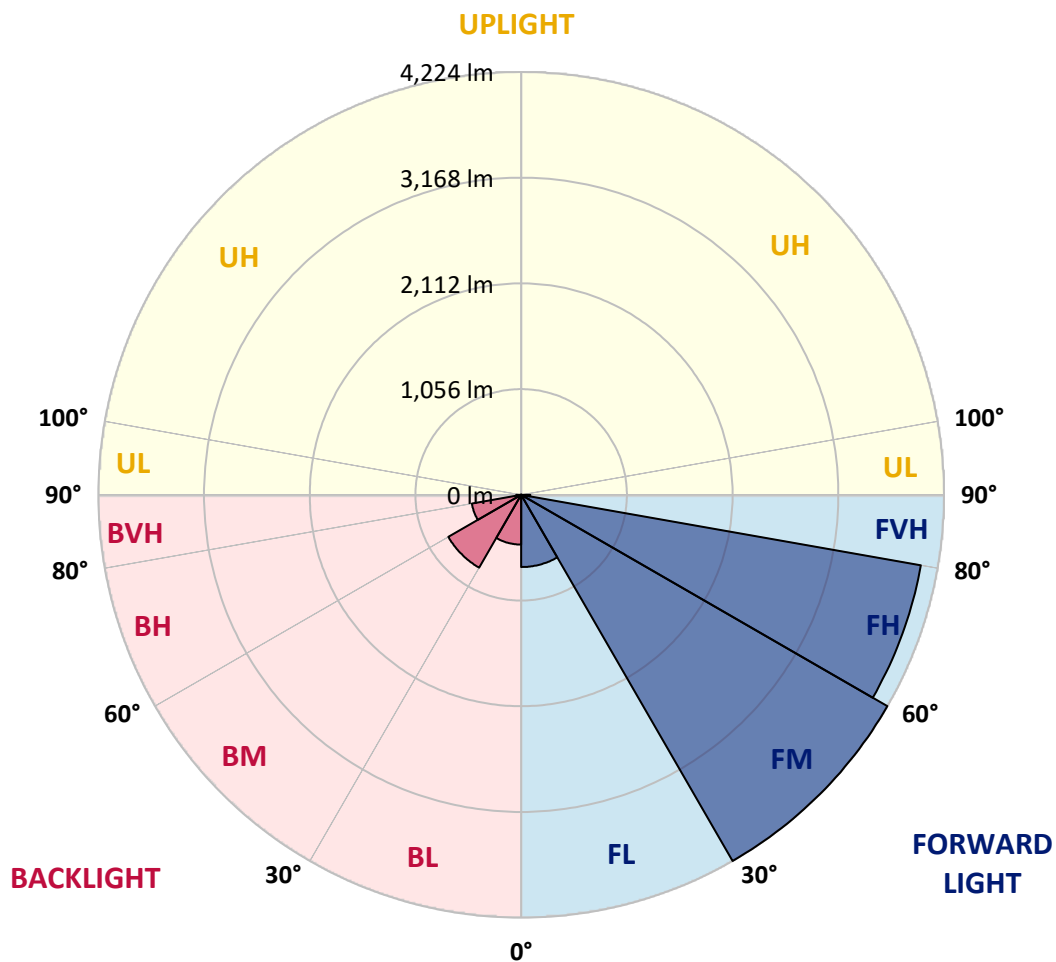
CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-1200

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	721.9	6.6			
FM	(30°-60°)	4224.4	38.5			
FH	(60°-80°)	4054.8	36.9			G2/5000
FVH	(80°-90°)	90.3	0.8			G1/100
BL	(0°-30°)	497.6	4.5	B1/500		
BM	(30°-60°)	840.0	7.7	B1/1000		
BH	(60°-80°)	500.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	48.7	0.4			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 III Medium





REPORT NUMBER: P199265

CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-1200

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1448.7	1455.5	1456.2	1475.9	1484.7	1507.1	1531.5	1553.2	1572.2	1579.0	1591.2
5°	1303.5	1303.5	1305.6	1318.5	1343.6	1379.5	1430.4	1486.1	1544.4	1558.7	1594.6
7.5°	1227.5	1228.9	1230.2	1243.1	1262.8	1294.7	1345.6	1421.6	1518.6	1542.4	1605.5
10°	1234.3	1232.3	1225.5	1222.8	1230.9	1251.3	1295.4	1373.4	1496.9	1533.6	1625.2
12.5°	1340.9	1336.8	1314.4	1281.8	1252.0	1244.5	1275.0	1349.0	1486.7	1533.6	1658.4
15°	1523.4	1526.1	1482.0	1414.1	1336.1	1283.2	1279.1	1340.2	1483.4	1537.6	1697.1
17.5°	1760.9	1762.2	1701.2	1602.8	1473.2	1363.9	1306.9	1340.2	1483.4	1541.7	1734.4
20°	2013.3	2003.8	1934.6	1811.1	1642.8	1475.9	1357.8	1348.3	1487.4	1547.8	1769.7
22.5°	2229.8	2221.0	2148.3	2018.7	1826.0	1608.2	1426.4	1375.5	1509.8	1572.9	1819.2
25°	2419.1	2424.5	2354.0	2208.1	2008.6	1757.5	1528.8	1437.9	1556.6	1618.4	1880.3
27.5°	2649.1	2639.0	2557.5	2418.4	2196.5	1912.2	1657.1	1516.6	1612.3	1673.4	1955.0
30°	2915.1	2910.4	2800.5	2657.3	2403.5	2085.2	1784.0	1601.4	1684.9	1748.7	2048.6
32.5°	3238.1	3237.5	3119.4	2943.6	2636.2	2280.7	1933.9	1717.5	1790.7	1855.2	2172.8
35°	3603.9	3603.2	3481.1	3249.0	2904.3	2497.1	2110.4	1858.6	1921.7	1989.6	2320.7
37.5°	3857.7	3853.6	3789.8	3564.5	3200.8	2748.9	2330.9	2048.6	2070.3	2146.3	2499.2
40°	3906.5	3931.0	3985.9	3852.9	3524.5	3028.5	2552.1	2252.8	2273.2	2370.9	2723.8
42.5°	3853.6	3885.5	4068.0	4105.3	3848.2	3367.1	2829.0	2535.8	2561.6	2683.1	2987.7
45°	3807.5	3835.3	4064.0	4245.1	4167.8	3736.2	3174.3	2881.2	2930.1	3080.7	3289.0
47.5°	3728.7	3754.5	3983.9	4270.2	4350.3	4091.8	3590.3	3296.5	3380.6	3563.2	3632.4
50°	3724.7	3736.2	3874.6	4186.1	4413.4	4361.8	4051.1	3782.3	3911.3	4121.6	4012.4
52.5°	3621.5	3702.3	3827.8	4051.7	4414.8	4519.3	4505.0	4315.0	4513.8	4746.6	4429.0
55°	2990.5	3083.4	3671.7	3985.9	4406.6	4654.3	4919.6	4881.6	5192.4	5437.4	4895.9
57.5°	2792.3	2831.7	3221.2	4005.6	4474.5	4877.6	5334.2	5490.3	5968.7	6236.1	5455.7
60°	2738.0	2779.4	3130.9	4015.1	4658.4	5284.0	5896.8	6177.7	6881.4	7165.0	6091.5
62.5°	2677.6	2731.2	3137.7	4023.9	4981.4	5885.2	6643.2	6923.4	7818.5	8071.6	6687.3
65°	2501.2	2572.5	3012.2	3968.3	5334.9	6639.8	7629.8	7701.1	8592.7	8753.5	7046.9
67°	2166.7	2244.7	2667.5	3646.6	5302.3	7148.0	8419.0	8187.6	8921.8	8941.5	6930.2
67.5°	2060.8	2141.6	2550.7	3513.0	5209.4	7214.5	8558.8	8254.8	8919.1	8897.4	6821.7
70°	1387.7	1478.6	1806.4	2579.2	4178.6	6714.4	8524.9	8047.8	8334.2	8085.2	5860.8
72.5°	688.7	691.5	901.1	1412.8	2531.7	4815.8	7111.4	6884.8	6755.8	6285.6	4300.8
75°	331.8	337.9	425.5	624.3	1067.4	2486.3	4849.7	4645.5	3955.4	3424.7	2152.4
77.5°	253.1	259.2	330.5	406.5	445.1	810.9	2402.1	1941.4	1146.1	915.4	606.6
80°	195.4	207.0	278.9	312.1	294.5	325.0	755.2	594.4	445.8	409.2	300.6
82.5°	152.7	159.5	236.8	236.8	203.6	217.8	351.5	343.4	276.9	249.7	161.5
85°	107.9	121.5	190.7	176.4	133.7	135.0	210.4	201.5	142.5	114.7	63.1
87.5°	48.2	61.7	135.7	115.4	71.2	55.0	86.2	74.0	56.3	43.4	29.2
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: P199265

CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-1200

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7	1615.7
2.5°	1604.8	1615.7	1632.6	1642.8	1656.4	1661.8	1667.2	1676.7	1684.2	1682.2	1678.8
5°	1619.7	1638.1	1659.1	1665.9	1665.9	1659.1	1655.0	1655.7	1653.7	1652.3	1648.2
7.5°	1641.5	1666.6	1681.5	1674.7	1653.7	1627.2	1602.1	1587.2	1572.9	1564.1	1566.8
10°	1672.0	1699.8	1700.5	1670.6	1620.4	1562.7	1513.2	1481.3	1450.8	1437.2	1441.3
12.5°	1716.1	1743.9	1720.2	1655.7	1567.5	1477.2	1386.3	1320.5	1261.5	1247.2	1243.1
15°	1763.6	1785.3	1732.4	1623.8	1491.5	1342.9	1190.2	1091.8	1026.0	1014.5	1010.4
17.5°	1805.0	1817.2	1726.3	1566.8	1371.4	1137.3	959.5	893.0	879.4	886.2	886.2
20°	1841.6	1837.6	1699.8	1478.6	1182.1	909.3	806.1	805.5	823.8	840.7	842.1
22.5°	1887.8	1855.9	1657.7	1347.6	956.1	758.6	741.0	758.6	779.0	798.0	800.0
25°	1942.7	1876.2	1601.4	1161.0	768.8	688.7	696.2	711.1	724.0	739.0	739.6
27.5°	1997.7	1891.9	1522.0	941.9	667.0	644.0	652.1	658.2	661.6	671.1	671.1
30°	2061.5	1904.1	1407.4	754.6	620.2	604.6	599.9	597.1	599.9	612.7	613.4
32.5°	2141.6	1925.8	1250.6	647.4	598.5	576.8	552.4	538.8	548.3	571.4	575.4
35°	2232.5	1951.6	1062.6	604.6	591.0	563.2	518.4	497.4	500.8	521.8	525.2
37.5°	2346.5	1984.8	877.4	594.4	598.5	561.9	502.8	473.0	458.0	458.7	458.0
40°	2492.4	2018.1	730.8	597.1	614.8	565.2	495.4	448.5	417.3	418.7	421.4
42.5°	2645.1	2039.8	637.9	605.3	634.5	570.0	492.6	424.8	397.6	420.7	441.7
45°	2823.5	2033.7	589.7	612.7	649.4	572.0	482.5	422.1	399.7	468.9	508.2
47.5°	3028.5	2007.2	562.5	616.1	653.5	571.4	475.0	430.9	416.6	536.7	581.5
50°	3251.0	1965.8	540.8	610.7	651.4	568.6	483.1	441.7	423.4	551.7	586.3
52.5°	3494.6	1927.8	518.4	598.5	641.2	560.5	493.3	437.0	404.4	508.2	534.7
55°	3783.0	1919.0	493.3	577.5	624.3	551.7	487.9	422.1	383.4	450.6	466.9
57.5°	4112.8	1974.0	460.7	551.7	601.2	534.0	475.0	413.9	375.9	409.9	418.7
60°	4531.5	2095.4	426.1	524.5	572.7	507.6	463.5	416.0	378.0	403.7	405.8
62.5°	4858.6	2204.7	394.9	491.3	534.7	475.7	451.2	418.0	384.1	411.9	408.5
65°	4977.3	2151.1	356.2	441.7	481.1	440.4	434.3	419.4	384.1	416.6	409.2
67°	4733.7	1895.2	319.6	392.2	430.2	409.2	418.0	413.9	377.3	416.0	403.1
67.5°	4617.7	1805.0	310.1	384.1	416.6	399.7	413.9	411.2	375.2	414.6	399.7
70°	3808.1	1294.7	261.9	322.3	348.8	352.2	388.8	393.6	359.0	389.5	362.4
72.5°	2709.5	810.2	226.0	249.7	281.6	301.3	354.9	369.8	337.2	338.6	316.2
75°	1340.9	435.0	201.5	192.7	219.2	251.1	309.4	337.2	305.4	282.3	274.8
77.5°	452.6	246.3	170.3	155.4	170.3	201.5	256.5	294.5	269.4	238.9	234.1
80°	234.1	179.1	133.0	124.9	134.4	156.1	200.9	245.0	230.0	231.4	190.7
82.5°	145.9	109.2	95.7	95.0	101.8	119.4	147.9	198.8	197.5	169.0	122.8
85°	67.9	63.1	61.1	63.1	65.1	67.9	96.4	141.8	150.0	90.9	80.7
87.5°	28.5	27.8	24.4	26.5	29.2	28.5	38.7	60.4	84.1	57.0	52.2
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)