

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: P271352

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271352
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-7027-1200
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 11688.5 lumens
Efficiency: N/A
Efficacy: 91.3 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

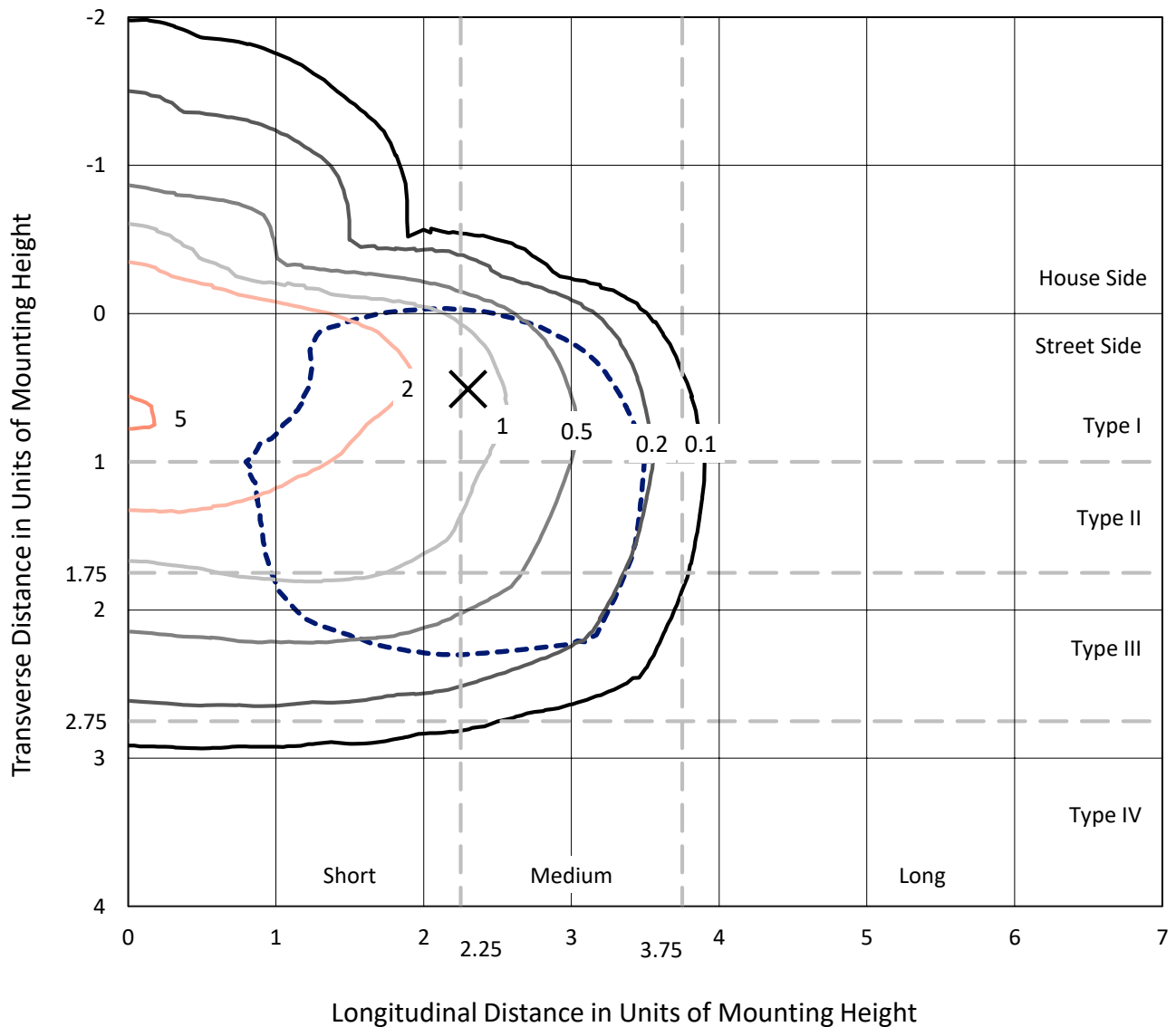


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

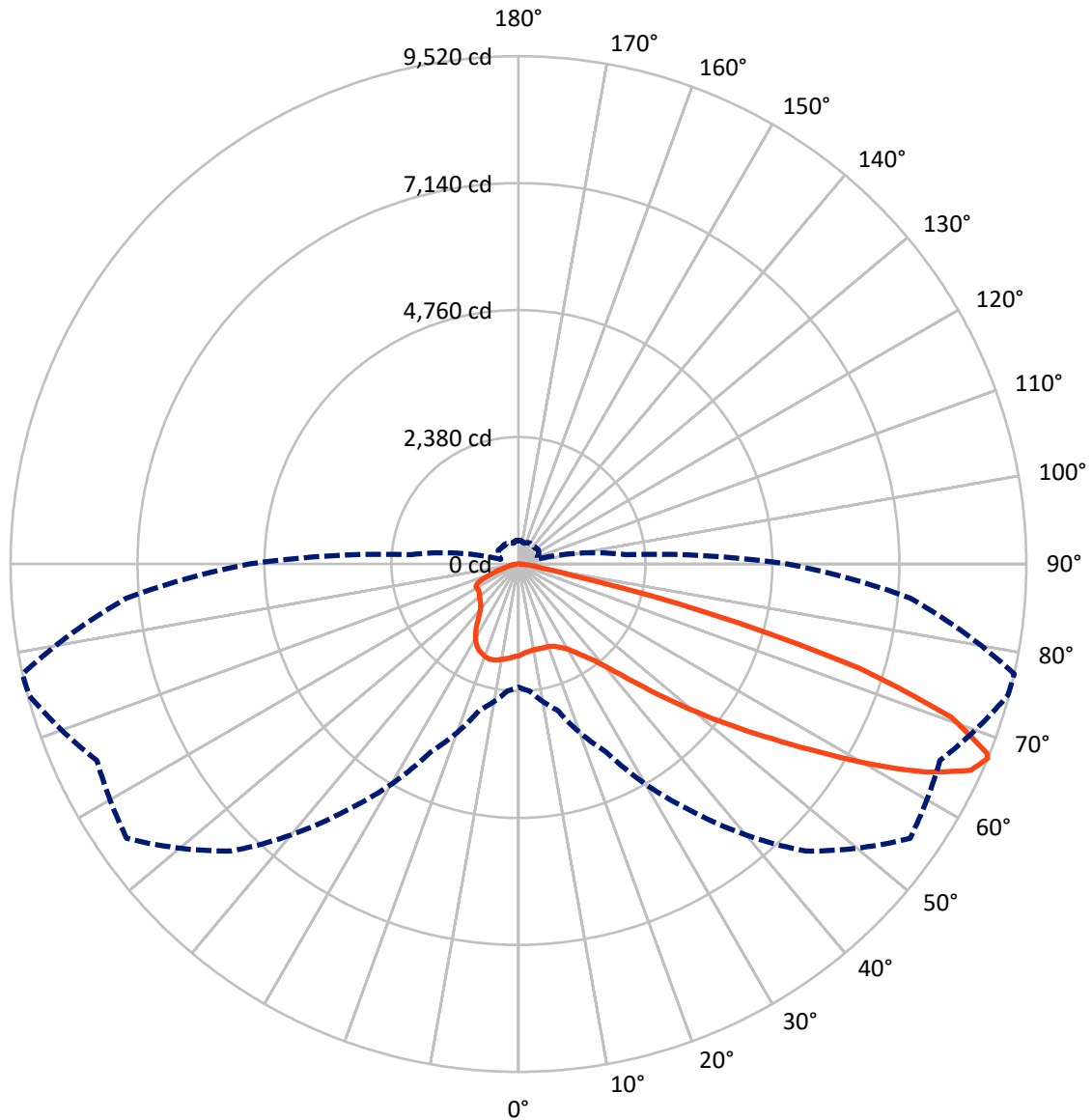


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2008.7	0.0	2008.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	9679.8	0.0	9679.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	11688.5	0.0	11688.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.2	1.3
10°-20°	424.3	3.6
20°-30°	720.9	6.2
30°-40°	1153.3	9.9
40°-50°	1775.5	15.2
50°-60°	2463.4	21.1
60°-70°	3286.0	28.1
70°-80°	1563.8	13.4
80°-90°	148.1	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°	11688.5	100.0
0°-180°	11688.5	100.0

Coefficient of Utilization



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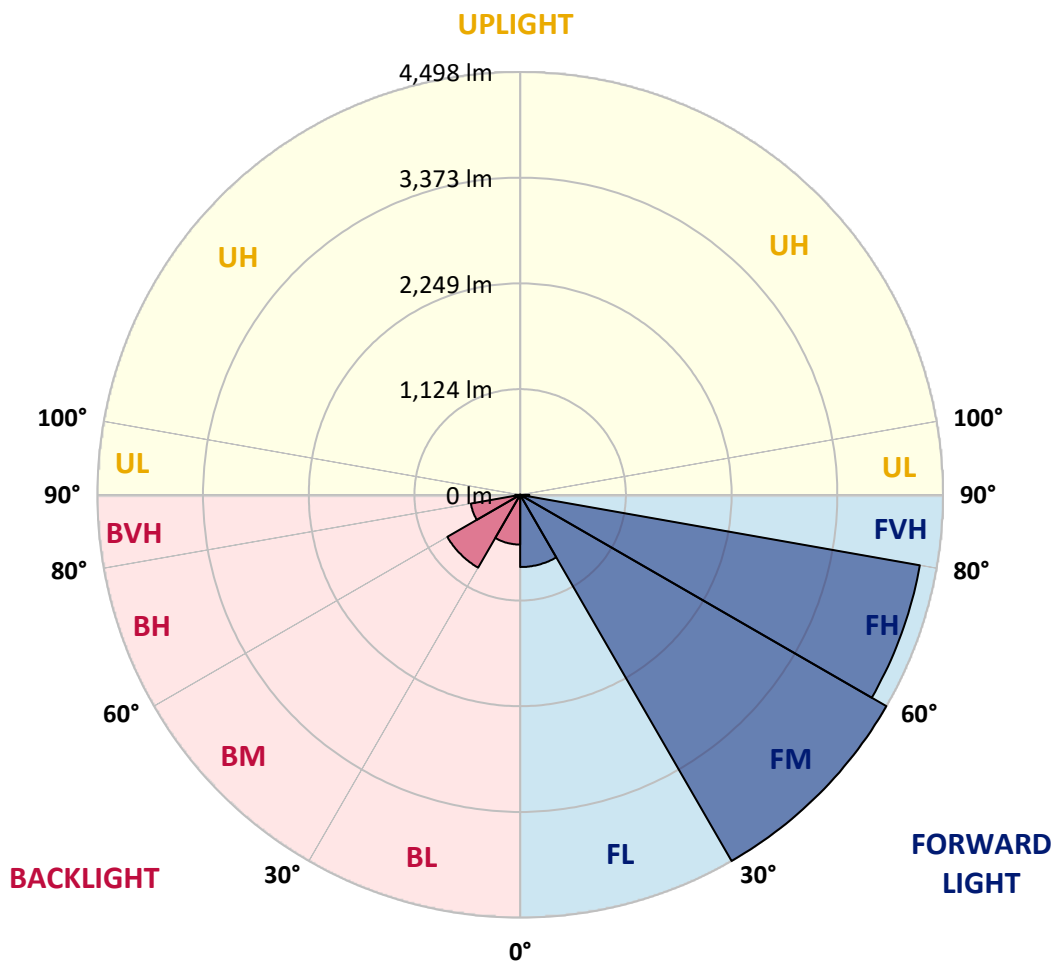
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.6	6.6			
FM (30°-60°)	4497.8	38.5			
FH (60°-80°)	4317.2	36.9			G2/5000
FVH (80°-90°)	96.2	0.8			G1/100
BL (0°-30°)	529.8	4.5	B2/1000		
BM (30°-60°)	894.4	7.7	B1/1000		
BH (60°-80°)	532.6	4.6	B2/1000		G2/1000
BVH (80°-90°)	51.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1542.5	1549.8	1550.5	1571.5	1580.7	1604.6	1630.7	1653.8	1674.0	1681.2	1694.3
5°	1387.9	1387.9	1390.0	1403.8	1430.6	1468.8	1522.9	1582.3	1644.3	1659.6	1697.8
7.5°	1306.9	1308.4	1309.9	1323.7	1344.6	1378.4	1432.6	1513.6	1616.9	1642.2	1709.5
10°	1314.2	1312.1	1304.8	1302.0	1310.5	1332.2	1379.2	1462.4	1593.9	1632.8	1730.3
12.5°	1427.6	1423.3	1399.5	1364.7	1332.9	1325.0	1357.6	1436.3	1583.0	1632.8	1765.8
15°	1622.0	1624.9	1578.0	1505.6	1422.6	1366.2	1361.9	1426.9	1579.3	1637.2	1806.9
17.5°	1874.9	1876.3	1811.3	1706.5	1568.5	1452.2	1391.6	1426.9	1579.3	1641.6	1846.6
20°	2143.6	2133.6	2059.9	1928.3	1749.1	1571.5	1445.7	1435.6	1583.7	1648.0	1884.3
22.5°	2374.1	2364.7	2287.4	2149.4	1944.2	1712.3	1518.7	1464.4	1607.5	1674.7	1936.9
25°	2575.7	2581.4	2506.4	2351.0	2138.5	1871.2	1627.8	1530.9	1657.4	1723.0	2002.1
27.5°	2820.6	2809.8	2723.0	2574.9	2338.6	2036.0	1764.4	1614.8	1716.7	1781.7	2081.5
30°	3103.9	3098.8	2981.7	2829.2	2559.0	2220.3	1899.3	1705.1	1793.9	1861.8	2181.2
32.5°	3447.7	3446.9	3321.3	3134.1	2806.8	2428.3	2059.1	1828.6	1906.7	1975.3	2313.3
35°	3837.1	3836.4	3706.3	3459.3	3092.2	2658.8	2246.9	1978.8	2046.1	2118.4	2470.9
37.5°	4107.3	4103.0	4035.0	3795.2	3408.0	2926.8	2481.7	2181.2	2204.4	2285.2	2660.9
40°	4159.3	4185.4	4243.9	4102.3	3752.6	3224.5	2717.3	2398.7	2420.4	2524.3	2900.1
42.5°	4103.0	4137.0	4331.3	4371.1	4097.2	3585.0	3012.0	2699.9	2727.3	2856.7	3181.1
45°	4053.8	4083.4	4327.0	4519.8	4437.4	3978.1	3379.9	3067.6	3119.6	3280.2	3502.0
47.5°	3970.1	3997.5	4241.6	4546.6	4631.8	4356.6	3822.6	3509.9	3599.4	3793.7	3867.5
50°	3965.7	3978.1	4125.3	4457.0	4699.0	4644.1	4313.2	4027.1	4164.5	4388.4	4272.1
52.5°	3856.0	3941.9	4075.5	4313.9	4700.6	4811.7	4796.6	4594.3	4805.9	5053.8	4715.7
55°	3184.0	3282.9	3909.3	4243.9	4691.8	4955.5	5237.9	5197.6	5528.4	5789.2	5212.8
57.5°	2973.0	3014.9	3429.5	4264.9	4764.0	5193.2	5679.4	5845.6	6355.0	6639.6	5808.8
60°	2915.2	2959.2	3333.5	4274.9	4959.8	5625.9	6278.3	6577.5	7326.8	7628.6	6485.8
62.5°	2851.0	2908.1	3340.7	4284.3	5303.8	6266.0	7073.2	7371.5	8324.5	8593.9	7120.1
65°	2663.0	2738.9	3207.0	4225.1	5680.2	7069.5	8123.6	8199.5	9148.8	9320.0	7503.1
67°	2306.8	2390.0	2840.1	3882.7	5645.5	7610.6	8963.8	8717.5	9499.2	9520.1	7378.8
67.5°	2194.2	2280.2	2715.8	3740.4	5546.6	7681.4	9112.6	8788.9	9496.3	9473.3	7263.2
70°	1477.5	1574.3	1923.2	2746.2	4449.0	7149.0	9076.6	8568.7	8873.5	8608.4	6240.0
72.5°	733.3	736.3	959.5	1504.2	2695.5	5127.4	7571.6	7330.3	7193.1	6692.4	4579.1
75°	353.4	359.9	452.9	664.7	1136.4	2647.1	5163.5	4946.1	4211.3	3646.4	2291.8
77.5°	269.5	276.0	351.9	432.8	473.9	863.5	2557.7	2067.0	1220.3	974.7	645.9
80°	208.0	220.4	296.9	332.4	313.6	346.0	804.2	632.9	474.7	435.7	320.1
82.5°	162.6	169.8	252.2	252.2	216.8	231.9	374.2	365.6	294.7	265.9	171.9
85°	114.9	129.4	202.9	187.8	142.3	143.8	223.9	214.5	151.8	122.1	67.3
87.5°	51.4	65.8	144.4	122.8	75.8	58.5	91.7	78.7	59.9	46.3	31.1
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°	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3	1720.3
2.5°	1708.7	1720.3	1738.3	1749.1	1763.6	1769.3	1775.1	1785.2	1793.1	1791.0	1787.4
5°	1724.6	1744.1	1766.4	1773.8	1773.8	1766.4	1762.1	1762.8	1760.7	1759.2	1754.8
7.5°	1747.7	1774.4	1790.3	1783.0	1760.7	1732.6	1705.8	1689.9	1674.7	1665.3	1668.2
10°	1780.3	1809.8	1810.5	1778.7	1725.3	1663.9	1611.1	1577.2	1544.6	1530.3	1534.6
12.5°	1827.2	1856.7	1831.6	1762.8	1669.0	1572.8	1476.1	1405.9	1343.1	1328.0	1323.7
15°	1877.7	1900.9	1844.5	1728.9	1588.1	1429.8	1267.1	1162.4	1092.3	1080.1	1075.8
17.5°	1921.8	1934.8	1838.0	1668.2	1460.1	1210.8	1021.6	950.8	936.4	943.6	943.6
20°	1960.8	1956.5	1809.8	1574.3	1258.5	968.2	858.3	857.6	877.0	895.2	896.6
22.5°	2010.0	1976.0	1765.0	1434.9	1018.0	807.8	788.9	807.8	829.5	849.6	851.9
25°	2068.4	1997.7	1705.1	1236.2	818.5	733.3	741.3	757.1	770.8	786.7	787.5
27.5°	2126.9	2014.3	1620.5	1002.8	710.2	685.6	694.3	700.8	704.5	714.5	714.5
30°	2194.9	2027.3	1498.5	803.4	660.3	643.7	638.6	635.8	638.6	652.3	653.1
32.5°	2280.2	2050.4	1331.6	689.3	637.3	614.1	588.1	573.7	583.8	608.3	612.6
35°	2376.9	2077.9	1131.4	643.7	629.4	599.7	552.0	529.6	533.2	555.6	559.3
37.5°	2498.4	2113.3	934.1	632.9	637.3	598.2	535.4	503.6	487.7	488.4	487.7
40°	2653.8	2148.7	778.1	635.8	654.5	601.9	527.5	477.5	444.3	445.7	448.7
42.5°	2816.2	2171.8	679.1	644.4	675.5	606.9	524.5	452.2	423.5	448.0	470.4
45°	3006.3	2165.3	627.8	652.3	691.4	609.1	513.7	449.4	425.5	499.3	541.1
47.5°	3224.5	2137.1	598.9	656.0	695.7	608.3	505.7	458.8	443.7	571.5	619.2
50°	3461.3	2093.1	575.9	650.3	693.6	605.5	514.4	470.4	450.8	587.4	624.2
52.5°	3720.8	2052.5	552.0	637.3	682.7	596.7	525.2	465.3	430.6	541.1	569.3
55°	4027.8	2043.1	525.2	614.8	664.7	587.4	519.5	449.4	408.2	479.8	497.0
57.5°	4379.0	2101.8	490.6	587.4	640.1	568.5	505.7	440.7	400.3	436.3	445.7
60°	4824.7	2231.0	453.7	558.4	609.8	540.4	493.4	442.9	402.4	429.8	432.1
62.5°	5173.0	2347.4	420.4	523.1	569.3	506.5	480.5	445.0	408.9	438.6	434.9
65°	5299.5	2290.3	379.4	470.4	512.3	468.8	462.4	446.5	408.9	443.7	435.7
67°	5040.0	2018.0	340.3	417.6	458.0	435.7	445.0	440.7	401.7	442.9	429.2
67.5°	4916.6	1921.8	330.1	408.9	443.7	425.5	440.7	437.8	399.6	441.4	425.5
70°	4054.6	1378.4	278.8	343.2	371.4	375.0	413.9	419.0	382.1	414.7	385.8
72.5°	2884.8	862.6	240.6	265.9	299.9	320.8	377.8	393.7	359.1	360.5	336.7
75°	1427.6	463.2	214.5	205.3	233.4	267.3	329.5	359.1	325.1	300.6	292.6
77.5°	481.9	262.2	181.4	165.5	181.4	214.5	273.2	313.6	286.7	254.3	249.3
80°	249.3	190.7	141.7	132.9	143.1	166.1	213.8	260.8	244.9	246.3	202.9
82.5°	155.3	116.3	101.9	101.1	108.3	127.2	157.6	211.7	210.3	179.9	130.8
85°	72.3	67.3	65.0	67.3	69.3	72.3	102.5	150.9	159.7	96.7	86.0
87.5°	30.4	29.6	26.1	28.1	31.1	30.4	41.2	64.3	89.7	60.6	55.7
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)