

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: P198625

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-7030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198625  
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-7030-1200  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 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: 11909 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

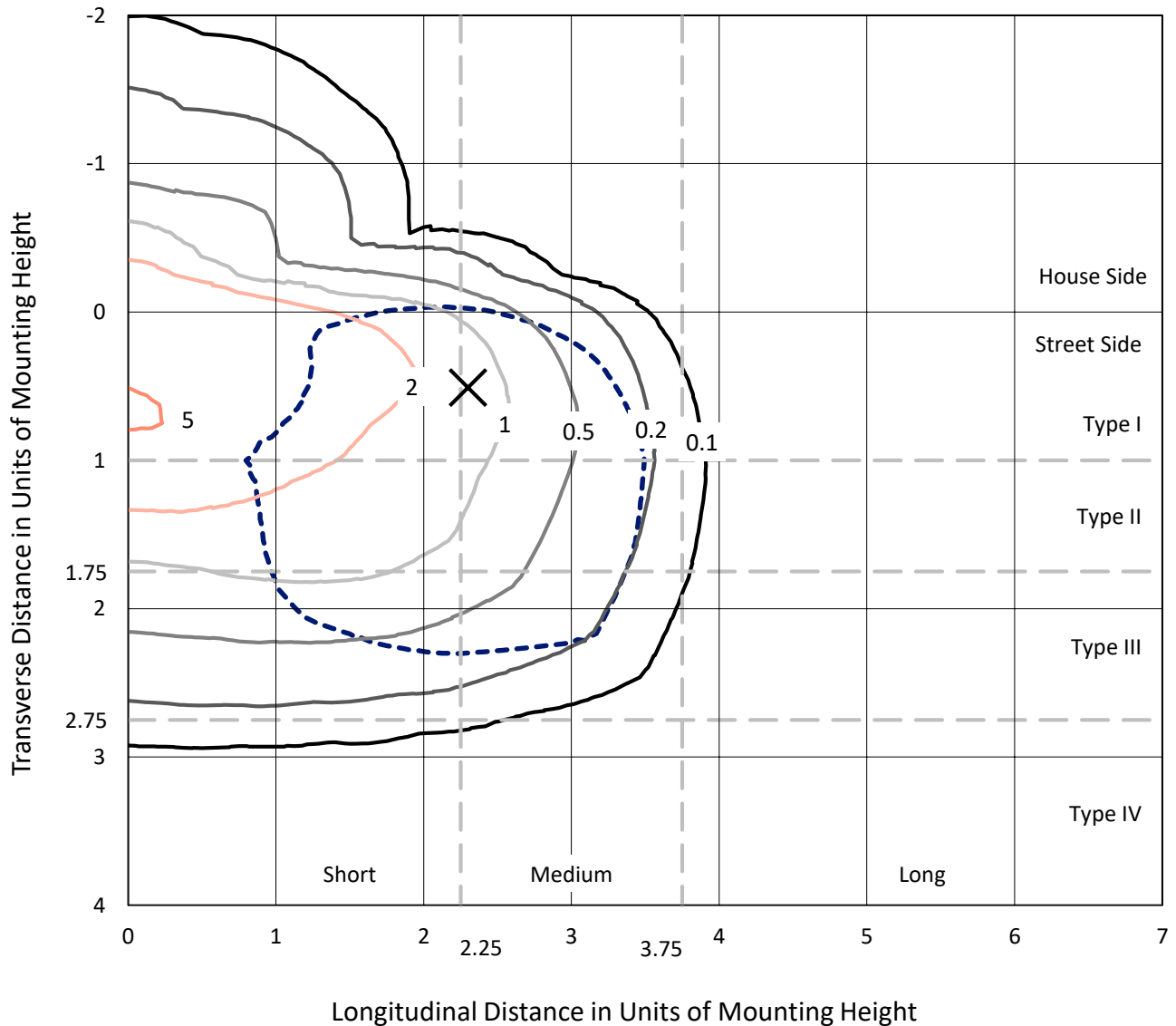
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

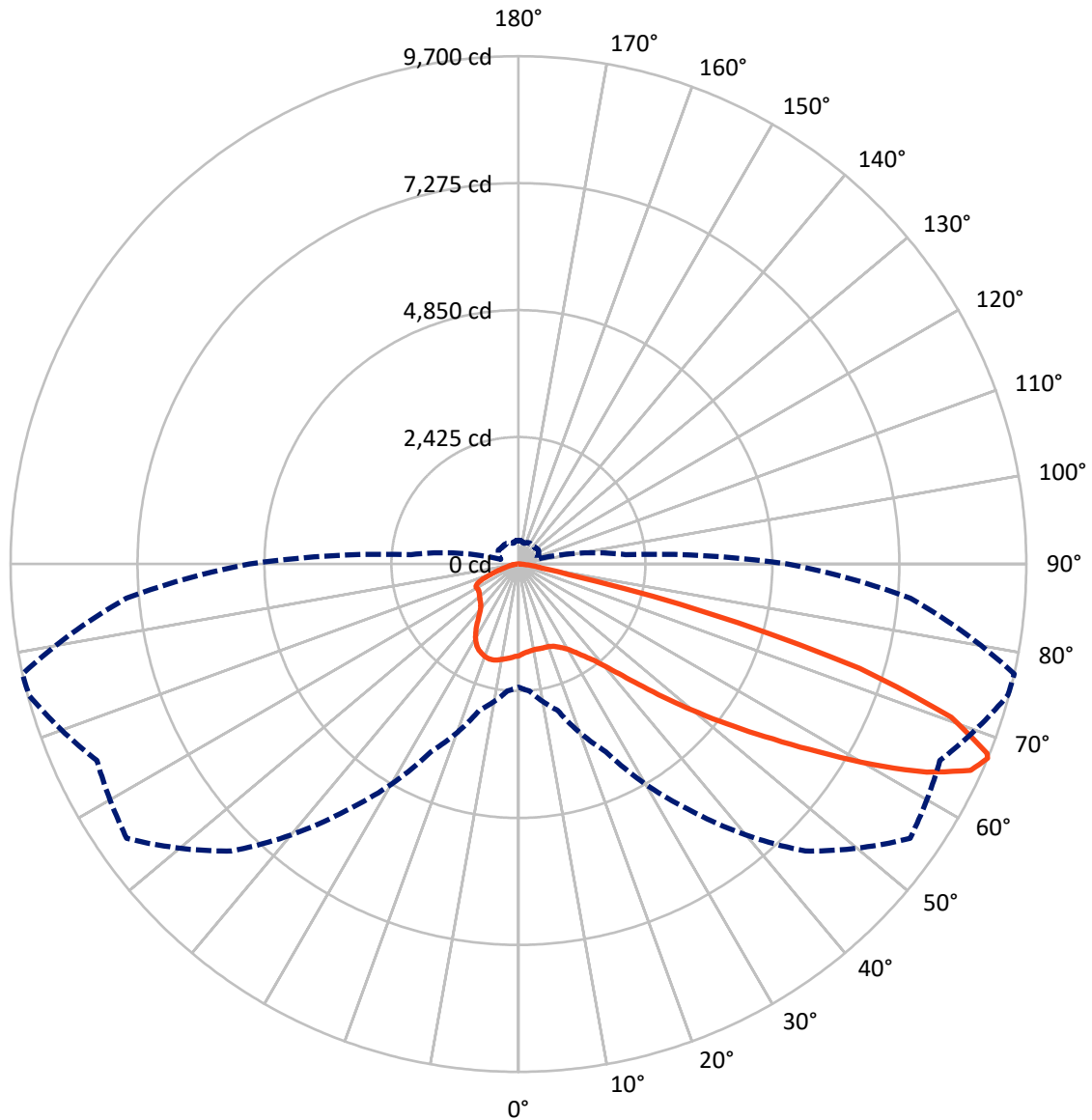
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	2046.6	0.0	2046.6
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	9862.4	0.0	9862.4
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	11909.0	0.0	11909.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.1	1.3
10°-20°	432.3	3.6
20°-30°	734.5	6.2
30°-40°	1175.1	9.9
40°-50°	1809.0	15.2
50°-60°	2509.8	21.1
60°-70°	3348.0	28.1
70°-80°	1593.3	13.4
80°-90°	150.9	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°	11909.0	100.0
0°-180°	11909.0	100.0

**Coefficient of Utilization**



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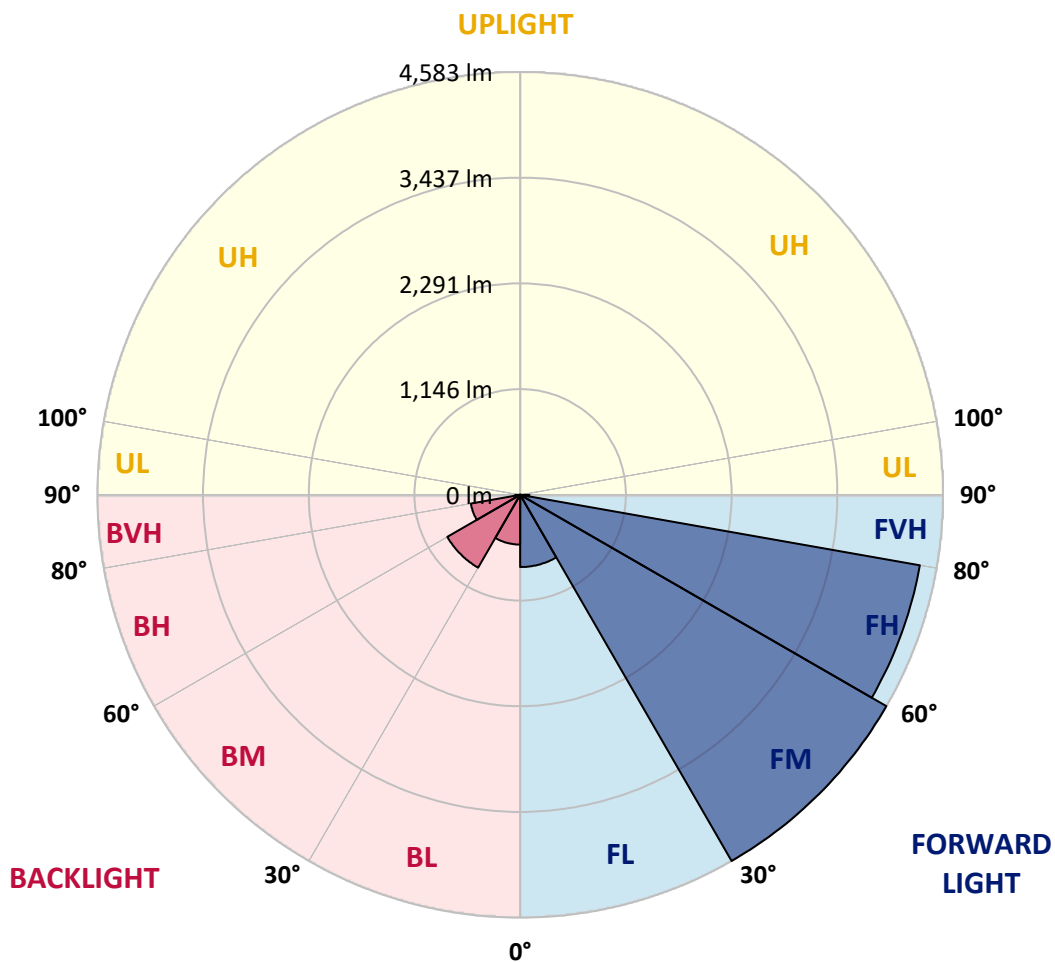
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.1	6.6			
FM	(30°-60°)	4582.7	38.5			
FH	(60°-80°)	4398.6	36.9			G2/5000
FVH	(80°-90°)	98.0	0.8			G1/100
BL	(0°-30°)	539.8	4.5	B2/1000		
BM	(30°-60°)	911.2	7.7	B1/1000		
BH	(60°-80°)	542.6	4.6	B2/1000		G2/1000
BVH	(80°-90°)	52.9	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°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7
2.5°	1571.6	1579.0	1579.7	1601.1	1610.6	1634.9	1661.4	1685.0	1705.6	1712.9	1726.2
5°	1414.1	1414.1	1416.3	1430.3	1457.5	1496.5	1551.7	1612.1	1675.4	1690.9	1729.9
7.5°	1331.6	1333.1	1334.6	1348.6	1369.9	1404.5	1459.7	1542.2	1647.4	1673.2	1741.7
10°	1339.0	1336.8	1329.4	1326.5	1335.3	1357.4	1405.2	1489.9	1623.9	1663.6	1763.0
12.5°	1454.6	1450.1	1425.9	1390.5	1358.1	1350.0	1383.2	1463.4	1612.8	1663.6	1799.1
15°	1652.6	1655.5	1607.7	1534.1	1449.4	1392.0	1387.6	1453.8	1609.1	1668.0	1841.0
17.5°	1910.2	1911.7	1845.4	1738.7	1598.1	1479.6	1417.8	1453.8	1609.1	1672.5	1881.5
20°	2184.1	2173.8	2098.7	1964.7	1782.1	1601.1	1473.0	1462.7	1613.6	1679.1	1919.8
22.5°	2418.9	2409.3	2330.5	2189.9	1980.9	1744.6	1547.3	1492.1	1637.9	1706.3	1973.5
25°	2624.3	2630.1	2553.6	2395.3	2178.9	1906.5	1658.5	1559.8	1688.6	1755.6	2039.8
27.5°	2873.8	2862.8	2774.4	2623.5	2382.8	2074.4	1797.6	1645.2	1749.0	1815.3	2120.7
30°	3162.4	3157.2	3038.0	2882.6	2607.3	2262.1	1935.2	1737.2	1827.8	1897.0	2222.3
32.5°	3512.7	3512.0	3383.9	3193.3	2859.8	2474.1	2097.9	1863.1	1942.6	2012.5	2357.0
35°	3909.5	3908.8	3776.3	3524.5	3150.6	2708.9	2289.3	2016.2	2084.7	2158.3	2517.5
37.5°	4184.8	4180.4	4111.2	3866.8	3472.3	2982.0	2528.6	2222.3	2245.9	2328.3	2711.1
40°	4237.8	4264.3	4323.9	4179.7	3823.4	3285.3	2768.5	2443.9	2466.0	2572.0	2954.8
42.5°	4180.4	4215.0	4413.0	4453.5	4174.5	3652.6	3068.9	2750.9	2778.8	2910.6	3241.1
45°	4130.3	4160.5	4408.6	4605.1	4521.2	4053.1	3443.6	3125.5	3178.5	3342.0	3568.0
47.5°	4045.0	4072.9	4321.7	4632.4	4719.2	4438.8	3894.8	3576.1	3667.3	3865.3	3940.4
50°	4040.5	4053.1	4203.2	4541.1	4787.7	4731.8	4394.6	4103.1	4243.0	4471.2	4352.7
52.5°	3928.7	4016.2	4152.4	4395.3	4789.2	4902.5	4887.1	4681.0	4896.6	5149.1	4804.6
55°	3244.1	3344.9	3983.1	4323.9	4780.3	5049.0	5336.8	5295.6	5632.8	5898.5	5311.1
57.5°	3029.1	3071.8	3494.3	4345.3	4853.9	5291.2	5786.6	5955.9	6474.9	6764.9	5918.4
60°	2970.2	3015.1	3396.4	4355.6	5053.4	5732.1	6396.8	6701.6	7465.0	7772.6	6608.1
62.5°	2904.7	2962.9	3403.8	4365.2	5403.8	6384.3	7206.6	7510.6	8481.5	8756.1	7254.4
65°	2713.3	2790.6	3267.6	4304.8	5787.3	7202.9	8276.9	8354.2	9321.4	9495.9	7644.6
67°	2350.4	2435.1	2893.7	3955.9	5752.0	7754.2	9133.0	8882.0	9678.5	9699.8	7518.0
67.5°	2235.6	2323.2	2767.1	3810.9	5651.2	7826.4	9284.6	8954.8	9675.5	9652.0	7400.2
70°	1505.4	1604.0	1959.5	2798.0	4533.0	7283.9	9247.8	8730.3	9041.0	8770.8	6357.8
72.5°	747.2	750.1	977.6	1532.6	2746.4	5224.2	7714.5	7468.6	7328.8	6818.6	4665.5
75°	360.0	366.6	461.5	677.2	1157.9	2697.1	5261.0	5039.4	4290.8	3715.2	2335.0
77.5°	274.6	281.2	358.5	440.9	482.9	879.7	2605.9	2106.0	1243.3	993.0	658.1
80°	212.0	224.5	302.5	338.6	319.5	352.6	819.3	644.8	483.6	443.9	326.1
82.5°	165.6	173.0	256.9	256.9	220.8	236.3	381.3	372.5	300.3	270.9	175.2
85°	117.0	131.8	206.8	191.4	145.0	146.5	228.2	218.6	154.6	124.4	68.5
87.5°	52.3	67.0	147.2	125.1	77.3	59.6	93.5	80.2	61.1	47.1	31.7
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°	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7	1752.7
2.5°	1740.9	1752.7	1771.1	1782.1	1796.9	1802.7	1808.6	1818.9	1827.0	1824.8	1821.2
5°	1757.1	1777.0	1799.8	1807.2	1807.2	1799.8	1795.4	1796.1	1793.9	1792.4	1788.0
7.5°	1780.7	1807.9	1824.1	1816.7	1793.9	1765.2	1738.0	1721.8	1706.3	1696.7	1699.7
10°	1813.8	1844.0	1844.7	1812.3	1757.8	1695.3	1641.5	1606.9	1573.8	1559.1	1563.5
12.5°	1861.6	1891.8	1866.1	1796.1	1700.4	1602.5	1503.9	1432.5	1368.4	1353.0	1348.6
15°	1913.2	1936.7	1879.3	1761.5	1618.0	1456.8	1291.1	1184.4	1113.0	1100.5	1096.1
17.5°	1958.1	1971.3	1872.7	1699.7	1487.7	1233.7	1040.9	968.7	954.0	961.4	961.4
20°	1997.8	1993.4	1844.0	1604.0	1282.3	986.4	874.5	873.8	893.6	912.0	913.5
22.5°	2047.9	2013.3	1798.3	1461.9	1037.2	823.0	803.8	823.0	845.1	865.7	867.9
25°	2107.5	2035.4	1737.2	1259.5	834.0	747.2	755.3	771.4	785.4	801.6	802.4
27.5°	2167.1	2052.3	1651.1	1021.7	723.6	698.6	707.4	714.0	717.7	728.0	728.0
30°	2236.3	2065.5	1526.7	818.6	672.8	655.9	650.7	647.8	650.7	664.7	665.4
32.5°	2323.2	2089.1	1356.7	702.3	649.3	625.7	599.2	584.5	594.8	619.8	624.2
35°	2421.8	2117.1	1152.8	655.9	641.2	611.0	562.4	539.6	543.3	566.1	569.8
37.5°	2545.5	2153.1	951.8	644.8	649.3	609.5	545.5	513.1	496.9	497.6	496.9
40°	2703.8	2189.2	792.8	647.8	666.9	613.2	537.4	486.6	452.7	454.2	457.1
42.5°	2869.4	2212.8	691.9	656.6	688.3	618.3	534.4	460.8	431.4	456.4	479.2
45°	3063.0	2206.1	639.7	664.7	704.5	620.5	523.4	457.9	433.6	508.7	551.4
47.5°	3285.3	2177.4	610.2	668.4	708.9	619.8	515.3	467.4	452.0	582.3	630.9
50°	3526.7	2132.5	586.7	662.5	706.7	616.9	524.1	479.2	459.3	598.5	636.0
52.5°	3791.0	2091.3	562.4	649.3	695.6	608.0	535.2	474.1	438.7	551.4	580.1
55°	4103.8	2081.7	535.2	626.4	677.2	598.5	529.3	457.9	415.9	488.8	506.4
57.5°	4461.6	2141.4	499.8	598.5	652.2	579.3	515.3	449.0	407.8	444.6	454.2
60°	4915.8	2273.1	462.3	569.0	621.3	550.6	502.8	451.2	410.0	438.0	440.2
62.5°	5270.6	2391.6	428.4	532.9	580.1	516.0	489.5	453.4	416.6	446.8	443.1
65°	5399.4	2333.5	386.5	479.2	521.9	477.7	471.1	454.9	416.6	452.0	443.9
67°	5135.1	2056.0	346.7	425.5	466.7	443.9	453.4	449.0	409.3	451.2	437.3
67.5°	5009.3	1958.1	336.4	416.6	452.0	433.6	449.0	446.1	407.1	449.8	433.6
70°	4131.1	1404.5	284.1	349.7	378.4	382.0	421.8	426.9	389.4	422.5	393.1
72.5°	2939.3	878.9	245.1	270.9	305.5	326.8	385.0	401.2	365.8	367.3	343.0
75°	1454.6	471.9	218.6	209.1	237.8	272.4	335.7	365.8	331.3	306.2	298.1
77.5°	491.0	267.2	184.8	168.6	184.8	218.6	278.3	319.5	292.2	259.1	254.0
80°	254.0	194.3	144.3	135.4	145.8	169.3	217.9	265.7	249.5	251.0	206.8
82.5°	158.3	118.5	103.8	103.1	110.4	129.6	160.5	215.7	214.2	183.3	133.2
85°	73.6	68.5	66.3	68.5	70.7	73.6	104.5	153.8	162.7	98.6	87.6
87.5°	30.9	30.2	26.5	28.7	31.7	30.9	42.0	65.5	91.3	61.8	56.7
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)