

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: P198948

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198948  
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: XNV-AF-01-LED-U-T4FT-7050-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4925 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 44  
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

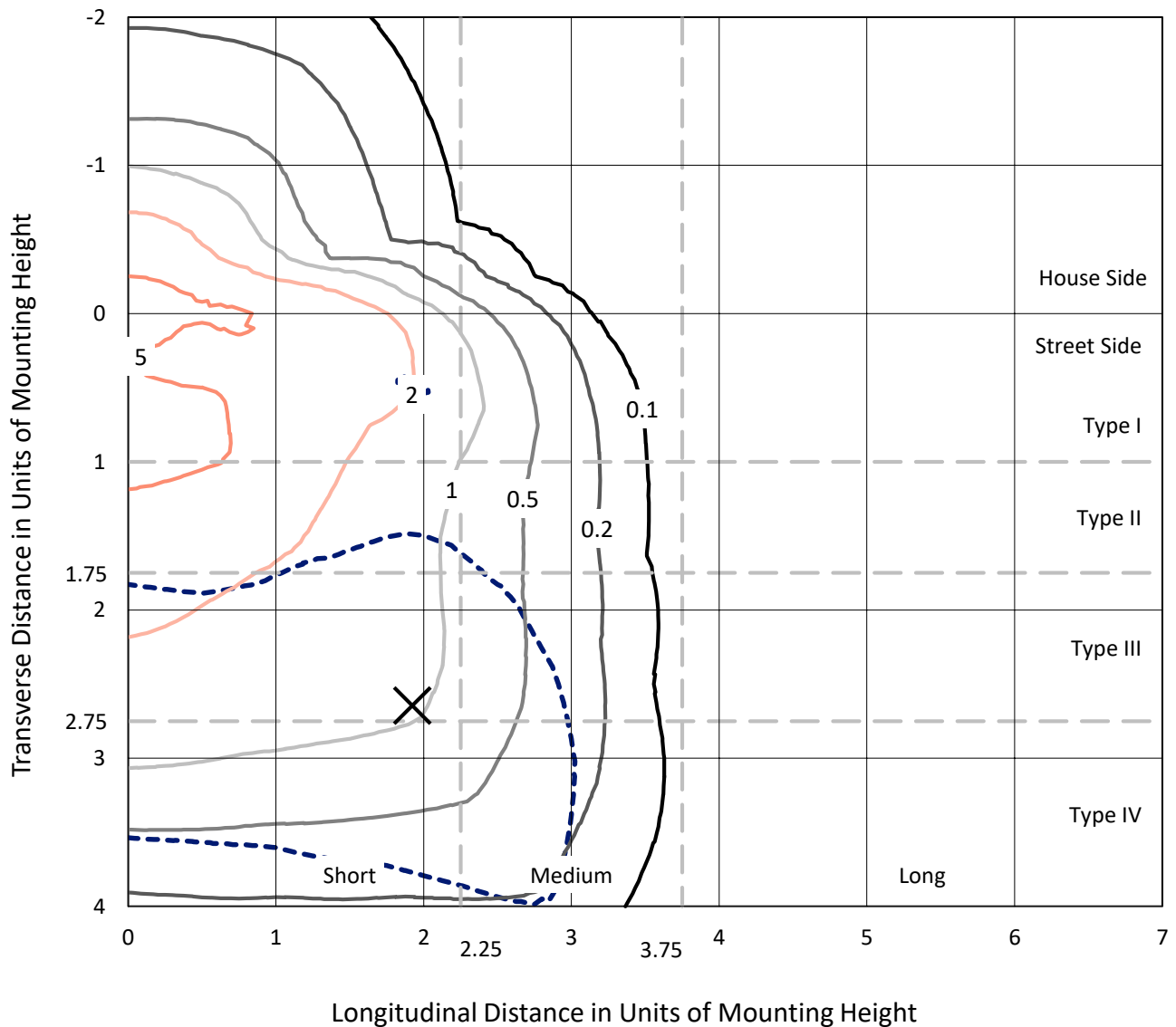


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

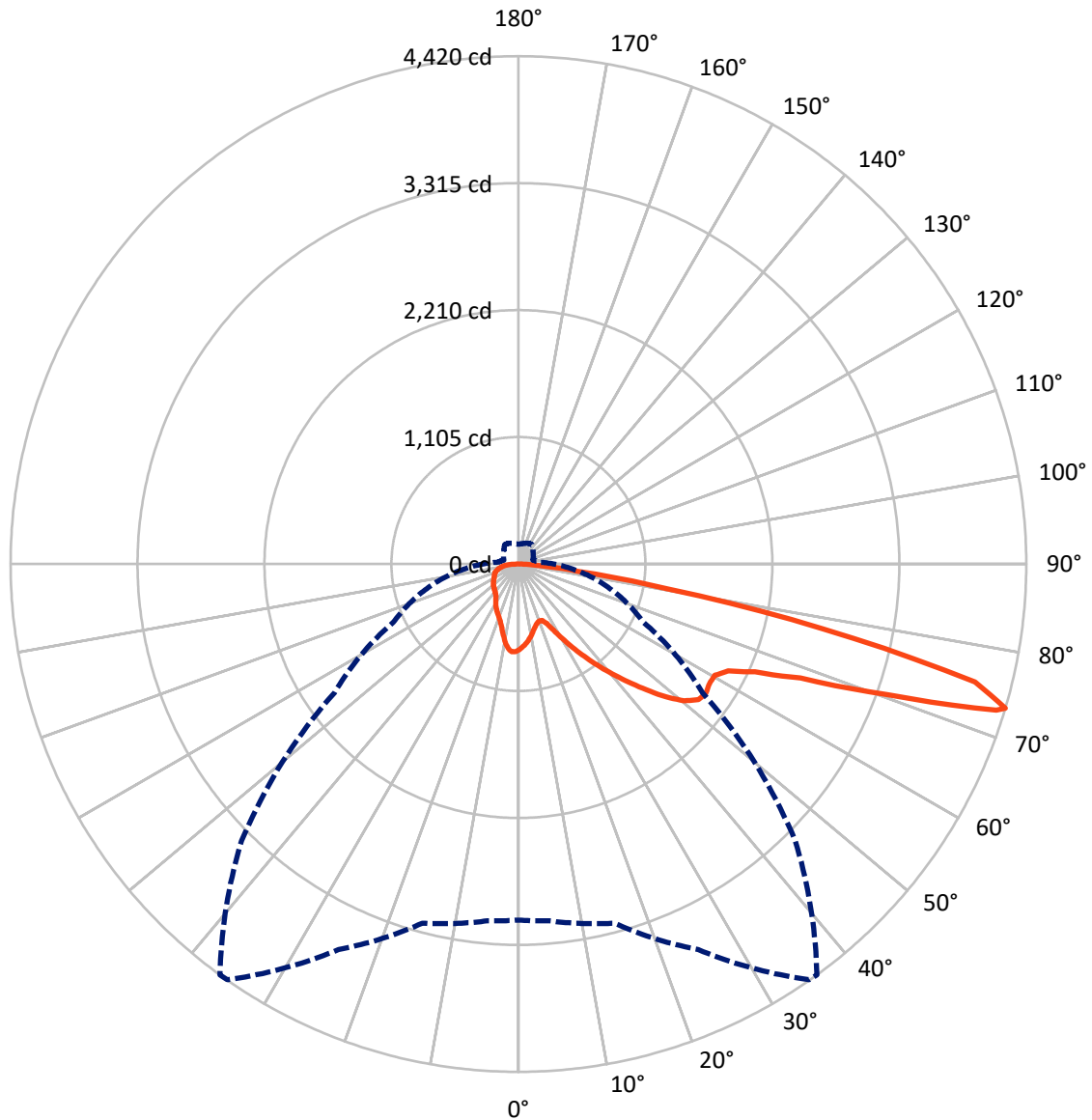


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	949.7	0.0	949.7
	% Fixture	19.3	0.0	19.3
<b>Street Side</b>	Lumens	3975.3	0.0	3975.3
	% Fixture	80.7	0.0	80.7
<b>Total</b>	Lumens	4925.0	0.0	4925.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.8	1.4
10°-20°	170.2	3.5
20°-30°	272.8	5.5
30°-40°	451.3	9.2
40°-50°	698.3	14.2
50°-60°	934.9	19.0
60°-70°	1221.2	24.8
70°-80°	997.5	20.3
80°-90°	111.0	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°	4925.0	100.0
0°-180°	4925.0	100.0



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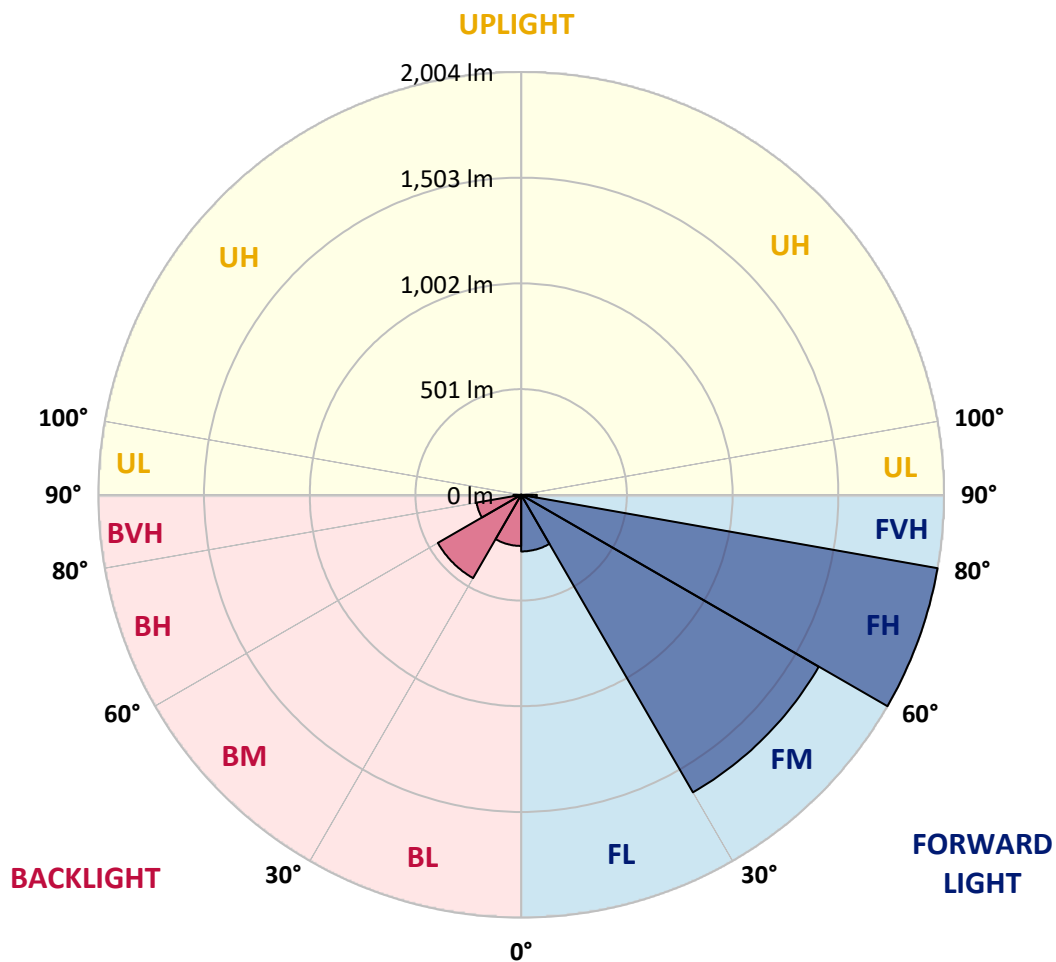
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.4	5.4			
FM (30°-60°)	1628.4	33.1			
FH (60°-80°)	2004.1	40.7			G2/5000
FVH (80°-90°)	74.5	1.5			G1/100
BL (0°-30°)	242.4	4.9	B1/500		
BM (30°-60°)	456.1	9.3	B1/1000		
BH (60°-80°)	214.6	4.4	B1/500		G1/500
BVH (80°-90°)	36.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
2.5°	717.5	719.4	719.7	721.9	721.9	721.6	722.5	726.3	728.2	732.5	736.3
5°	682.2	684.3	685.3	689.0	693.7	694.1	697.5	704.7	711.6	721.3	729.4
7.5°	642.4	644.9	647.4	655.2	662.1	662.8	669.3	680.9	690.0	701.9	716.6
10°	603.9	604.6	607.1	617.1	626.1	627.1	636.5	649.6	661.8	678.4	695.0
12.5°	572.3	574.2	573.6	581.1	588.9	589.5	602.1	618.6	636.5	655.2	675.0
15°	561.4	561.1	554.5	554.2	557.6	558.2	570.4	589.8	609.9	633.0	658.4
17.5°	568.9	566.4	549.2	538.5	536.3	537.0	546.0	567.3	588.6	615.2	645.5
20°	610.2	600.5	560.1	534.5	527.3	527.3	532.6	549.8	573.3	604.2	642.4
22.5°	708.1	693.1	607.1	561.4	536.0	533.5	529.5	542.6	568.6	605.8	655.2
25°	831.4	824.2	693.1	633.0	580.8	572.6	545.7	550.4	578.3	622.7	690.3
27.5°	945.6	933.1	806.1	737.2	663.4	650.9	593.9	574.8	601.4	654.0	741.0
30°	1012.3	1003.8	922.2	856.5	768.5	752.6	670.9	623.0	642.7	705.6	813.0
32.5°	1084.9	1079.9	1038.6	978.8	882.4	864.0	770.4	701.6	705.9	774.2	899.6
35°	1155.3	1161.9	1138.4	1094.6	1005.1	987.9	904.0	804.2	783.9	851.1	992.3
37.5°	1239.8	1241.3	1226.6	1198.2	1134.0	1119.9	1050.8	913.7	868.7	933.1	1081.8
40°	1408.4	1383.7	1326.1	1303.6	1265.4	1256.7	1177.8	1014.2	947.5	1017.3	1166.2
42.5°	1590.9	1552.4	1462.3	1425.3	1410.0	1401.9	1283.6	1081.1	1021.4	1101.5	1249.2
45°	1737.9	1706.6	1618.4	1572.7	1574.6	1561.5	1375.9	1140.9	1101.5	1186.0	1341.8
47.5°	1882.8	1830.6	1731.7	1725.1	1747.0	1727.6	1464.1	1200.7	1185.0	1278.0	1434.4
50°	1892.2	1844.6	1804.6	1857.2	1894.7	1870.6	1544.2	1278.9	1271.7	1389.4	1553.9
52.5°	1778.0	1771.1	1832.1	1920.7	1983.0	1961.4	1609.6	1359.3	1360.3	1528.6	1699.5
55°	1736.4	1727.6	1800.8	1909.7	1993.9	1981.1	1658.5	1450.1	1458.5	1697.6	1855.6
57.5°	1806.5	1784.6	1799.0	1889.1	1968.2	1960.7	1709.2	1550.8	1566.1	1892.2	1999.9
60°	2023.9	1979.2	1902.8	1919.7	1969.2	1964.8	1781.7	1663.2	1688.8	2095.0	2091.2
62.5°	2349.7	2299.0	2143.5	2068.4	2057.4	2049.0	1901.6	1801.2	1814.0	2241.4	2038.0
65°	2707.0	2652.6	2467.7	2344.7	2280.2	2262.1	2095.0	1967.6	1887.2	2241.1	1830.9
67.5°	3108.2	3050.6	2866.3	2749.0	2679.2	2648.2	2408.8	2102.2	1863.4	2051.5	1465.1
70°	3519.1	3464.3	3379.8	3420.8	3451.5	3404.2	2903.2	2146.9	1692.6	1608.4	983.8
72.5°	3301.0	3296.6	3360.7	3749.4	4340.5	4349.9	3397.0	2020.5	1307.7	956.0	524.4
73°	3098.5	3117.0	3235.9	3700.9	4416.5	4419.6	3406.7	1955.1	1200.7	823.6	460.6
75°	1605.3	1730.4	2171.6	3000.9	4089.5	4104.2	3003.1	1480.1	715.6	457.5	310.4
77.5°	429.9	424.3	699.7	1461.9	2726.4	2707.0	1897.5	716.6	343.0	286.9	217.8
80°	147.4	149.3	238.1	534.8	1272.6	1318.0	823.6	312.6	225.6	200.0	154.3
82.5°	75.1	77.6	124.5	227.5	532.3	521.0	265.0	184.0	151.1	121.4	86.4
85°	40.1	41.3	68.5	118.0	195.3	197.5	93.2	98.3	96.1	68.8	42.6
87.5°	19.7	20.3	32.9	51.9	72.3	69.8	32.5	42.6	47.3	38.8	23.5
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°	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0	746.0
2.5°	741.0	741.0	745.1	751.9	756.9	761.6	764.8	769.8	772.6	772.3	772.0
5°	736.0	739.1	747.2	755.7	761.3	765.1	765.1	767.3	767.3	766.3	765.1
7.5°	724.4	729.7	741.6	749.1	750.7	746.6	738.5	732.2	724.4	720.3	718.8
10°	705.9	712.8	727.8	731.3	723.2	708.8	689.0	672.1	657.1	650.2	648.1
12.5°	687.8	696.9	710.9	705.6	686.2	658.1	627.7	604.6	587.7	581.1	578.9
15°	672.8	683.7	694.7	678.1	644.3	605.2	571.7	550.1	537.3	532.3	531.0
17.5°	662.8	675.6	679.3	648.4	601.4	557.6	527.9	513.8	508.2	506.0	505.4
20°	663.4	677.8	668.7	619.6	560.1	516.0	496.3	492.2	492.2	492.2	491.9
22.5°	680.6	693.1	664.3	592.7	520.4	481.0	472.5	475.9	478.5	478.5	478.1
25°	716.3	723.2	667.5	566.7	483.1	450.6	450.9	457.5	459.7	459.7	459.0
27.5°	770.7	765.1	673.1	537.9	446.5	423.1	427.4	433.4	435.0	434.0	433.7
30°	838.9	816.4	677.8	504.1	412.1	397.4	401.2	404.6	403.4	401.2	400.8
32.5°	915.3	868.7	675.0	466.2	381.8	370.8	373.0	374.9	373.0	367.7	367.7
35°	991.0	915.9	659.6	424.9	357.7	345.1	344.8	350.8	350.5	344.2	344.5
37.5°	1057.3	953.1	629.9	387.1	337.0	326.4	327.6	331.4	333.3	324.8	323.9
40°	1115.2	978.8	588.0	354.8	320.4	321.1	317.6	311.7	309.5	305.7	305.1
42.5°	1169.7	996.6	543.5	327.9	312.0	319.2	307.6	293.5	287.6	291.0	293.2
45°	1223.2	1016.7	500.7	305.7	301.3	313.5	297.6	281.9	275.1	276.6	278.8
47.5°	1288.6	1044.5	449.0	281.9	285.1	303.2	291.3	274.4	264.1	257.8	256.0
50°	1374.6	1084.9	382.1	256.3	267.9	292.0	286.0	263.5	252.2	239.7	236.6
52.5°	1482.3	1123.1	314.5	235.6	253.8	282.3	277.2	254.1	240.3	225.3	222.8
55°	1589.6	1128.4	256.3	217.8	237.8	269.1	266.6	246.6	227.2	215.0	212.5
57.5°	1664.7	1078.0	217.2	202.8	222.5	252.8	256.9	237.5	216.2	206.8	205.3
60°	1666.0	957.5	193.4	192.8	210.9	238.8	246.9	226.9	209.3	203.1	201.8
62.5°	1533.6	771.7	178.0	185.2	202.5	227.2	239.4	220.9	207.8	205.3	204.0
65°	1285.5	570.1	165.8	178.4	194.6	217.5	233.1	219.0	207.2	206.2	205.3
67.5°	949.1	390.8	155.5	169.6	185.9	207.5	227.2	216.2	203.4	207.2	205.9
70°	597.0	261.0	145.8	159.6	174.3	195.9	219.4	211.2	198.7	196.5	192.4
72.5°	337.0	188.7	134.2	146.8	159.3	180.6	208.7	202.8	188.1	179.3	175.2
73°	304.5	178.7	131.4	143.6	155.8	177.4	206.2	200.3	184.9	175.2	171.5
75°	222.8	146.1	118.6	130.8	141.4	163.0	194.3	187.8	171.2	159.6	157.1
77.5°	161.5	112.7	102.0	113.0	122.4	143.0	176.5	169.0	152.7	146.4	143.9
80°	116.4	85.4	84.5	95.1	103.3	124.2	157.4	149.6	133.9	152.4	148.3
82.5°	69.5	54.8	62.0	73.8	82.3	104.2	136.7	127.7	112.7	113.9	97.0
85°	33.2	31.0	38.5	48.5	54.4	71.3	113.9	106.7	90.1	73.8	72.3
87.5°	14.7	14.1	18.5	21.6	29.1	42.9	77.9	69.2	65.4	39.1	30.7
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)