

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: P199270

Luminaire Tested: **XNV-AF-01-LED-U-T4FT-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199270  
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-8030  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA 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: 4974 lumens  
Efficiency: N/A  
Efficacy: 85.8 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

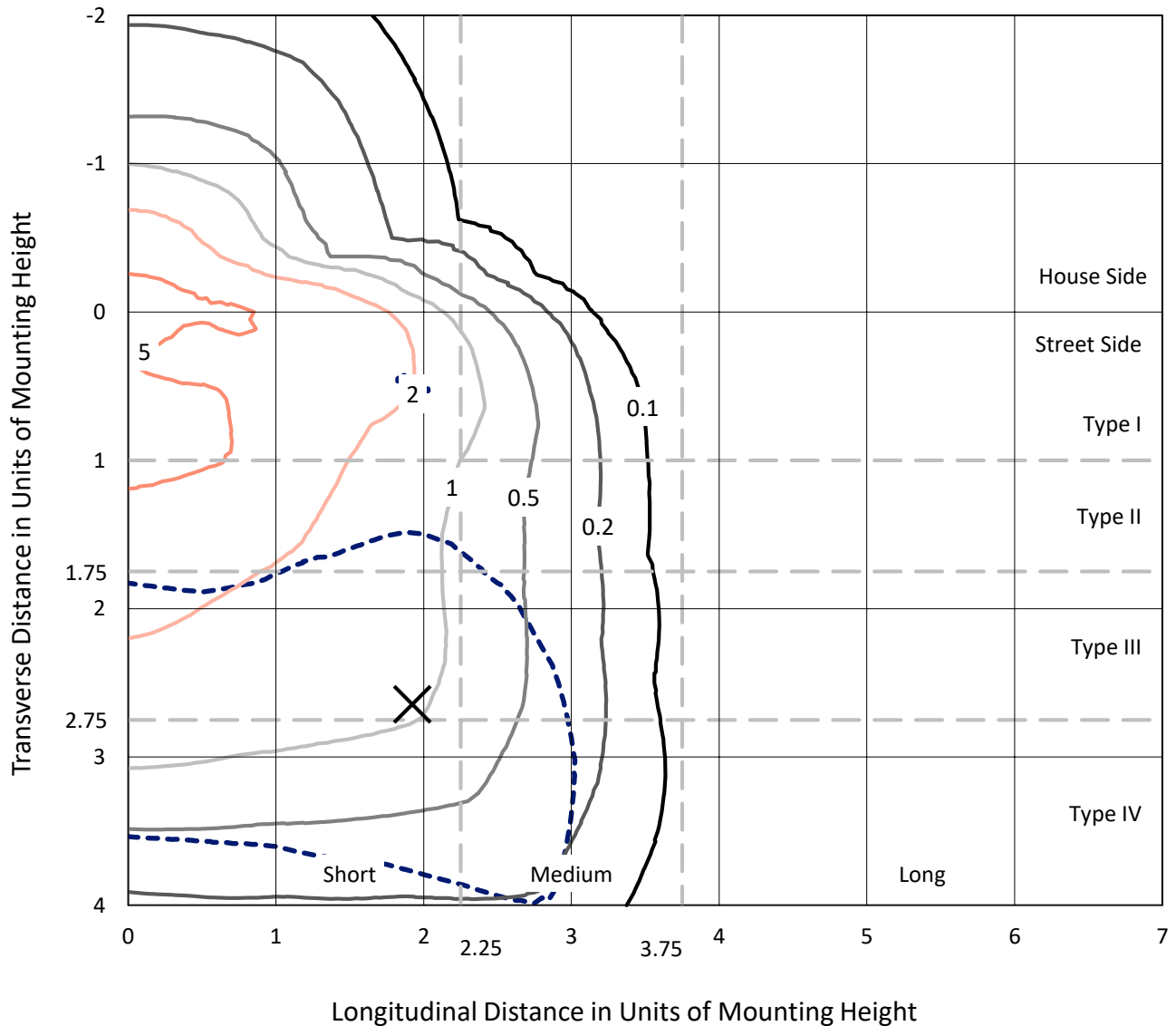
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

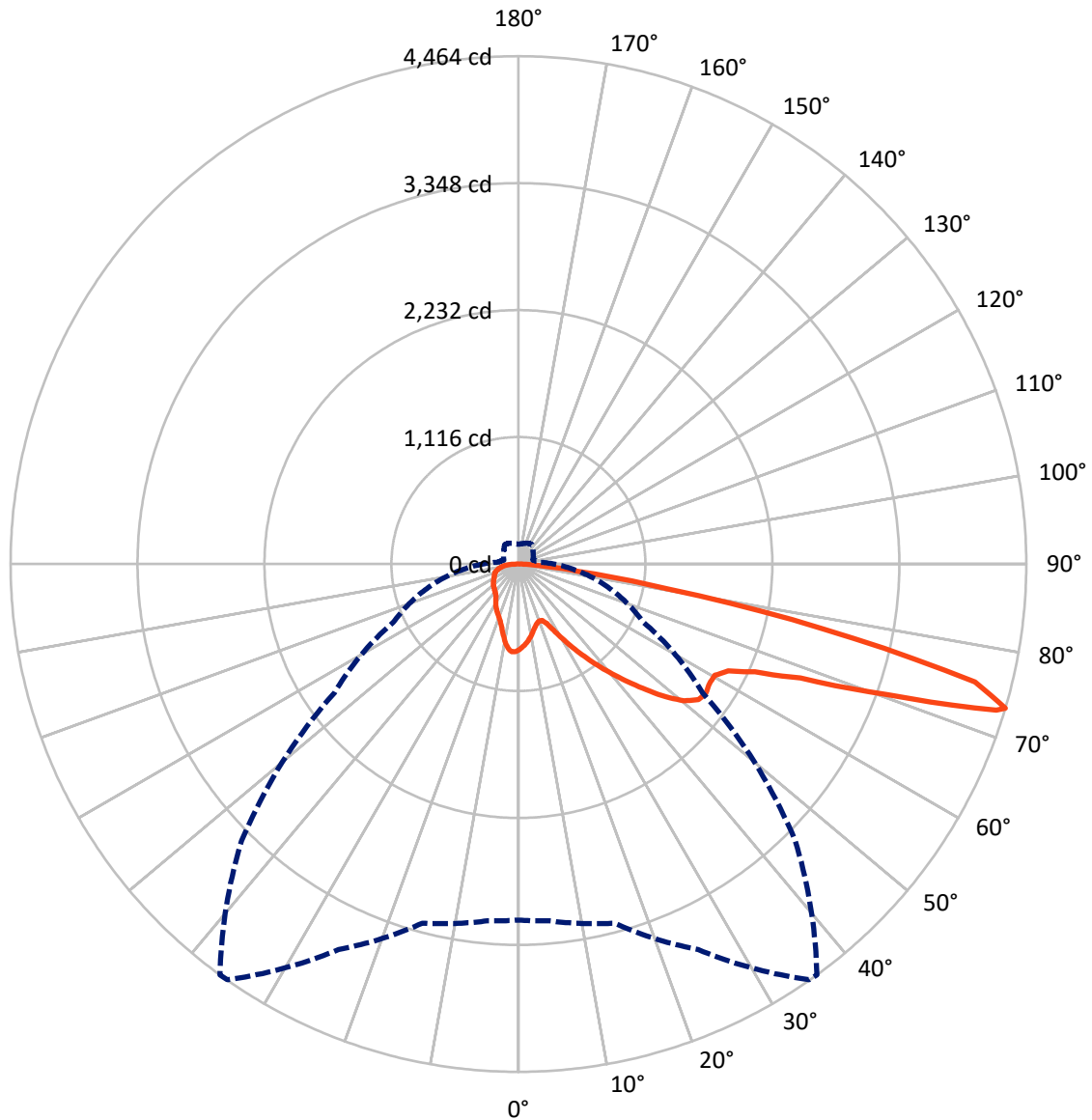
× Max cd  
 - - - 1/2 Max cd



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	959.1	0.0	959.1
	% Fixture	19.3	0.0	19.3
<b>Street Side</b>	Lumens	4014.9	0.0	4014.9
	% Fixture	80.7	0.0	80.7
<b>Total</b>	Lumens	4974.0	0.0	4974.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.4	1.4
10°-20°	171.9	3.5
20°-30°	275.6	5.5
30°-40°	455.8	9.2
40°-50°	705.3	14.2
50°-60°	944.2	19.0
60°-70°	1233.4	24.8
70°-80°	1007.4	20.3
80°-90°	112.1	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°	4974.0	100.0
0°-180°	4974.0	100.0



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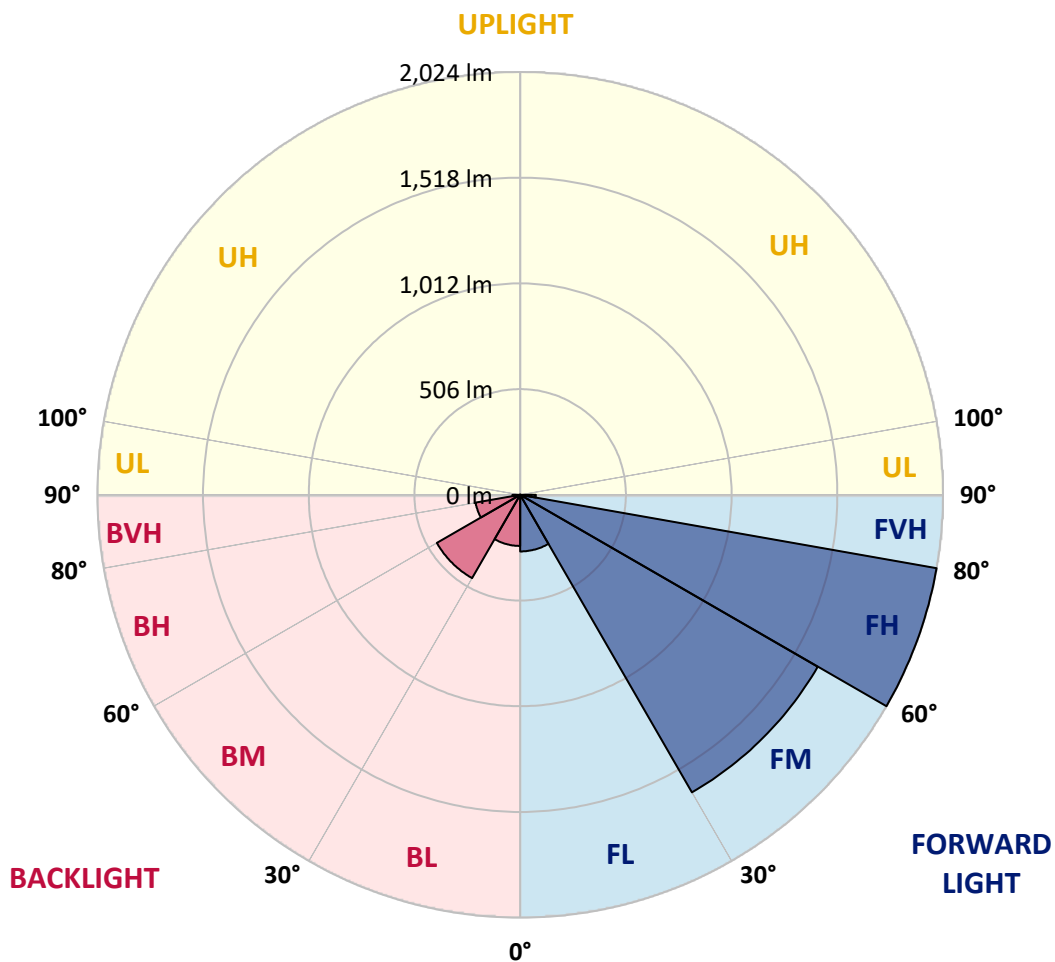
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.0	5.4			
FM (30°-60°)	1644.6	33.1			
FH (60°-80°)	2024.1	40.7			G2/5000
FVH (80°-90°)	75.2	1.5			G1/100
BL (0°-30°)	244.8	4.9	B1/500		
BM (30°-60°)	460.6	9.3	B1/1000		
BH (60°-80°)	216.7	4.4	B1/500		G1/500
BVH (80°-90°)	36.9	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°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	724.7	726.6	726.9	729.1	729.1	728.8	729.7	733.5	735.4	739.8	743.6
5°	688.9	691.2	692.1	695.9	700.6	701.0	704.4	711.7	718.7	728.4	736.7
7.5°	648.8	651.3	653.9	661.8	668.7	669.4	676.0	687.7	696.8	708.9	723.7
10°	609.9	610.6	613.1	623.2	632.4	633.3	642.8	656.1	668.4	685.2	701.9
12.5°	578.0	579.9	579.3	586.9	594.8	595.4	608.0	624.8	642.8	661.8	681.7
15°	567.0	566.6	560.0	559.7	563.2	563.8	576.1	595.7	615.9	639.3	664.9
17.5°	574.5	572.0	554.6	543.9	541.7	542.3	551.5	573.0	594.5	621.3	652.0
20°	616.3	606.5	565.7	539.8	532.5	532.5	537.9	555.3	579.0	610.3	648.8
22.5°	715.2	700.0	613.1	567.0	541.4	538.8	534.7	548.0	574.2	611.8	661.8
25°	839.7	832.4	700.0	639.3	586.6	578.3	551.2	555.9	584.0	628.9	697.2
27.5°	955.0	942.4	814.1	744.6	670.0	657.3	599.8	580.5	607.4	660.5	748.4
30°	1022.4	1013.8	931.3	865.0	776.2	760.1	677.6	629.2	649.1	712.6	821.0
32.5°	1095.7	1090.6	1048.9	988.5	891.2	872.6	778.1	708.5	713.0	781.9	908.6
35°	1166.8	1173.4	1149.7	1105.5	1015.1	997.7	913.0	812.2	791.7	859.6	1002.1
37.5°	1252.1	1253.7	1238.8	1210.1	1145.3	1131.1	1061.2	922.8	877.3	942.4	1092.5
40°	1422.5	1397.5	1339.3	1316.6	1278.0	1269.2	1189.5	1024.3	956.9	1027.4	1177.8
42.5°	1606.7	1567.8	1476.8	1439.5	1424.0	1415.8	1296.4	1091.9	1031.5	1112.4	1261.6
45°	1755.2	1723.6	1634.5	1588.4	1590.3	1577.0	1389.6	1152.2	1112.4	1197.8	1355.1
47.5°	1901.6	1848.8	1748.9	1742.3	1764.4	1744.8	1478.7	1212.6	1196.8	1290.7	1448.7
50°	1911.0	1863.0	1822.5	1875.6	1913.6	1889.2	1559.6	1291.6	1284.3	1403.2	1569.4
52.5°	1795.7	1788.7	1850.4	1939.8	2002.7	1980.9	1625.7	1372.8	1373.8	1543.8	1716.4
55°	1753.7	1744.8	1818.8	1928.7	2013.7	2000.8	1675.0	1464.5	1473.0	1714.5	1874.1
57.5°	1824.4	1802.3	1816.9	1907.9	1987.8	1980.2	1726.2	1566.2	1581.7	1911.0	2019.7
60°	2044.1	1998.9	1921.8	1938.8	1988.8	1984.4	1799.5	1679.7	1705.6	2115.8	2112.0
62.5°	2373.1	2321.9	2164.8	2089.0	2077.9	2069.4	1920.5	1819.1	1832.0	2263.7	2058.3
65°	2734.0	2679.0	2492.2	2368.0	2302.9	2284.6	2115.8	1987.2	1906.0	2263.4	1849.1
67.5°	3139.1	3081.0	2894.8	2776.3	2705.9	2674.6	2432.8	2123.1	1882.0	2071.9	1479.7
70°	3554.1	3498.8	3413.4	3454.8	3485.8	3438.1	2932.1	2168.3	1709.4	1624.4	993.6
72.5°	3333.8	3329.4	3394.2	3786.7	4383.7	4393.1	3430.8	2040.6	1320.7	965.5	529.7
73°	3129.3	3148.0	3268.1	3737.7	4460.5	4463.6	3440.6	1974.6	1212.6	831.8	465.2
75°	1621.2	1747.6	2193.3	3030.7	4130.2	4145.1	3032.9	1494.8	722.8	462.0	313.5
77.5°	434.2	428.5	706.6	1476.5	2753.6	2734.0	1916.4	723.7	346.4	289.8	220.0
80°	148.9	150.7	240.5	540.1	1285.3	1331.1	831.8	315.7	227.9	201.9	155.8
82.5°	75.8	78.4	125.8	229.8	537.6	526.2	267.7	185.8	152.6	122.6	87.2
85°	40.5	41.7	69.2	119.1	197.2	199.4	94.2	99.2	97.0	69.5	43.0
87.5°	19.9	20.5	33.2	52.5	73.0	70.5	32.9	43.0	47.7	39.2	23.7
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°	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4	753.4
2.5°	748.4	748.4	752.5	759.4	764.5	769.2	772.4	777.4	780.3	780.0	779.6
5°	743.3	746.5	754.7	763.2	768.9	772.7	772.7	774.9	774.9	774.0	772.7
7.5°	731.6	737.0	749.0	756.6	758.2	754.0	745.8	739.5	731.6	727.5	725.9
10°	713.0	719.9	735.1	738.6	730.3	715.8	695.9	678.8	663.7	656.7	654.5
12.5°	694.6	703.8	718.0	712.6	693.1	664.6	634.0	610.6	593.5	586.9	584.7
15°	679.5	690.5	701.6	684.8	650.7	611.2	577.4	555.6	542.6	537.6	536.3
17.5°	669.4	682.3	686.1	654.8	607.4	563.2	533.1	518.9	513.2	511.0	510.4
20°	670.0	684.5	675.4	625.7	565.7	521.1	501.2	497.1	497.1	497.1	496.8
22.5°	687.4	700.0	670.9	598.6	525.6	485.7	477.2	480.7	483.2	483.2	482.9
25°	723.4	730.3	674.1	572.3	488.0	455.1	455.4	462.0	464.2	464.2	463.6
27.5°	778.4	772.7	679.8	543.3	451.0	427.3	431.7	437.7	439.3	438.3	438.0
30°	847.3	824.5	684.5	509.1	416.2	401.4	405.2	408.6	407.4	405.2	404.8
32.5°	924.4	877.3	681.7	470.9	385.6	374.5	376.7	378.6	376.7	371.3	371.3
35°	1000.9	925.0	666.2	429.2	361.2	348.6	348.3	354.3	354.0	347.6	347.9
37.5°	1067.9	962.6	636.2	390.9	340.4	329.6	330.9	334.7	336.6	328.0	327.1
40°	1126.3	988.5	593.8	358.4	323.6	324.2	320.8	314.8	312.6	308.8	308.1
42.5°	1181.3	1006.6	548.9	331.2	315.1	322.4	310.7	296.4	290.4	293.9	296.1
45°	1235.4	1026.8	505.6	308.8	304.3	316.7	300.5	284.7	277.8	279.4	281.6
47.5°	1301.4	1054.9	453.5	284.7	287.9	306.2	294.2	277.2	266.7	260.4	258.5
50°	1388.3	1095.7	385.9	258.8	270.5	294.9	288.9	266.1	254.7	242.1	238.9
52.5°	1497.0	1134.2	317.6	238.0	256.3	285.1	280.0	256.6	242.7	227.5	225.0
55°	1605.4	1139.6	258.8	220.0	240.2	271.8	269.3	249.0	229.4	217.1	214.6
57.5°	1681.3	1088.7	219.3	204.8	224.7	255.4	259.5	239.9	218.4	208.9	207.3
60°	1682.5	967.1	195.3	194.7	213.0	241.1	249.3	229.1	211.4	205.1	203.8
62.5°	1548.9	779.3	179.8	187.1	204.5	229.4	241.8	223.1	209.8	207.3	206.1
65°	1298.3	575.8	167.5	180.1	196.6	219.6	235.4	221.2	209.2	208.3	207.3
67.5°	958.5	394.7	157.1	171.3	187.7	209.5	229.4	218.4	205.4	209.2	207.9
70°	603.0	263.6	147.3	161.2	176.0	197.8	221.5	213.3	200.7	198.5	194.4
72.5°	340.4	190.6	135.6	148.2	160.9	182.3	210.8	204.8	189.9	181.1	177.0
73°	307.5	180.5	132.7	145.1	157.4	179.2	208.3	202.3	186.8	177.0	173.2
75°	225.0	147.6	119.8	132.1	142.8	164.7	196.3	189.6	172.9	161.2	158.6
77.5°	163.1	113.8	103.0	114.1	123.6	144.4	178.2	170.7	154.2	147.9	145.4
80°	117.6	86.3	85.3	96.1	104.3	125.5	159.0	151.1	135.3	153.9	149.8
82.5°	70.2	55.3	62.6	74.6	83.1	105.2	138.1	128.9	113.8	115.0	98.0
85°	33.5	31.3	38.9	49.0	55.0	72.1	115.0	107.8	91.0	74.6	73.0
87.5°	14.9	14.2	18.6	21.8	29.4	43.3	78.7	69.8	66.1	39.5	31.0
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)