

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: P198771

Luminaire Tested: **XNV2-AF-02-LED-U-T3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)  
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-T3-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8130.4 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 66  
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

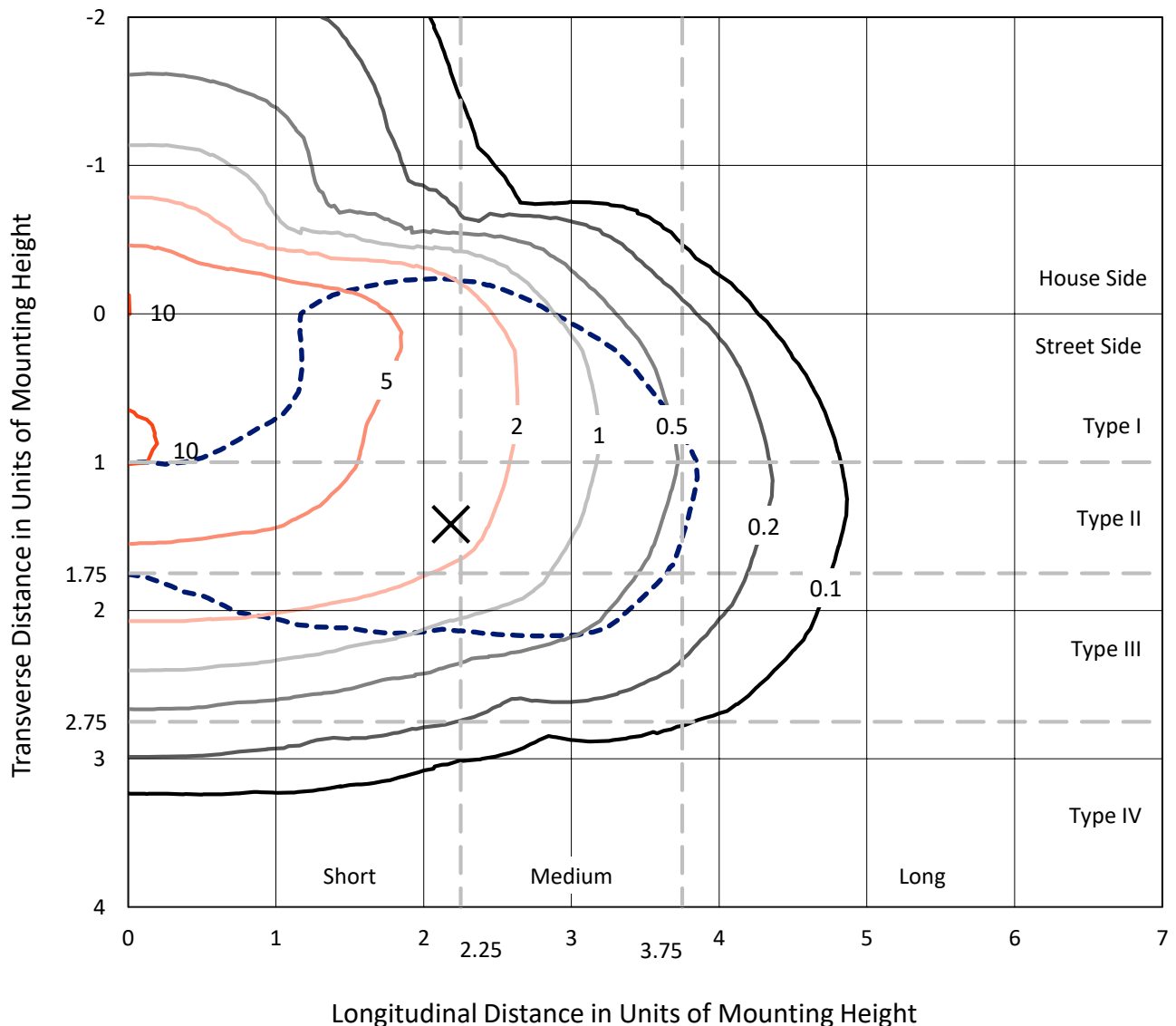


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### Iso-Footcandle Lines of Horizontal Illumination

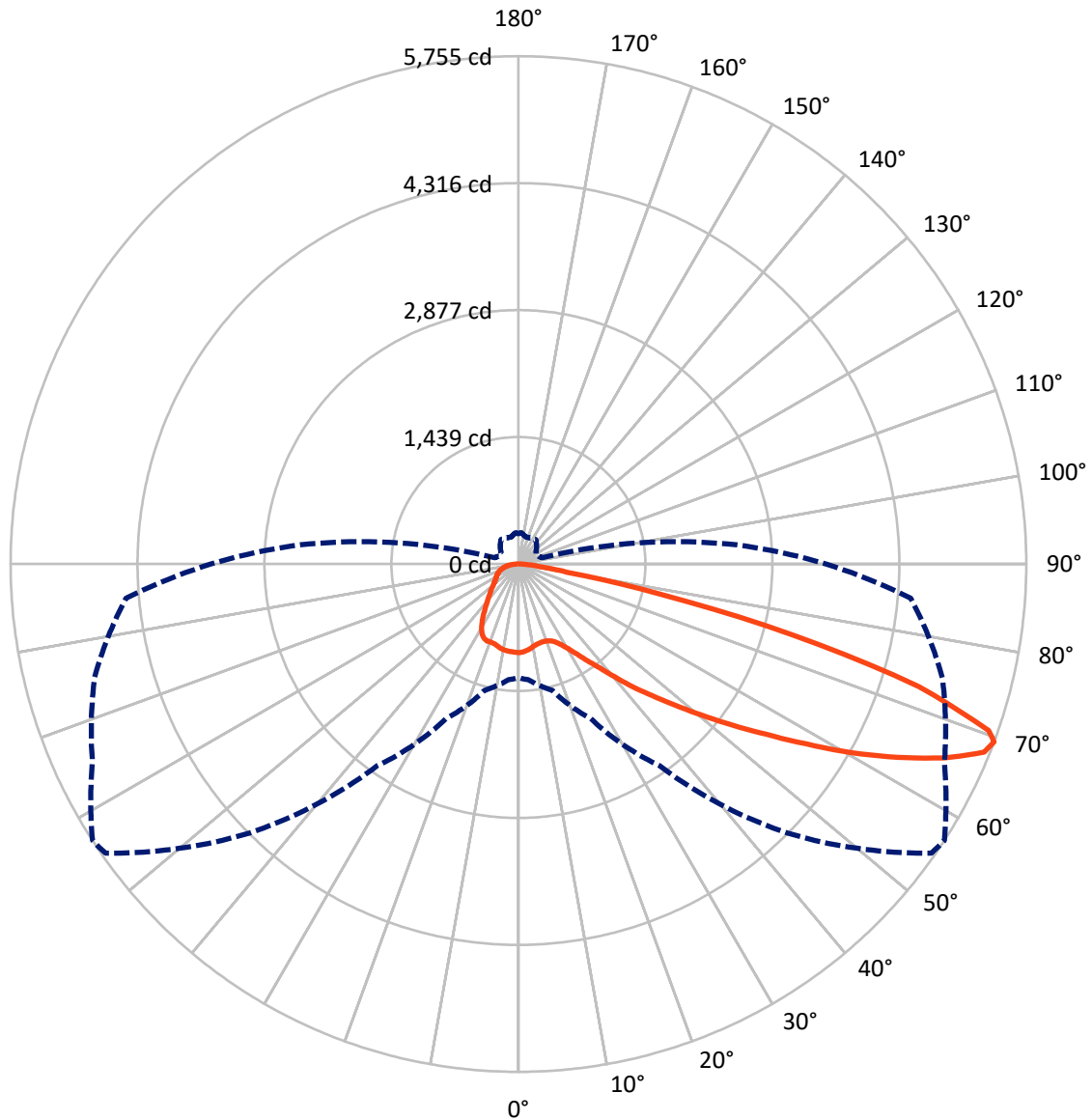
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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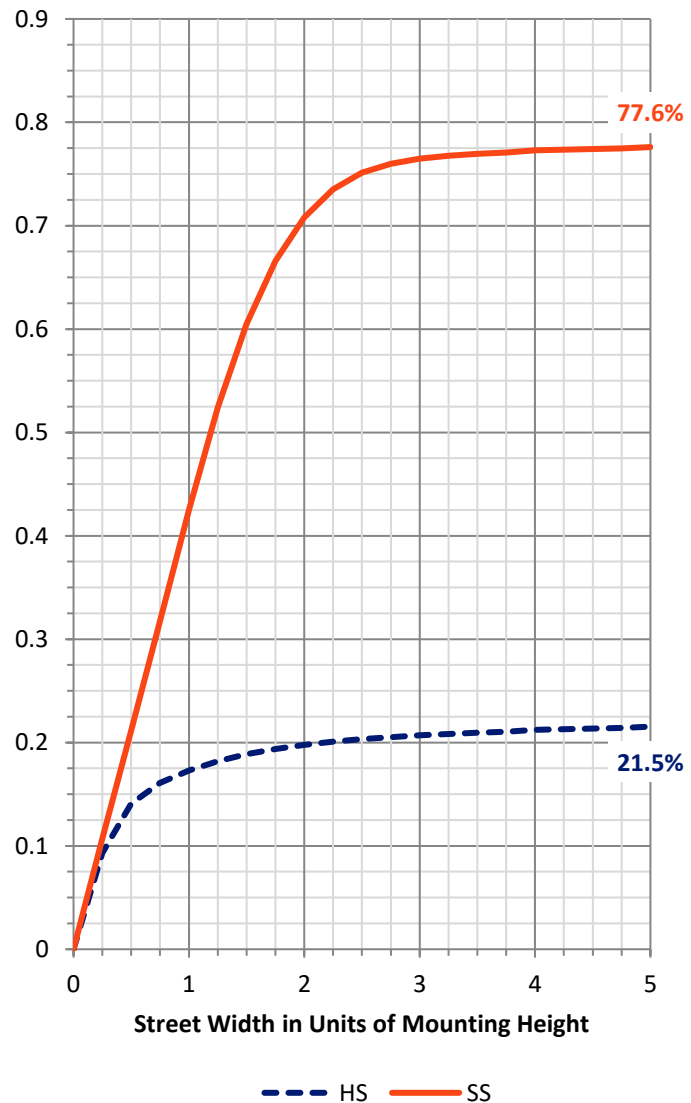
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1794.1	0.0	1794.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	6336.3	0.0	6336.3
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	8130.4	0.0	8130.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.1	1.2
10°-20°	267.4	3.3
20°-30°	444.8	5.5
30°-40°	726.4	8.9
40°-50°	1226.0	15.1
50°-60°	1907.1	23.5
60°-70°	2271.7	27.9
70°-80°	1058.3	13.0
80°-90°	134.6	1.7
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°	8130.4	100.0
0°-180°	8130.4	100.0

**Coefficient of Utilization**



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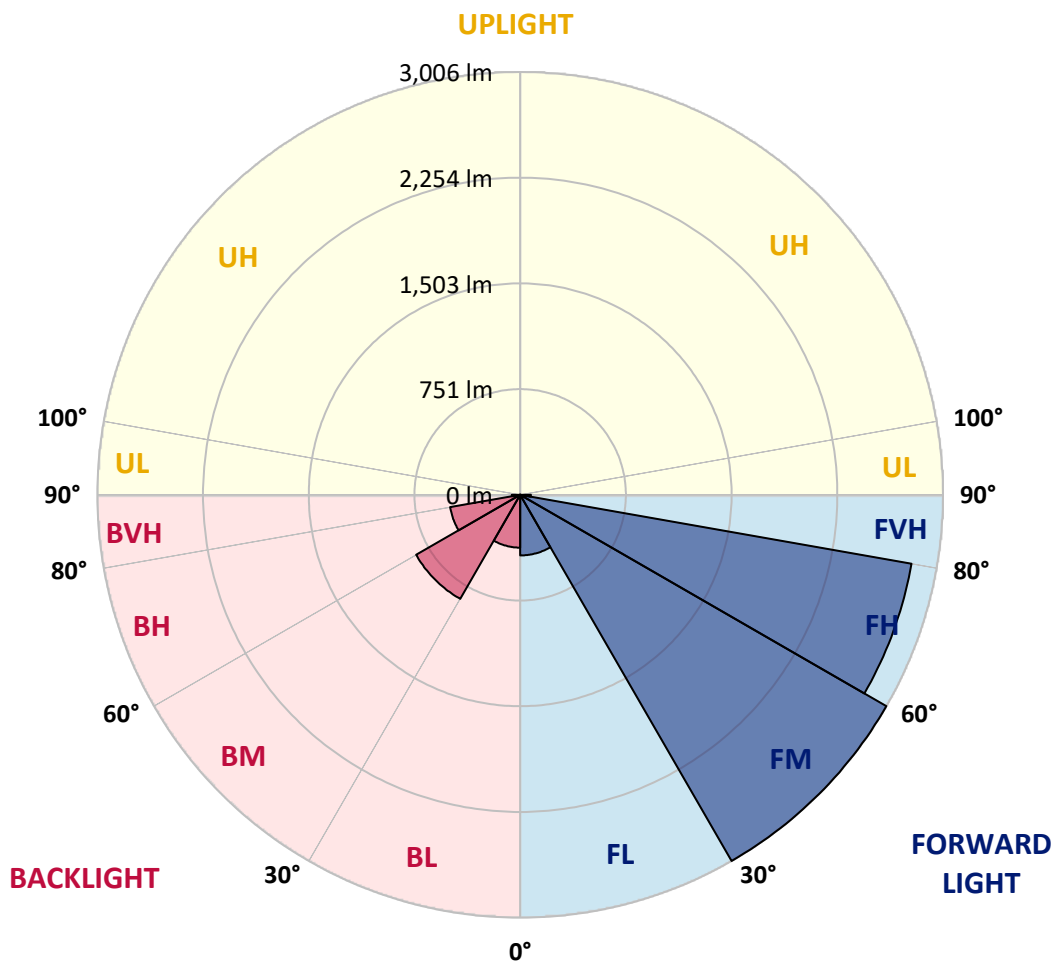
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	430.6	5.3			
FM	(30°-60°)	3005.6	37.0			
FH	(60°-80°)	2824.5	34.7			G2/5000
FVH	(80°-90°)	75.7	0.9			G1/100
BL	(0°-30°)	375.7	4.6	B1/500		
BM	(30°-60°)	853.9	10.5	B1/1000		
BH	(60°-80°)	505.6	6.2	B2/1000		G2/1000
BVH	(80°-90°)	58.9	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6
2.5°	998.9	998.9	1001.5	1001.5	1001.5	1000.4	997.3	998.3	996.3	994.7	992.1
5°	978.6	979.6	982.7	983.8	985.3	985.8	985.8	985.3	985.8	985.8	984.3
7.5°	950.4	951.5	955.1	957.2	961.9	966.1	968.1	968.1	970.8	972.8	973.3
10°	933.2	933.2	935.4	935.4	939.0	941.1	947.9	947.4	954.6	961.4	964.5
12.5°	931.2	931.2	930.2	926.5	924.4	923.9	930.7	931.7	942.6	954.6	960.3
15°	937.9	937.9	934.9	927.5	919.7	916.2	922.9	925.0	936.9	950.9	959.8
17.5°	959.8	959.3	952.6	937.9	924.4	918.7	920.8	922.9	933.9	949.9	960.9
20°	1008.2	1008.2	993.7	967.1	943.7	930.2	927.0	928.6	936.4	951.5	965.6
22.5°	1093.1	1094.7	1068.6	1024.9	984.8	956.2	943.7	945.2	948.9	963.5	979.1
25°	1218.0	1213.8	1176.9	1114.9	1052.5	1003.5	978.0	979.6	979.6	993.2	1009.2
27.5°	1350.2	1351.2	1298.1	1231.5	1149.3	1076.5	1035.8	1035.3	1034.8	1047.8	1065.0
30°	1499.6	1500.2	1438.7	1361.6	1267.4	1174.2	1113.4	1112.9	1108.2	1124.3	1146.7
32.5°	1663.0	1662.5	1591.2	1504.2	1399.7	1294.0	1214.9	1214.3	1210.8	1232.6	1259.7
35°	1844.2	1844.2	1773.4	1666.2	1553.2	1435.6	1344.0	1343.4	1345.5	1375.2	1400.7
37.5°	2062.3	2067.0	1981.6	1851.4	1728.1	1602.7	1496.0	1492.8	1477.2	1527.2	1569.3
40°	2289.8	2302.8	2214.3	2062.3	1929.0	1799.4	1681.7	1679.7	1666.2	1719.3	1787.4
42.5°	2535.9	2565.7	2467.3	2312.1	2166.9	2026.9	1908.7	1903.0	1850.9	1933.7	2040.4
45°	2858.6	2878.0	2735.3	2594.7	2457.8	2298.1	2157.5	2126.8	2074.7	2180.9	2319.4
47.5°	3078.4	3069.0	2980.0	2885.7	2797.8	2644.7	2428.7	2389.7	2326.2	2466.7	2619.3
50°	3214.7	3221.5	3171.5	3166.9	3162.1	3055.5	2734.8	2687.9	2614.6	2781.1	2959.1
52.5°	3304.7	3274.1	3282.9	3389.0	3517.6	3466.6	3080.9	3028.9	2953.4	3120.0	3320.9
55°	3267.3	3226.7	3308.4	3517.6	3820.0	3831.5	3460.8	3407.2	3342.7	3480.2	3756.1
57.5°	3112.1	3132.5	3261.6	3552.5	4026.7	4158.4	3897.6	3842.9	3716.0	3855.4	4169.3
60°	2894.0	2935.2	3132.5	3497.4	4171.4	4412.9	4377.0	4340.6	4122.0	4220.8	4603.4
62.5°	2659.9	2700.4	2943.0	3403.2	4106.3	4638.3	4847.6	4825.2	4570.1	4572.7	4878.8
65°	2313.7	2330.4	2578.1	3146.0	3925.7	4841.8	5318.6	5298.8	4998.4	4873.0	4955.8
67.5°	1747.4	1768.2	1971.7	2483.4	3376.0	4731.5	5695.0	5691.8	5256.1	4984.4	4772.6
69°	1290.4	1315.8	1481.9	1928.0	2791.5	4310.9	5712.7	5754.8	5325.9	4973.0	4462.9
70°	944.2	973.3	1126.9	1530.3	2325.2	3846.6	5561.2	5651.7	5299.4	4900.7	4221.4
72.5°	401.3	411.2	486.7	690.7	1179.5	2319.4	4555.0	4745.6	4786.1	4391.0	3298.0
75°	251.4	254.5	284.2	354.5	524.7	959.3	2949.8	3209.5	3573.4	3406.7	2208.0
77.5°	189.5	192.1	209.3	244.1	325.8	358.1	1368.4	1631.8	2046.6	2004.0	1098.9
80°	145.3	146.8	158.3	177.5	229.6	224.3	444.0	558.0	854.2	753.7	388.8
82.5°	114.0	114.5	124.4	128.1	160.3	151.0	222.8	248.3	345.1	286.8	190.0
85°	101.0	102.5	112.4	93.7	102.5	91.0	122.3	132.8	183.2	172.8	71.8
87.5°	51.6	54.1	94.2	80.2	51.6	43.2	53.6	57.8	74.5	80.7	34.9
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°	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6	1004.6
2.5°	992.6	993.2	994.7	997.3	1001.5	1006.7	1012.9	1019.2	1022.8	1025.4	1024.4
5°	984.3	984.8	988.0	992.6	997.8	1005.7	1016.0	1023.9	1029.6	1033.2	1032.7
7.5°	973.8	975.5	981.7	986.9	994.2	1000.4	1008.7	1016.0	1021.7	1025.4	1024.9
10°	966.1	967.6	975.5	982.2	988.5	989.5	988.0	985.8	985.3	988.0	986.9
12.5°	962.4	965.6	972.8	977.5	974.9	965.1	953.6	948.9	947.4	952.6	953.1
15°	963.5	966.1	972.3	969.2	955.1	938.5	932.2	935.9	939.0	942.1	942.6
17.5°	966.1	967.6	969.2	957.8	937.9	927.0	925.0	921.3	912.0	906.7	906.2
20°	970.8	972.8	970.3	952.1	934.4	919.7	894.8	872.4	851.0	839.6	834.9
22.5°	986.9	988.5	980.6	962.9	935.9	888.5	838.0	799.5	766.7	749.0	742.3
25°	1018.7	1021.2	1010.4	988.0	917.2	834.4	763.1	711.1	669.9	648.6	642.8
27.5°	1074.3	1077.0	1065.0	1006.7	873.4	762.0	675.7	624.1	588.7	570.5	567.8
30°	1157.7	1161.3	1150.3	1006.2	806.8	669.9	590.2	560.1	539.8	527.3	526.7
32.5°	1273.2	1286.7	1242.0	988.5	724.6	576.7	525.7	515.3	505.4	497.1	497.1
35°	1420.0	1451.7	1332.5	951.5	634.0	513.2	489.8	479.9	467.4	458.6	457.6
37.5°	1595.4	1644.8	1397.0	885.9	555.9	482.5	467.9	451.8	432.0	414.8	410.7
40°	1836.4	1847.9	1428.9	779.2	497.6	465.9	447.6	427.4	402.3	383.1	381.0
42.5°	2078.4	2040.9	1422.5	664.7	464.3	450.8	426.8	404.5	382.1	365.9	365.9
45°	2353.8	2209.6	1375.2	549.6	434.1	433.6	407.5	386.3	369.1	357.1	354.5
47.5°	2617.1	2361.1	1293.5	464.8	402.8	416.4	395.1	377.9	362.2	350.9	348.7
50°	2936.8	2536.5	1206.6	405.5	372.7	401.3	389.8	381.0	365.9	346.2	344.0
52.5°	3254.2	2741.5	1139.4	360.7	346.2	389.3	393.0	394.0	380.0	341.5	338.9
55°	3595.2	2960.7	1068.6	325.8	324.3	383.6	400.3	399.3	392.5	342.5	338.3
57.5°	3919.4	3180.9	962.9	301.4	307.1	377.9	401.8	385.1	373.2	347.7	340.9
60°	4188.1	3363.1	807.8	284.2	292.6	366.4	391.4	366.4	346.2	346.7	340.4
62.5°	4318.7	3414.1	617.9	264.4	280.6	347.7	376.3	352.4	333.7	348.7	345.1
65°	4219.3	3268.8	440.4	246.2	266.0	325.8	367.4	340.4	327.4	359.2	355.0
67.5°	3862.3	2873.3	319.6	230.1	252.0	303.5	350.9	329.5	321.2	366.9	357.6
69°	3482.7	2480.8	276.9	220.7	242.0	291.4	339.9	323.8	316.5	356.0	342.5
70°	3167.4	2178.4	255.5	214.9	233.7	284.7	331.5	320.1	311.8	343.0	326.8
72.5°	2271.1	1408.0	214.9	197.8	211.9	269.6	313.3	306.6	294.1	309.7	299.3
75°	1372.1	735.0	182.7	180.1	188.9	248.8	292.1	283.7	271.2	272.7	267.5
77.5°	630.3	339.4	153.0	159.3	165.0	222.8	266.0	256.7	245.2	241.0	241.5
80°	276.4	198.4	128.1	135.8	139.0	200.4	237.8	227.5	214.9	237.3	220.1
82.5°	149.4	115.1	99.9	105.2	114.0	174.4	206.6	193.1	181.2	210.8	170.2
85°	60.4	58.8	67.6	72.8	79.1	125.4	172.8	158.8	144.1	129.1	125.9
87.5°	26.0	28.1	33.3	35.4	42.1	78.1	116.1	101.5	102.0	87.5	85.9
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)