

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: P198787

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198787
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: XNV2-AF-02-LED-U-T4FT-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8191.8 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

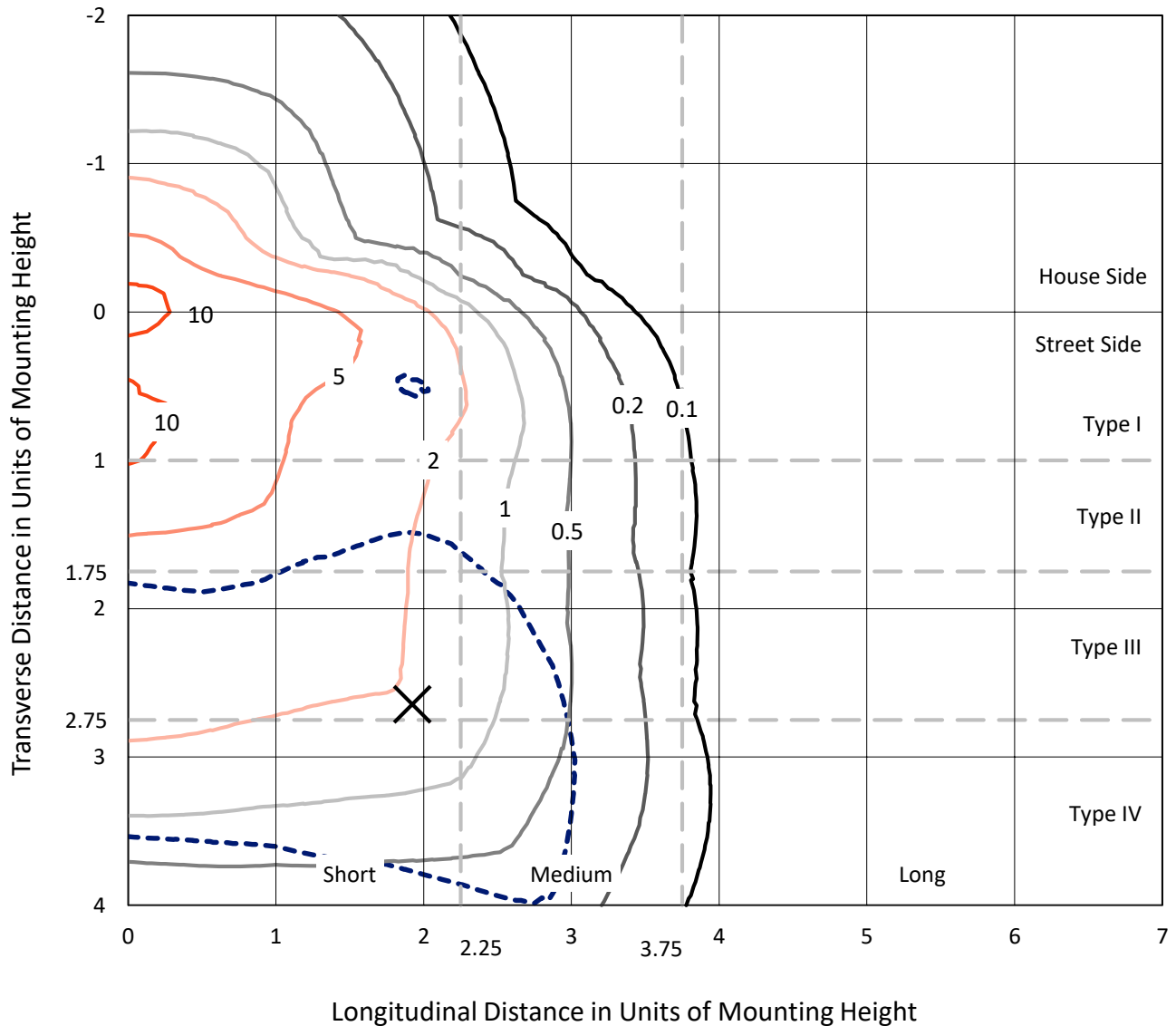
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

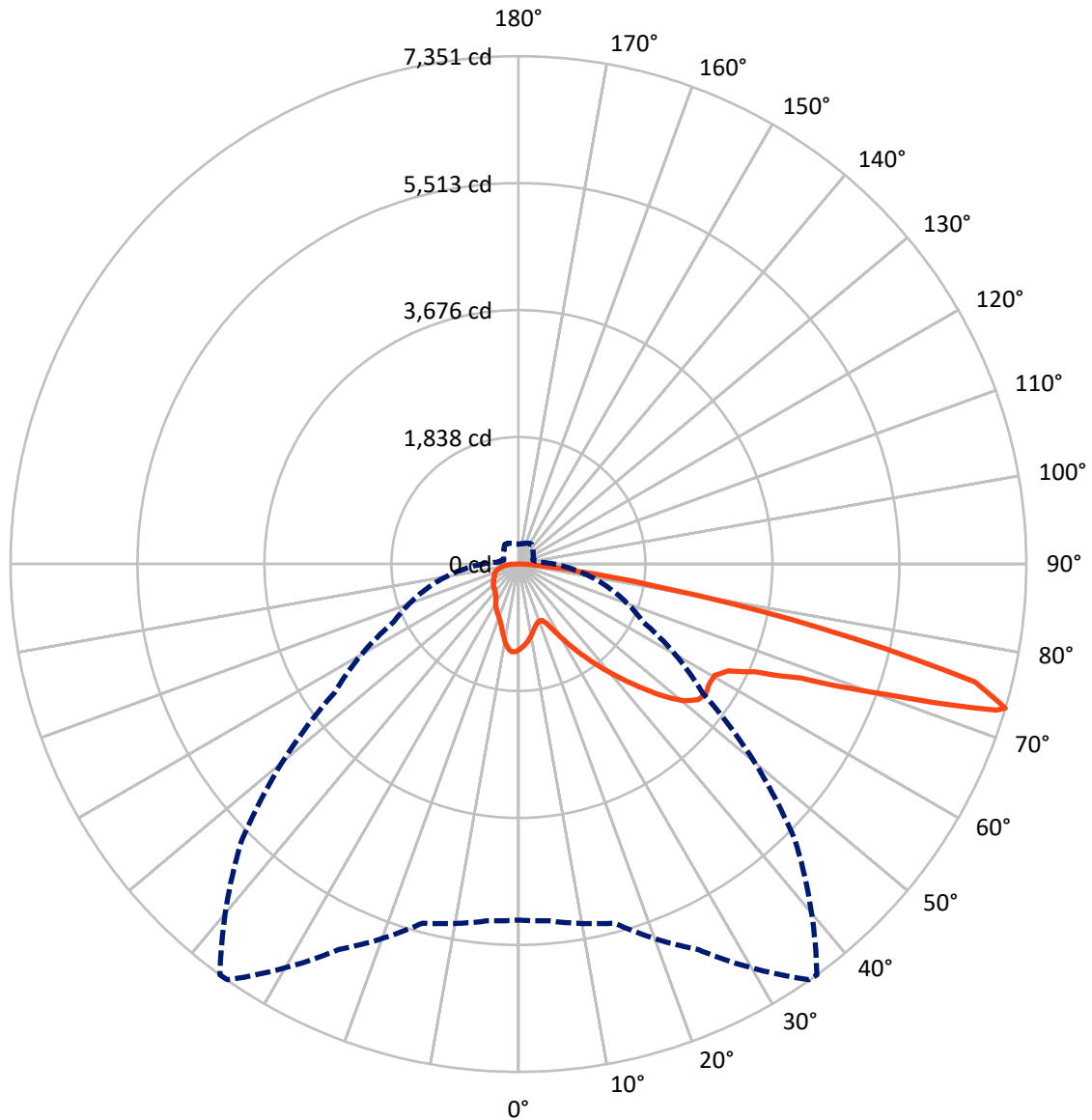
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 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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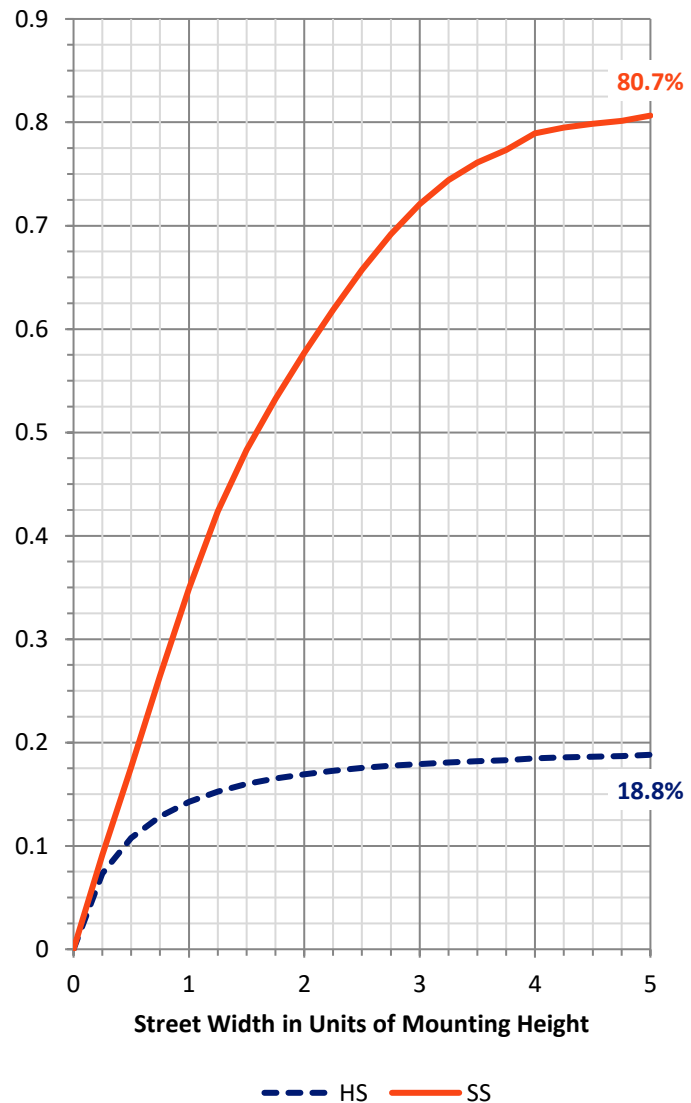
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.6	0.0	1579.6
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	6612.2	0.0	6612.2
	% Fixture	80.7	0.0	80.7
Total	Lumens	8191.8	0.0	8191.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	1.4
10°-20°	283.1	3.5
20°-30°	453.8	5.5
30°-40°	750.6	9.2
40°-50°	1161.5	14.2
50°-60°	1554.9	19.0
60°-70°	2031.2	24.8
70°-80°	1659.2	20.3
80°-90°	184.7	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°	8191.8	100.0
0°-180°	8191.8	100.0

Coefficient of Utilization



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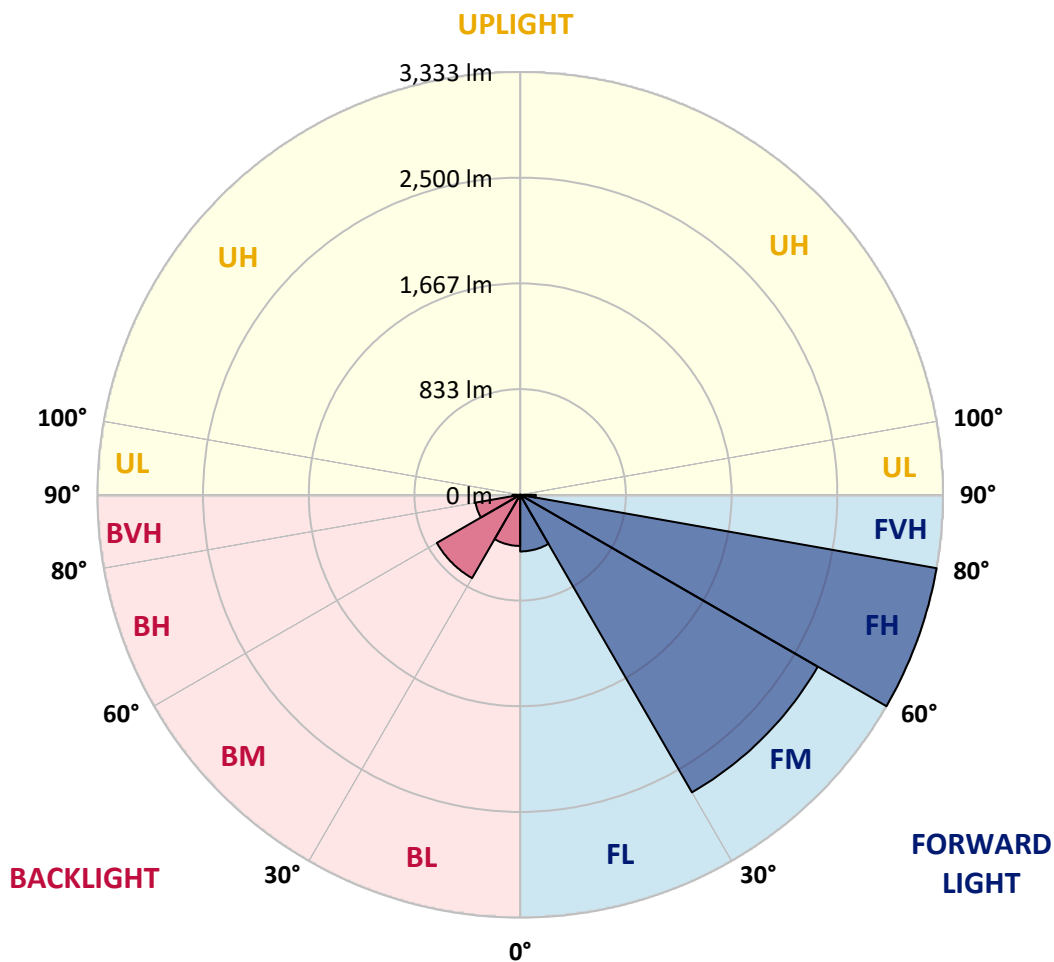
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.4	5.4			
FM	(30°-60°)	2708.5	33.1			
FH	(60°-80°)	3333.5	40.7			G2/5000
FVH	(80°-90°)	123.9	1.5			G2/225
BL	(0°-30°)	403.2	4.9	B1/500		
BM	(30°-60°)	758.6	9.3	B1/1000		
BH	(60°-80°)	357.0	4.4	B1/500		G1/500
BVH	(80°-90°)	60.8	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°	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8
2.5°	1193.5	1196.5	1197.1	1200.7	1200.7	1200.2	1201.8	1208.0	1211.2	1218.4	1224.7
5°	1134.7	1138.2	1139.9	1146.1	1153.9	1154.4	1160.1	1172.1	1183.6	1199.7	1213.2
7.5°	1068.6	1072.7	1076.9	1089.9	1101.3	1102.3	1113.3	1132.5	1147.6	1167.4	1191.9
10°	1004.5	1005.6	1009.8	1026.4	1041.5	1043.0	1058.7	1080.5	1100.8	1128.4	1155.9
12.5°	952.0	955.0	954.0	966.5	979.6	980.6	1001.4	1029.0	1058.7	1089.9	1122.7
15°	933.7	933.2	922.3	921.8	927.5	928.5	948.8	981.1	1014.5	1052.9	1095.1
17.5°	946.2	942.0	913.4	895.7	892.1	893.1	908.3	943.7	979.1	1023.3	1073.8
20°	1015.0	998.8	931.7	888.9	877.0	877.0	885.9	914.5	953.5	1005.0	1068.6
22.5°	1177.8	1152.9	1009.8	933.7	891.6	887.4	880.7	902.5	945.7	1007.6	1089.9
25°	1382.9	1371.0	1152.9	1052.9	966.0	952.5	907.7	915.5	961.9	1035.7	1148.2
27.5°	1572.9	1552.0	1340.8	1226.2	1103.5	1082.6	987.9	956.2	1000.3	1087.8	1232.5
30°	1683.8	1669.7	1533.8	1424.6	1278.3	1251.8	1115.9	1036.2	1069.1	1173.6	1352.2
32.5°	1804.5	1796.2	1727.5	1628.0	1467.7	1437.0	1281.5	1166.9	1174.2	1287.7	1496.4
35°	1921.6	1932.6	1893.5	1820.6	1671.8	1643.2	1503.6	1337.6	1303.8	1415.7	1650.4
37.5°	2062.2	2064.7	2040.3	1992.9	1886.2	1862.8	1747.8	1519.8	1444.8	1552.0	1799.3
40°	2342.7	2301.5	2205.8	2168.3	2104.8	2090.2	1959.1	1686.8	1576.0	1692.1	1939.8
42.5°	2646.1	2582.1	2432.2	2370.8	2345.3	2331.7	2135.0	1798.2	1698.8	1832.1	2077.7
45°	2890.8	2838.7	2691.9	2615.9	2619.1	2597.2	2288.5	1897.7	1832.1	1972.7	2231.8
47.5°	3131.7	3044.8	2880.3	2869.4	2905.8	2873.6	2435.3	1997.1	1971.0	2125.6	2385.8
50°	3147.3	3068.2	3001.5	3089.0	3151.5	3111.4	2568.5	2127.2	2115.3	2310.9	2584.7
52.5°	2957.4	2945.9	3047.4	3194.7	3298.3	3262.4	2677.4	2260.9	2262.6	2542.5	2826.7
55°	2888.1	2873.6	2995.3	3176.5	3316.5	3295.1	2758.5	2411.9	2425.9	2823.5	3086.4
57.5°	3004.7	2968.3	2992.2	3142.1	3273.9	3261.3	2842.9	2579.5	2604.9	3147.3	3326.3
60°	3366.4	3292.1	3165.0	3193.1	3275.4	3268.1	2963.6	2766.4	2809.0	3484.6	3478.3
62.5°	3908.3	3824.0	3565.3	3440.4	3422.2	3408.1	3163.0	2995.9	3017.2	3728.1	3389.9
65°	4502.6	4412.1	4104.5	3899.9	3792.7	3762.5	3484.6	3272.7	3139.0	3727.6	3045.3
67.5°	5169.9	5074.1	4767.6	4572.4	4456.3	4404.8	4006.6	3496.5	3099.4	3412.3	2436.9
70°	5853.3	5762.2	5621.6	5689.9	5740.9	5662.2	4828.9	3571.0	2815.3	2675.2	1636.4
72.5°	5490.5	5483.2	5589.9	6236.3	7219.6	7235.1	5650.3	3360.7	2175.1	1590.1	872.3
73°	5153.7	5184.5	5382.3	6155.7	7346.0	7351.2	5666.4	3252.0	1997.1	1369.9	766.2
75°	2670.0	2878.3	3612.1	4991.4	6802.1	6826.6	4995.1	2461.8	1190.3	761.0	516.3
77.5°	715.1	705.7	1163.8	2431.7	4534.9	4502.6	3156.2	1191.9	570.4	477.3	362.2
80°	245.1	248.3	396.1	889.5	2116.8	2192.3	1369.9	520.0	375.2	332.6	256.6
82.5°	124.9	129.1	207.1	378.4	885.4	866.6	440.9	306.1	251.4	201.9	143.6
85°	66.6	68.7	114.0	196.2	324.8	328.5	155.1	163.5	159.8	114.5	70.8
87.5°	32.8	33.9	54.6	86.4	120.2	116.1	54.1	70.8	78.6	64.5	39.1
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°	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8	1240.8
2.5°	1232.5	1232.5	1239.3	1250.7	1259.0	1266.8	1272.0	1280.3	1285.0	1284.5	1284.0
5°	1224.2	1229.4	1242.9	1257.0	1266.3	1272.6	1272.6	1276.2	1276.2	1274.7	1272.6
7.5°	1204.9	1213.7	1233.6	1246.1	1248.6	1241.9	1228.4	1217.9	1204.9	1198.2	1195.5
10°	1174.2	1185.6	1210.7	1216.4	1202.8	1178.8	1146.1	1118.0	1093.0	1081.6	1077.9
12.5°	1144.0	1159.1	1182.5	1173.6	1141.4	1094.6	1044.1	1005.6	977.4	966.5	962.9
15°	1119.0	1137.2	1155.4	1127.9	1071.6	1006.6	950.9	915.0	893.6	885.4	883.2
17.5°	1102.3	1123.7	1130.0	1078.4	1000.3	927.5	878.0	854.6	845.3	841.6	840.6
20°	1103.5	1127.4	1112.3	1030.5	931.7	858.3	825.5	818.7	818.7	818.7	818.2
22.5°	1132.0	1152.9	1105.0	985.8	865.5	799.9	785.9	791.7	795.9	795.9	795.2
25°	1191.3	1202.8	1110.2	942.5	803.6	749.5	750.0	761.0	764.6	764.6	763.5
27.5°	1282.0	1272.6	1119.5	894.7	742.8	703.7	711.0	720.9	723.4	721.9	721.4
30°	1395.4	1358.0	1127.4	838.5	685.5	661.0	667.3	673.0	670.9	667.3	666.8
32.5°	1522.4	1444.8	1122.7	775.5	634.9	616.7	620.4	623.5	620.4	611.5	611.5
35°	1648.4	1523.5	1097.2	706.9	594.9	574.1	573.6	583.5	583.0	572.5	573.1
37.5°	1758.7	1585.4	1047.7	643.8	560.6	542.9	544.9	551.2	554.3	540.2	538.7
40°	1855.0	1628.0	977.9	590.2	533.0	534.0	528.3	518.4	514.7	508.5	507.5
42.5°	1945.6	1657.7	904.1	545.4	518.9	530.9	511.7	488.3	478.3	484.1	487.6
45°	2034.5	1691.0	832.8	508.5	501.2	521.5	495.0	468.9	457.5	460.1	463.7
47.5°	2143.3	1737.4	746.9	468.9	474.1	504.3	484.6	456.4	439.3	428.9	425.8
50°	2286.5	1804.5	635.5	426.3	445.5	485.6	475.7	438.2	419.5	398.6	393.5
52.5°	2465.5	1868.0	523.0	391.9	422.1	469.4	461.1	422.6	399.8	374.7	370.6
55°	2644.0	1876.8	426.3	362.2	395.6	447.6	443.4	410.1	377.9	357.5	353.4
57.5°	2768.9	1793.0	361.2	337.3	370.1	420.5	427.3	395.1	359.7	344.0	341.5
60°	2771.1	1592.6	321.6	320.6	350.8	397.1	410.6	377.4	348.2	337.8	335.7
62.5°	2550.8	1283.5	296.1	308.1	336.8	377.9	398.1	367.4	345.6	341.5	339.3
65°	2138.2	948.3	275.9	296.7	323.8	361.7	387.8	364.4	344.5	343.0	341.5
67.5°	1578.6	650.1	258.7	282.1	309.1	345.0	377.9	359.7	338.3	344.5	342.5
70°	993.1	434.0	242.5	265.5	289.9	325.8	364.9	351.3	330.5	326.8	320.1
72.5°	560.6	313.8	223.3	244.1	264.9	300.3	347.2	337.3	312.8	298.2	291.4
73°	506.5	297.2	218.6	238.9	259.2	295.1	343.0	333.1	307.6	291.4	285.2
75°	370.6	243.1	197.2	217.6	235.3	271.2	323.3	312.3	284.7	265.5	261.3
77.5°	268.5	187.4	169.7	187.9	203.5	237.8	293.6	281.1	254.0	243.6	239.4
80°	193.6	142.1	140.6	158.3	171.8	206.6	261.8	248.8	222.8	253.5	246.7
82.5°	115.6	91.0	103.0	122.9	136.9	173.3	227.4	212.4	187.4	189.5	161.3
85°	55.1	51.6	64.0	80.7	90.5	118.7	189.5	177.5	149.9	122.9	120.2
87.5°	24.4	23.4	30.7	35.9	48.4	71.3	129.6	115.0	108.7	65.1	51.0
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)