

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: P198755

Luminaire Tested: **XNV2-AF-02-LED-U-T2-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198755  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24136)  
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-T2-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7954.5 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

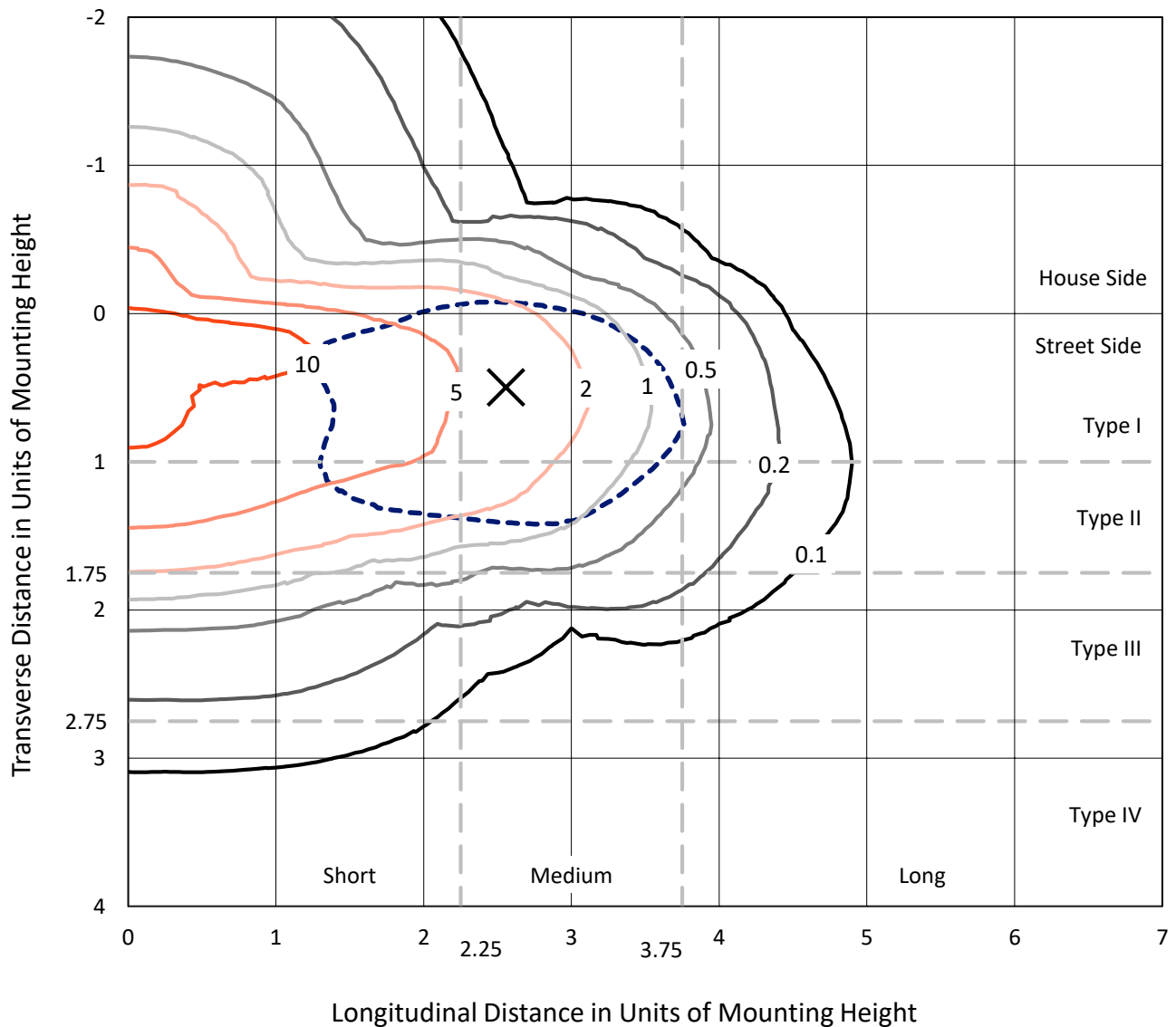
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

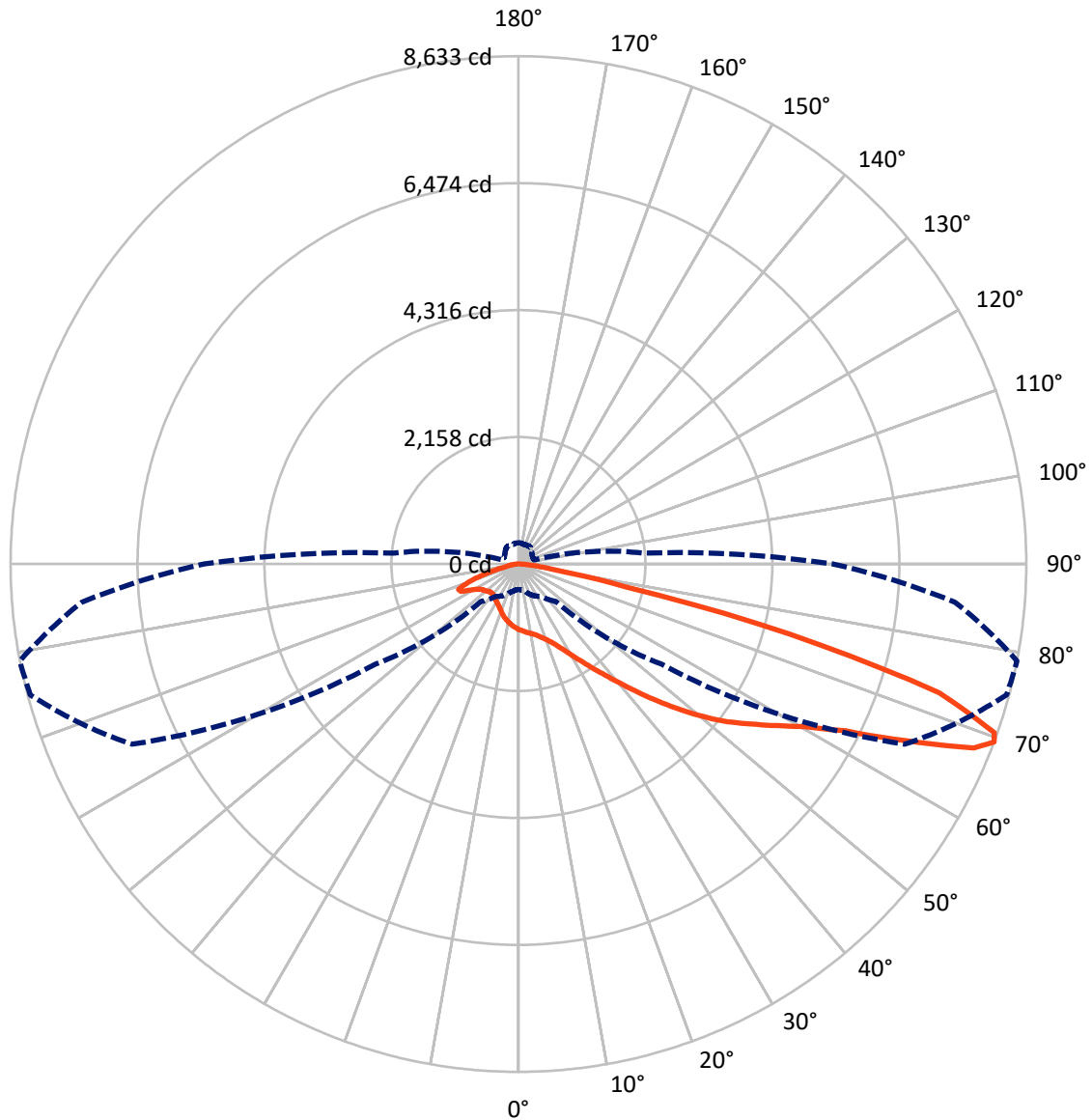
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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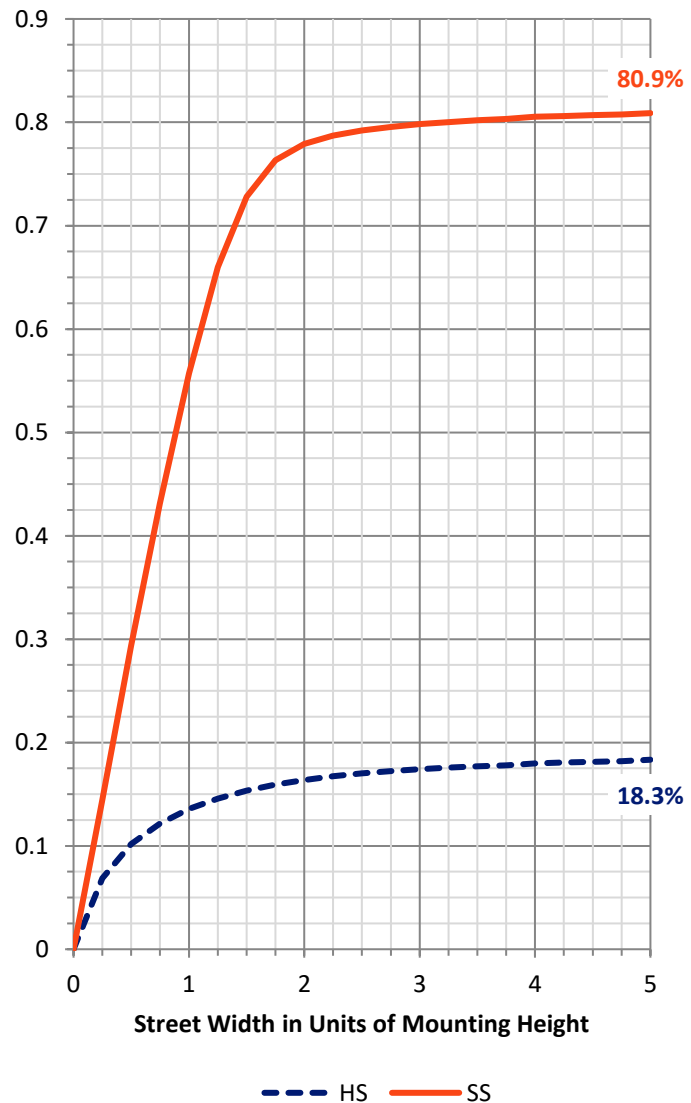
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1496.4	0.0	1496.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	6458.1	0.0	6458.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	7954.5	0.0	7954.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	1.3
10°-20°	296.7	3.7
20°-30°	490.2	6.2
30°-40°	793.8	10.0
40°-50°	1268.1	15.9
50°-60°	1816.1	22.8
60°-70°	2023.4	25.4
70°-80°	1012.3	12.7
80°-90°	150.2	1.9
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°	7954.5	100.0
0°-180°	7954.5	100.0



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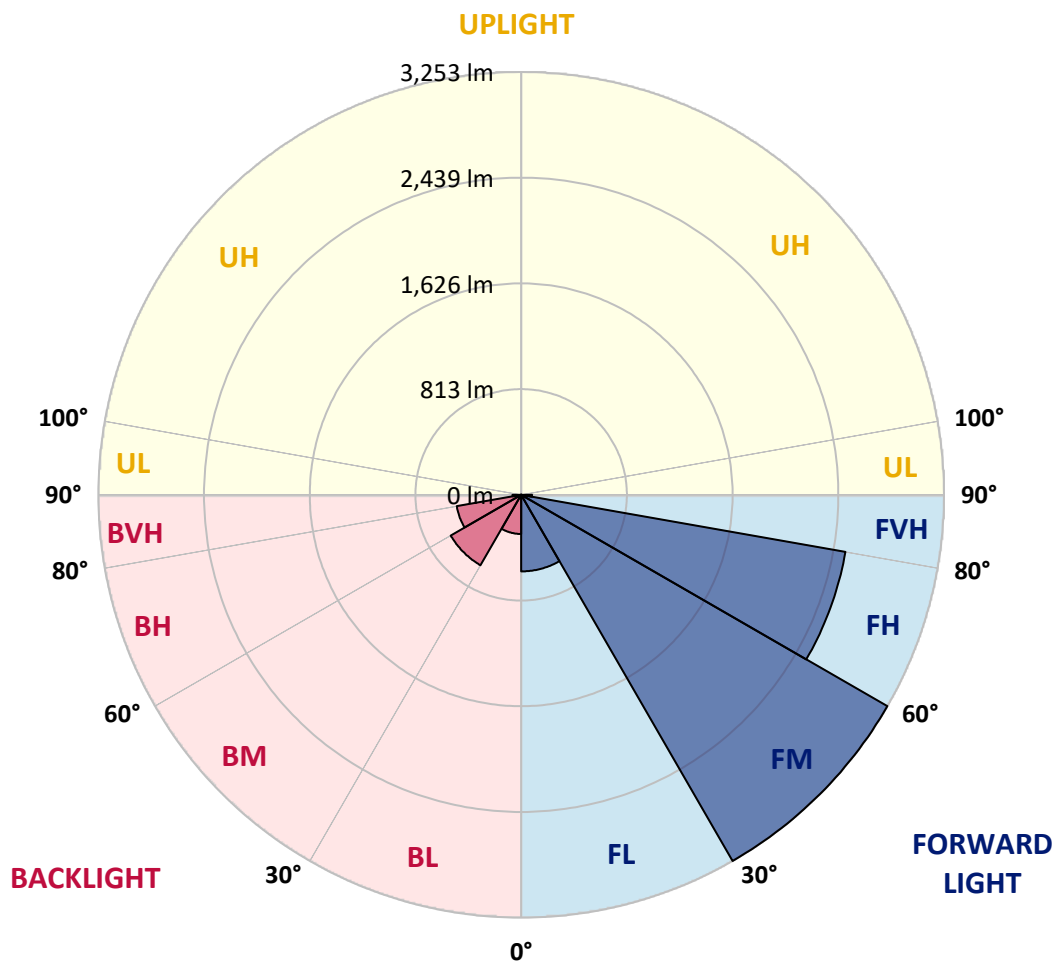
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	589.0	7.4			
FM (30°-60°)	3252.6	40.9			
FH (60°-80°)	2532.6	31.8			G2/5000
FVH (80°-90°)	83.9	1.1			G1/100
BL (0°-30°)	301.5	3.8	B1/500		
BM (30°-60°)	625.5	7.9	B1/1000		
BH (60°-80°)	503.1	6.3	B2/1000		G2/1000
BVH (80°-90°)	66.3	0.8			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1225.6	1222.9	1222.4	1214.7	1210.5	1201.6	1180.8	1159.4	1139.7	1129.2	1118.4
5°	1328.1	1322.9	1320.2	1307.2	1295.8	1276.0	1243.2	1209.4	1174.0	1155.8	1133.9
7.5°	1390.0	1390.5	1390.5	1380.1	1368.7	1344.7	1303.1	1256.8	1204.2	1180.3	1145.9
10°	1395.2	1395.7	1403.5	1406.1	1408.7	1396.2	1357.8	1299.5	1231.8	1200.5	1155.8
12.5°	1343.6	1347.3	1360.3	1379.0	1405.6	1419.1	1402.5	1345.3	1267.1	1229.2	1174.6
15°	1274.5	1278.1	1294.7	1323.4	1366.0	1411.4	1434.8	1397.8	1313.5	1268.8	1202.2
17.5°	1240.6	1244.8	1256.3	1279.1	1320.7	1381.7	1451.9	1454.0	1368.1	1316.6	1234.9
20°	1224.5	1227.6	1242.2	1260.9	1292.7	1351.0	1453.5	1513.4	1433.2	1373.3	1275.0
22.5°	1261.5	1262.5	1269.8	1280.2	1301.5	1346.3	1452.5	1574.7	1514.4	1444.6	1326.5
25°	1369.7	1363.0	1357.8	1344.7	1349.9	1381.7	1469.1	1640.3	1618.4	1538.3	1395.2
27.5°	1497.7	1496.7	1483.2	1453.0	1433.7	1454.0	1516.4	1713.6	1746.0	1657.5	1485.2
30°	1640.3	1640.8	1626.8	1589.9	1550.8	1552.8	1591.9	1798.6	1898.4	1801.1	1596.1
32.5°	1789.7	1799.1	1773.0	1736.0	1688.7	1673.6	1700.1	1901.1	2074.9	1970.7	1724.6
35°	1968.2	1969.7	1941.2	1886.9	1839.6	1815.6	1840.2	2029.0	2278.3	2170.1	1881.2
37.5°	2153.4	2154.4	2124.8	2055.6	1995.8	1980.1	2007.2	2184.6	2493.7	2397.0	2065.4
40°	2304.9	2315.8	2292.3	2227.3	2166.9	2157.6	2196.6	2371.0	2769.0	2665.5	2284.6
42.5°	2476.6	2489.0	2461.0	2393.3	2345.4	2342.4	2403.2	2583.3	3042.8	2976.2	2532.8
45°	2670.2	2687.9	2648.8	2572.8	2532.3	2601.0	2604.6	2818.5	3358.1	3323.8	2812.3
47.5°	2881.4	2896.1	2864.3	2782.6	2738.3	2837.8	2801.9	3072.9	3699.0	3696.4	3114.6
50°	3044.4	3060.5	3063.6	3027.7	2981.4	2993.9	3018.3	3340.4	4038.8	4079.4	3427.4
52.5°	3014.7	3030.3	3100.6	3194.8	3269.1	3236.9	3266.6	3624.6	4367.2	4453.1	3724.6
55°	2775.3	2783.7	2915.3	3139.0	3456.0	3610.0	3612.1	3933.8	4679.5	4799.7	4006.6
57.5°	2343.9	2344.9	2516.2	2846.1	3347.2	3852.0	4157.5	4322.0	5005.2	5182.7	4356.3
60°	1658.5	1662.7	1862.0	2293.5	2957.5	3822.9	4744.0	5016.7	5382.6	5613.0	4806.9
62.5°	984.6	994.0	1144.4	1490.4	2196.6	3448.2	5090.6	6252.7	5938.3	6244.3	5528.2
65°	640.6	648.4	738.5	912.3	1297.9	2508.9	4976.7	7449.5	6990.0	7237.3	6564.9
67.5°	493.4	499.6	570.4	675.5	796.3	1356.1	3979.0	7700.4	8270.3	8347.3	7439.7
69°	433.5	438.7	490.7	591.7	670.2	897.7	2965.2	7245.0	8590.2	8632.5	7450.6
70°	401.7	405.9	454.8	542.3	615.6	716.6	2269.5	6716.3	8473.2	8580.9	7235.6
72.5°	331.0	334.6	369.5	436.6	503.2	510.6	1005.5	4904.2	7134.7	7479.2	6123.1
75°	276.3	278.4	301.4	350.3	407.4	406.4	513.6	2777.9	4353.7	4764.3	3780.7
77.5°	230.6	232.1	247.1	277.4	321.6	320.1	361.7	1199.0	1922.3	1854.7	1301.5
80°	203.5	204.5	212.4	220.1	248.3	246.6	268.0	550.6	782.1	722.8	492.3
82.5°	154.6	156.6	196.2	199.9	192.5	185.8	186.8	320.6	400.7	364.8	264.3
85°	87.5	88.0	125.9	147.3	167.6	125.9	121.2	165.5	197.7	173.3	115.5
87.5°	39.1	40.6	60.4	69.8	90.5	73.9	69.3	70.3	85.3	70.8	45.8
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°	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2	1116.2
2.5°	1108.0	1099.1	1078.3	1056.9	1035.6	1022.0	1008.0	995.0	989.8	989.3	979.4
5°	1112.7	1091.8	1044.4	992.4	943.0	904.5	872.2	851.4	831.0	827.5	818.6
7.5°	1114.2	1080.3	1003.3	920.0	844.7	791.6	759.2	745.2	735.3	732.7	729.6
10°	1113.7	1065.8	957.6	843.5	757.7	717.6	705.6	708.8	713.0	715.0	715.0
12.5°	1122.0	1059.1	911.8	771.7	701.5	682.2	691.6	707.8	720.3	725.5	726.5
15°	1137.1	1054.9	861.2	709.3	662.0	666.7	689.6	713.0	730.7	738.5	740.5
17.5°	1155.8	1049.1	803.0	657.8	639.0	655.2	684.9	714.5	735.8	745.7	747.3
20°	1176.6	1040.9	742.7	619.3	618.8	639.0	668.7	702.1	725.0	735.8	735.3
22.5°	1204.7	1033.0	686.4	591.2	596.4	615.1	639.5	669.7	691.1	701.0	698.9
25°	1242.2	1025.7	636.0	566.2	570.9	583.4	600.6	623.5	638.5	643.7	640.1
27.5°	1292.7	1020.0	596.4	543.3	542.8	548.5	558.9	571.4	578.7	577.1	571.4
30°	1354.6	1014.3	567.2	523.0	515.7	515.2	519.9	527.1	531.8	522.5	517.8
32.5°	1423.8	1004.3	541.2	505.3	492.3	487.6	489.7	499.6	518.8	509.4	505.8
35°	1505.5	993.0	515.2	486.1	476.2	467.3	468.9	490.2	548.5	541.8	538.1
37.5°	1603.9	982.5	491.2	465.2	464.7	453.8	452.8	478.2	556.3	541.8	538.6
40°	1722.0	980.4	469.9	442.3	450.7	446.5	442.8	458.5	513.1	483.4	477.7
42.5°	1864.6	989.8	454.3	420.5	434.5	444.5	437.6	441.3	463.7	437.1	432.5
45°	2031.2	1015.3	442.8	401.2	417.4	442.8	435.1	431.9	435.6	421.0	417.9
47.5°	2225.2	1060.6	435.1	385.1	401.2	438.7	434.0	427.8	426.2	417.9	415.8
50°	2432.9	1121.5	429.8	370.5	386.7	431.4	433.5	424.6	422.1	418.4	417.4
52.5°	2639.0	1187.5	423.6	358.0	374.7	422.6	434.0	421.6	417.9	415.8	414.8
55°	2844.0	1256.3	412.1	347.1	365.8	412.1	433.5	417.4	413.2	413.2	413.2
57.5°	3110.0	1360.8	397.1	338.3	354.4	398.6	426.8	412.7	406.9	407.4	408.0
60°	3494.0	1536.3	380.4	328.4	339.3	383.0	416.3	404.4	397.6	399.7	400.2
62.5°	4135.7	1842.7	357.5	314.4	323.7	366.3	402.8	392.9	386.7	390.3	390.9
65°	4991.2	2213.8	327.3	296.7	307.6	347.6	385.7	379.4	372.6	381.5	380.9
67.5°	5513.1	2322.5	295.6	277.9	292.0	327.9	364.3	361.7	357.0	372.6	371.5
69°	5342.0	2125.8	277.4	266.0	281.0	314.4	350.8	349.7	346.1	361.2	360.1
70°	5076.0	1942.2	266.0	258.1	275.3	306.0	341.9	341.9	338.3	351.3	348.6
72.5°	4077.4	1440.5	239.4	238.3	255.5	283.1	317.9	320.6	318.4	323.2	320.6
75°	2393.8	868.1	213.4	216.5	231.6	258.6	291.4	293.5	291.4	290.9	291.4
77.5°	830.0	389.2	188.4	193.0	206.1	233.6	262.3	266.5	263.3	259.7	260.8
80°	324.7	226.4	161.3	168.1	179.0	205.5	233.1	235.8	231.1	230.6	226.4
82.5°	195.2	137.9	125.4	136.4	149.9	178.5	201.4	200.4	196.7	218.1	191.0
85°	84.8	76.5	91.6	102.5	109.3	133.7	170.2	165.5	156.6	137.9	134.8
87.5°	34.4	39.6	50.4	60.9	65.6	86.3	116.6	112.4	114.0	93.7	93.2
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)