

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: P198552

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7030-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)  
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-SL3-7030-1200-HSS  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4985 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - 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

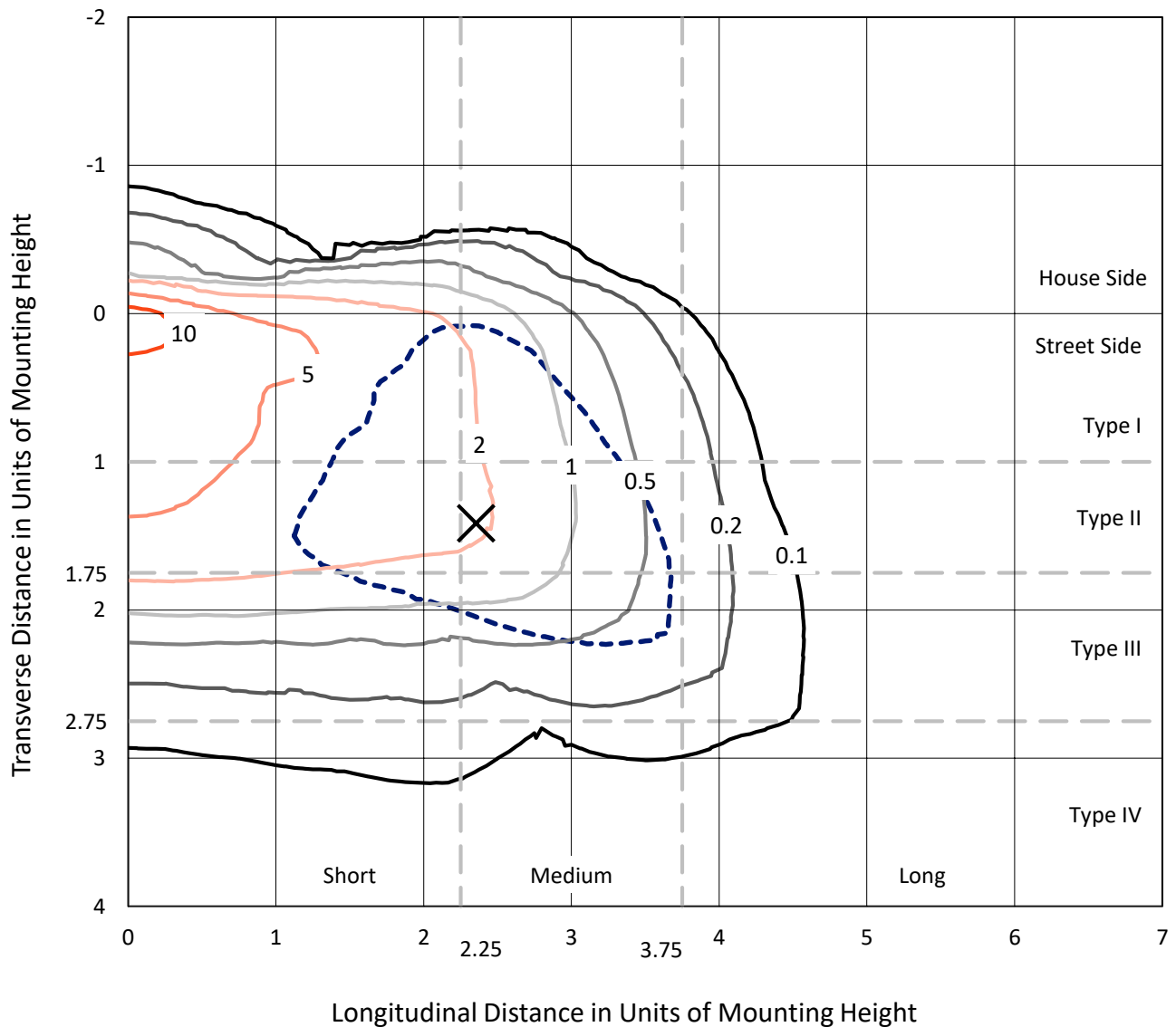


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

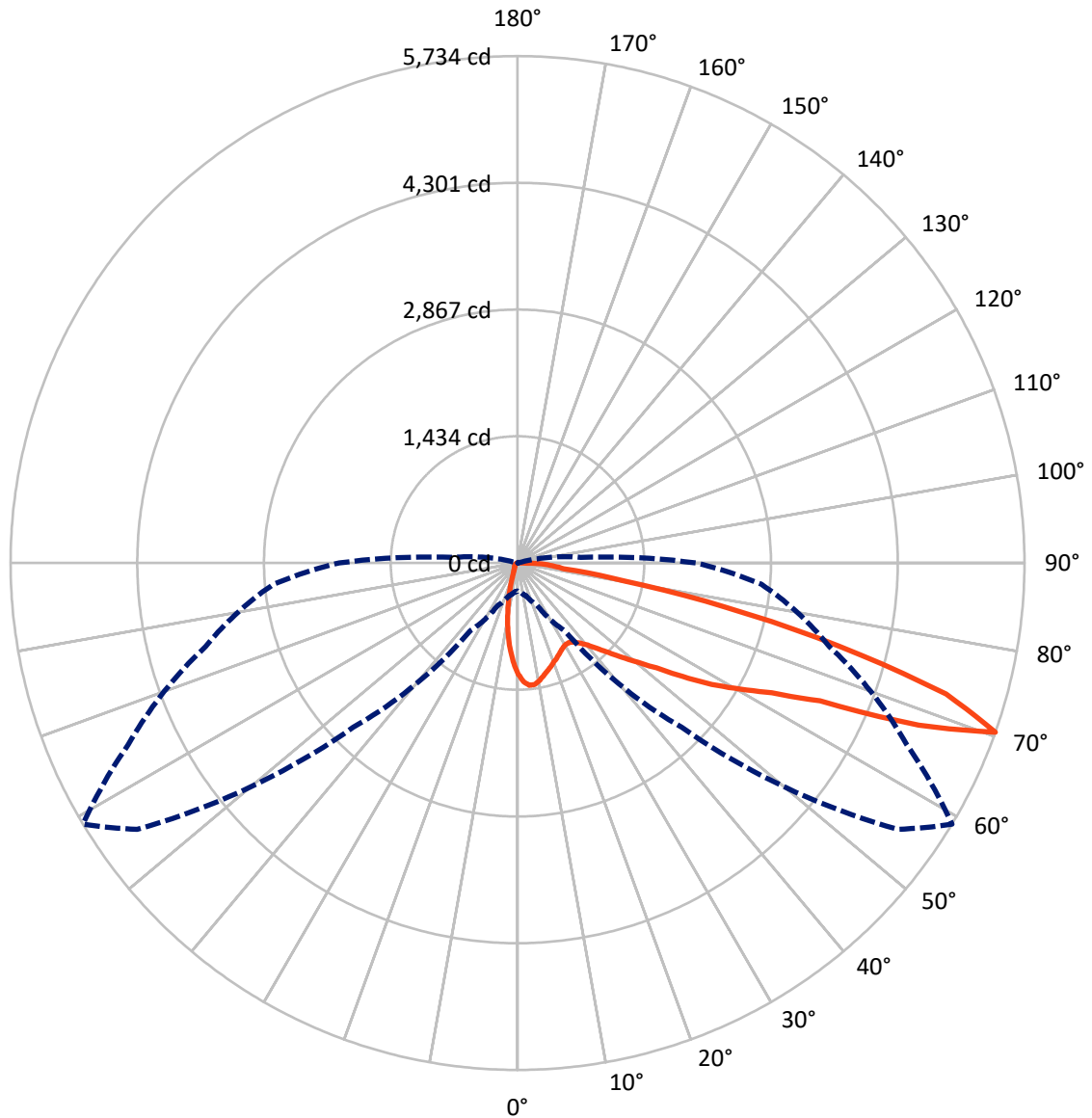


Based on 10 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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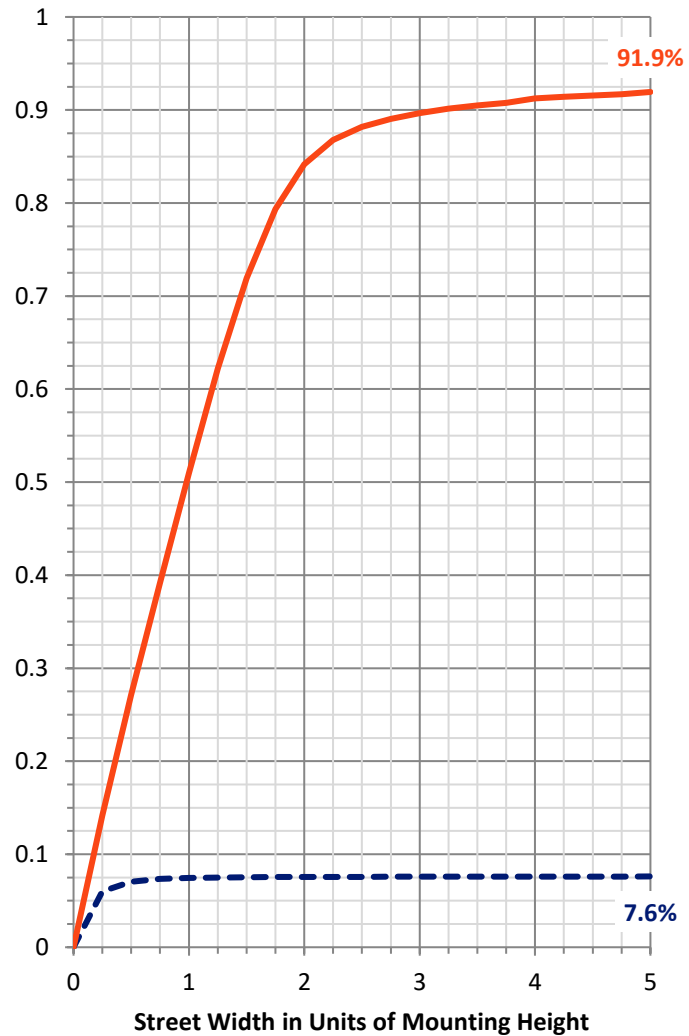
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	383.2	0.0	383.2
	% Fixture	7.7	0.0	7.7
<b>Street Side</b>	Lumens	4601.8	0.0	4601.8
	% Fixture	92.3	0.0	92.3
<b>Total</b>	Lumens	4985.0	0.0	4985.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.7	2.1
10°-20°	217.4	4.4
20°-30°	294.3	5.9
30°-40°	424.7	8.5
40°-50°	705.4	14.1
50°-60°	1078.9	21.6
60°-70°	1341.9	26.9
70°-80°	741.8	14.9
80°-90°	76.9	1.5
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°	4985.0	100.0
0°-180°	4985.0	100.0



--- HS    — SS

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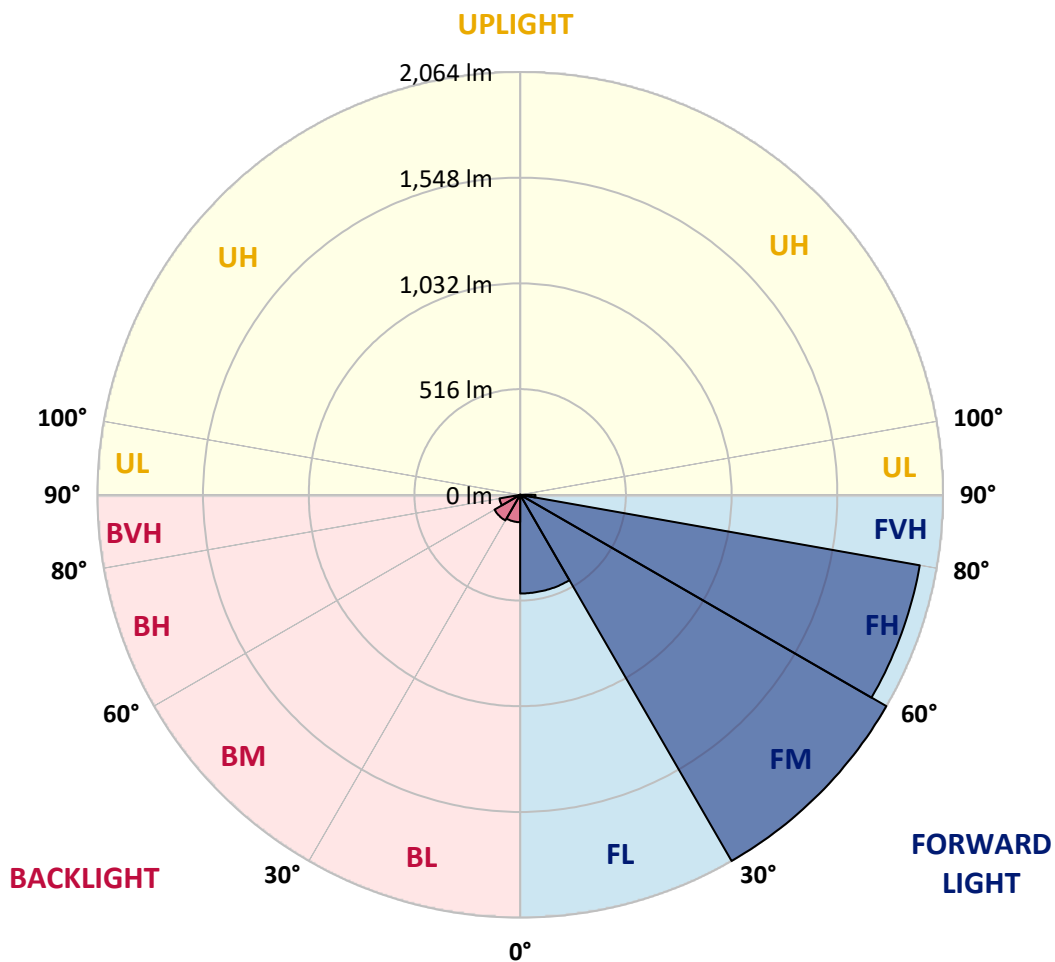
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.8	9.7			
FM	(30°-60°)	2064.3	41.4			
FH	(60°-80°)	1980.9	39.7			G2/5000
FVH	(80°-90°)	74.7	1.5			G1/100
BL	(0°-30°)	133.5	2.7	B1/500		
BM	(30°-60°)	144.7	2.9	B0/220		
BH	(60°-80°)	102.8	2.1	B0/110		G0/110
BVH	(80°-90°)	2.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1424.9	1422.6	1413.2	1411.3	1400.8	1379.7	1355.3	1345.5	1325.6	1294.0	1259.0
5°	1448.6	1449.7	1450.4	1446.3	1444.8	1427.5	1400.4	1388.8	1362.1	1310.2	1246.2
7.5°	1359.8	1362.8	1372.2	1376.4	1394.4	1401.2	1395.5	1388.0	1366.9	1305.7	1215.8
10°	1266.2	1271.8	1282.0	1288.7	1310.9	1329.0	1351.9	1353.8	1349.3	1290.6	1181.6
12.5°	1185.7	1191.0	1202.2	1215.8	1238.3	1261.7	1295.9	1307.9	1323.0	1280.8	1157.1
15°	1116.5	1118.0	1128.9	1145.8	1175.5	1207.5	1248.1	1265.8	1295.1	1277.1	1138.3
17.5°	1056.0	1056.3	1063.5	1078.9	1115.0	1157.1	1204.5	1227.8	1265.0	1271.8	1121.8
20°	1016.1	1015.7	1016.1	1024.4	1056.3	1106.3	1163.9	1188.3	1236.1	1265.4	1104.8
22.5°	1002.6	1000.7	992.0	989.0	1009.3	1053.3	1122.1	1154.1	1210.1	1263.5	1092.4
25°	1019.1	1018.0	999.5	982.2	984.1	1011.6	1079.6	1118.8	1189.8	1270.3	1089.4
27.5°	1072.5	1070.2	1042.0	1008.2	986.8	991.6	1048.1	1089.0	1173.7	1286.9	1093.6
30°	1142.4	1142.8	1112.7	1071.7	1021.4	993.5	1031.1	1069.9	1162.8	1311.7	1102.6
32.5°	1220.3	1219.9	1198.5	1151.1	1086.8	1028.1	1038.7	1071.4	1164.3	1348.1	1119.9
35°	1300.8	1296.6	1289.5	1247.7	1172.5	1088.7	1072.9	1096.9	1180.1	1396.3	1149.2
37.5°	1393.6	1392.1	1399.3	1355.3	1278.6	1177.8	1133.0	1149.2	1219.9	1467.4	1196.6
40°	1541.4	1533.2	1536.5	1476.8	1398.2	1297.8	1217.3	1221.4	1283.5	1561.4	1271.4
42.5°	1823.1	1789.6	1726.8	1614.8	1529.8	1430.9	1327.5	1320.3	1373.3	1675.3	1370.0
45°	2159.7	2121.3	1963.0	1767.1	1661.4	1573.8	1463.6	1444.4	1483.9	1811.1	1497.1
47.5°	2440.6	2399.2	2189.4	1926.1	1795.3	1721.2	1614.4	1591.8	1616.3	1968.6	1649.7
50°	2536.5	2513.5	2329.3	2058.5	1930.3	1886.7	1803.5	1765.9	1772.0	2138.6	1828.0
52.5°	2492.5	2484.6	2361.2	2149.1	2055.1	2069.4	2010.8	1971.3	1964.5	2324.4	2025.0
55°	2399.6	2395.8	2335.7	2199.5	2165.3	2236.8	2301.4	2267.2	2203.3	2521.8	2187.9
57.5°	2266.8	2281.1	2324.4	2296.6	2300.7	2413.5	2571.4	2589.1	2493.6	2679.0	2308.6
60°	1912.2	1950.6	2148.8	2400.7	2593.6	2707.6	2860.6	2893.7	2739.5	2786.5	2448.1
62.5°	1413.6	1468.5	1750.9	2213.8	2755.0	3266.8	3245.3	3230.7	2974.2	2930.6	2701.9
65°	830.3	894.6	1133.4	1729.8	2511.7	3626.3	3963.6	3760.5	3331.8	3229.9	3106.2
67.5°	413.7	414.0	522.0	913.1	1856.2	3375.4	5012.0	4894.7	4092.2	3671.0	3265.6
70°	318.1	326.8	386.2	530.6	938.6	2629.0	5252.3	5734.0	4856.3	3651.5	2770.8
72.5°	269.6	275.3	343.7	461.8	701.7	1443.3	4546.8	5068.4	4634.1	3085.1	2042.3
75°	194.0	198.6	304.2	418.9	646.1	716.0	3119.0	3759.0	3477.0	2170.2	1124.0
77.5°	48.1	47.8	106.0	340.0	578.0	596.4	1789.6	2410.5	1995.0	888.6	288.8
80°	21.4	20.7	24.1	71.4	537.8	563.0	787.1	1217.3	765.3	144.0	88.4
82.5°	15.0	14.3	15.0	26.3	179.8	522.3	475.7	527.6	280.2	49.3	37.6
85°	4.9	4.5	8.3	22.2	50.4	301.2	464.0	394.1	208.3	21.1	25.2
87.5°	0.8	0.8	3.0	12.0	14.7	100.4	272.3	273.0	93.6	12.4	11.3
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°	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5	1260.5
2.5°	1241.3	1219.2	1187.9	1156.7	1128.5	1099.6	1076.3	1065.4	1060.5	1053.7	1039.0
5°	1212.8	1172.5	1104.1	1036.8	974.0	913.8	862.3	833.0	801.4	799.9	784.4
7.5°	1166.9	1109.7	1001.8	897.3	801.4	709.6	630.6	579.5	544.5	522.7	507.7
10°	1115.7	1042.4	899.5	752.5	622.0	499.4	397.9	331.7	291.4	271.1	259.5
12.5°	1075.1	983.0	798.7	613.7	450.1	309.5	215.1	167.0	145.5	137.3	133.5
15°	1040.2	928.5	704.3	489.6	300.5	177.9	124.5	108.7	105.3	105.3	104.9
17.5°	1004.8	875.8	612.6	367.8	189.2	116.6	98.1	95.9	96.3	97.4	97.4
20°	971.3	825.8	524.2	262.1	124.1	93.3	89.1	88.4	89.5	91.0	90.6
22.5°	944.3	781.8	441.5	180.1	95.5	84.6	82.0	80.9	81.6	82.7	82.4
25°	925.1	744.2	365.5	125.6	83.1	77.1	74.1	72.6	71.8	72.6	72.2
27.5°	913.4	712.6	294.1	94.4	74.5	69.6	65.8	62.8	60.9	60.9	60.2
30°	905.9	682.9	230.5	78.2	67.3	62.0	56.8	52.6	49.6	48.9	48.5
32.5°	905.5	657.3	172.2	69.2	60.5	54.5	48.1	42.9	39.5	38.7	38.4
35°	914.9	636.7	126.7	62.4	54.5	47.4	40.2	34.6	31.6	31.6	31.2
37.5°	939.4	624.6	95.9	57.2	49.6	41.4	33.8	28.6	25.9	26.7	26.7
40°	984.9	622.4	78.2	53.0	45.5	36.1	27.5	23.3	22.2	23.3	23.3
42.5°	1054.5	634.4	69.6	50.0	41.7	30.8	22.9	19.9	19.6	20.7	20.7
45°	1145.1	658.1	64.7	47.4	37.6	25.6	19.2	17.3	16.9	18.4	18.4
47.5°	1254.9	690.1	60.2	44.4	33.5	21.1	16.2	14.7	14.7	16.2	16.5
50°	1385.0	733.3	55.7	41.4	30.1	17.7	13.5	12.4	12.8	14.3	14.7
52.5°	1534.7	786.3	51.5	38.7	26.3	14.3	11.3	10.5	10.9	12.4	12.8
55°	1663.7	832.6	46.6	36.1	21.4	11.7	9.4	9.0	9.4	11.3	11.3
57.5°	1776.1	877.0	42.1	32.0	16.9	9.4	7.5	7.5	8.3	10.2	10.5
60°	1925.4	946.9	38.4	27.1	12.8	7.1	6.0	6.4	7.5	9.0	9.4
62.5°	2189.8	1065.7	33.5	22.6	9.4	5.6	4.9	5.3	6.8	8.6	9.0
65°	2520.7	1178.2	27.8	18.8	7.1	4.1	3.8	4.9	6.8	8.6	9.0
67.5°	2486.8	1024.7	21.8	15.0	5.3	3.4	3.0	4.5	6.4	8.6	9.0
70°	2016.8	718.3	16.2	10.2	4.1	3.0	3.0	4.5	6.4	8.3	8.6
72.5°	1398.9	399.7	12.4	6.8	3.8	3.0	2.6	4.1	6.0	8.3	8.6
75°	665.6	122.6	9.8	4.9	3.4	2.6	2.3	4.1	6.0	8.3	8.6
77.5°	127.9	31.2	7.9	4.1	3.0	2.6	2.3	3.8	6.0	7.9	8.3
80°	43.2	13.9	6.4	3.8	3.0	2.6	2.3	3.8	5.6	7.5	7.9
82.5°	23.7	7.9	5.6	3.4	3.0	2.3	1.9	3.4	5.3	7.5	7.9
85°	18.4	5.6	4.5	3.4	3.0	2.3	1.9	3.4	5.3	7.1	7.5
87.5°	9.4	4.1	3.8	3.4	3.0	2.3	1.9	3.0	4.9	6.8	7.5
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)