

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: P198872

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198872
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-SL3-7050-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 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: 5632 lumens
Efficiency: N/A
Efficacy: 85.3 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

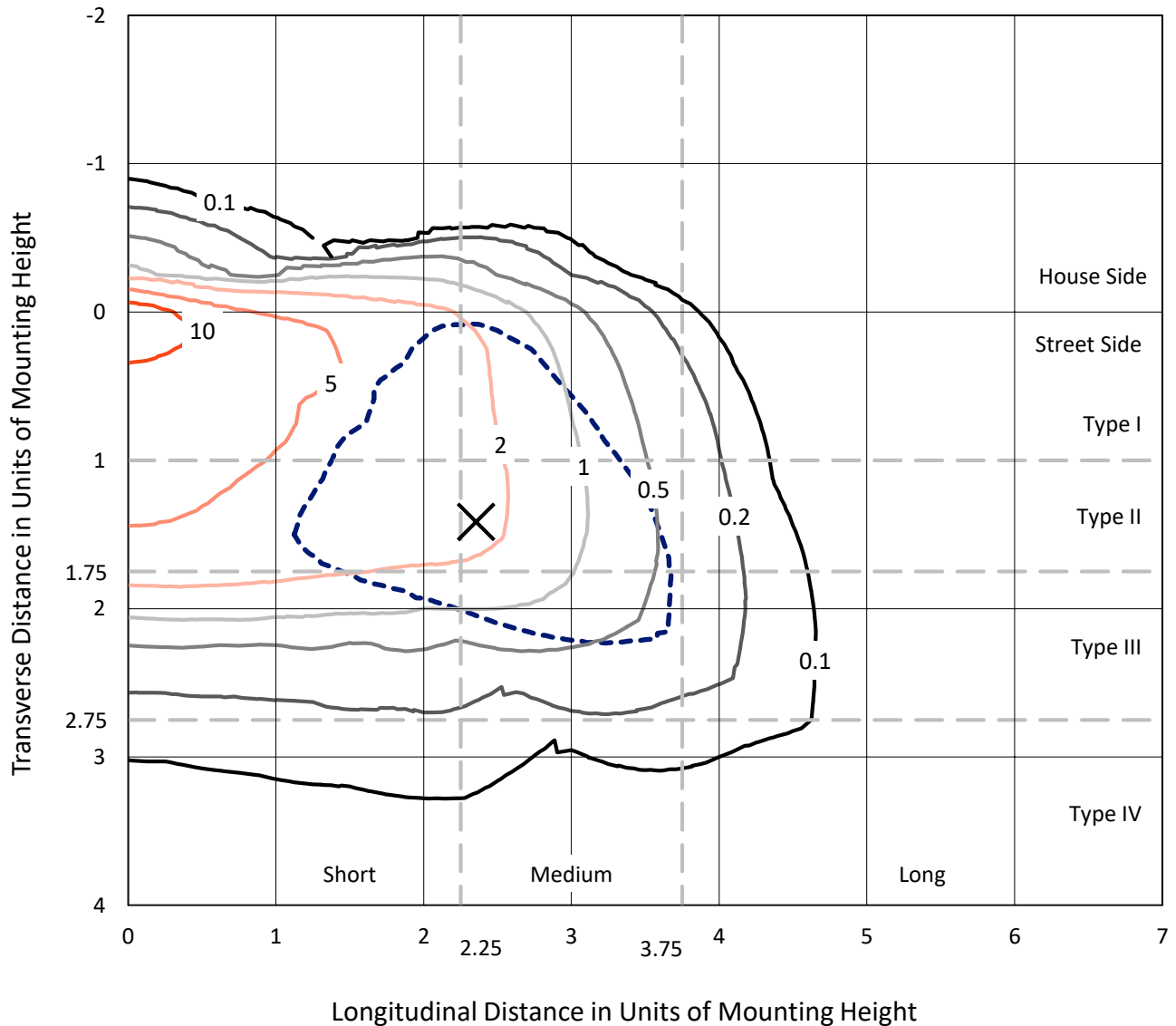


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

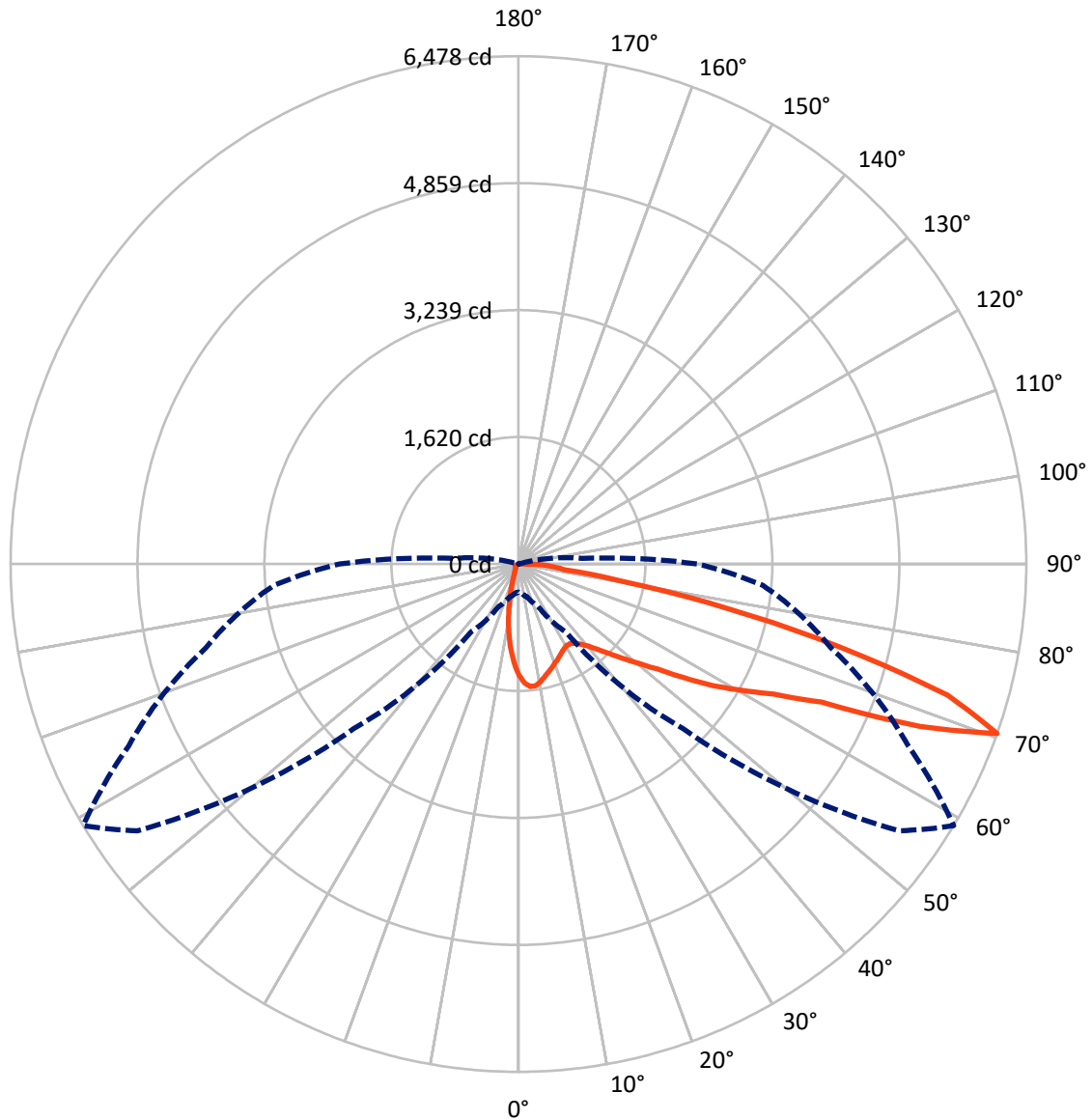


Based on 10 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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



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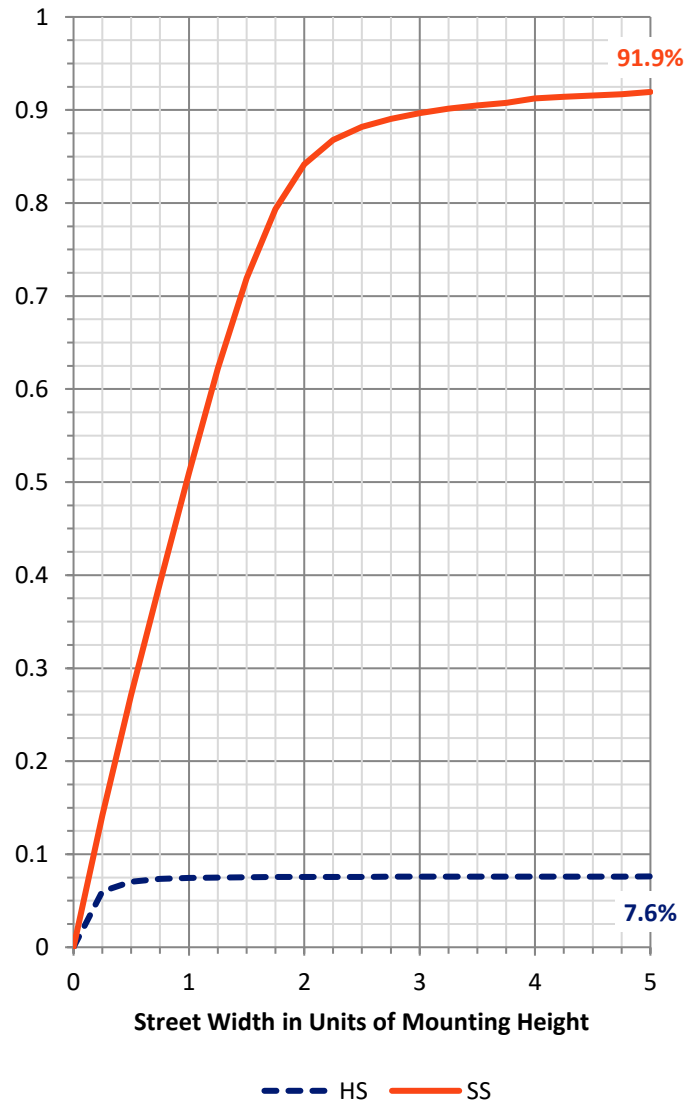
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	432.9	0.0	432.9
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	5199.0	0.0	5199.0
	% Fixture	92.3	0.0	92.3
Total	Lumens	5632.0	0.0	5632.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.1	2.1
10°-20°	245.6	4.4
20°-30°	332.5	5.9
30°-40°	479.8	8.5
40°-50°	796.9	14.1
50°-60°	1218.9	21.6
60°-70°	1516.1	26.9
70°-80°	838.1	14.9
80°-90°	86.9	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°	5632.0	100.0
0°-180°	5632.0	100.0



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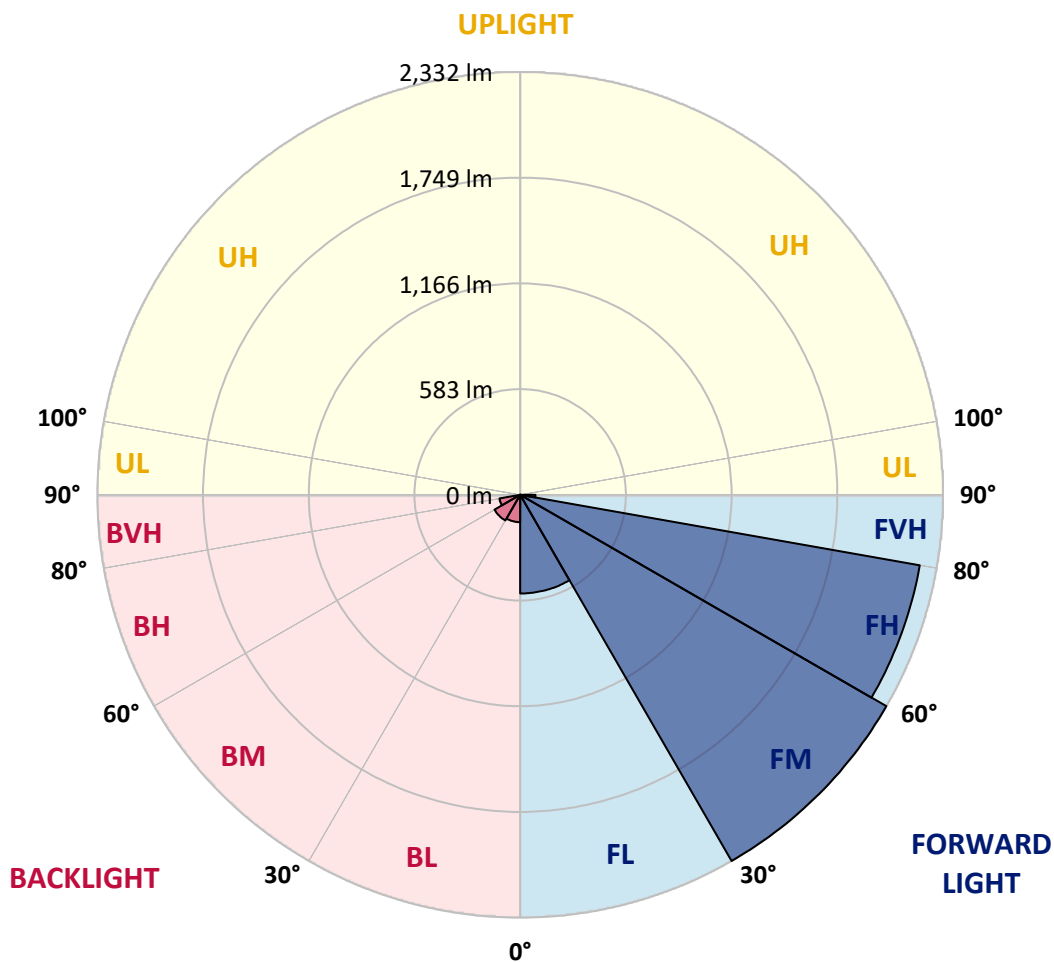
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.4	9.7			
FM	(30°-60°)	2332.3	41.4			
FH	(60°-80°)	2238.0	39.7			G2/5000
FVH	(80°-90°)	84.4	1.5			G1/100
BL	(0°-30°)	150.9	2.7	B1/500		
BM	(30°-60°)	163.4	2.9	B0/220		
BH	(60°-80°)	116.1	2.1	B1/500		G1/500
BVH	(80°-90°)	2.5	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°	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1
2.5°	1609.8	1607.2	1596.6	1594.5	1582.6	1558.8	1531.2	1520.1	1497.6	1461.9	1422.4
5°	1636.6	1637.8	1638.7	1634.0	1632.3	1612.8	1582.2	1569.0	1538.8	1480.2	1408.0
7.5°	1536.3	1539.7	1550.3	1555.0	1575.4	1583.0	1576.7	1568.2	1544.4	1475.1	1373.6
10°	1430.5	1436.9	1448.3	1456.0	1481.1	1501.5	1527.4	1529.5	1524.4	1458.1	1334.9
12.5°	1339.6	1345.5	1358.3	1373.6	1399.1	1425.4	1464.1	1477.7	1494.7	1447.1	1307.3
15°	1261.4	1263.1	1275.4	1294.5	1328.1	1364.2	1410.1	1430.1	1463.2	1442.8	1286.1
17.5°	1193.0	1193.4	1201.5	1218.9	1259.7	1307.3	1360.8	1387.2	1429.2	1436.9	1267.4
20°	1148.0	1147.5	1148.0	1157.3	1193.4	1249.9	1314.9	1342.6	1396.5	1429.7	1248.2
22.5°	1132.7	1130.6	1120.8	1117.4	1140.3	1190.0	1267.8	1303.9	1367.2	1427.5	1234.2
25°	1151.4	1150.1	1129.3	1109.7	1111.9	1142.9	1219.8	1264.0	1344.3	1435.2	1230.8
27.5°	1211.7	1209.2	1177.3	1139.0	1114.8	1120.4	1184.1	1230.4	1326.0	1453.9	1235.5
30°	1290.7	1291.1	1257.2	1210.9	1153.9	1122.5	1165.0	1208.7	1313.7	1481.9	1245.7
32.5°	1378.7	1378.2	1354.0	1300.5	1227.8	1161.6	1173.5	1210.4	1315.4	1523.1	1265.2
35°	1469.6	1464.9	1456.8	1409.7	1324.7	1230.0	1212.1	1239.3	1333.2	1577.5	1298.4
37.5°	1574.5	1572.8	1580.9	1531.2	1444.5	1330.7	1280.1	1298.4	1378.2	1657.8	1351.9
40°	1741.5	1732.2	1736.0	1668.4	1579.6	1466.2	1375.3	1379.9	1450.0	1764.0	1436.5
42.5°	2059.7	2021.9	1951.0	1824.3	1728.3	1616.6	1499.8	1491.7	1551.6	1892.8	1547.8
45°	2440.0	2396.6	2217.8	1996.4	1877.0	1778.0	1653.6	1631.9	1676.5	2046.1	1691.4
47.5°	2757.3	2710.6	2473.5	2176.1	2028.3	1944.6	1823.9	1798.4	1826.0	2224.1	1863.9
50°	2865.7	2839.8	2631.6	2325.7	2180.8	2131.5	2037.6	1995.1	2001.9	2416.2	2065.2
52.5°	2816.0	2807.0	2667.7	2428.1	2321.9	2338.0	2271.7	2227.1	2219.5	2626.1	2287.9
55°	2711.0	2706.8	2638.8	2485.0	2446.3	2527.1	2600.1	2561.5	2489.3	2849.1	2471.8
57.5°	2561.1	2577.2	2626.1	2594.6	2599.3	2726.8	2905.2	2925.2	2817.2	3026.7	2608.2
60°	2160.4	2203.7	2427.6	2712.3	2930.3	3059.0	3231.9	3269.3	3095.1	3148.2	2765.8
62.5°	1597.0	1659.1	1978.1	2501.1	3112.5	3690.8	3666.5	3650.0	3360.2	3310.9	3052.6
65°	938.1	1010.7	1280.5	1954.4	2837.6	4096.9	4478.0	4248.6	3764.3	3649.1	3509.3
67.5°	467.3	467.8	589.7	1031.6	2097.1	3813.5	5662.5	5530.0	4623.3	4147.5	3689.5
70°	359.4	369.2	436.3	599.5	1060.5	2970.2	5934.0	6478.3	5486.6	4125.4	3130.4
72.5°	304.6	311.0	388.3	521.7	792.8	1630.6	5137.0	5726.3	5235.5	3485.6	2307.4
75°	219.2	224.3	343.7	473.3	729.9	808.9	3523.8	4246.9	3928.3	2451.9	1269.9
77.5°	54.4	54.0	119.8	384.1	653.0	673.8	2021.9	2723.4	2253.9	1003.9	326.3
80°	24.2	23.4	27.2	80.7	607.5	636.0	889.2	1375.3	864.6	162.7	99.8
82.5°	17.0	16.1	17.0	29.7	203.1	590.1	537.4	596.1	316.5	55.7	42.5
85°	5.5	5.1	9.3	25.1	56.9	340.3	524.3	445.3	235.4	23.8	28.5
87.5°	0.8	0.8	3.4	13.6	16.6	113.4	307.6	308.4	105.8	14.0	12.7
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°	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1	1424.1
2.5°	1402.5	1377.4	1342.1	1306.9	1275.0	1242.3	1215.9	1203.6	1198.1	1190.5	1173.9
5°	1370.2	1324.7	1247.4	1171.3	1100.4	1032.4	974.2	941.1	905.4	903.7	886.3
7.5°	1318.3	1253.8	1131.8	1013.7	905.4	801.7	712.5	654.7	615.2	590.6	573.6
10°	1260.6	1177.7	1016.3	850.1	702.7	564.2	449.5	374.7	329.3	306.3	293.2
12.5°	1214.7	1110.6	902.4	693.4	508.6	349.7	243.0	188.6	164.4	155.1	150.8
15°	1175.2	1049.0	795.8	553.2	339.5	201.0	140.6	122.8	119.0	119.0	118.5
17.5°	1135.2	989.5	692.1	415.5	213.7	131.7	110.9	108.3	108.8	110.0	110.0
20°	1097.4	933.0	592.3	296.1	140.2	105.4	100.7	99.8	101.1	102.8	102.4
22.5°	1066.8	883.3	498.8	203.5	107.9	95.6	92.6	91.3	92.2	93.5	93.0
25°	1045.2	840.8	413.0	141.9	93.9	87.1	83.7	82.0	81.1	82.0	81.6
27.5°	1032.0	805.1	332.2	106.6	84.1	78.6	74.4	71.0	68.8	68.8	68.0
30°	1023.5	771.5	260.4	88.4	76.0	70.1	64.2	59.5	56.1	55.2	54.8
32.5°	1023.1	742.7	194.6	78.2	68.4	61.6	54.4	48.4	44.6	43.8	43.3
35°	1033.7	719.3	143.2	70.5	61.6	53.5	45.5	39.1	35.7	35.7	35.3
37.5°	1061.3	705.7	108.3	64.6	56.1	46.7	38.2	32.3	29.3	30.2	30.2
40°	1112.7	703.1	88.4	59.9	51.4	40.8	31.0	26.3	25.1	26.3	26.3
42.5°	1191.3	716.7	78.6	56.5	47.2	34.8	25.9	22.5	22.1	23.4	23.4
45°	1293.7	743.5	73.1	53.5	42.5	28.9	21.7	19.5	19.1	20.8	20.8
47.5°	1417.8	779.6	68.0	50.1	37.8	23.8	18.3	16.6	16.6	18.3	18.7
50°	1564.8	828.5	62.9	46.7	34.0	20.0	15.3	14.0	14.4	16.1	16.6
52.5°	1733.9	888.4	58.2	43.8	29.7	16.1	12.7	11.9	12.3	14.0	14.4
55°	1879.6	940.6	52.7	40.8	24.2	13.2	10.6	10.2	10.6	12.7	12.7
57.5°	2006.6	990.8	47.6	36.1	19.1	10.6	8.5	8.5	9.3	11.5	11.9
60°	2175.3	1069.8	43.3	30.6	14.4	8.1	6.8	7.2	8.5	10.2	10.6
62.5°	2474.0	1204.1	37.8	25.5	10.6	6.4	5.5	5.9	7.6	9.8	10.2
65°	2847.8	1331.1	31.4	21.2	8.1	4.7	4.2	5.5	7.6	9.8	10.2
67.5°	2809.6	1157.7	24.6	17.0	5.9	3.8	3.4	5.1	7.2	9.8	10.2
70°	2278.5	811.5	18.3	11.5	4.7	3.4	3.4	5.1	7.2	9.3	9.8
72.5°	1580.5	451.6	14.0	7.6	4.2	3.4	3.0	4.7	6.8	9.3	9.8
75°	752.0	138.5	11.0	5.5	3.8	3.0	2.5	4.7	6.8	9.3	9.8
77.5°	144.5	35.3	8.9	4.7	3.4	3.0	2.5	4.2	6.8	8.9	9.3
80°	48.9	15.7	7.2	4.2	3.4	3.0	2.5	4.2	6.4	8.5	8.9
82.5°	26.8	8.9	6.4	3.8	3.4	2.5	2.1	3.8	5.9	8.5	8.9
85°	20.8	6.4	5.1	3.8	3.4	2.5	2.1	3.8	5.9	8.1	8.5
87.5°	10.6	4.7	4.2	3.8	3.4	2.5	2.1	3.4	5.5	7.6	8.5
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)