

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: P198699

Luminaire Tested: **XNV2-AF-02-LED-U-SL2-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24257)  
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-SL2-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7967.8 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

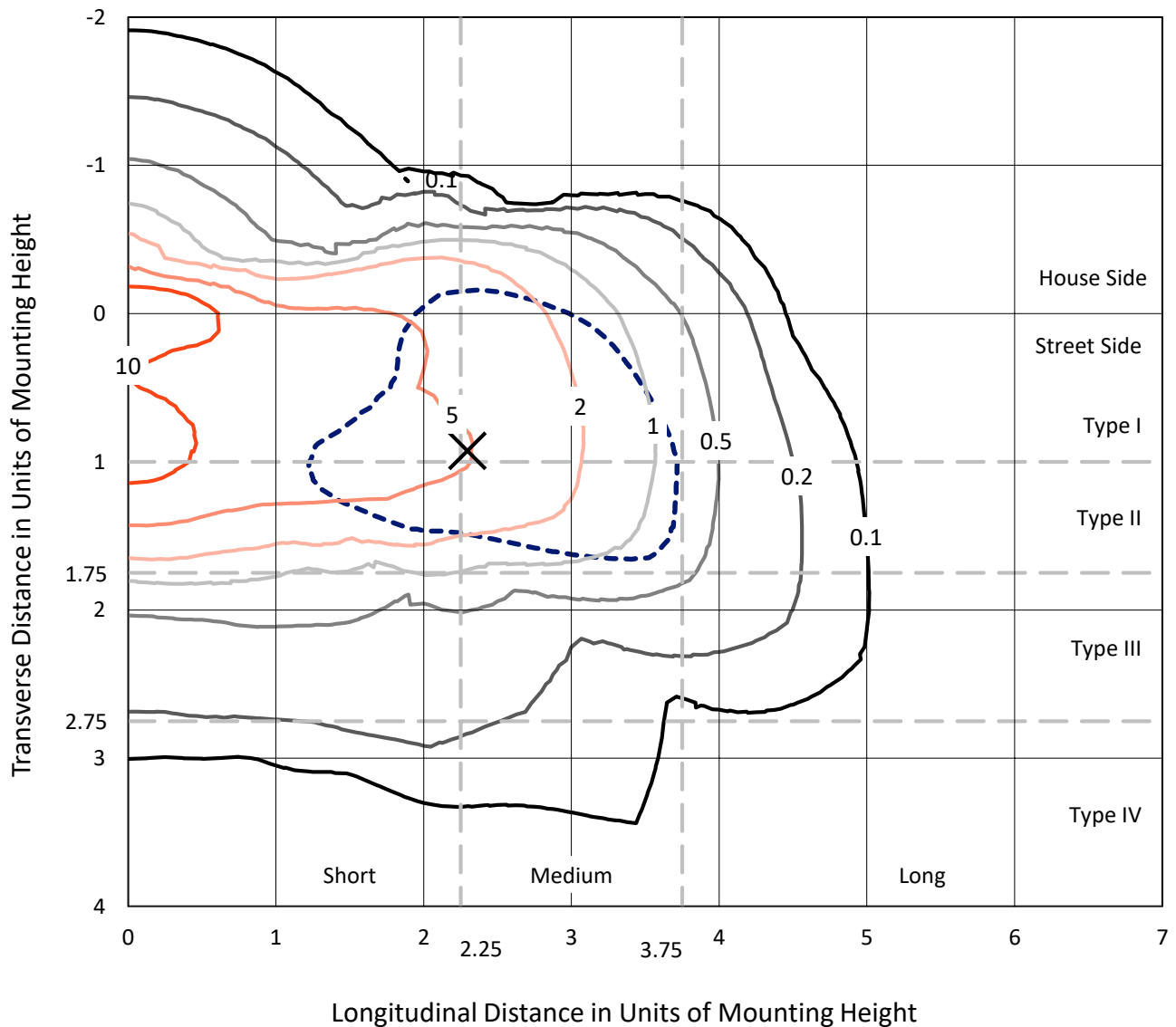
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

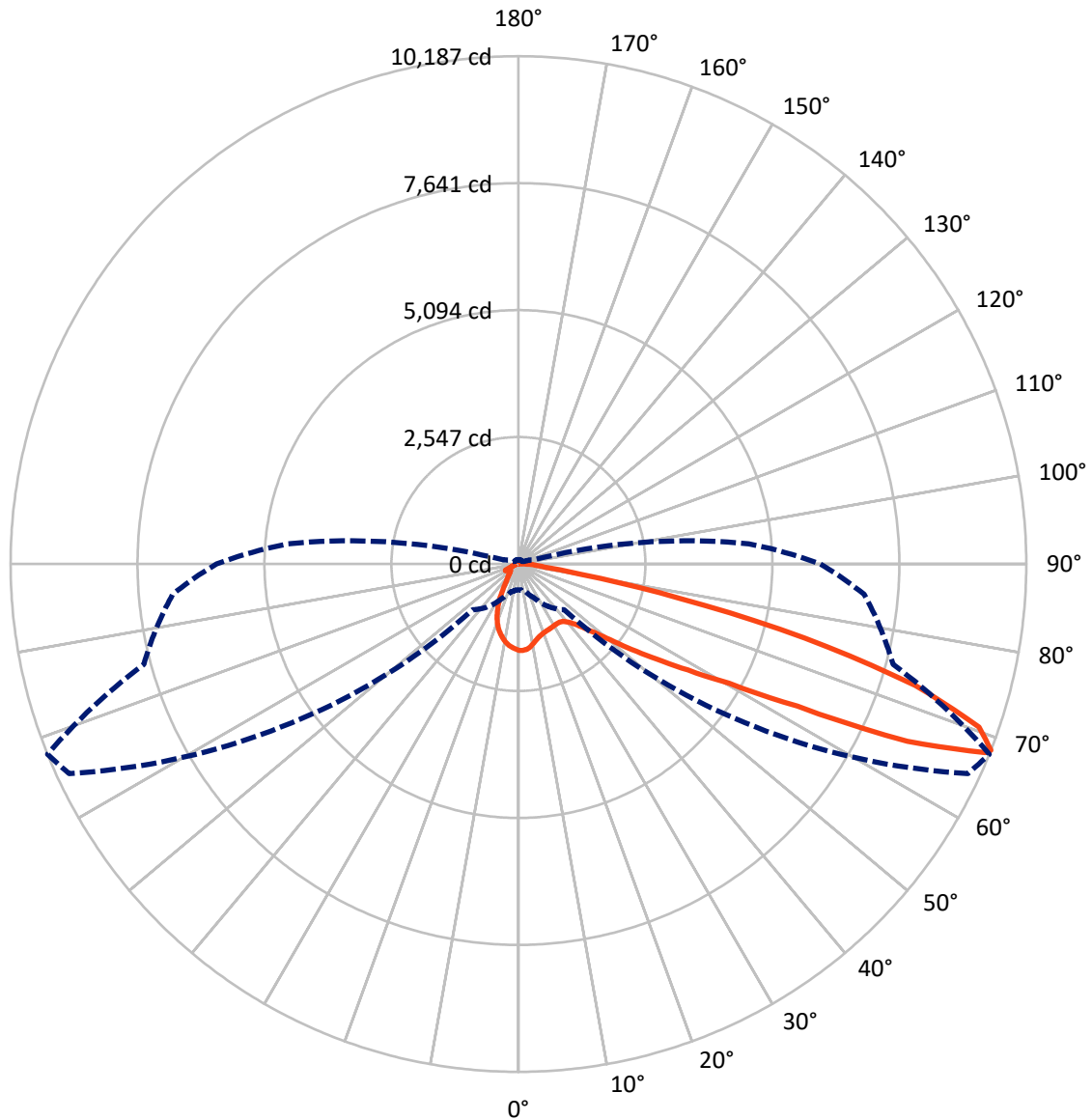


Based on 10 foot mounting height. Maximum calculated value = 17.3 fc  
 Type II - Medium - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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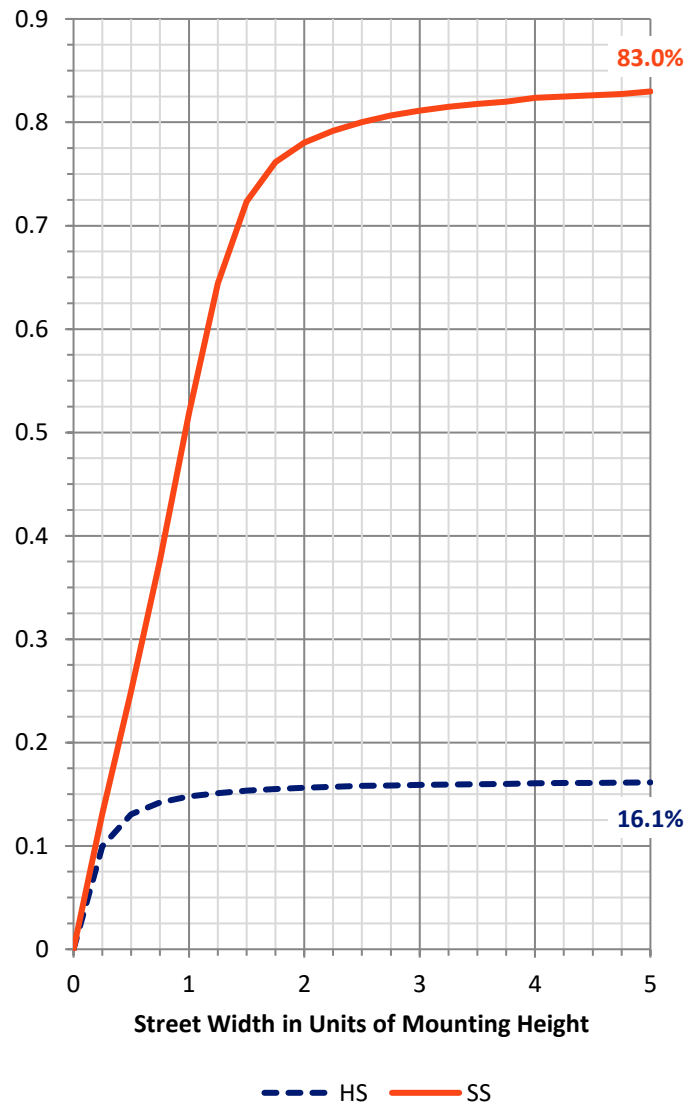
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1303.5	0.0	1303.5
	% Fixture	16.4	0.0	16.4
<b>Street Side</b>	Lumens	6664.2	0.0	6664.2
	% Fixture	83.6	0.0	83.6
<b>Total</b>	Lumens	7967.8	0.0	7967.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.5	1.9
10°-20°	344.5	4.3
20°-30°	466.0	5.8
30°-40°	657.0	8.2
40°-50°	1080.4	13.6
50°-60°	1674.7	21.0
60°-70°	2171.3	27.3
70°-80°	1246.0	15.6
80°-90°	179.3	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°	7967.8	100.0
0°-180°	7967.8	100.0



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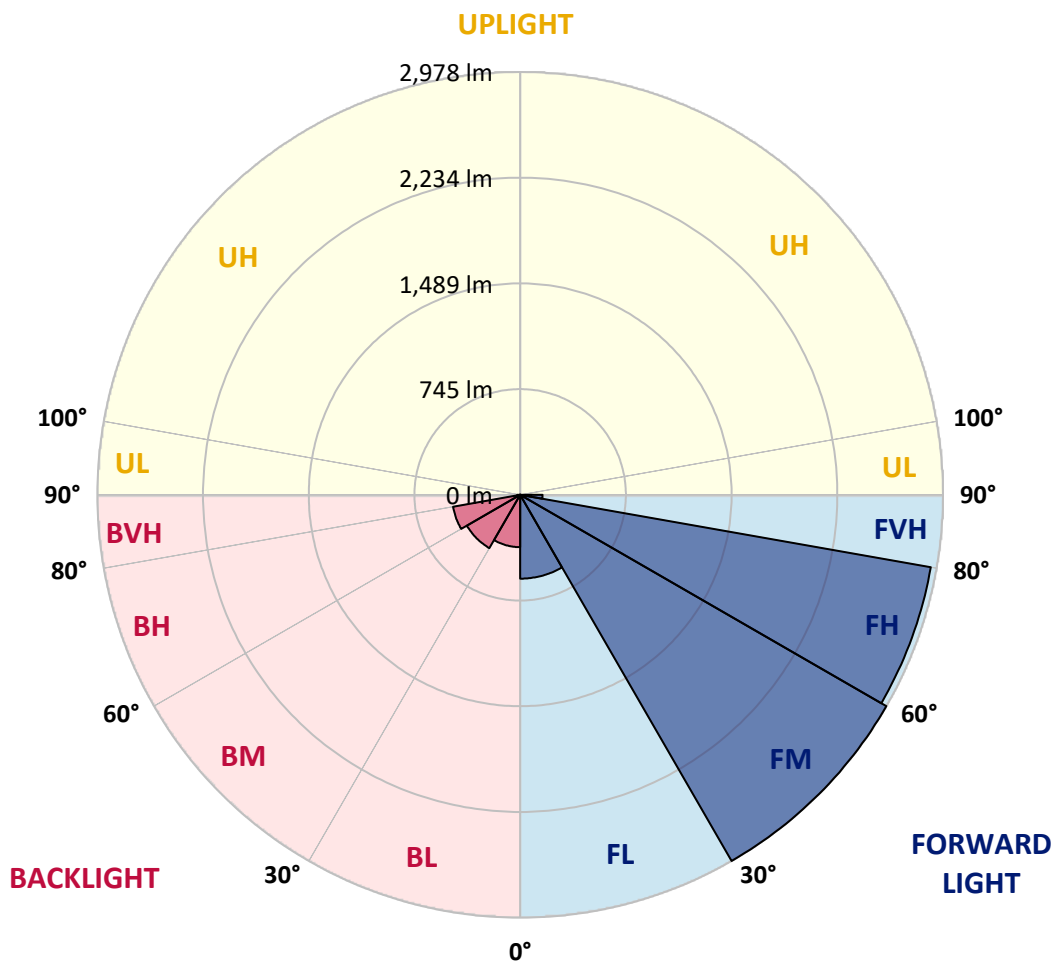
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	590.5	7.4			
FM	(30°-60°)	2978.5	37.4			
FH	(60°-80°)	2937.3	36.9			G2/5000
FVH	(80°-90°)	157.9	2.0			G2/225
BL	(0°-30°)	368.5	4.6	B1/500		
BM	(30°-60°)	433.6	5.4	B1/1000		
BH	(60°-80°)	480.1	6.0	B1/500		G1/500
BVH	(80°-90°)	21.4	0.3			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7
2.5°	1687.4	1701.0	1701.0	1710.8	1719.7	1726.9	1733.2	1733.2	1733.2	1729.0	1725.4
5°	1509.9	1528.1	1530.7	1555.7	1588.5	1628.5	1673.3	1712.9	1720.7	1735.2	1741.0
7.5°	1386.5	1392.2	1402.2	1419.3	1452.7	1502.1	1572.4	1660.9	1682.1	1728.0	1751.9
10°	1299.1	1303.8	1312.1	1329.3	1359.5	1404.2	1473.5	1588.5	1623.9	1705.1	1752.4
12.5°	1235.1	1238.7	1246.6	1262.1	1292.9	1332.9	1403.7	1523.5	1567.2	1682.1	1759.8
15°	1185.1	1191.3	1197.7	1212.7	1243.9	1282.5	1354.3	1476.1	1523.5	1663.9	1773.3
17.5°	1165.3	1168.5	1169.5	1177.3	1205.4	1244.4	1316.3	1442.8	1491.7	1649.4	1783.7
20°	1177.8	1178.3	1167.9	1162.8	1178.8	1214.8	1284.5	1417.8	1467.7	1636.4	1787.8
22.5°	1232.5	1232.5	1205.4	1182.5	1171.6	1194.0	1263.2	1400.6	1454.7	1626.5	1787.8
25°	1336.6	1331.9	1289.7	1244.4	1196.0	1186.7	1249.6	1389.7	1444.8	1621.3	1781.1
27.5°	1473.5	1469.3	1415.7	1348.6	1261.1	1202.3	1245.0	1380.8	1435.0	1613.5	1766.5
30°	1640.0	1636.4	1575.4	1487.6	1358.5	1251.8	1255.9	1374.5	1427.1	1600.5	1742.1
32.5°	1806.0	1804.0	1755.6	1665.6	1492.7	1335.6	1284.5	1373.5	1423.0	1584.9	1712.4
35°	1973.2	1973.2	1943.5	1867.5	1673.3	1461.5	1344.4	1392.8	1430.8	1576.6	1686.8
37.5°	2219.8	2210.0	2154.7	2076.2	1900.7	1625.0	1441.2	1433.4	1461.0	1590.6	1678.6
40°	2601.9	2573.2	2435.3	2303.1	2149.0	1834.2	1582.8	1512.0	1528.6	1638.5	1698.3
42.5°	3001.6	2956.3	2773.6	2562.3	2405.7	2092.3	1768.6	1639.5	1639.0	1731.1	1761.3
45°	3344.6	3321.2	3123.4	2855.4	2698.6	2382.8	2003.3	1828.9	1810.2	1874.8	1882.5
47.5°	3543.9	3528.4	3409.1	3165.5	3046.3	2725.8	2301.0	2091.8	2056.4	2094.9	2082.9
50°	3488.8	3503.8	3469.5	3345.2	3420.0	3207.7	2680.4	2452.0	2384.8	2423.4	2394.2
52.5°	3198.4	3239.0	3269.7	3293.6	3635.1	3852.5	3157.2	2901.7	2846.0	2839.2	2811.1
55°	2675.2	2739.8	2836.6	3012.5	3577.3	4370.5	3990.0	3445.6	3364.4	3321.7	3332.7
57.5°	1820.6	1918.4	2127.2	2461.8	3276.9	4591.1	5221.4	4148.2	4010.8	3858.9	3894.3
60°	1003.0	1084.6	1332.9	1670.2	2591.4	4558.4	6312.9	5290.2	4857.6	4454.7	4527.7
62.5°	649.1	666.8	851.5	1140.9	1590.6	4024.4	6919.2	7198.7	6282.1	5240.7	5343.3
65°	521.5	534.0	624.6	920.2	1108.1	2588.9	6946.3	9178.6	8574.4	6308.7	6311.8
67.5°	509.5	515.3	567.8	774.0	1039.4	1409.4	6004.2	9959.3	10099.4	7569.3	6959.9
68°	516.8	523.6	576.7	750.0	1038.9	1299.1	5549.3	9947.4	10187.4	7780.2	6959.9
70°	455.9	464.3	588.1	776.0	994.6	1117.0	3800.1	9419.1	9805.3	8264.7	6603.9
72.5°	238.3	231.6	290.9	612.6	1119.5	1163.8	2007.4	7869.2	8319.9	7654.1	5705.5
75°	185.8	169.2	163.0	242.0	984.8	1207.0	1165.9	5593.1	5933.4	5517.6	3813.6
77.5°	174.9	154.6	142.6	143.1	433.5	1255.9	943.1	3291.5	3291.5	2632.1	1216.9
80°	140.6	121.8	114.0	130.1	209.2	1157.6	984.2	1500.1	1279.3	680.3	335.2
82.5°	92.7	82.8	83.3	105.7	158.8	772.9	1139.9	740.6	556.4	301.4	197.2
85°	58.8	50.5	56.3	73.9	118.7	344.5	1128.4	514.7	368.5	169.2	98.4
87.5°	29.7	22.9	28.1	38.6	72.3	98.9	929.0	459.6	273.2	70.3	53.6
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°	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7	1733.7
2.5°	1725.4	1714.0	1708.2	1698.8	1687.4	1675.9	1668.1	1664.4	1662.4	1663.4	1662.9
5°	1737.9	1722.8	1698.3	1663.4	1627.5	1589.6	1560.4	1538.0	1524.0	1519.8	1518.8
7.5°	1747.2	1725.4	1679.6	1616.1	1554.7	1488.1	1431.3	1386.0	1355.3	1341.3	1340.8
10°	1745.7	1717.5	1645.2	1551.5	1461.5	1363.7	1274.7	1198.7	1143.5	1117.0	1115.9
12.5°	1747.2	1708.7	1603.1	1476.1	1347.0	1207.0	1074.8	956.7	874.4	835.3	833.8
15°	1753.5	1699.3	1559.9	1391.7	1213.2	1015.5	826.5	678.2	603.2	577.8	577.8
17.5°	1752.9	1683.8	1509.9	1293.9	1054.5	789.6	564.2	472.6	465.3	488.8	492.3
20°	1742.6	1658.7	1445.3	1177.8	868.2	546.5	382.6	369.5	427.8	492.3	499.6
22.5°	1726.4	1626.5	1371.0	1043.0	651.1	356.0	295.1	314.9	394.0	474.1	485.6
25°	1704.0	1587.4	1285.5	886.4	433.0	256.0	246.2	270.7	326.3	379.9	388.3
27.5°	1671.3	1538.0	1192.5	716.7	276.4	210.8	214.4	231.6	255.5	278.4	283.2
30°	1630.2	1480.2	1090.9	528.8	209.7	188.4	194.7	205.1	215.4	230.1	233.1
32.5°	1588.5	1421.4	985.3	363.2	183.2	176.5	182.7	188.4	197.2	207.1	209.2
35°	1551.0	1366.8	876.5	253.5	171.8	168.7	171.8	175.4	184.2	194.2	195.2
37.5°	1524.0	1322.1	763.0	200.4	165.0	161.8	163.5	165.0	175.4	190.0	191.5
40°	1520.3	1292.4	648.0	180.0	159.8	155.6	154.6	155.6	169.2	185.8	187.4
42.5°	1555.7	1293.9	535.6	171.8	155.6	151.0	146.8	148.8	160.8	173.8	174.9
45°	1639.5	1330.3	438.2	168.1	152.0	148.3	142.1	143.1	148.8	155.6	156.6
47.5°	1787.3	1409.9	363.9	166.0	148.8	145.8	137.9	134.8	135.3	138.9	138.9
50°	2023.6	1543.2	318.5	164.0	146.3	140.6	131.7	125.4	123.9	125.9	126.4
52.5°	2376.0	1771.8	296.7	159.8	141.6	133.8	123.9	117.6	115.0	117.1	117.1
55°	2852.2	2136.5	286.2	154.1	135.8	125.4	116.6	111.4	109.3	110.9	110.9
57.5°	3395.1	2610.7	303.9	146.3	128.6	116.6	110.4	106.7	105.2	106.7	107.2
60°	4039.9	3231.1	425.8	136.4	120.7	108.7	105.2	103.0	102.0	103.6	103.6
62.5°	4897.2	4056.6	658.9	128.6	112.4	101.5	100.5	99.4	98.4	99.9	99.9
65°	5822.6	4807.7	678.2	123.9	105.2	95.2	95.7	95.7	94.7	96.3	96.3
67.5°	6117.1	4742.6	378.9	118.2	96.3	89.0	91.0	91.0	90.5	92.2	91.6
68°	6054.7	4639.6	330.0	116.6	94.7	87.5	89.5	90.0	89.5	91.0	90.5
70°	5589.4	4073.3	217.1	107.7	88.0	82.2	85.3	85.9	85.3	87.5	87.0
72.5°	4614.0	3055.2	160.3	94.2	79.6	75.5	78.6	79.1	79.6	81.7	81.2
75°	2930.3	1687.4	126.4	80.2	71.3	67.6	70.8	72.3	73.3	76.5	75.0
77.5°	802.6	512.2	102.5	68.2	61.4	59.8	61.9	64.0	65.1	68.7	66.1
80°	281.1	226.4	85.3	57.8	51.0	50.5	52.6	54.6	55.6	58.8	55.6
82.5°	170.7	147.8	68.2	45.3	40.1	39.6	42.1	44.2	45.3	45.3	43.2
85°	89.0	78.1	49.9	31.7	27.6	26.0	30.7	33.3	33.9	33.3	31.7
87.5°	49.9	44.2	26.5	15.1	12.5	13.0	16.2	19.7	21.4	20.9	19.7
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)