

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: P198731

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)  
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-SL4-600  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7752.9 lumens  
Efficiency: N/A  
Efficacy: 117.5 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 - G3

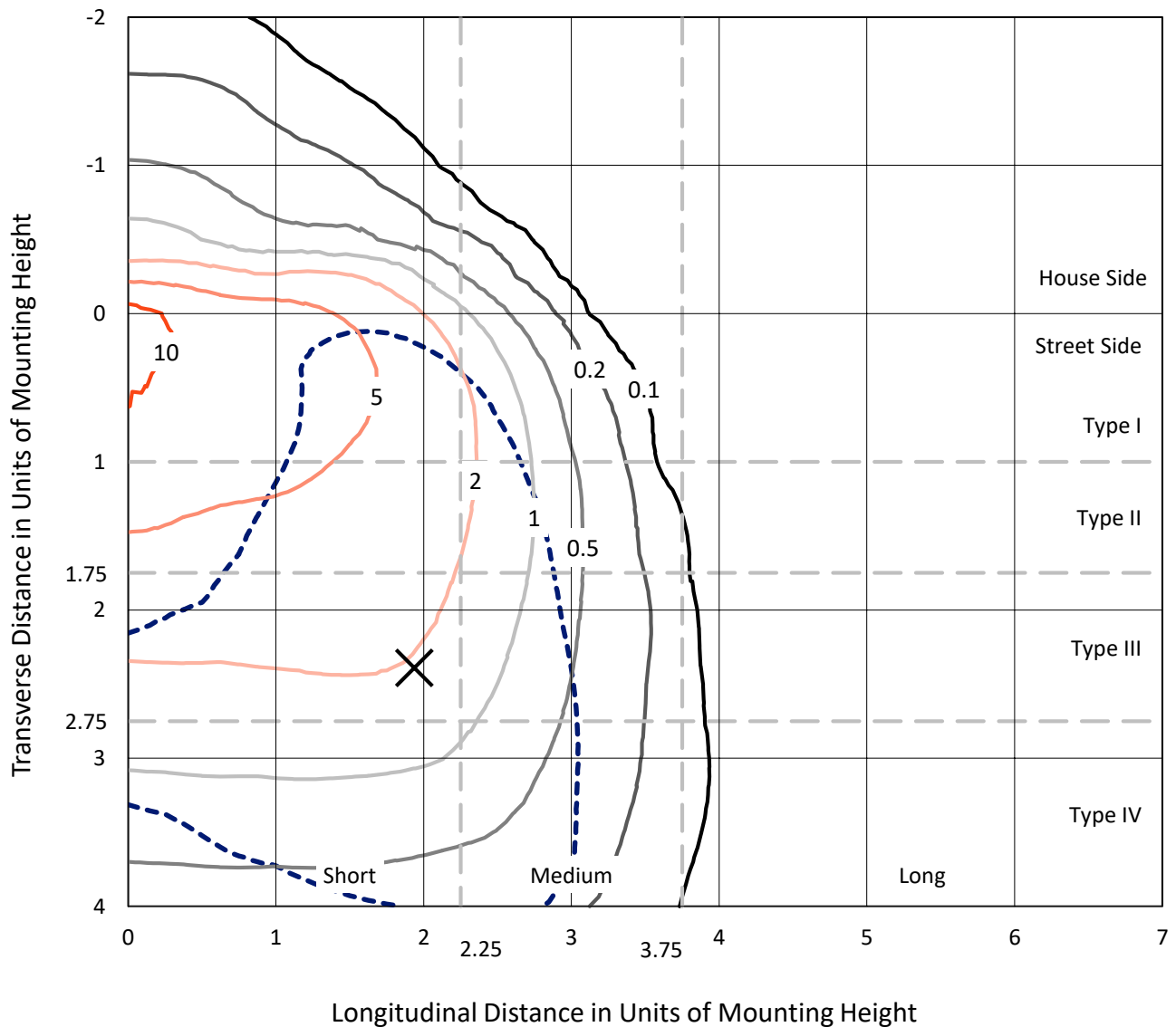
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

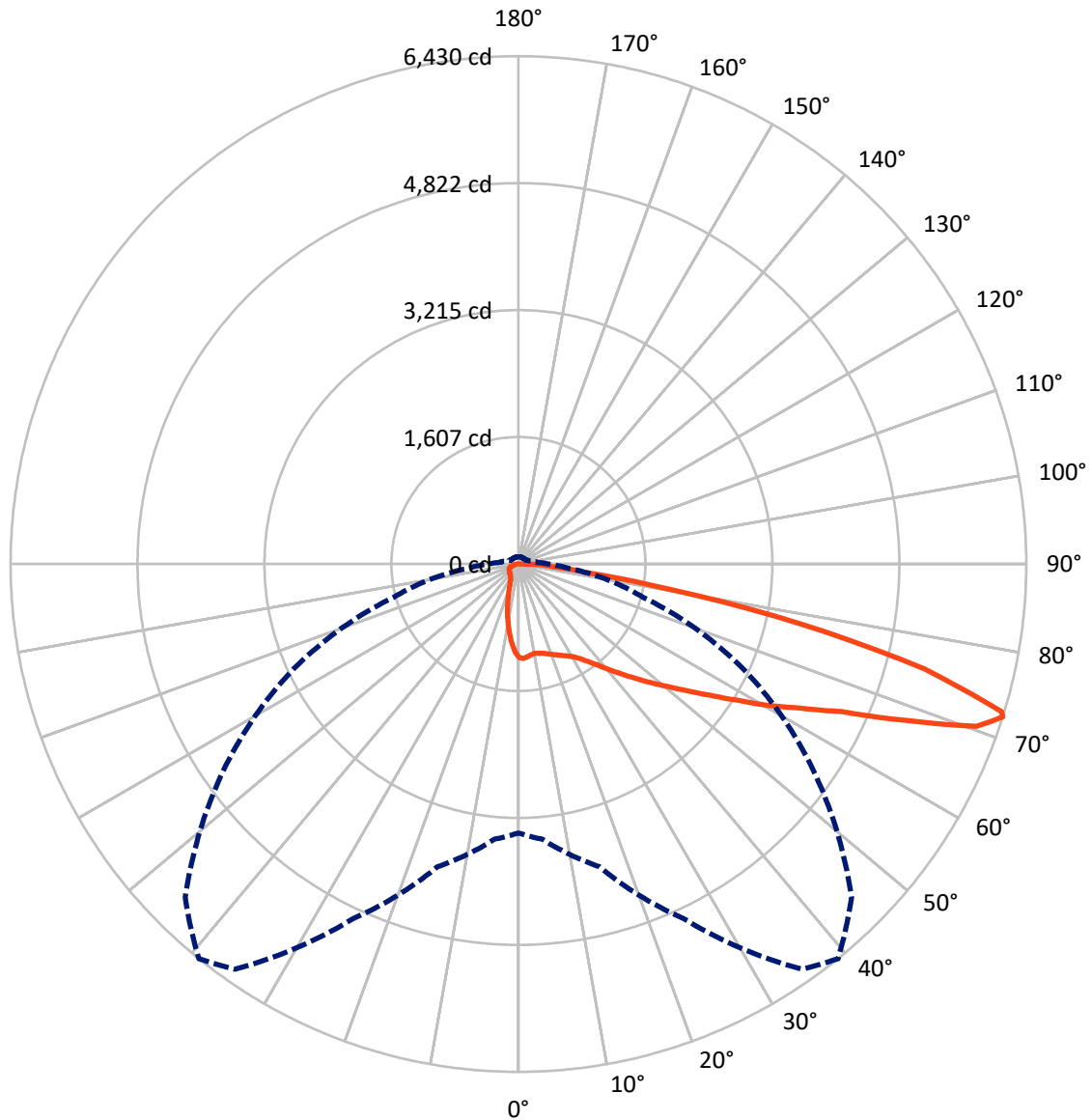


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical



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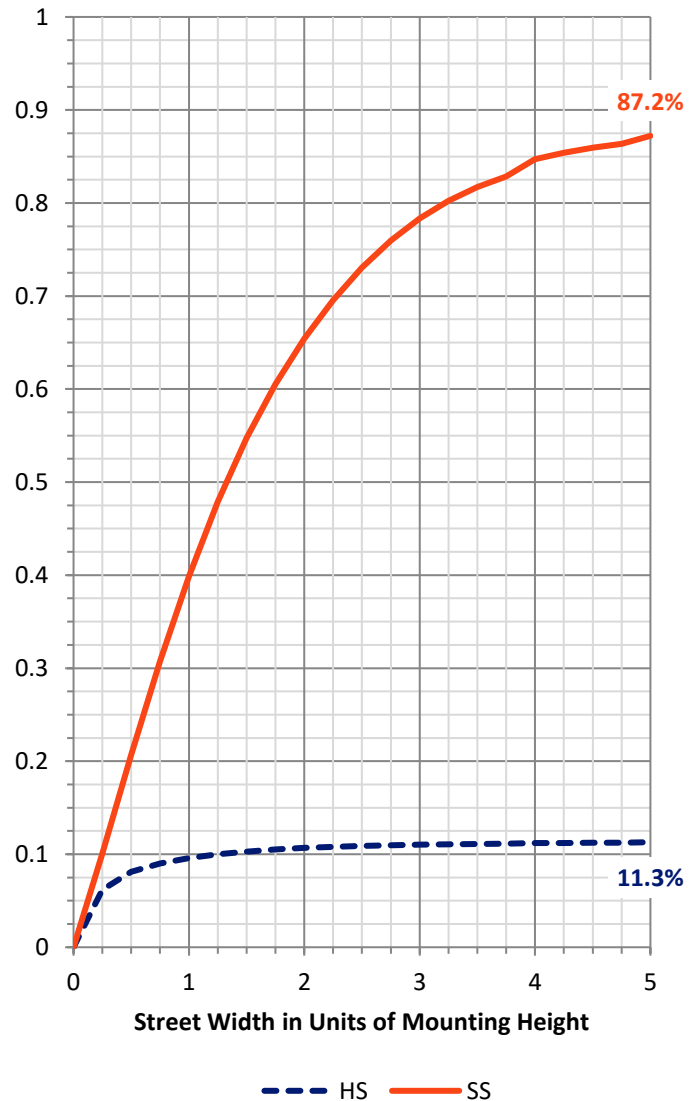
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	889.0	0.0	889.0
	% Fixture	11.5	0.0	11.5
<b>Street Side</b>	Lumens	6864.0	0.0	6864.0
	% Fixture	88.5	0.0	88.5
<b>Total</b>	Lumens	7752.9	0.0	7752.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	1.3
10°-20°	255.7	3.3
20°-30°	398.4	5.1
30°-40°	613.5	7.9
40°-50°	1000.1	12.9
50°-60°	1554.0	20.0
60°-70°	2080.0	26.8
70°-80°	1495.8	19.3
80°-90°	253.6	3.3
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°	7752.9	100.0
0°-180°	7752.9	100.0



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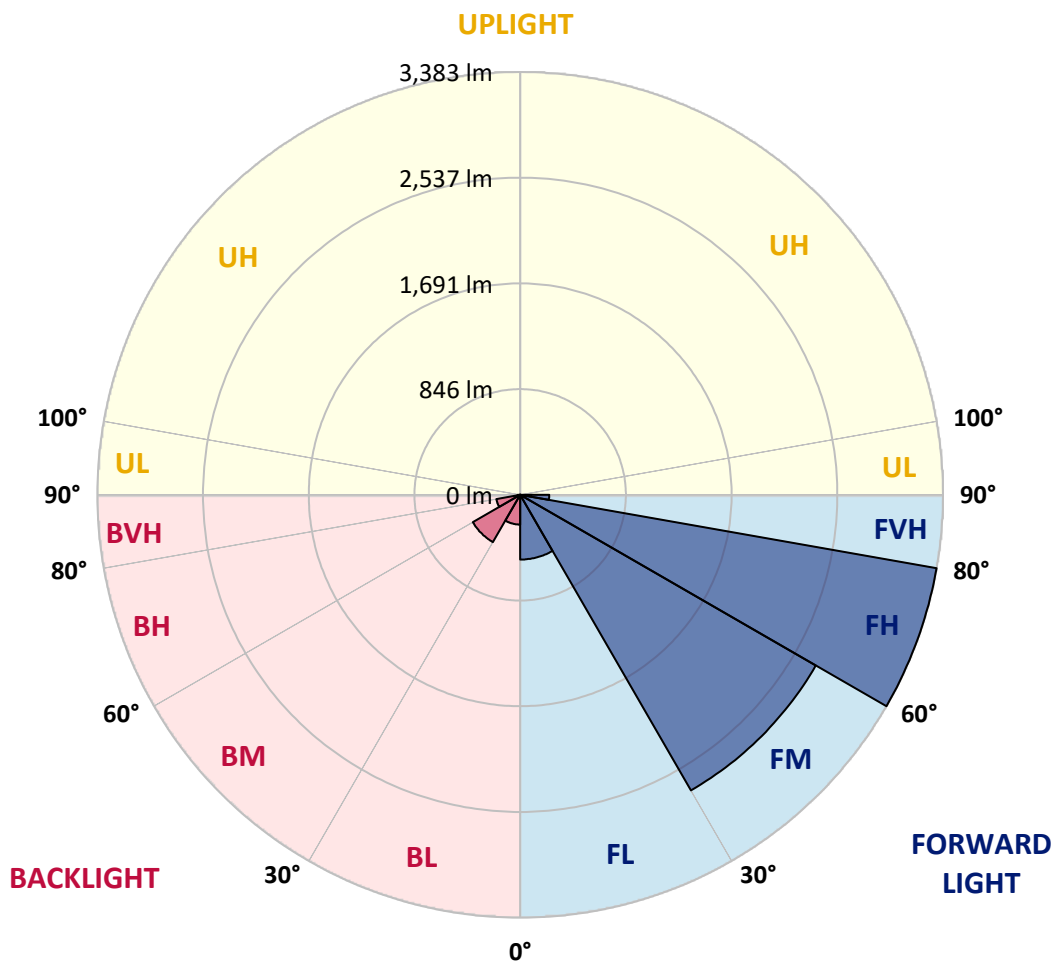
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	517.9	6.7			
FM	(30°-60°)	2730.7	35.2			
FH	(60°-80°)	3382.7	43.6			G2/5000
FVH	(80°-90°)	232.6	3.0			G3/500
BL	(0°-30°)	238.0	3.1	B1/500		
BM	(30°-60°)	436.9	5.6	B1/1000		
BH	(60°-80°)	193.1	2.5	B1/500		G1/500
BVH	(80°-90°)	21.0	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1209.5	1210.0	1208.5	1203.8	1199.6	1197.6	1193.9	1187.6	1179.4	1173.6	1168.9
5°	1198.1	1199.6	1198.6	1190.8	1183.5	1179.4	1173.6	1164.7	1153.8	1149.2	1138.2
7.5°	1189.2	1190.3	1187.1	1178.3	1164.2	1159.0	1148.7	1137.2	1127.3	1120.5	1107.5
10°	1182.9	1184.0	1181.4	1172.6	1157.0	1150.7	1138.2	1125.8	1112.7	1104.4	1089.9
12.5°	1174.1	1176.2	1176.2	1172.0	1161.7	1157.5	1145.0	1131.5	1119.5	1110.6	1092.4
15°	1172.6	1175.2	1179.9	1179.4	1176.2	1173.1	1163.2	1149.7	1139.3	1128.8	1106.4
17.5°	1185.6	1191.3	1200.6	1203.8	1201.7	1194.9	1183.5	1171.0	1159.5	1149.7	1122.1
20°	1218.3	1221.5	1235.5	1241.8	1231.3	1221.5	1206.4	1190.3	1179.9	1172.0	1136.7
22.5°	1267.8	1271.9	1283.4	1283.9	1262.1	1250.1	1230.8	1211.1	1201.1	1198.1	1156.4
25°	1346.9	1345.9	1349.0	1336.0	1296.4	1282.4	1258.9	1236.0	1229.3	1235.5	1185.6
27.5°	1441.6	1439.0	1429.2	1395.3	1335.5	1317.3	1289.1	1268.9	1268.9	1283.4	1225.1
30°	1550.9	1548.3	1516.0	1459.3	1381.8	1360.9	1331.3	1310.0	1320.9	1349.0	1278.7
32.5°	1666.5	1657.1	1611.9	1535.9	1447.9	1425.0	1396.3	1374.5	1395.3	1443.2	1355.7
35°	1775.2	1770.0	1714.4	1624.3	1533.2	1514.0	1494.2	1467.1	1500.5	1574.8	1464.6
37.5°	1887.7	1883.5	1815.3	1719.6	1637.3	1624.3	1607.7	1588.9	1642.6	1740.3	1611.9
40°	2013.1	2004.8	1918.9	1823.1	1758.6	1752.3	1743.5	1738.3	1824.6	1970.4	1798.1
42.5°	2155.2	2139.0	2028.2	1937.1	1890.8	1895.9	1891.3	1912.1	2044.3	2235.9	2019.8
45°	2317.5	2285.3	2136.9	2058.4	2037.0	2057.9	2067.7	2120.8	2304.0	2542.3	2267.6
47.5°	2469.5	2427.9	2256.1	2190.0	2202.0	2237.9	2266.0	2359.7	2588.7	2845.2	2520.6
50°	2609.5	2562.7	2383.7	2326.4	2384.7	2435.6	2494.0	2626.1	2891.6	3157.0	2752.7
52.5°	2713.1	2679.2	2511.1	2475.2	2594.4	2662.1	2755.2	2922.3	3197.6	3454.2	2959.8
55°	2793.3	2775.1	2635.5	2646.0	2831.7	2928.5	3041.4	3233.5	3521.3	3720.7	3126.3
57.5°	2885.8	2872.3	2777.6	2852.1	3126.3	3248.1	3381.4	3594.8	3829.4	3955.3	3257.0
60°	2983.7	2983.7	2935.9	3100.3	3494.8	3634.2	3767.0	3933.0	4136.5	4166.7	3310.1
62.5°	3057.6	3076.8	3094.0	3364.7	3844.6	4017.8	4163.6	4322.8	4454.5	4270.8	3185.2
65°	3164.8	3205.9	3302.7	3670.1	4277.6	4504.5	4701.2	4835.0	4712.1	4188.1	2777.6
67.5°	3349.0	3410.0	3616.0	4125.0	4940.5	5280.5	5471.5	5240.4	4661.6	3667.1	2127.5
70°	3515.1	3601.0	3953.3	4702.2	5802.5	6155.3	6067.3	5146.2	4060.0	2688.1	1309.0
72°	3404.8	3498.4	3968.9	4953.6	6263.0	6429.6	5965.8	4560.6	3137.3	1640.4	645.4
72.5°	3332.4	3429.7	3918.4	4947.4	6275.5	6394.7	5824.8	4328.0	2847.9	1435.4	522.0
75°	2783.9	2867.1	3369.4	4384.8	5530.3	5311.7	4545.6	2801.0	1309.0	463.7	268.5
77.5°	1817.9	1881.4	2323.2	3037.9	3873.7	3663.4	2766.7	1311.5	490.8	281.5	201.9
80°	913.4	958.7	1243.3	1597.2	2090.6	1923.6	1277.2	634.4	328.4	203.5	158.8
82.5°	635.5	677.1	856.1	815.5	873.8	845.7	600.6	529.3	245.6	128.6	83.3
85°	533.0	576.1	708.3	581.3	475.7	433.5	430.5	500.1	162.3	63.5	70.3
87.5°	464.7	530.3	584.4	424.7	326.3	287.8	316.9	458.5	51.6	34.9	21.4
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°	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0	1184.0
2.5°	1161.2	1159.5	1151.7	1139.8	1131.0	1125.2	1114.3	1113.8	1114.8	1105.4	1109.1
5°	1128.3	1122.1	1101.8	1074.2	1051.8	1030.5	1007.1	999.2	992.5	978.5	980.0
7.5°	1093.9	1083.0	1047.7	1002.4	959.2	919.6	880.6	861.3	846.8	828.6	828.6
10°	1073.7	1056.5	1002.4	936.3	867.6	809.8	751.6	716.7	691.1	667.8	666.1
12.5°	1072.7	1046.6	971.2	880.0	785.8	704.7	625.0	571.4	533.5	505.8	503.3
15°	1081.0	1044.5	945.1	827.5	708.8	603.2	504.8	436.7	388.2	357.5	354.5
17.5°	1088.2	1042.0	917.1	772.3	633.9	505.3	396.1	325.3	279.5	254.5	251.9
20°	1095.0	1036.2	881.1	714.0	551.2	413.8	309.6	252.5	222.2	208.2	206.6
22.5°	1104.9	1031.0	843.6	648.4	469.9	336.8	255.5	214.4	198.2	191.5	190.5
25°	1121.1	1031.5	807.2	581.3	395.6	280.5	221.2	195.7	186.8	182.2	182.2
27.5°	1144.5	1037.8	771.3	513.1	332.6	242.0	200.9	185.8	180.0	176.5	175.4
30°	1178.8	1049.2	733.4	448.7	282.6	215.4	188.9	179.5	174.8	171.8	171.2
32.5°	1228.8	1069.5	693.3	389.8	244.6	196.7	180.0	174.3	170.7	168.1	167.6
35°	1303.2	1105.4	654.2	339.8	217.6	183.2	172.8	168.1	166.0	165.0	164.5
37.5°	1412.5	1163.2	617.2	300.8	199.9	174.3	165.5	162.9	161.8	161.8	161.8
40°	1549.9	1239.2	583.9	273.2	190.0	167.6	160.3	158.3	158.3	158.8	158.8
42.5°	1716.9	1334.4	555.4	254.5	184.2	162.9	156.6	155.6	155.1	155.1	155.6
45°	1911.1	1446.9	537.7	239.9	180.0	160.3	154.1	153.5	151.5	150.4	150.4
47.5°	2106.3	1567.1	536.5	231.6	174.8	157.1	151.5	151.5	147.3	145.2	145.8
50°	2288.4	1674.8	548.0	229.6	171.8	152.5	148.8	149.4	143.6	141.1	140.6
52.5°	2435.1	1757.0	562.1	232.1	171.8	148.3	144.1	146.8	140.6	137.4	136.9
55°	2548.6	1814.3	567.3	237.8	173.8	144.6	140.0	144.1	139.5	135.3	135.3
57.5°	2629.8	1832.5	544.9	240.5	177.0	144.1	135.8	143.6	141.1	135.8	135.8
60°	2600.1	1726.8	461.7	230.6	176.5	143.1	132.7	144.6	146.3	140.6	140.6
62.5°	2368.5	1444.7	370.5	208.2	167.6	139.5	129.1	143.6	149.9	147.8	146.8
65°	1928.3	1059.7	287.2	181.7	152.5	131.7	121.2	134.3	141.6	143.6	144.1
67.5°	1358.9	670.9	223.3	154.6	133.8	120.2	112.4	118.7	121.2	122.3	124.4
70°	743.2	363.2	177.5	130.1	114.5	108.7	103.0	103.5	102.5	101.5	102.5
72°	373.2	237.3	149.9	112.9	101.5	97.8	95.2	93.7	93.7	92.2	92.7
72.5°	321.1	220.7	144.6	108.7	98.4	95.2	93.2	91.6	91.0	90.0	90.5
75°	213.9	174.8	120.7	91.0	83.8	81.7	82.8	81.2	81.7	80.7	81.2
77.5°	172.8	150.4	102.5	77.0	71.8	68.7	70.8	71.3	72.3	71.3	70.8
80°	144.6	128.1	85.8	63.5	59.8	57.3	58.3	61.9	62.5	59.3	58.8
82.5°	93.7	103.0	67.6	49.4	45.8	44.8	47.4	51.0	52.1	47.9	46.9
85°	78.6	82.8	48.9	33.9	30.2	29.2	34.4	38.0	40.6	36.4	35.4
87.5°	21.9	40.6	23.9	16.2	13.5	13.5	16.7	19.7	23.4	23.9	23.9
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)