

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: P198883

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)  
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-SL4-7050-600-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6473 lumens  
Efficiency: N/A  
Efficacy: 98.1 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 - 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

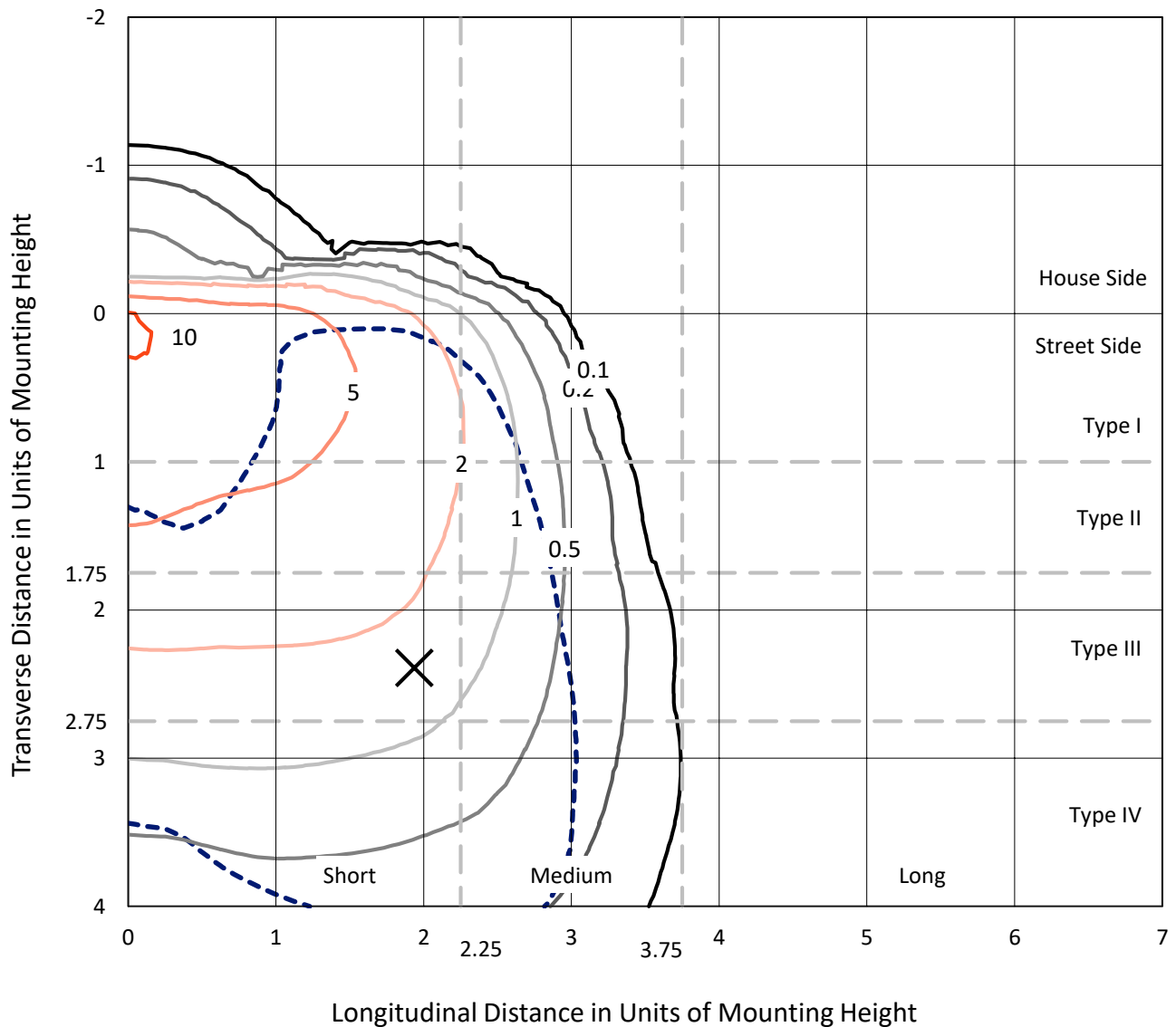


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

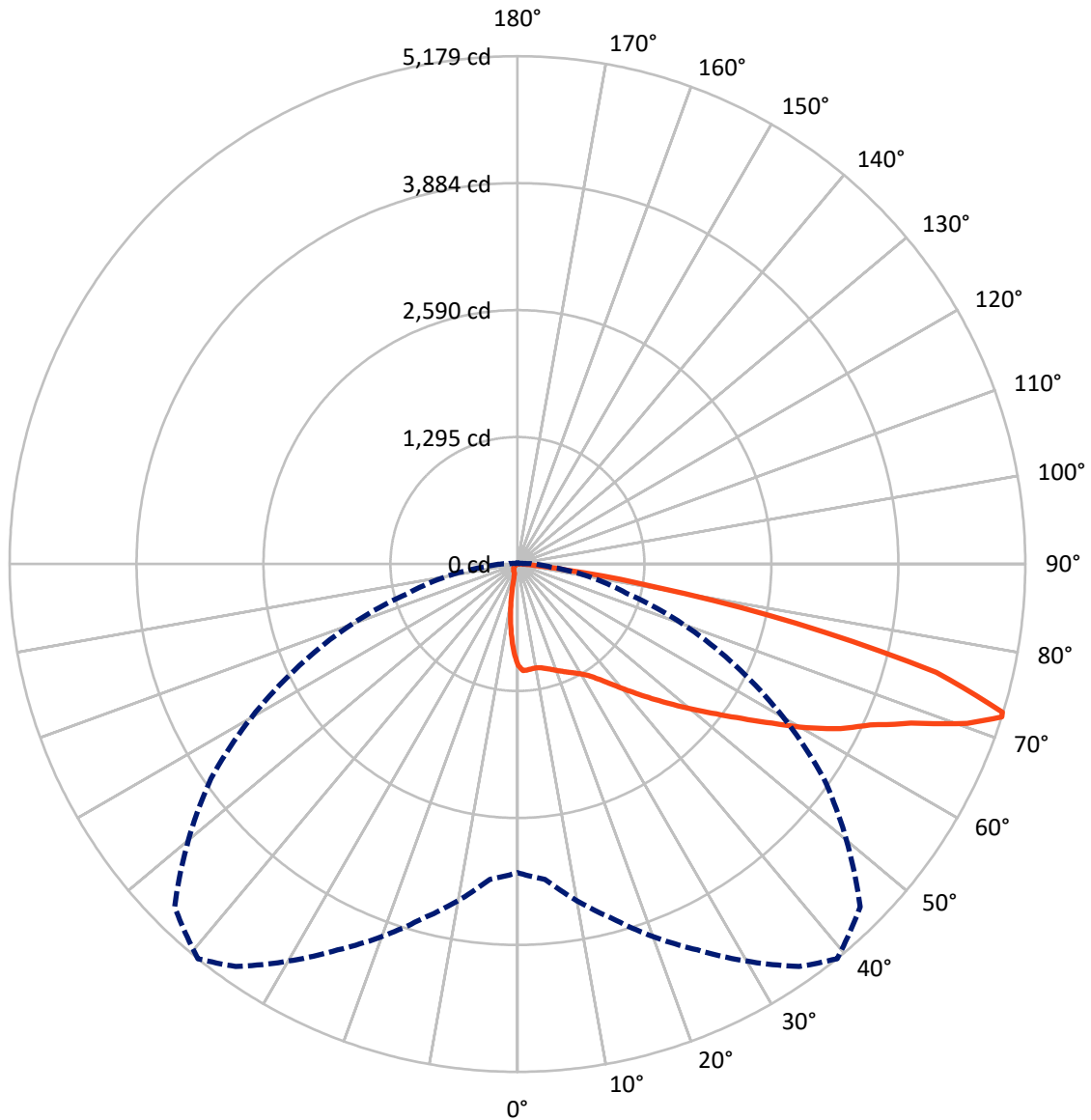


Based on 10 foot mounting height. Maximum calculated value = 10.9 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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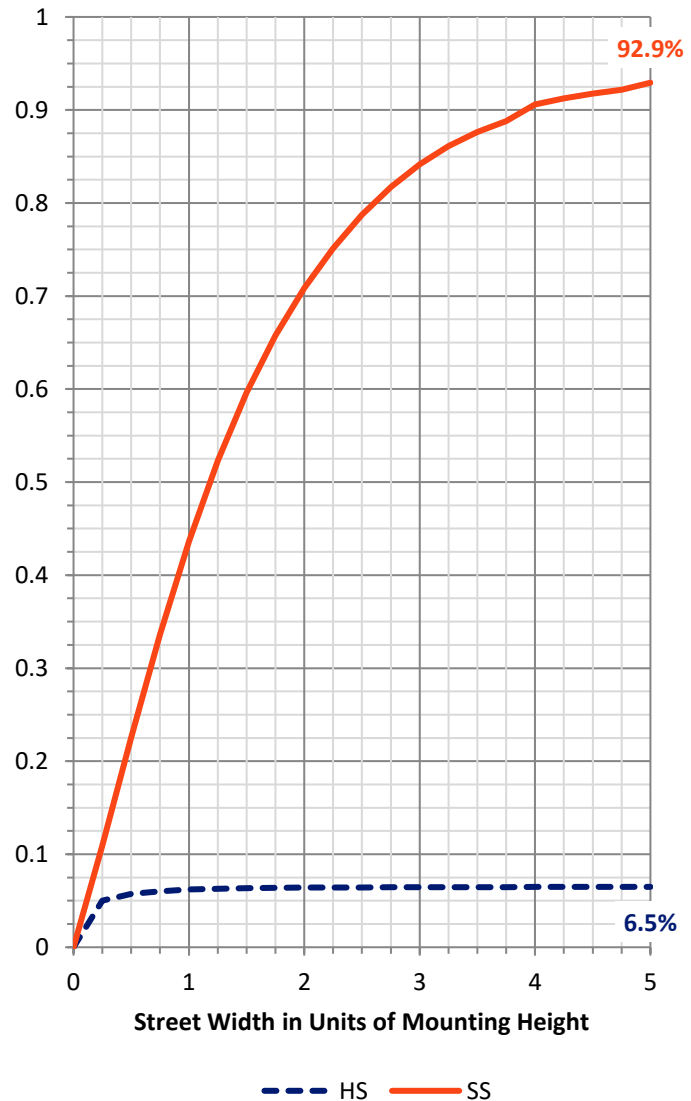
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	424.2	0.0	424.2
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	6048.8	0.0	6048.8
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	6473.0	0.0	6473.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	1.3
10°-20°	204.0	3.2
20°-30°	338.8	5.2
30°-40°	540.0	8.3
40°-50°	891.4	13.8
50°-60°	1346.2	20.8
60°-70°	1753.6	27.1
70°-80°	1184.9	18.3
80°-90°	129.8	2.0
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°	6473.0	100.0
0°-180°	6473.0	100.0



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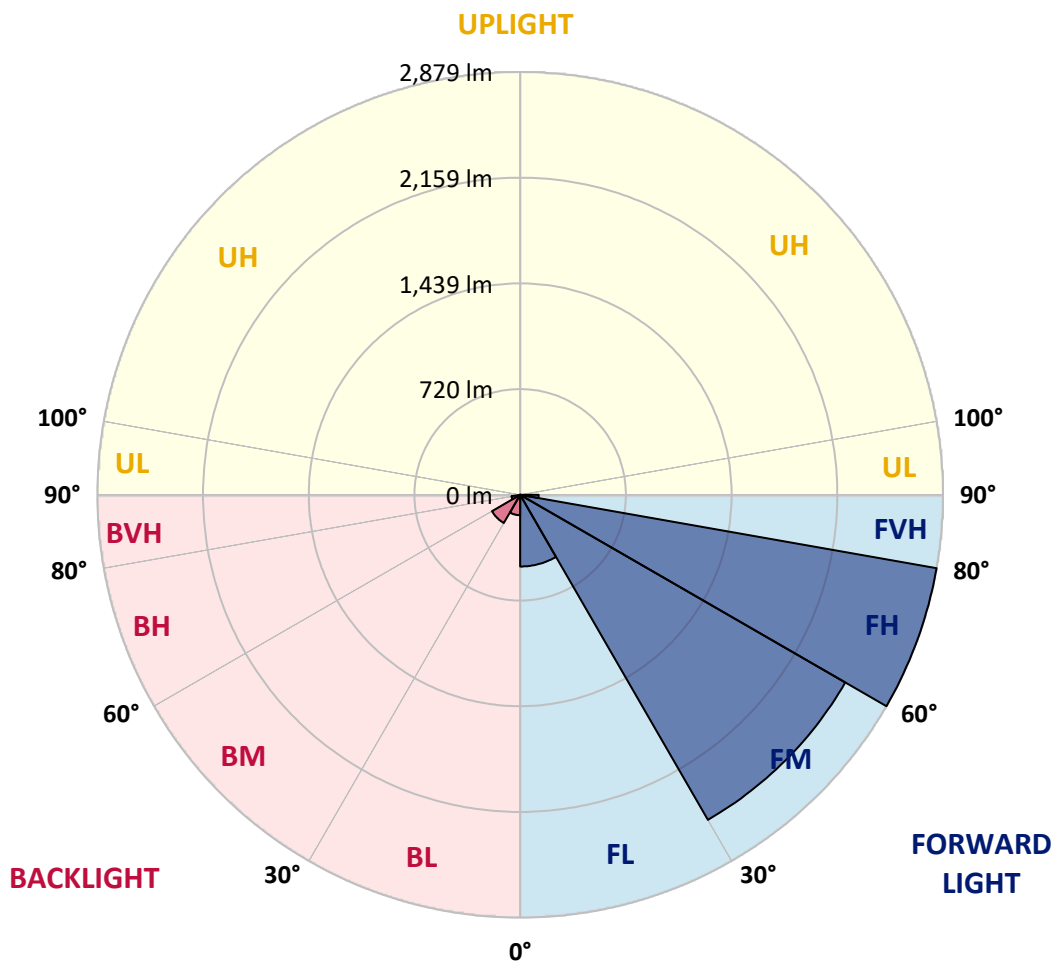
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	488.2	7.5			
FM	(30°-60°)	2555.6	39.5			
FH	(60°-80°)	2878.9	44.5			G2/5000
FVH	(80°-90°)	126.0	1.9			G2/225
BL	(0°-30°)	138.9	2.1	B1/500		
BM	(30°-60°)	222.0	3.4	B1/1000		
BH	(60°-80°)	59.6	0.9	B0/110		G0/110
BVH	(80°-90°)	3.7	0.1			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0
2.5°	1103.2	1105.3	1102.7	1098.1	1091.5	1087.4	1081.8	1069.6	1054.4	1041.1	1025.9
5°	1111.9	1112.9	1109.8	1101.2	1091.0	1085.4	1078.3	1065.1	1049.3	1031.0	1003.5
7.5°	1114.4	1113.9	1110.3	1099.7	1083.9	1076.8	1064.5	1048.3	1032.0	1015.2	984.1
10°	1113.4	1113.4	1110.8	1100.7	1082.9	1076.2	1062.5	1045.2	1024.9	1008.1	975.0
12.5°	1109.8	1111.9	1110.3	1104.7	1091.5	1086.4	1074.2	1056.9	1037.6	1020.3	985.2
15°	1114.4	1117.5	1120.5	1118.5	1110.8	1106.3	1095.1	1077.3	1061.5	1043.2	1005.5
17.5°	1132.7	1139.3	1146.5	1147.0	1138.8	1130.7	1118.0	1099.7	1084.4	1067.6	1026.9
20°	1167.3	1172.4	1185.7	1188.2	1171.9	1160.2	1142.4	1121.0	1105.8	1091.5	1046.7
22.5°	1218.7	1224.3	1235.0	1231.4	1204.0	1190.2	1167.8	1143.4	1127.6	1119.5	1069.6
25°	1296.6	1298.1	1300.7	1284.9	1239.6	1224.3	1196.8	1169.4	1156.6	1155.6	1102.2
27.5°	1388.2	1390.2	1379.0	1343.9	1279.3	1259.4	1228.4	1203.5	1197.4	1205.0	1143.4
30°	1493.0	1493.5	1462.5	1405.5	1325.1	1303.2	1271.1	1243.7	1249.3	1268.1	1196.3
32.5°	1600.4	1595.3	1552.5	1478.2	1387.7	1361.2	1333.7	1306.3	1322.5	1360.7	1273.7
35°	1698.6	1696.5	1646.2	1559.7	1469.1	1445.7	1425.8	1396.8	1423.3	1485.4	1379.0
37.5°	1796.8	1795.3	1737.8	1647.7	1569.3	1552.5	1537.8	1515.4	1558.6	1649.7	1520.0
40°	1905.2	1902.6	1831.9	1745.4	1685.9	1676.7	1668.1	1658.4	1732.2	1858.9	1695.5
42.5°	2039.0	2027.8	1931.6	1851.8	1814.1	1816.6	1817.2	1826.8	1942.3	2107.7	1902.6
45°	2192.7	2167.8	2031.9	1965.7	1955.1	1970.3	1985.6	2025.8	2187.1	2394.2	2131.6
47.5°	2341.8	2301.6	2147.4	2088.4	2110.3	2141.8	2178.4	2256.8	2461.9	2693.9	2339.2
50°	2470.0	2428.8	2261.9	2213.0	2282.8	2329.6	2394.7	2513.3	2751.9	2947.3	2470.0
52.5°	2570.8	2538.2	2383.0	2350.4	2474.1	2538.2	2640.5	2796.2	3025.7	3114.2	2561.6
55°	2645.1	2628.8	2499.0	2503.6	2686.8	2779.4	2906.6	3082.7	3256.7	3244.0	2630.3
57.5°	2729.0	2716.3	2620.6	2684.3	2942.8	3062.3	3209.4	3350.9	3424.6	3348.3	2697.5
60°	2815.0	2819.1	2768.2	2903.1	3259.3	3391.6	3519.8	3554.9	3568.7	3454.2	2768.2
62.5°	2880.2	2897.5	2902.0	3139.2	3583.9	3696.9	3752.4	3727.4	3724.4	3596.1	2762.6
65°	2955.0	3000.3	3075.6	3398.2	3879.1	3953.4	3993.0	4029.2	3952.8	3638.4	2490.9
67.5°	3084.2	3155.5	3324.9	3715.7	4220.0	4329.9	4442.4	4404.2	3986.9	3209.4	1897.6
70°	3258.3	3345.3	3644.5	4130.4	4682.6	4866.8	4960.9	4374.2	3385.0	2217.6	1000.9
72°	3148.3	3227.2	3743.2	4342.1	5010.3	5179.2	4943.6	3815.5	2453.7	1149.5	335.3
72.5°	3041.5	3122.9	3711.6	4339.6	5042.8	5172.1	4831.1	3595.1	2171.3	894.6	231.0
75°	2110.3	2213.0	3181.9	3900.9	4553.8	4411.8	3696.4	2176.9	786.7	153.7	76.3
77.5°	1091.0	1170.4	1930.1	2756.5	3173.8	2906.6	2184.5	944.5	217.8	81.4	50.4
80°	676.3	715.5	902.7	1358.2	1648.7	1442.1	963.8	381.6	139.4	48.3	40.2
82.5°	350.1	380.1	568.4	548.0	609.1	506.3	355.7	319.6	86.0	30.0	41.2
85°	115.0	122.1	349.1	364.3	260.5	175.0	157.7	304.8	24.9	19.3	35.1
87.5°	15.3	17.8	122.6	208.6	128.2	79.4	94.6	107.4	8.7	10.7	9.7
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°	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0	1036.0
2.5°	1015.7	1009.1	988.2	967.3	943.4	921.6	904.2	893.1	898.1	881.4	883.9
5°	986.7	969.9	924.1	874.7	821.3	771.4	731.7	702.2	696.6	671.2	672.2
7.5°	958.7	931.2	856.9	775.5	687.0	615.2	550.1	493.1	472.7	451.9	439.7
10°	943.4	905.8	800.4	681.9	557.2	451.9	360.3	288.5	258.5	236.6	225.9
12.5°	948.0	898.1	758.2	596.9	433.0	299.2	203.5	151.1	132.8	122.6	119.1
15°	963.3	899.7	720.0	514.0	315.0	181.2	119.6	102.3	100.8	100.2	99.7
17.5°	977.5	901.2	679.8	427.4	210.7	115.5	96.2	94.6	94.6	94.6	94.6
20°	992.3	901.7	635.6	336.9	138.4	94.6	90.6	89.6	90.6	90.6	90.6
22.5°	1009.6	905.3	592.8	248.8	102.3	89.1	86.5	86.0	86.5	86.5	86.0
25°	1031.0	912.9	546.5	178.1	92.6	85.5	82.9	82.4	82.9	82.4	82.4
27.5°	1059.5	923.1	492.6	127.7	88.5	81.9	79.4	79.4	79.4	78.9	78.9
30°	1096.1	935.3	420.3	100.8	84.5	78.4	76.3	76.3	75.8	75.3	75.3
32.5°	1148.5	955.1	341.4	91.1	79.9	73.8	71.7	72.3	71.7	71.2	70.7
35°	1222.8	986.2	263.6	86.0	75.3	69.2	67.2	67.2	67.2	66.2	66.2
37.5°	1328.1	1033.5	197.4	80.9	70.7	64.6	62.1	62.1	61.6	60.6	61.1
40°	1458.4	1093.0	143.0	76.3	66.2	59.5	57.5	56.5	55.5	54.4	54.4
42.5°	1615.1	1151.0	107.4	71.7	61.6	55.5	52.9	51.9	49.9	48.9	48.3
45°	1790.7	1212.6	89.1	66.2	56.5	50.9	48.9	46.8	44.3	42.7	42.2
47.5°	1938.8	1250.3	79.4	60.6	51.4	46.3	44.3	41.2	38.2	37.1	37.1
50°	2027.8	1234.5	71.2	55.0	46.3	41.7	39.2	35.1	33.1	32.1	31.5
52.5°	2077.7	1187.7	64.6	50.4	41.7	36.6	33.1	29.5	28.5	27.5	27.5
55°	2111.8	1120.0	57.5	45.8	37.7	32.1	28.0	25.4	24.4	23.9	23.4
57.5°	2144.3	1037.6	50.9	41.7	33.6	28.5	23.9	22.9	20.9	20.4	20.4
60°	2154.0	924.1	44.8	37.1	30.0	24.9	20.9	19.3	17.3	16.8	16.8
62.5°	2030.9	735.3	39.7	31.5	26.5	21.4	18.3	16.3	14.2	14.2	14.2
65°	1697.1	499.2	34.1	27.5	23.4	18.3	15.8	13.2	12.2	12.2	12.2
67.5°	1182.1	278.3	29.0	23.4	19.8	15.3	13.2	11.2	10.7	11.2	11.2
70°	532.8	110.4	24.4	19.3	16.3	12.7	11.2	9.7	10.7	10.7	10.7
72°	159.8	59.0	20.4	15.8	13.2	11.2	9.7	9.2	10.2	10.7	10.7
72.5°	118.6	52.9	19.3	15.3	13.2	10.7	9.2	9.2	10.2	10.7	10.7
75°	61.1	36.1	14.8	11.2	9.7	8.7	7.6	8.7	10.2	10.2	10.2
77.5°	47.8	29.5	12.2	8.7	8.1	7.6	7.1	8.1	9.2	9.2	9.2
80°	44.8	19.3	9.7	8.1	7.1	6.6	6.6	7.1	8.1	8.7	8.7
82.5°	45.3	15.8	8.7	7.6	6.6	6.1	6.1	6.6	7.6	8.1	8.1
85°	29.0	10.7	7.6	6.6	6.1	5.6	5.6	6.1	7.1	7.6	7.6
87.5°	9.7	8.1	6.6	6.1	5.1	5.1	5.1	5.1	6.1	6.6	7.1
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)