

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: P198567

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P198567  
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-SL4-7030-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA 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: 8696 lumens  
Efficiency: N/A  
Efficacy: 78.3 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): 111  
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

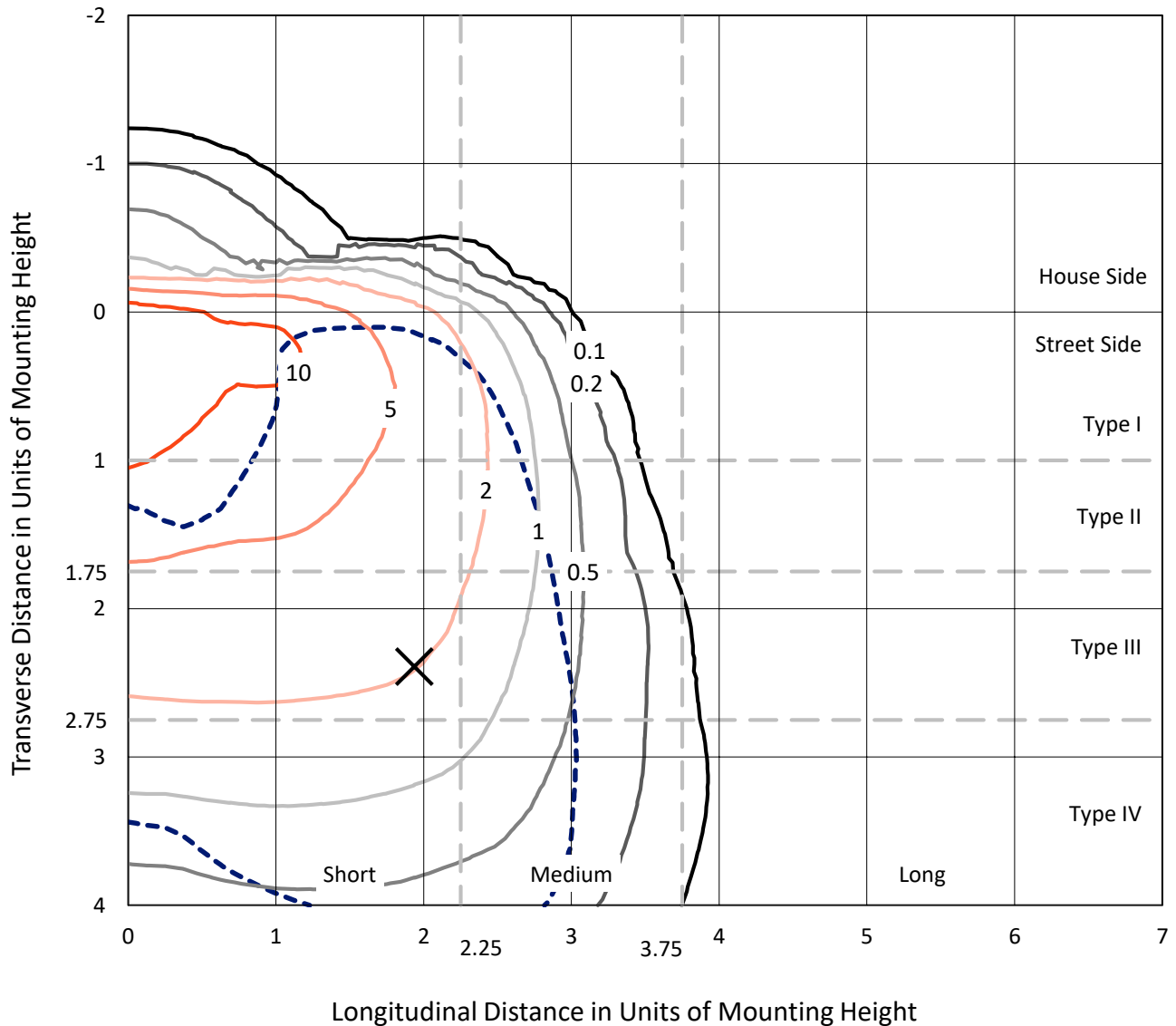


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

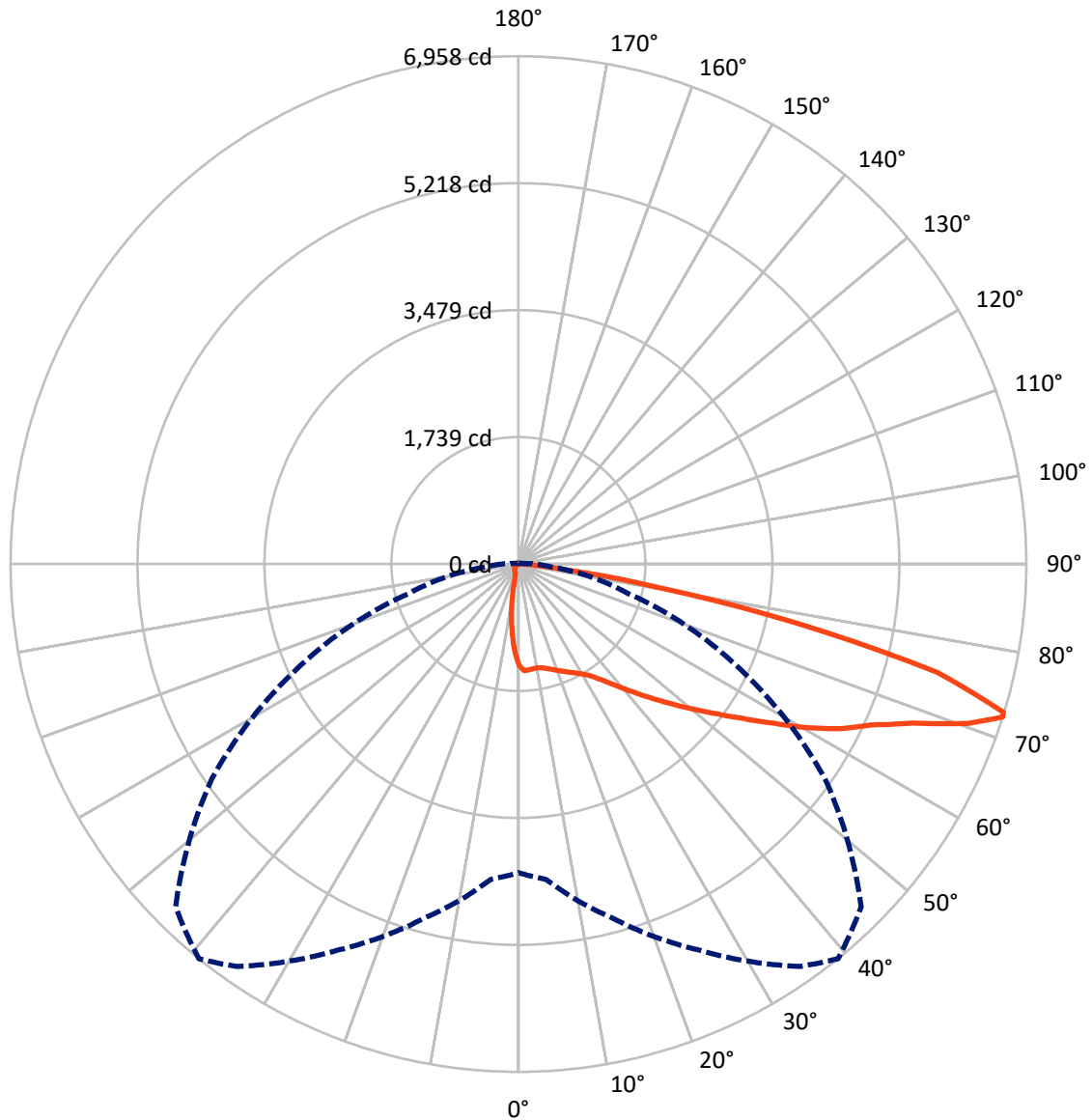


Based on 10 foot mounting height. Maximum calculated value = 14.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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



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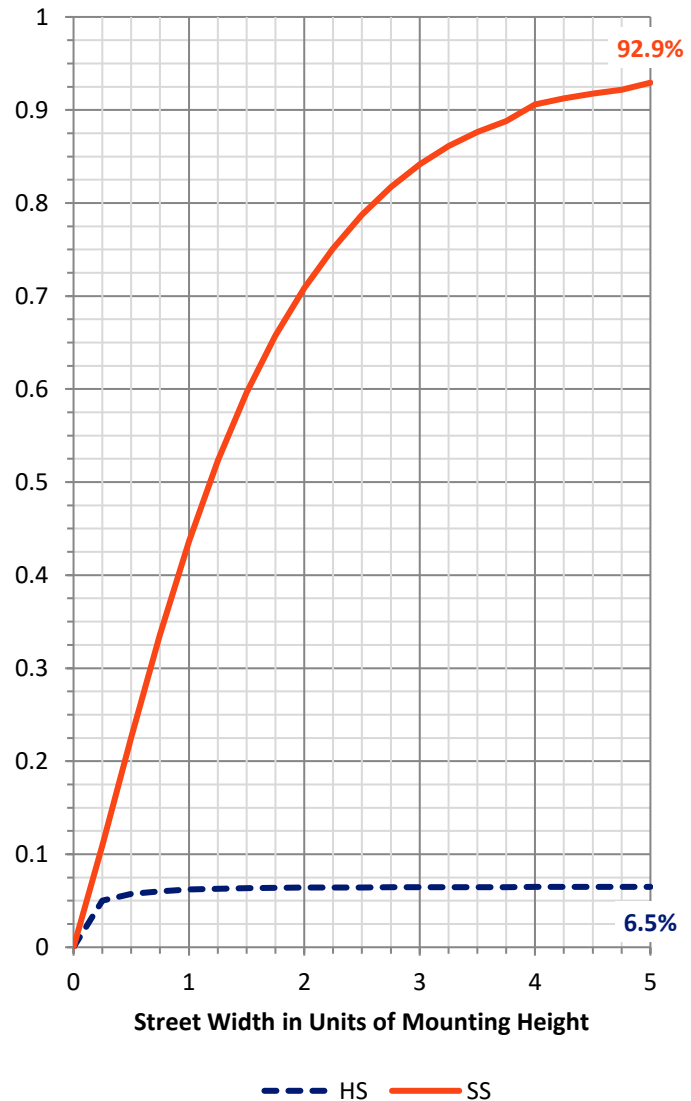
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	569.9	0.0	569.9
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	8126.1	0.0	8126.1
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	8696.0	0.0	8696.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.3
10°-20°	274.1	3.2
20°-30°	455.2	5.2
30°-40°	725.5	8.3
40°-50°	1197.5	13.8
50°-60°	1808.5	20.8
60°-70°	2355.8	27.1
70°-80°	1591.9	18.3
80°-90°	174.3	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°	8696.0	100.0
0°-180°	8696.0	100.0

**Coefficient of Utilization**



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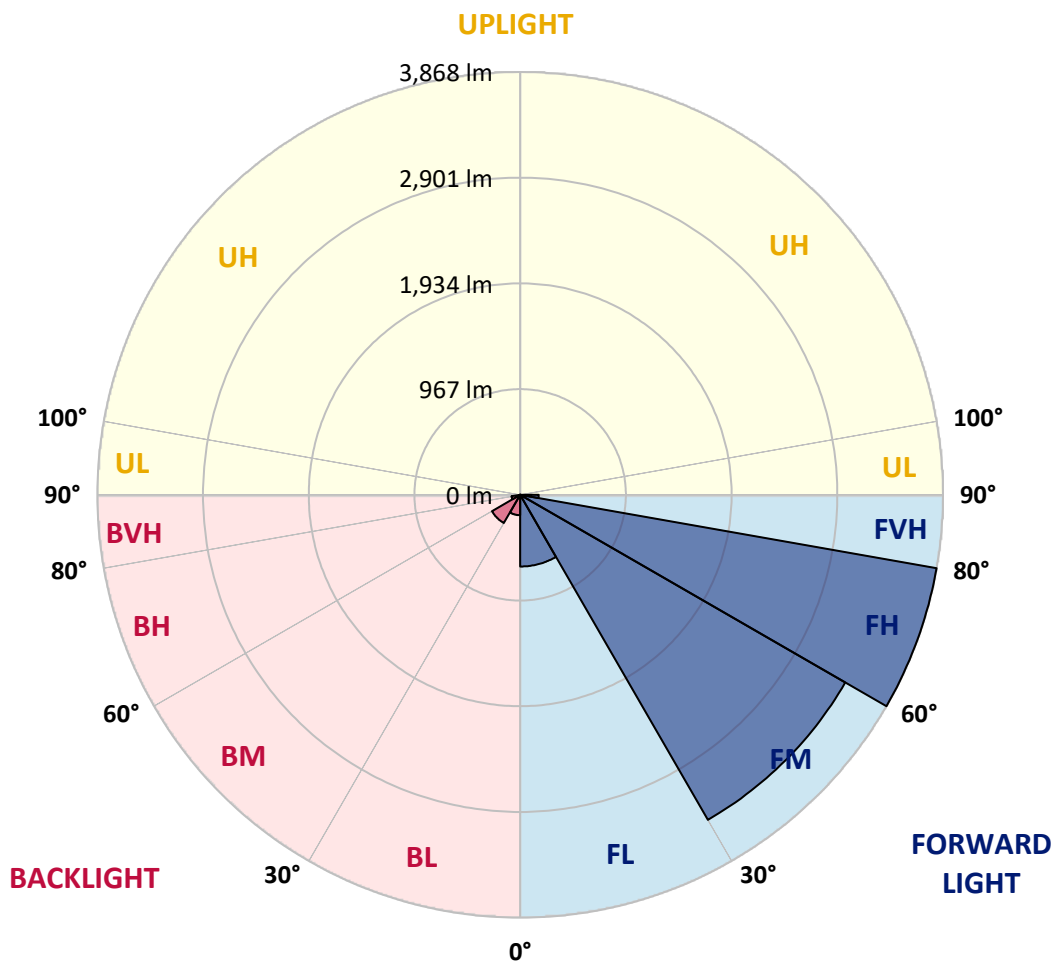
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.9	7.5			
FM	(30°-60°)	3433.3	39.5			
FH	(60°-80°)	3867.6	44.5			G2/5000
FVH	(80°-90°)	169.3	1.9			G2/225
BL	(0°-30°)	186.6	2.1	B1/500		
BM	(30°-60°)	298.2	3.4	B1/1000		
BH	(60°-80°)	80.1	0.9	B0/110		G0/110
BVH	(80°-90°)	5.0	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°	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9
2.5°	1482.1	1484.8	1481.4	1475.3	1466.4	1460.9	1453.4	1437.0	1416.5	1398.7	1378.2
5°	1493.7	1495.1	1491.0	1479.4	1465.7	1458.2	1448.6	1430.8	1409.6	1385.0	1348.1
7.5°	1497.1	1496.4	1491.7	1477.3	1456.1	1446.5	1430.1	1408.3	1386.4	1363.8	1322.1
10°	1495.8	1495.8	1492.3	1478.7	1454.7	1445.9	1427.4	1404.2	1376.8	1354.3	1309.8
12.5°	1491.0	1493.7	1491.7	1484.1	1466.4	1459.5	1443.1	1419.9	1393.9	1370.7	1323.5
15°	1497.1	1501.2	1505.3	1502.6	1492.3	1486.2	1471.2	1447.2	1426.0	1401.4	1350.8
17.5°	1521.7	1530.6	1540.2	1540.9	1529.9	1519.0	1501.9	1477.3	1456.8	1434.2	1379.5
20°	1568.2	1575.1	1592.8	1596.3	1574.4	1558.7	1534.7	1506.0	1485.5	1466.4	1406.2
22.5°	1637.3	1644.8	1659.1	1654.4	1617.4	1599.0	1568.9	1536.1	1514.9	1504.0	1437.0
25°	1741.9	1743.9	1747.3	1726.1	1665.3	1644.8	1607.9	1571.0	1553.9	1552.5	1480.7
27.5°	1864.9	1867.7	1852.6	1805.4	1718.6	1692.0	1650.3	1616.8	1608.6	1618.8	1536.1
30°	2005.7	2006.4	1964.7	1888.2	1780.1	1750.8	1707.7	1670.8	1678.3	1703.6	1607.2
32.5°	2150.0	2143.1	2085.7	1985.9	1864.2	1828.7	1791.8	1754.9	1776.7	1828.0	1711.1
35°	2281.9	2279.2	2211.5	2095.3	1973.6	1942.2	1915.5	1876.5	1912.1	1995.5	1852.6
37.5°	2413.9	2411.8	2334.6	2213.6	2108.3	2085.7	2065.9	2035.8	2093.9	2216.3	2042.0
40°	2559.5	2556.1	2461.0	2344.8	2264.8	2252.5	2240.9	2227.9	2327.0	2497.3	2277.8
42.5°	2739.3	2724.2	2595.0	2487.7	2437.1	2440.5	2441.2	2454.2	2609.4	2831.6	2556.1
45°	2945.7	2912.2	2729.7	2640.8	2626.5	2647.0	2667.5	2721.5	2938.2	3216.4	2863.7
47.5°	3146.0	3092.0	2884.9	2805.6	2835.0	2877.4	2926.6	3031.9	3307.4	3619.1	3142.6
50°	3318.3	3262.9	3038.7	2973.1	3066.7	3129.6	3217.1	3376.4	3697.0	3959.5	3318.3
52.5°	3453.7	3409.9	3201.4	3157.6	3323.8	3409.9	3547.3	3756.5	4064.8	4183.8	3441.3
55°	3553.5	3531.6	3357.3	3363.4	3609.5	3733.9	3904.8	4141.4	4375.2	4358.1	3533.6
57.5°	3666.3	3649.2	3520.6	3606.1	3953.4	4114.0	4311.6	4501.6	4600.8	4498.2	3623.9
60°	3781.8	3787.3	3718.9	3900.1	4378.6	4556.3	4728.6	4775.8	4794.2	4640.4	3718.9
62.5°	3869.3	3892.5	3898.7	4217.3	4814.7	4966.5	5041.0	5007.5	5003.4	4831.1	3711.4
65°	3969.8	4030.6	4131.8	4565.2	5211.2	5311.0	5364.4	5412.9	5310.4	4887.9	3346.3
67.5°	4143.4	4239.1	4466.8	4991.8	5669.3	5816.9	5968.0	5916.7	5356.2	4311.6	2549.2
70°	4377.2	4494.1	4896.1	5548.9	6290.7	6538.1	6664.6	5876.4	4547.4	2979.2	1344.7
72°	4229.6	4335.5	5028.7	5833.3	6730.9	6957.9	6641.4	5125.8	3296.4	1544.3	450.5
72.5°	4086.0	4195.4	4986.3	5829.9	6774.7	6948.3	6490.3	4829.8	2917.0	1201.8	310.4
75°	2835.0	2973.1	4274.7	5240.6	6117.7	5927.0	4965.8	2924.5	1056.9	206.5	102.5
77.5°	1465.7	1572.3	2593.0	3703.2	4263.7	3904.8	2934.8	1268.8	292.6	109.4	67.7
80°	908.5	961.2	1212.7	1824.6	2214.9	1937.4	1294.8	512.7	187.3	64.9	54.0
82.5°	470.3	510.7	763.6	736.3	818.3	680.2	477.9	429.3	115.5	40.3	55.4
85°	154.5	164.1	469.0	489.5	350.0	235.2	211.9	409.5	33.5	26.0	47.2
87.5°	20.5	23.9	164.8	280.3	172.3	106.6	127.2	144.2	11.6	14.4	13.0
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°	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9	1391.9
2.5°	1364.5	1355.6	1327.6	1299.6	1267.4	1238.0	1214.8	1199.8	1206.6	1184.0	1187.4
5°	1325.5	1303.0	1241.5	1175.1	1103.4	1036.4	983.0	943.4	935.9	901.7	903.1
7.5°	1287.9	1251.0	1151.2	1041.8	922.9	826.5	739.0	662.4	635.1	607.1	590.6
10°	1267.4	1216.8	1075.3	916.1	748.6	607.1	484.0	387.6	347.3	317.9	303.5
12.5°	1273.6	1206.6	1018.6	801.9	581.8	402.0	273.4	203.0	178.4	164.8	160.0
15°	1294.1	1208.6	967.3	690.5	423.2	243.4	160.7	137.4	135.4	134.7	134.0
17.5°	1313.2	1210.7	913.3	574.2	283.0	155.2	129.2	127.2	127.2	127.2	127.2
20°	1333.1	1211.4	853.8	452.6	185.9	127.2	121.7	120.3	121.7	121.7	121.7
22.5°	1356.3	1216.2	796.4	334.3	137.4	119.6	116.2	115.5	116.2	116.2	115.5
25°	1385.0	1226.4	734.2	239.3	124.4	114.8	111.4	110.7	111.4	110.7	110.7
27.5°	1423.3	1240.1	661.7	171.6	118.9	110.1	106.6	106.6	106.6	106.0	106.0
30°	1472.5	1256.5	564.7	135.4	113.5	105.3	102.5	102.5	101.9	101.2	101.2
32.5°	1542.9	1283.2	458.7	122.4	107.3	99.1	96.4	97.1	96.4	95.7	95.0
35°	1642.7	1324.9	354.1	115.5	101.2	93.0	90.2	90.2	90.2	88.9	88.9
37.5°	1784.2	1388.4	265.2	108.7	95.0	86.8	83.4	83.4	82.7	81.4	82.0
40°	1959.3	1468.4	192.1	102.5	88.9	80.0	77.2	75.9	74.5	73.1	73.1
42.5°	2169.8	1546.3	144.2	96.4	82.7	74.5	71.1	69.7	67.0	65.6	64.9
45°	2405.7	1629.1	119.6	88.9	75.9	68.4	65.6	62.9	59.5	57.4	56.7
47.5°	2604.6	1679.7	106.6	81.4	69.0	62.2	59.5	55.4	51.3	49.9	49.9
50°	2724.2	1658.5	95.7	73.8	62.2	56.1	52.6	47.2	44.4	43.1	42.4
52.5°	2791.2	1595.6	86.8	67.7	56.1	49.2	44.4	39.6	38.3	36.9	36.9
55°	2837.0	1504.6	77.2	61.5	50.6	43.1	37.6	34.2	32.8	32.1	31.4
57.5°	2880.8	1393.9	68.4	56.1	45.1	38.3	32.1	30.8	28.0	27.3	27.3
60°	2893.8	1241.5	60.2	49.9	40.3	33.5	28.0	26.0	23.2	22.6	22.6
62.5°	2728.3	987.8	53.3	42.4	35.5	28.7	24.6	21.9	19.1	19.1	19.1
65°	2279.9	670.6	45.8	36.9	31.4	24.6	21.2	17.8	16.4	16.4	16.4
67.5°	1588.1	373.9	39.0	31.4	26.7	20.5	17.8	15.0	14.4	15.0	15.0
70°	715.8	148.3	32.8	26.0	21.9	17.1	15.0	13.0	14.4	14.4	14.4
72°	214.7	79.3	27.3	21.2	17.8	15.0	13.0	12.3	13.7	14.4	14.4
72.5°	159.3	71.1	26.0	20.5	17.8	14.4	12.3	12.3	13.7	14.4	14.4
75°	82.0	48.5	19.8	15.0	13.0	11.6	10.3	11.6	13.7	13.7	13.7
77.5°	64.3	39.6	16.4	11.6	10.9	10.3	9.6	10.9	12.3	12.3	12.3
80°	60.2	26.0	13.0	10.9	9.6	8.9	8.9	9.6	10.9	11.6	11.6
82.5°	60.8	21.2	11.6	10.3	8.9	8.2	8.2	8.9	10.3	10.9	10.9
85°	39.0	14.4	10.3	8.9	8.2	7.5	7.5	8.2	9.6	10.3	10.3
87.5°	13.0	10.9	8.9	8.2	6.8	6.8	6.8	6.8	8.2	8.9	9.6
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)