

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: P271327

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271327  
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-SL4-7027-1200-HSS  
Description: XNV2 ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA 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: 9362.4 lumens  
Efficiency: N/A  
Efficacy: 73.1 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): 128  
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

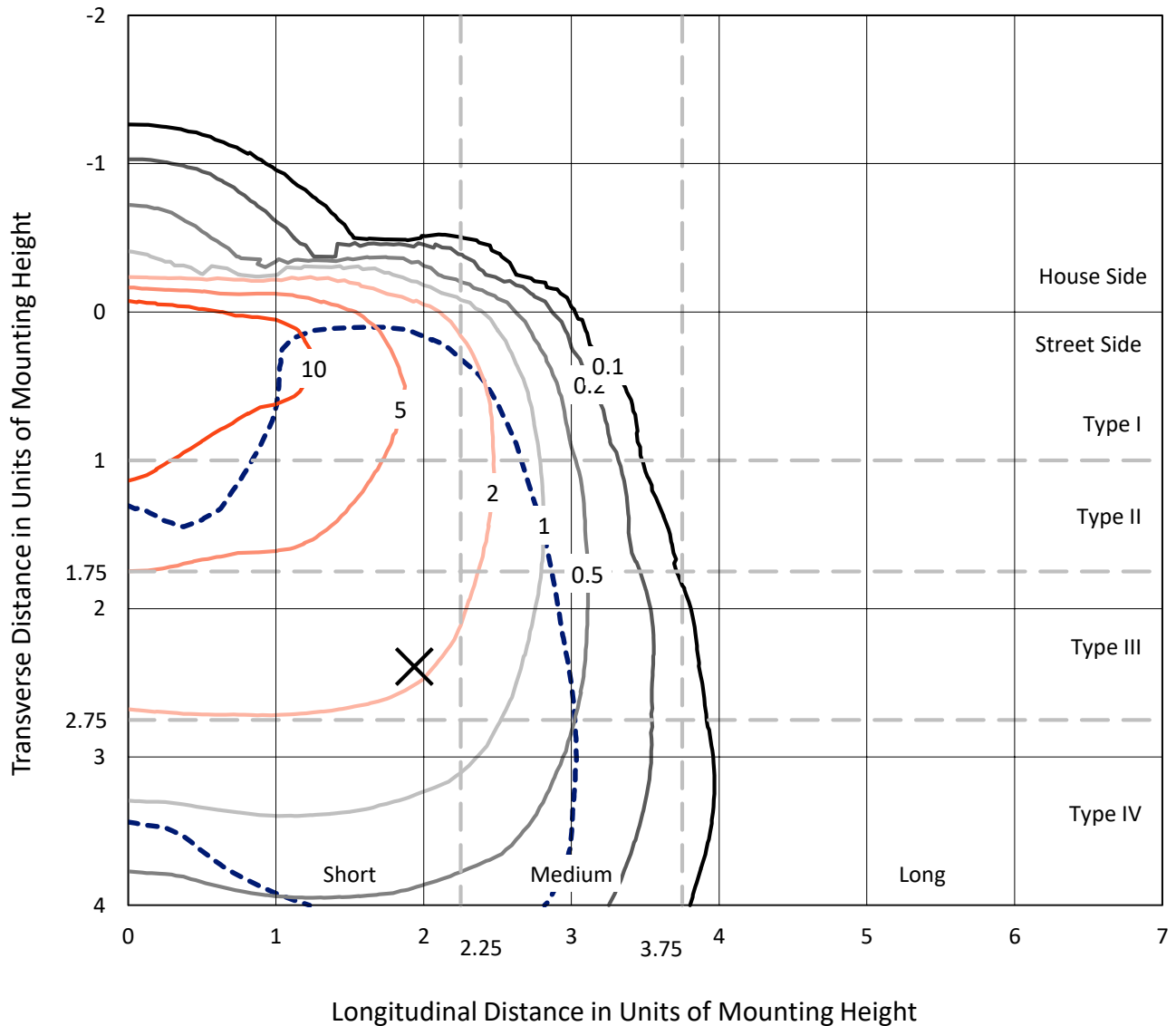


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

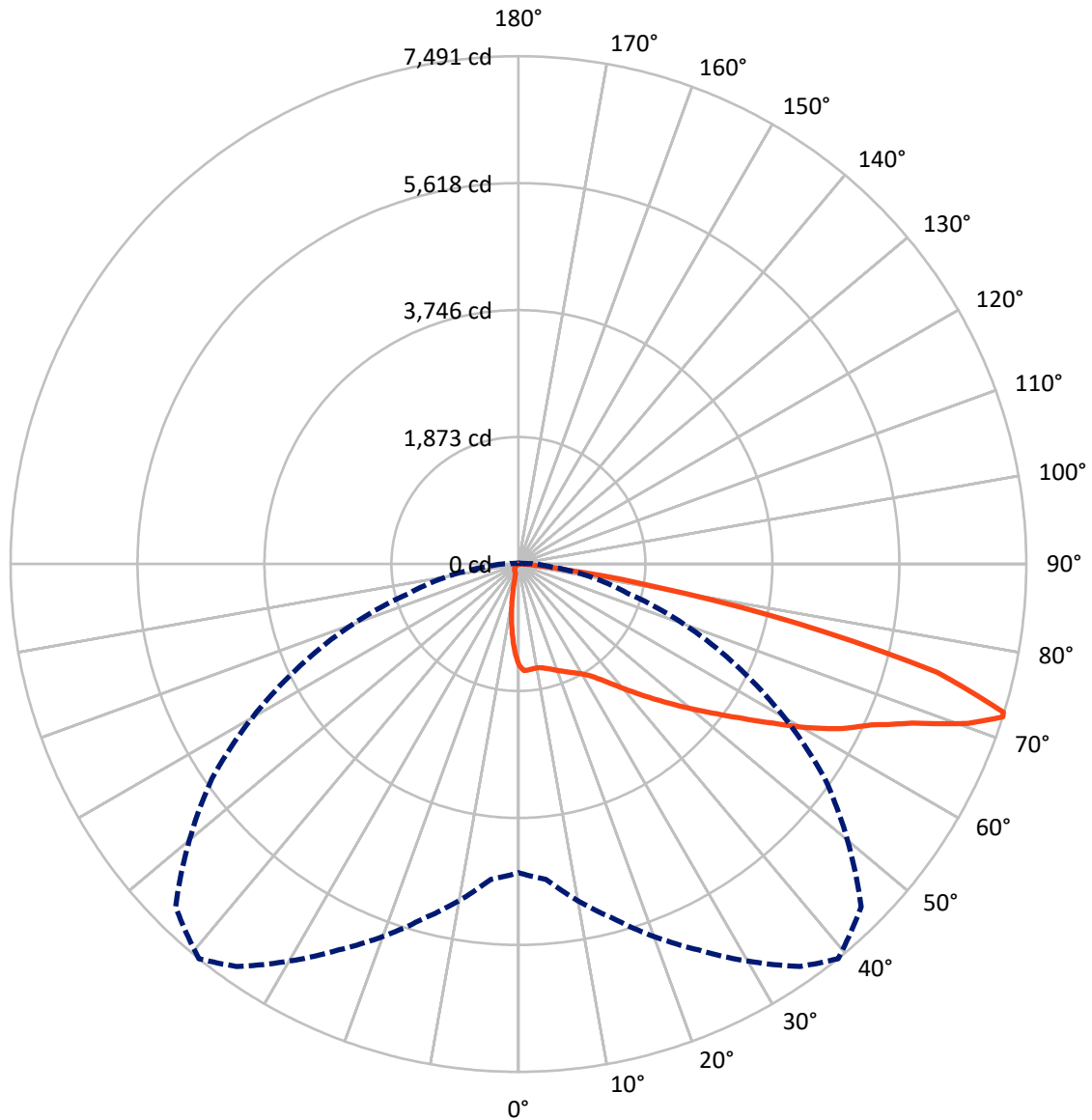


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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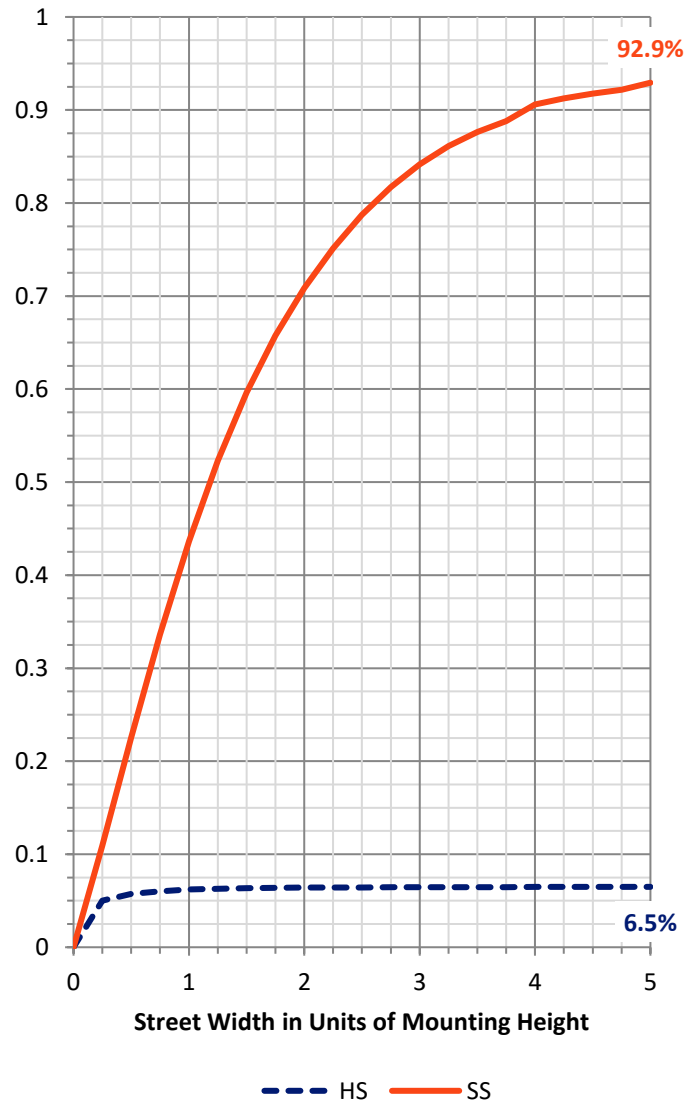
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	613.6	0.0	613.6
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	8748.8	0.0	8748.8
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	9362.4	0.0	9362.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.9	1.3
10°-20°	295.1	3.2
20°-30°	490.1	5.2
30°-40°	781.1	8.3
40°-50°	1289.3	13.8
50°-60°	1947.1	20.8
60°-70°	2536.4	27.1
70°-80°	1713.8	18.3
80°-90°	187.7	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°	9362.4	100.0
0°-180°	9362.4	100.0

**Coefficient of Utilization**



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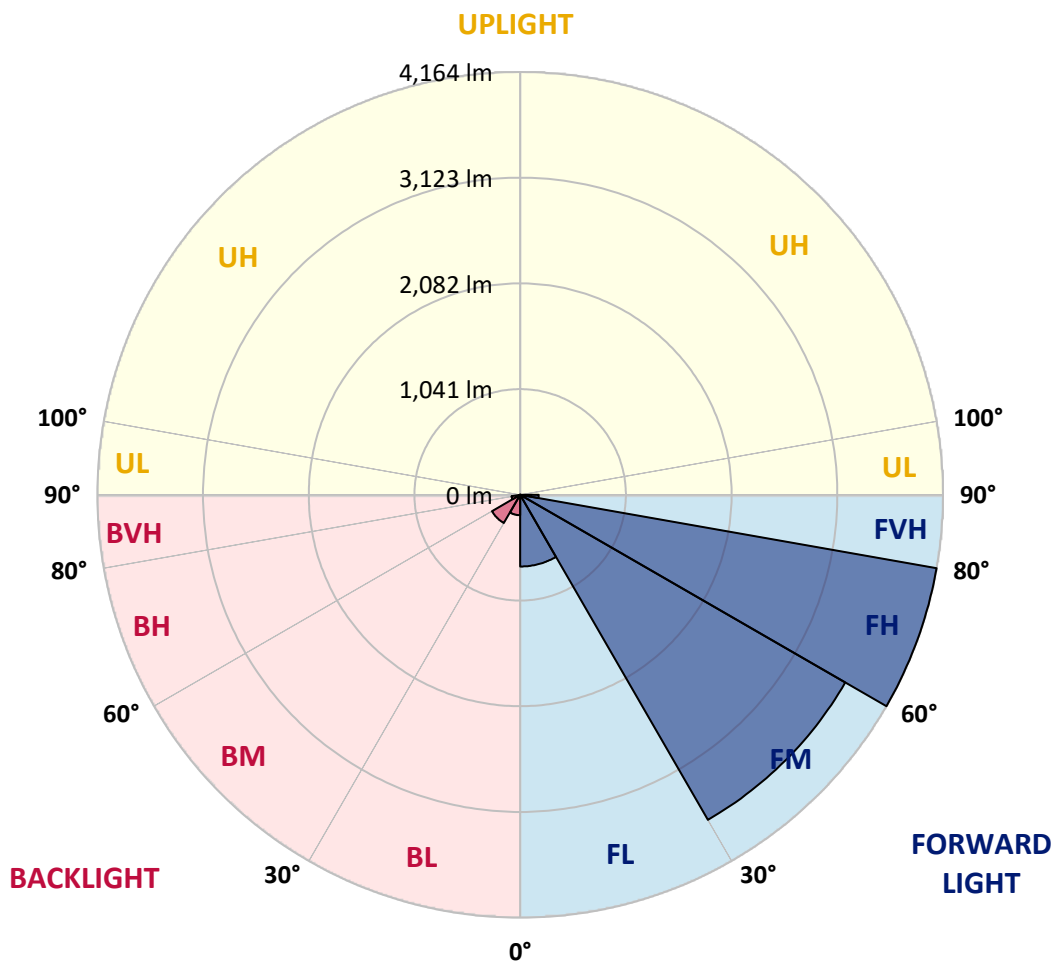
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	706.1	7.5			
FM (30°-60°)	3696.4	39.5			
FH (60°-80°)	4164.0	44.5			G2/5000
FVH (80°-90°)	182.3	1.9			G2/225
BL (0°-30°)	200.9	2.1	B1/500		
BM (30°-60°)	321.0	3.4	B1/1000		
BH (60°-80°)	86.2	0.9	B0/110		G0/110
BVH (80°-90°)	5.4	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°	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6
2.5°	1595.7	1598.7	1594.9	1588.4	1578.7	1572.8	1564.8	1547.2	1525.1	1505.9	1483.8
5°	1608.1	1609.7	1605.2	1592.8	1578.1	1569.9	1559.5	1540.5	1517.6	1491.1	1451.4
7.5°	1611.9	1611.1	1606.0	1590.4	1567.7	1557.4	1539.8	1516.2	1492.7	1468.3	1423.5
10°	1610.4	1610.4	1606.7	1591.9	1566.3	1556.7	1536.8	1511.8	1482.4	1457.9	1410.2
12.5°	1605.2	1608.1	1606.0	1597.8	1578.7	1571.3	1553.7	1528.6	1500.7	1475.6	1424.9
15°	1611.9	1616.3	1620.7	1617.8	1606.7	1600.2	1583.9	1558.1	1535.4	1508.9	1454.4
17.5°	1638.4	1647.9	1658.2	1659.0	1647.2	1635.5	1616.9	1590.4	1568.4	1544.1	1485.3
20°	1688.5	1695.7	1714.9	1718.5	1695.0	1678.2	1652.3	1621.4	1599.3	1578.7	1514.0
22.5°	1762.7	1770.7	1786.3	1781.1	1741.4	1721.5	1689.2	1653.8	1631.1	1619.3	1547.2
25°	1875.3	1877.5	1881.2	1858.5	1792.8	1770.7	1731.0	1691.4	1673.0	1671.4	1594.2
27.5°	2007.8	2010.8	1994.5	1943.8	1850.2	1821.7	1776.7	1740.6	1731.8	1742.8	1653.8
30°	2159.4	2160.2	2115.2	2032.9	1916.5	1885.0	1838.6	1798.8	1806.9	1834.1	1730.3
32.5°	2314.8	2307.3	2245.6	2138.1	2007.2	1968.8	1929.1	1889.3	1912.9	1968.0	1842.2
35°	2456.8	2453.8	2381.0	2255.9	2124.9	2091.0	2062.2	2020.4	2058.6	2148.3	1994.5
37.5°	2598.8	2596.6	2513.5	2383.2	2269.8	2245.6	2224.3	2191.9	2254.3	2386.1	2198.4
40°	2755.6	2751.9	2649.6	2524.4	2438.4	2425.2	2412.6	2398.7	2505.4	2688.6	2452.4
42.5°	2949.1	2933.0	2793.9	2678.3	2623.9	2627.5	2628.4	2642.3	2809.3	3048.5	2751.9
45°	3171.5	3135.4	2938.8	2843.1	2827.8	2849.9	2871.9	2930.0	3163.3	3462.8	3083.2
47.5°	3387.1	3328.9	3105.9	3020.6	3052.3	3097.9	3150.9	3264.3	3560.8	3896.4	3383.5
50°	3572.6	3512.9	3271.5	3200.9	3301.7	3369.5	3463.7	3635.1	3980.3	4262.9	3572.6
52.5°	3718.4	3671.3	3446.6	3399.5	3578.5	3671.3	3819.1	4044.3	4376.4	4504.3	3705.1
55°	3825.7	3802.2	3614.5	3621.2	3886.1	4020.1	4204.1	4458.6	4710.4	4692.0	3804.4
57.5°	3947.2	3928.7	3790.4	3882.5	4256.3	4429.3	4642.0	4846.5	4953.3	4842.9	3901.6
60°	4071.6	4077.4	4003.8	4198.9	4714.1	4905.5	5091.0	5141.7	5161.7	4996.1	4003.8
62.5°	4165.8	4190.9	4197.4	4540.5	5183.7	5347.2	5427.3	5391.3	5386.9	5201.4	3995.8
65°	4274.0	4339.5	4448.3	4915.0	5610.5	5718.0	5775.5	5827.7	5717.4	5262.5	3602.7
67.5°	4461.0	4564.0	4809.0	5374.3	6103.7	6262.7	6425.3	6370.2	5766.6	4642.0	2744.5
70°	4712.7	4838.5	5271.3	5974.2	6772.7	7039.2	7175.3	6326.8	4895.9	3207.5	1447.7
72°	4553.7	4667.8	5414.1	6280.3	7246.6	7491.1	7150.2	5518.6	3549.1	1662.7	485.1
72.5°	4399.1	4516.9	5368.5	6276.6	7293.8	7480.7	6987.6	5199.8	3140.6	1293.9	334.2
75°	3052.3	3200.9	4602.2	5642.3	6586.6	6381.2	5346.4	3148.6	1137.9	222.3	110.4
77.5°	1578.1	1692.8	2791.7	3986.9	4590.5	4204.1	3159.7	1366.1	315.0	117.8	72.9
80°	978.2	1034.8	1305.6	1964.5	2384.6	2085.9	1394.0	552.0	201.7	69.9	58.1
82.5°	506.4	549.9	822.0	792.7	881.0	732.3	514.5	462.2	124.3	43.4	59.6
85°	166.4	176.6	504.8	526.9	376.7	253.2	228.2	440.9	36.0	27.9	50.8
87.5°	22.1	25.7	177.3	301.8	185.5	114.9	136.9	155.2	12.4	15.5	14.0
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°	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6	1498.6
2.5°	1469.1	1459.4	1429.4	1399.1	1364.5	1332.9	1307.9	1291.8	1299.0	1274.8	1278.5
5°	1427.0	1402.9	1336.6	1265.3	1187.9	1115.8	1058.4	1015.7	1007.5	970.8	972.2
7.5°	1386.7	1346.9	1239.4	1121.7	993.6	889.9	795.5	713.2	683.7	653.5	635.9
10°	1364.5	1310.1	1157.7	986.2	805.9	653.5	521.0	417.4	373.9	342.3	326.9
12.5°	1371.2	1299.0	1096.7	863.4	626.4	432.8	294.5	218.6	192.1	177.3	172.2
15°	1393.2	1301.3	1041.5	743.3	455.6	262.0	173.0	148.0	145.7	144.9	144.3
17.5°	1413.8	1303.5	983.4	618.3	304.7	167.1	139.1	136.9	136.9	136.9	136.9
20°	1435.2	1304.2	919.2	487.2	200.2	136.9	131.1	129.5	131.1	131.1	131.1
22.5°	1460.3	1309.4	857.4	360.0	148.0	128.7	125.1	124.3	125.1	125.1	124.3
25°	1491.1	1320.4	790.5	257.6	133.9	123.6	120.0	119.3	120.0	119.3	119.3
27.5°	1532.4	1335.2	712.4	184.7	128.1	118.4	114.9	114.9	114.9	114.1	114.1
30°	1585.4	1352.8	608.0	145.7	122.2	113.4	110.4	110.4	109.7	109.0	109.0
32.5°	1661.1	1381.5	493.9	131.7	115.5	106.7	103.8	104.6	103.8	103.0	102.2
35°	1768.7	1426.4	381.2	124.3	109.0	100.2	97.1	97.1	97.1	95.7	95.7
37.5°	1920.9	1494.8	285.7	117.0	102.2	93.5	89.8	89.8	89.0	87.6	88.4
40°	2109.4	1580.9	206.8	110.4	95.7	86.1	83.2	81.7	80.2	78.7	78.7
42.5°	2336.1	1664.9	155.2	103.8	89.0	80.2	76.5	75.1	72.1	70.6	69.9
45°	2590.1	1753.9	128.7	95.7	81.7	73.7	70.6	67.7	64.0	61.9	61.1
47.5°	2804.1	1808.4	114.9	87.6	74.3	67.0	64.0	59.6	55.2	53.7	53.7
50°	2933.0	1785.6	103.0	79.5	67.0	60.4	56.7	50.8	47.8	46.4	45.6
52.5°	3005.1	1717.7	93.5	72.9	60.4	53.0	47.8	42.7	41.2	39.7	39.7
55°	3054.3	1620.0	83.2	66.3	54.4	46.4	40.5	36.8	35.4	34.6	33.9
57.5°	3101.5	1500.7	73.7	60.4	48.6	41.2	34.6	33.1	30.2	29.5	29.5
60°	3115.5	1336.6	64.8	53.7	43.4	36.0	30.2	27.9	25.1	24.3	24.3
62.5°	2937.4	1063.6	57.4	45.6	38.3	30.9	26.5	23.5	20.7	20.7	20.7
65°	2454.6	722.0	49.2	39.7	33.9	26.5	22.7	19.1	17.6	17.6	17.6
67.5°	1709.7	402.6	42.0	33.9	28.7	22.1	19.1	16.2	15.5	16.2	16.2
70°	770.6	159.7	35.4	27.9	23.5	18.3	16.2	14.0	15.5	15.5	15.5
72°	231.1	85.3	29.5	22.7	19.1	16.2	14.0	13.2	14.7	15.5	15.5
72.5°	171.4	76.5	27.9	22.1	19.1	15.5	13.2	13.2	14.7	15.5	15.5
75°	88.4	52.2	21.3	16.2	14.0	12.4	11.0	12.4	14.7	14.7	14.7
77.5°	69.2	42.7	17.6	12.4	11.8	11.0	10.3	11.8	13.2	13.2	13.2
80°	64.8	27.9	14.0	11.8	10.3	9.5	9.5	10.3	11.8	12.4	12.4
82.5°	65.4	22.7	12.4	11.0	9.5	8.9	8.9	9.5	11.0	11.8	11.8
85°	42.0	15.5	11.0	9.5	8.9	8.1	8.1	8.9	10.3	11.0	11.0
87.5°	14.0	11.8	9.5	8.9	7.4	7.4	7.4	7.4	8.9	9.5	10.3
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)