

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: P835959

Luminaire Tested: **ARCH3-120-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

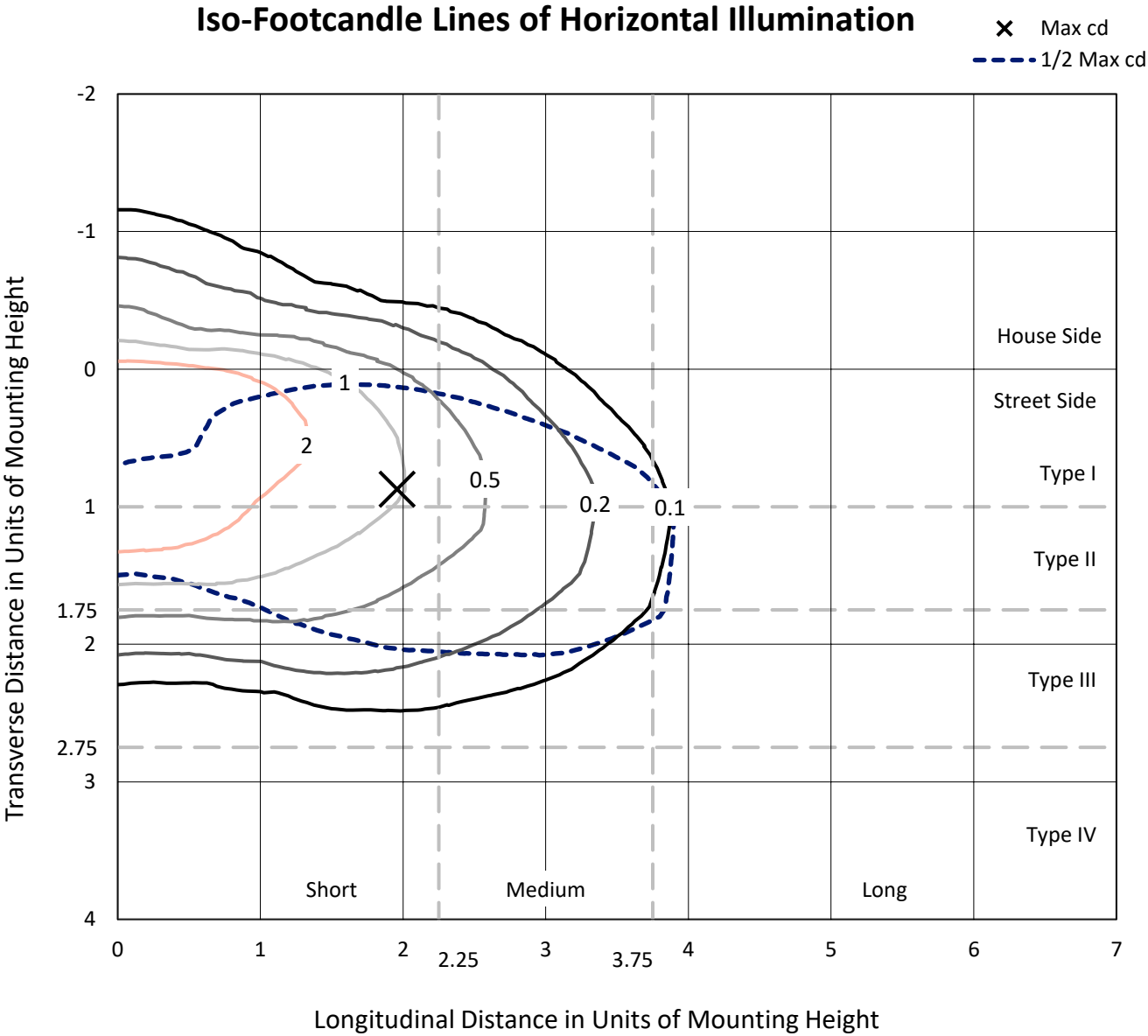
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12188 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.7
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: 24 FT



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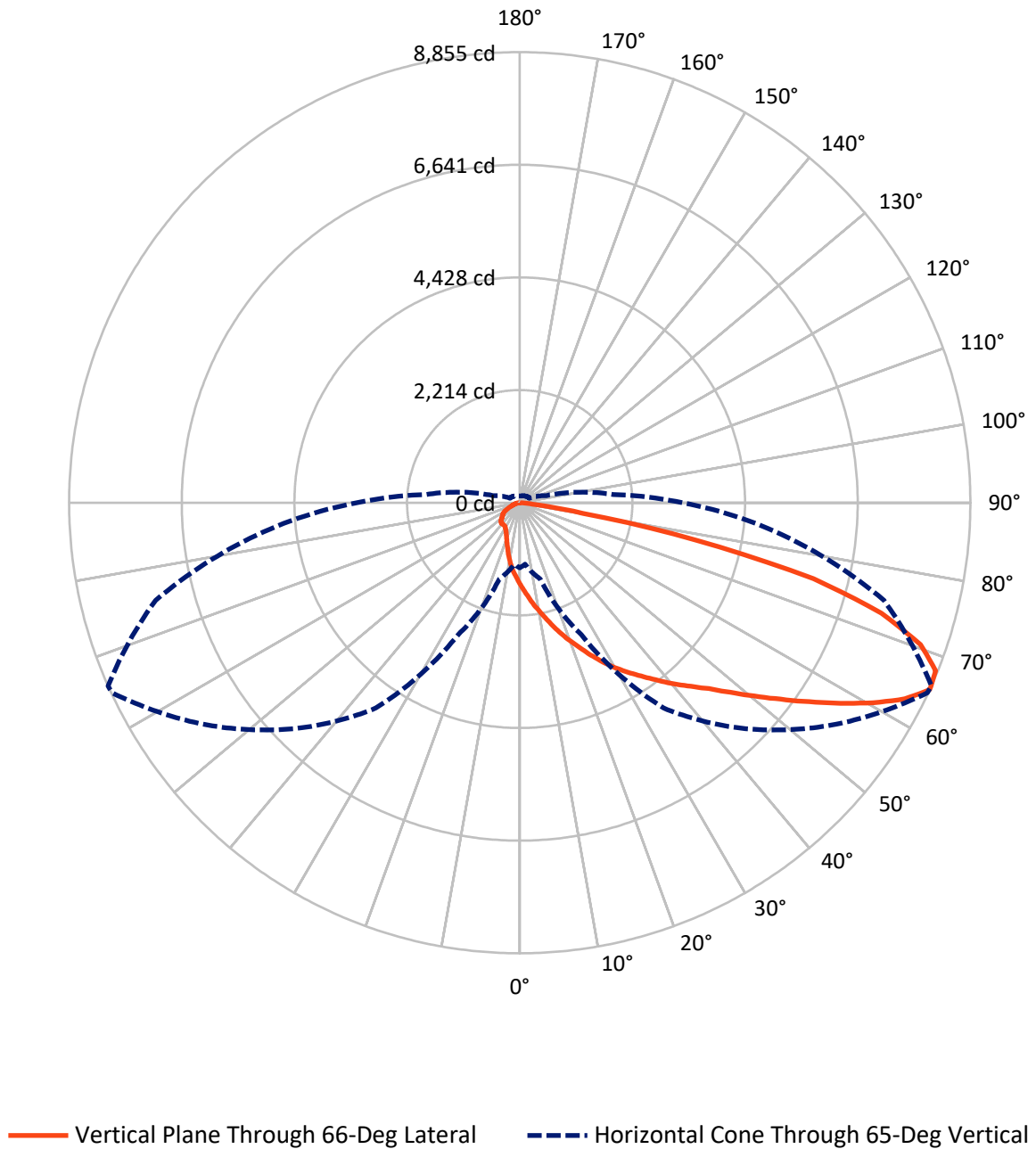


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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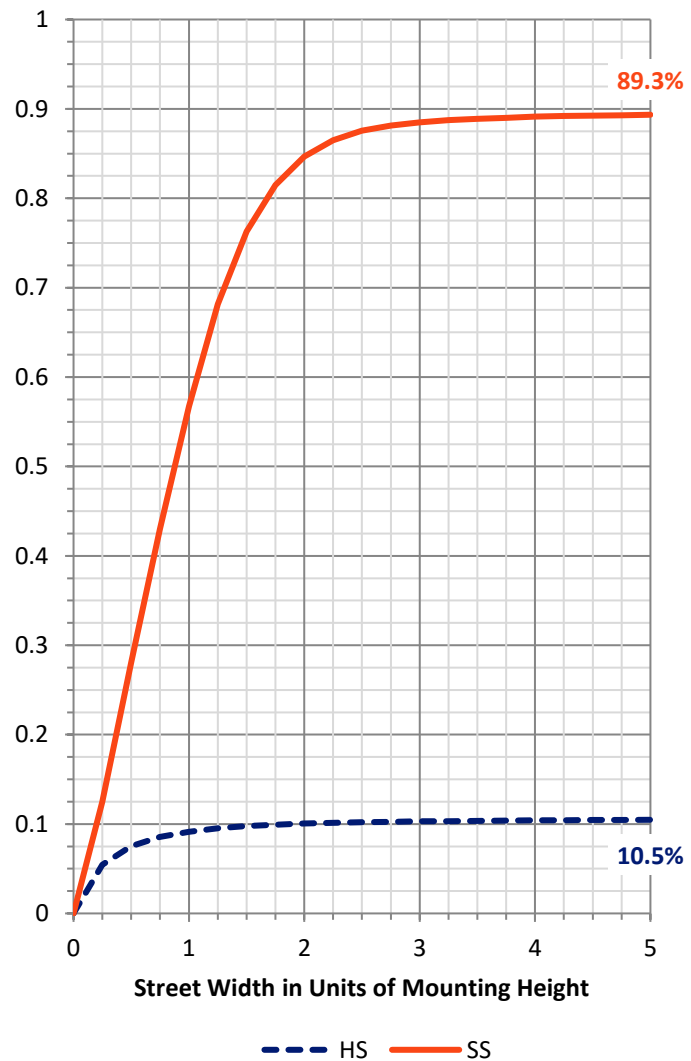
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1289.2	0.0	1289.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	10898.8	0.0	10898.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	12188.0	0.0	12188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	1.3
10°-20°	518.9	4.3
20°-30°	938.8	7.7
30°-40°	1468.1	12.0
40°-50°	2227.1	18.3
50°-60°	2829.6	23.2
60°-70°	2644.0	21.7
70°-80°	1314.0	10.8
80°-90°	88.3	0.7
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°	12188.0	100.0
0°-180°	12188.0	100.0

Coefficient of Utilization



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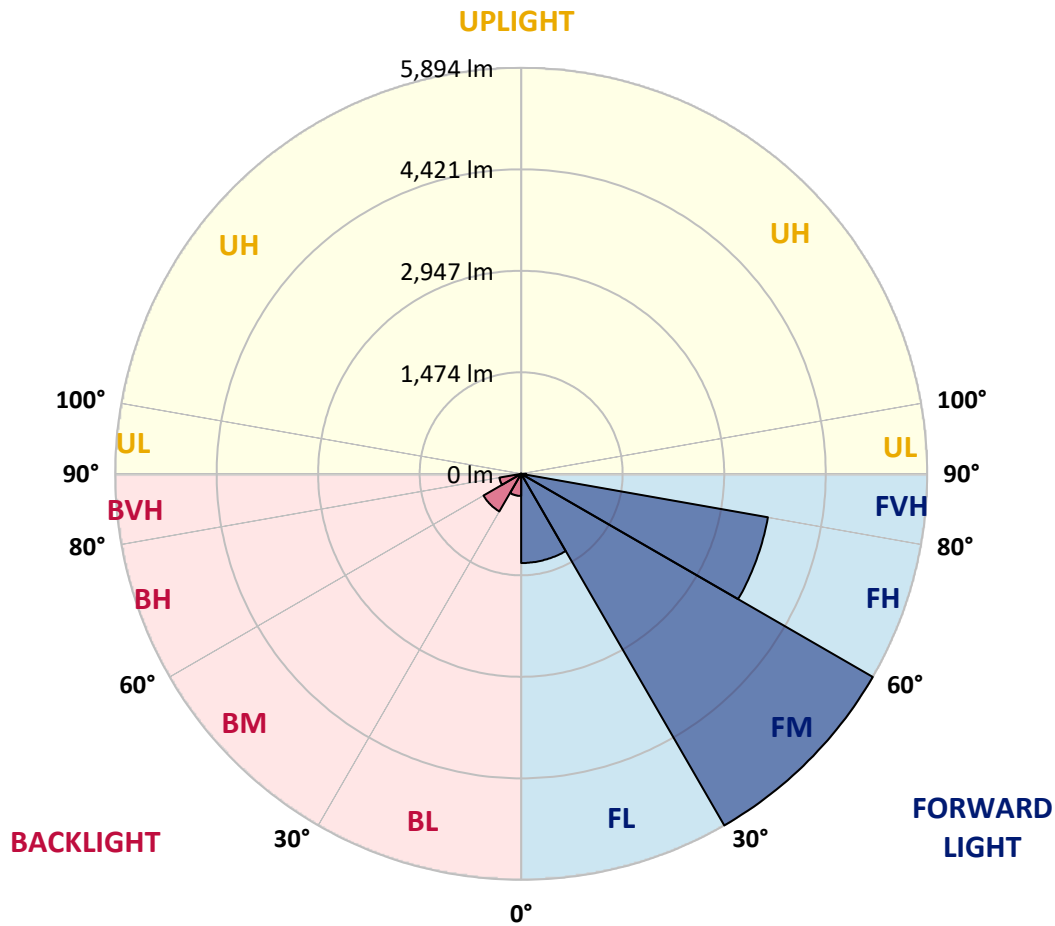
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1295.0	10.6			
FM	(30°-60°)	5894.2	48.4			
FH	(60°-80°)	3637.0	29.8			G2/5000
FVH	(80°-90°)	72.7	0.6			G1/100
BL	(0°-30°)	322.0	2.6	B1/500		
BM	(30°-60°)	630.5	5.2	B1/1000		
BH	(60°-80°)	321.0	2.6	B1/500		G1/500
BVH	(80°-90°)	15.6	0.1			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
2.5°	1884.0	1899.3	1907.0	1909.5	1850.7	1825.2	1799.6	1740.8	1728.0	1694.8	1651.4
5°	2216.3	2236.7	2231.6	2221.4	2149.8	2068.0	2001.6	1891.6	1873.8	1794.5	1697.4
7.5°	2543.5	2561.4	2556.3	2517.9	2438.7	2323.7	2213.7	2052.7	2027.1	1899.3	1743.4
10°	2817.0	2832.4	2829.8	2791.5	2696.9	2556.3	2423.4	2208.6	2178.0	1996.5	1781.7
12.5°	3042.0	3062.4	3059.9	3034.3	2950.0	2796.6	2645.8	2387.6	2349.2	2114.0	1835.4
15°	3218.4	3243.9	3243.9	3233.7	3174.9	3047.1	2875.8	2584.4	2538.4	2249.5	1901.9
17.5°	3325.7	3346.2	3364.1	3382.0	3341.1	3243.9	3088.0	2781.2	2732.7	2382.5	1970.9
20°	3382.0	3402.4	3415.2	3453.5	3461.2	3412.6	3289.9	2975.5	2924.4	2533.3	2050.1
22.5°	3474.0	3491.9	3494.4	3527.7	3543.0	3555.8	3479.1	3167.2	3126.3	2699.4	2139.6
25°	3627.4	3647.8	3640.1	3655.5	3658.0	3673.4	3665.7	3387.1	3346.2	2888.6	2247.0
27.5°	3824.2	3849.8	3844.7	3829.3	3806.3	3793.5	3826.8	3609.5	3571.1	3077.8	2356.9
30°	4036.4	4067.0	4059.4	4028.7	3967.4	3913.7	3959.7	3819.1	3783.3	3272.0	2479.6
32.5°	4251.1	4286.9	4284.3	4233.2	4128.4	4036.4	4105.4	4015.9	3990.4	3481.7	2612.5
35°	4391.7	4437.7	4432.6	4401.9	4266.4	4187.2	4271.5	4217.9	4200.0	3737.3	2804.2
37.5°	4619.2	4667.8	4624.3	4547.6	4391.7	4350.8	4453.0	4445.4	4432.6	4008.3	3006.2
40°	5171.4	5242.9	5127.9	4813.5	4557.9	4522.1	4667.8	4698.4	4685.7	4276.7	3187.7
42.5°	5749.1	5856.4	5677.5	5242.9	4859.5	4729.1	4903.0	4946.4	4931.1	4506.7	3351.3
45°	6099.3	6145.3	5966.4	5628.9	5393.8	4979.6	5153.5	5225.0	5212.3	4782.8	3560.9
47.5°	6385.6	6367.7	6163.2	5935.7	5979.1	5332.4	5437.2	5577.8	5567.6	5087.0	3791.0
50°	6446.9	6406.0	6324.2	6181.1	6296.1	5690.3	5736.3	5979.1	5968.9	5424.4	4023.6
52.5°	6014.9	5961.3	6183.6	6303.8	6265.5	5951.0	6066.1	6418.8	6413.7	5790.0	4246.0
55°	4936.2	4892.7	5490.9	6112.1	6232.2	6135.1	6431.6	6876.4	6904.5	6178.5	4447.9
57.5°	3883.0	3837.0	4424.9	5631.5	6109.5	6303.8	6858.5	7400.4	7436.2	6600.3	4639.7
60°	3095.7	3026.6	3476.5	4874.8	5879.5	6434.2	7270.1	7975.6	7980.7	6986.3	4757.2
62.5°	2103.8	2027.1	2525.6	3916.2	5493.5	6454.6	7587.0	8471.5	8492.0	7275.2	4777.7
65°	1278.1	1214.2	1551.7	2860.5	4923.4	6280.8	7592.2	8837.1	8855.0	7408.1	4655.0
67.5°	741.3	715.8	887.0	1781.7	3977.6	5813.0	7272.6	8780.8	8814.1	7351.9	4376.4
70°	432.0	429.5	493.4	881.9	2806.8	4885.1	6559.4	8307.9	8356.5	7057.9	3949.5
72.5°	317.0	322.1	347.7	472.9	1625.8	3517.4	5554.8	7357.0	7431.1	6482.7	3341.1
75°	250.5	253.1	276.1	322.1	853.8	1988.8	4161.6	5905.0	5963.8	5457.7	2610.0
77.5°	186.6	191.7	209.6	227.5	396.2	912.6	2341.6	3637.6	3540.5	2996.0	1260.2
80°	135.5	148.3	155.9	163.6	209.6	352.8	703.0	1267.9	1257.7	1308.8	595.6
82.5°	86.9	97.1	104.8	109.9	125.3	168.7	209.6	283.7	306.8	508.7	237.7
85°	38.3	43.5	48.6	58.8	53.7	58.8	86.9	56.2	48.6	76.7	43.5
87.5°	0.0	0.0	7.7	12.8	10.2	5.1	15.3	10.2	7.7	7.7	7.7
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°	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0	1613.0
2.5°	1628.4	1600.2	1541.4	1485.2	1452.0	1408.5	1370.2	1334.4	1331.8	1321.6	1303.7
5°	1648.8	1595.1	1485.2	1380.4	1301.1	1216.8	1145.2	1089.0	1068.5	1053.2	1032.7
7.5°	1669.3	1584.9	1421.3	1267.9	1142.7	1025.1	940.7	864.0	841.0	820.6	807.8
10°	1676.9	1567.0	1347.2	1142.7	979.1	853.8	764.3	708.1	687.6	677.4	669.7
12.5°	1699.9	1556.8	1278.1	1025.1	835.9	720.9	657.0	623.7	616.1	608.4	600.7
15°	1730.6	1556.8	1209.1	910.0	723.4	631.4	593.1	570.1	564.9	562.4	557.3
17.5°	1763.8	1556.8	1142.7	812.9	641.6	572.6	544.5	531.7	529.2	526.6	524.0
20°	1809.8	1559.3	1071.1	728.5	582.8	529.2	506.1	490.8	488.3	485.7	485.7
22.5°	1855.9	1564.4	1002.1	664.6	544.5	495.9	467.8	452.5	447.3	447.3	447.3
25°	1914.7	1579.8	938.2	611.0	511.3	465.2	429.5	416.7	414.1	414.1	411.6
27.5°	1983.7	1597.7	881.9	570.1	478.0	429.5	393.7	380.9	375.8	375.8	373.2
30°	2057.8	1615.6	835.9	539.4	444.8	393.7	360.4	345.1	340.0	342.5	340.0
32.5°	2139.6	1641.1	800.1	518.9	414.1	363.0	332.3	314.4	311.9	311.9	309.3
35°	2277.6	1712.7	795.0	508.7	388.6	340.0	309.3	291.4	288.9	288.9	286.3
37.5°	2425.9	1794.5	818.0	503.6	368.1	319.5	291.4	273.5	271.0	271.0	271.0
40°	2551.2	1855.9	843.6	503.6	355.3	301.6	276.1	260.7	260.7	260.7	260.7
42.5°	2635.5	1861.0	838.5	503.6	345.1	288.9	265.9	250.5	250.5	253.1	250.5
45°	2760.8	1886.5	818.0	495.9	337.4	278.6	255.6	242.8	240.3	242.8	242.8
47.5°	2909.1	1932.6	797.6	465.2	334.9	268.4	248.0	232.6	230.1	232.6	230.1
50°	3049.6	1973.5	787.3	424.3	329.8	258.2	237.7	222.4	219.8	222.4	219.8
52.5°	3167.2	1991.3	769.4	396.2	317.0	248.0	227.5	212.2	207.1	209.6	209.6
55°	3261.8	1986.2	743.9	373.2	294.0	237.7	214.7	201.9	194.3	194.3	191.7
57.5°	3348.7	1988.8	720.9	350.2	268.4	222.4	204.5	189.2	178.9	176.4	173.8
60°	3382.0	1976.0	680.0	319.5	242.8	209.6	191.7	173.8	163.6	161.0	158.5
62.5°	3336.0	1930.0	626.3	265.9	219.8	194.3	178.9	161.0	150.8	148.3	145.7
65°	3205.6	1843.1	544.5	209.6	199.4	176.4	163.6	150.8	138.0	132.9	130.4
67.5°	2983.2	1717.8	442.2	168.7	176.4	161.0	153.4	138.0	122.7	117.6	115.0
70°	2666.2	1551.7	332.3	143.2	155.9	143.2	138.0	122.7	109.9	104.8	102.3
72.5°	2221.4	1283.3	232.6	122.7	135.5	125.3	120.1	109.9	97.1	89.5	89.5
75°	1679.5	920.3	153.4	104.8	112.5	107.4	99.7	92.0	84.4	79.2	76.7
77.5°	723.4	357.9	94.6	79.2	92.0	89.5	79.2	74.1	71.6	66.5	66.5
80°	311.9	145.7	58.8	58.8	66.5	63.9	61.4	56.2	56.2	53.7	51.1
82.5°	115.0	58.8	35.8	43.5	48.6	43.5	43.5	43.5	43.5	40.9	40.9
85°	28.1	17.9	17.9	25.6	28.1	25.6	28.1	25.6	25.6	25.6	23.0
87.5°	7.7	7.7	10.2	10.2	10.2	10.2	10.2	7.7	0.0	0.0	0.0
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)