

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: P836454

Luminaire Tested: **ARCH3-190-722-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836454
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: ARCH3-190-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

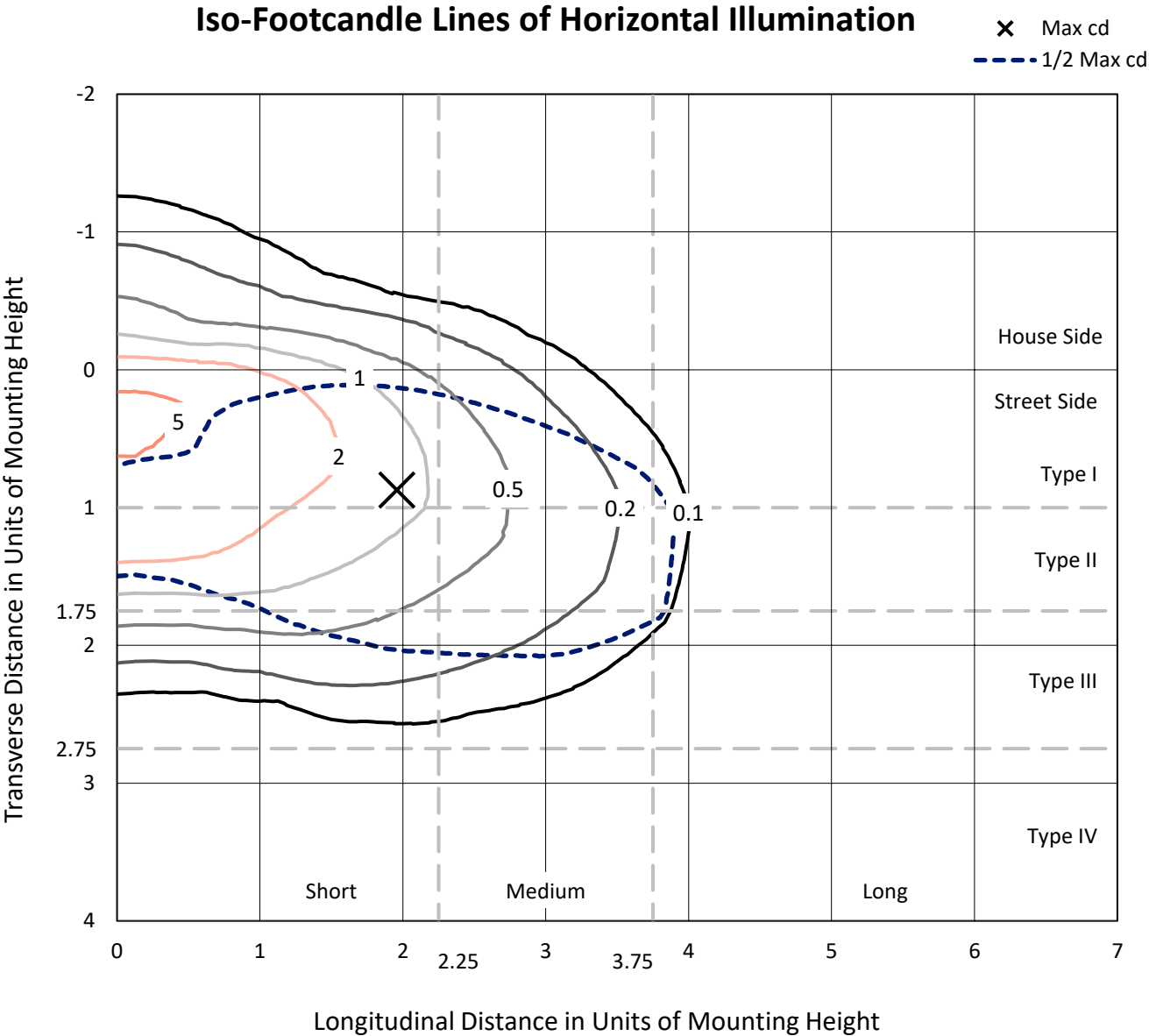
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14858 lumens
Efficiency: N/A
Efficacy: 78.4 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): 189.4
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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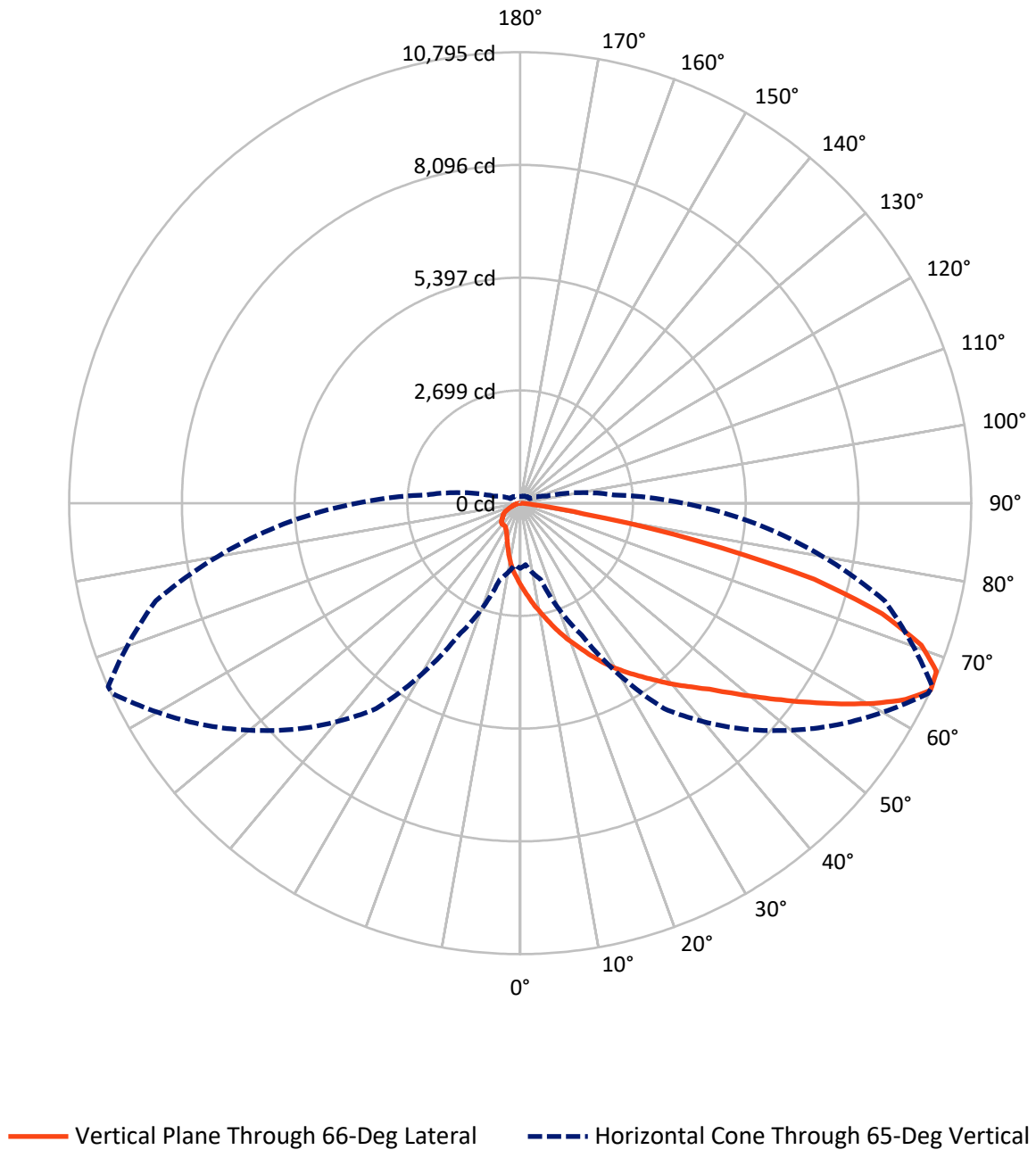


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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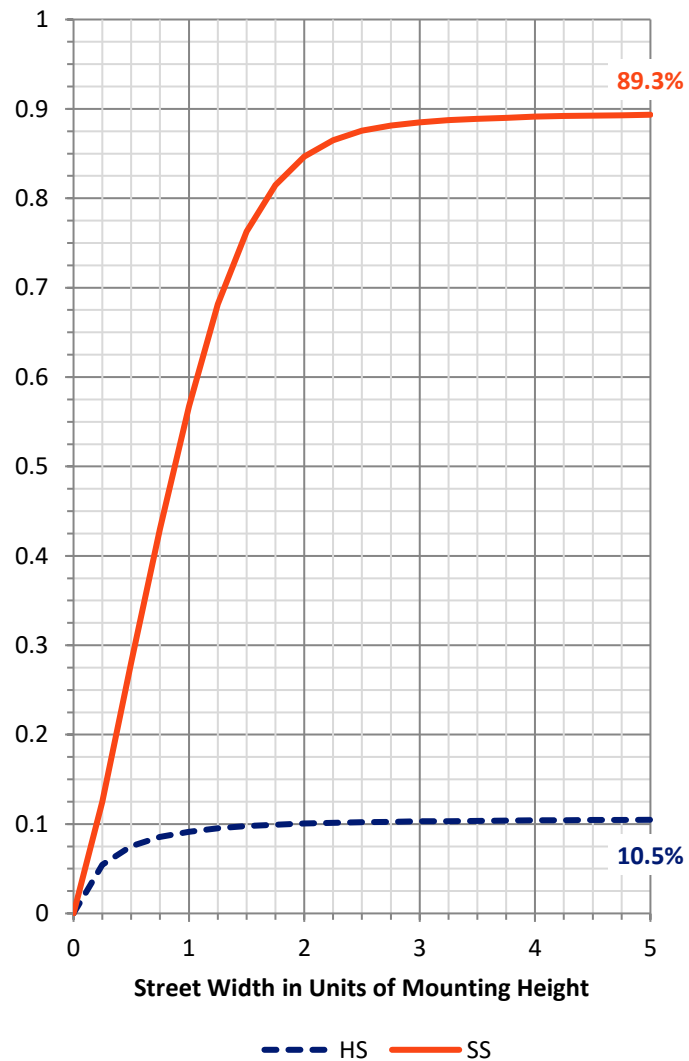
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.6	0.0	1571.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	13286.4	0.0	13286.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	14858.0	0.0	14858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	1.3
10°-20°	632.6	4.3
20°-30°	1144.5	7.7
30°-40°	1789.7	12.0
40°-50°	2715.0	18.3
50°-60°	3449.5	23.2
60°-70°	3223.2	21.7
70°-80°	1601.9	10.8
80°-90°	107.6	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°	14858.0	100.0
0°-180°	14858.0	100.0

Coefficient of Utilization



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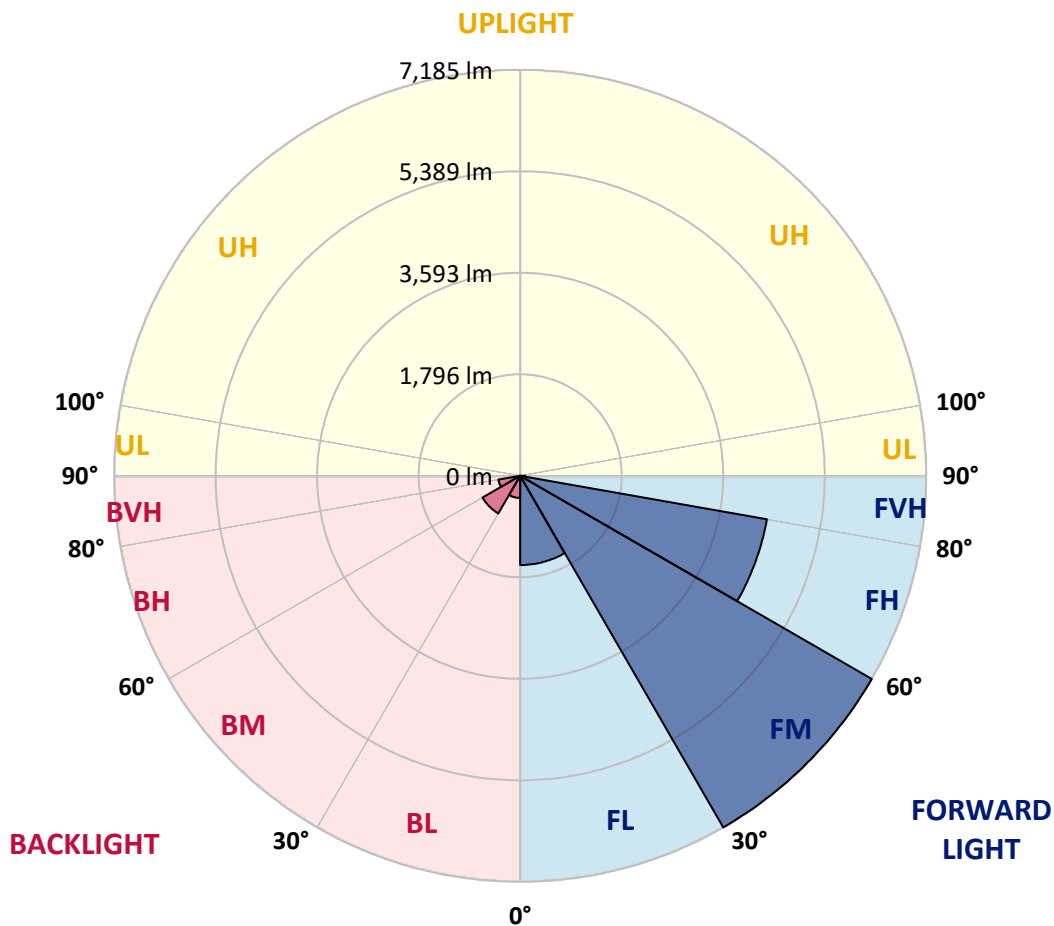
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.7	10.6			
FM	(30°-60°)	7185.5	48.4			
FH	(60°-80°)	4433.7	29.8			G2/5000
FVH	(80°-90°)	88.6	0.6			G1/100
BL	(0°-30°)	392.5	2.6	B1/500		
BM	(30°-60°)	768.7	5.2	B1/1000		
BH	(60°-80°)	391.4	2.6	B1/500		G1/500
BVH	(80°-90°)	19.1	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°	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4
2.5°	2296.7	2315.4	2324.7	2327.9	2256.2	2225.0	2193.9	2122.2	2106.6	2066.1	2013.1
5°	2701.8	2726.7	2720.5	2708.1	2620.8	2521.1	2440.0	2306.0	2284.2	2187.6	2069.2
7.5°	3100.7	3122.5	3116.3	3069.5	2972.9	2832.7	2698.7	2502.4	2471.2	2315.4	2125.3
10°	3434.1	3452.8	3449.7	3403.0	3287.7	3116.3	2954.2	2692.5	2655.1	2433.8	2172.0
12.5°	3708.4	3733.3	3730.2	3699.0	3596.2	3409.2	3225.4	2910.6	2863.9	2577.2	2237.5
15°	3923.4	3954.6	3954.6	3942.1	3870.4	3714.6	3505.8	3150.6	3094.5	2742.3	2318.5
17.5°	4054.3	4079.2	4101.0	4122.8	4073.0	3954.6	3764.5	3390.5	3331.3	2904.4	2402.7
20°	4122.8	4147.8	4163.4	4210.1	4219.4	4160.2	4010.7	3627.4	3565.0	3088.2	2499.3
22.5°	4235.0	4256.8	4260.0	4300.5	4319.2	4334.8	4241.3	3861.1	3811.2	3290.8	2608.3
25°	4422.0	4446.9	4437.6	4456.3	4459.4	4478.1	4468.8	4129.1	4079.2	3521.4	2739.2
27.5°	4662.0	4693.1	4686.9	4668.2	4640.1	4624.6	4665.1	4400.2	4353.4	3752.0	2873.2
30°	4920.6	4958.0	4948.7	4911.3	4836.5	4771.0	4827.1	4655.7	4612.1	3988.8	3022.8
32.5°	5182.4	5226.0	5222.9	5160.6	5032.8	4920.6	5004.8	4895.7	4864.5	4244.4	3184.8
35°	5353.8	5409.9	5403.6	5366.2	5201.1	5104.5	5207.3	5141.9	5120.1	4556.0	3418.6
37.5°	5631.1	5690.3	5637.4	5543.9	5353.8	5303.9	5428.6	5419.2	5403.6	4886.3	3664.7
40°	6304.2	6391.5	6251.3	5868.0	5556.3	5512.7	5690.3	5727.7	5712.1	5213.5	3886.0
42.5°	7008.5	7139.4	6921.3	6391.5	5924.1	5765.1	5977.0	6030.0	6011.3	5494.0	4085.4
45°	7435.5	7491.5	7273.4	6862.1	6575.4	6070.5	6282.4	6369.7	6354.1	5830.6	4341.0
47.5°	7784.5	7762.7	7513.4	7236.0	7289.0	6500.6	6628.3	6799.7	6787.3	6201.4	4621.4
50°	7859.3	7809.4	7709.7	7535.2	7675.4	6936.8	6992.9	7289.0	7276.5	6612.8	4905.0
52.5°	7332.6	7267.2	7538.3	7684.8	7638.0	7254.7	7394.9	7825.0	7818.8	7058.4	5176.1
55°	6017.5	5964.6	6693.8	7451.0	7597.5	7479.1	7840.6	8382.8	8417.1	7532.1	5422.3
57.5°	4733.6	4677.5	5394.3	6865.2	7447.9	7684.8	8361.0	9021.6	9065.3	8046.2	5656.1
60°	3773.8	3689.7	4238.1	5942.8	7167.5	7843.7	8862.7	9722.8	9729.0	8516.8	5799.4
62.5°	2564.7	2471.2	3078.9	4774.1	6696.9	7868.6	9249.1	10327.4	10352.3	8868.9	5824.3
65°	1558.1	1480.2	1891.6	3487.1	6002.0	7656.7	9255.4	10773.0	10794.8	9031.0	5674.8
67.5°	903.7	872.6	1081.4	2172.0	4848.9	7086.4	8865.8	10704.4	10744.9	8962.4	5335.1
70°	526.7	523.5	601.4	1075.1	3421.7	5955.2	7996.4	10127.9	10187.1	8604.1	4814.7
72.5°	386.4	392.7	423.8	576.5	1982.0	4288.0	6771.7	8968.7	9059.0	7902.9	4073.0
75°	305.4	308.5	336.6	392.7	1040.8	2424.5	5073.3	7198.6	7270.3	6653.3	3181.7
77.5°	227.5	233.7	255.5	277.3	483.0	1112.5	2854.5	4434.5	4316.1	3652.3	1536.3
80°	165.2	180.7	190.1	199.4	255.5	430.0	857.0	1545.7	1533.2	1595.5	726.1
82.5°	106.0	118.4	127.8	134.0	152.7	205.7	255.5	345.9	374.0	620.1	289.8
85°	46.7	53.0	59.2	71.7	65.4	71.7	106.0	68.6	59.2	93.5	53.0
87.5°	0.0	0.0	9.3	15.6	12.5	6.2	18.7	12.5	9.3	9.3	9.3
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°	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4	1966.4
2.5°	1985.1	1950.8	1879.1	1810.6	1770.0	1717.1	1670.3	1626.7	1623.6	1611.1	1589.3
5°	2010.0	1944.6	1810.6	1682.8	1586.2	1483.4	1396.1	1327.5	1302.6	1283.9	1259.0
7.5°	2034.9	1932.1	1732.7	1545.7	1393.0	1249.6	1146.8	1053.3	1025.3	1000.3	984.7
10°	2044.3	1910.3	1642.3	1393.0	1193.5	1040.8	931.8	863.2	838.3	825.8	816.5
12.5°	2072.3	1897.8	1558.1	1249.6	1019.0	878.8	800.9	760.4	751.0	741.7	732.3
15°	2109.7	1897.8	1474.0	1109.4	881.9	769.7	723.0	694.9	688.7	685.6	679.3
17.5°	2150.2	1897.8	1393.0	991.0	782.2	698.0	663.8	648.2	645.1	642.0	638.8
20°	2206.3	1900.9	1305.7	888.1	710.5	645.1	617.0	598.3	595.2	592.1	592.1
22.5°	2262.4	1907.2	1221.6	810.2	663.8	604.6	570.3	551.6	545.3	545.3	545.3
25°	2334.1	1925.9	1143.7	744.8	623.3	567.2	523.5	508.0	504.8	504.8	501.7
27.5°	2418.2	1947.7	1075.1	694.9	582.7	523.5	479.9	464.3	458.1	458.1	455.0
30°	2508.6	1969.5	1019.0	657.5	542.2	479.9	439.4	420.7	414.5	417.6	414.5
32.5°	2608.3	2000.7	975.4	632.6	504.8	442.5	405.1	383.3	380.2	380.2	377.1
35°	2776.6	2087.9	969.2	620.1	473.7	414.5	377.1	355.3	352.1	352.1	349.0
37.5°	2957.4	2187.6	997.2	613.9	448.7	389.5	355.3	333.4	330.3	330.3	330.3
40°	3110.1	2262.4	1028.4	613.9	433.2	367.7	336.6	317.9	317.9	317.9	317.9
42.5°	3212.9	2268.7	1022.1	613.9	420.7	352.1	324.1	305.4	305.4	308.5	305.4
45°	3365.6	2299.8	997.2	604.6	411.3	339.7	311.6	296.0	292.9	296.0	296.0
47.5°	3546.3	2355.9	972.3	567.2	408.2	327.2	302.3	283.6	280.5	283.6	280.5
50°	3717.7	2405.8	959.8	517.3	402.0	314.7	289.8	271.1	268.0	271.1	268.0
52.5°	3861.1	2427.6	938.0	483.0	386.4	302.3	277.3	258.7	252.4	255.5	255.5
55°	3976.4	2421.4	906.8	455.0	358.4	289.8	261.8	246.2	236.8	236.8	233.7
57.5°	4082.3	2424.5	878.8	426.9	327.2	271.1	249.3	230.6	218.1	215.0	211.9
60°	4122.8	2408.9	828.9	389.5	296.0	255.5	233.7	211.9	199.4	196.3	193.2
62.5°	4066.7	2352.8	763.5	324.1	268.0	236.8	218.1	196.3	183.9	180.7	177.6
65°	3907.8	2246.8	663.8	255.5	243.1	215.0	199.4	183.9	168.3	162.0	158.9
67.5°	3636.7	2094.1	539.1	205.7	215.0	196.3	187.0	168.3	149.6	143.3	140.2
70°	3250.3	1891.6	405.1	174.5	190.1	174.5	168.3	149.6	134.0	127.8	124.7
72.5°	2708.1	1564.4	283.6	149.6	165.2	152.7	146.5	134.0	118.4	109.1	109.1
75°	2047.4	1121.9	187.0	127.8	137.1	130.9	121.5	112.2	102.8	96.6	93.5
77.5°	881.9	436.3	115.3	96.6	112.2	109.1	96.6	90.4	87.3	81.0	81.0
80°	380.2	177.6	71.7	71.7	81.0	77.9	74.8	68.6	68.6	65.4	62.3
82.5°	140.2	71.7	43.6	53.0	59.2	53.0	53.0	53.0	53.0	49.9	49.9
85°	34.3	21.8	21.8	31.2	34.3	31.2	34.3	31.2	31.2	31.2	28.0
87.5°	9.3	9.3	12.5	12.5	12.5	12.5	12.5	9.3	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)