

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: P842679

Luminaire Tested: **ARCH4-80-730-U-T3-HSS**

Issue Date: 5/27/2024

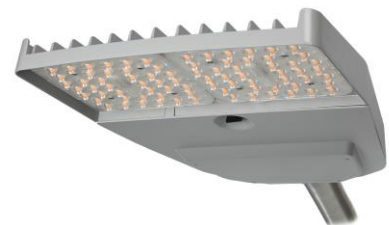
Test Information

Test Method: LM-79-08
Report Number: P842679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

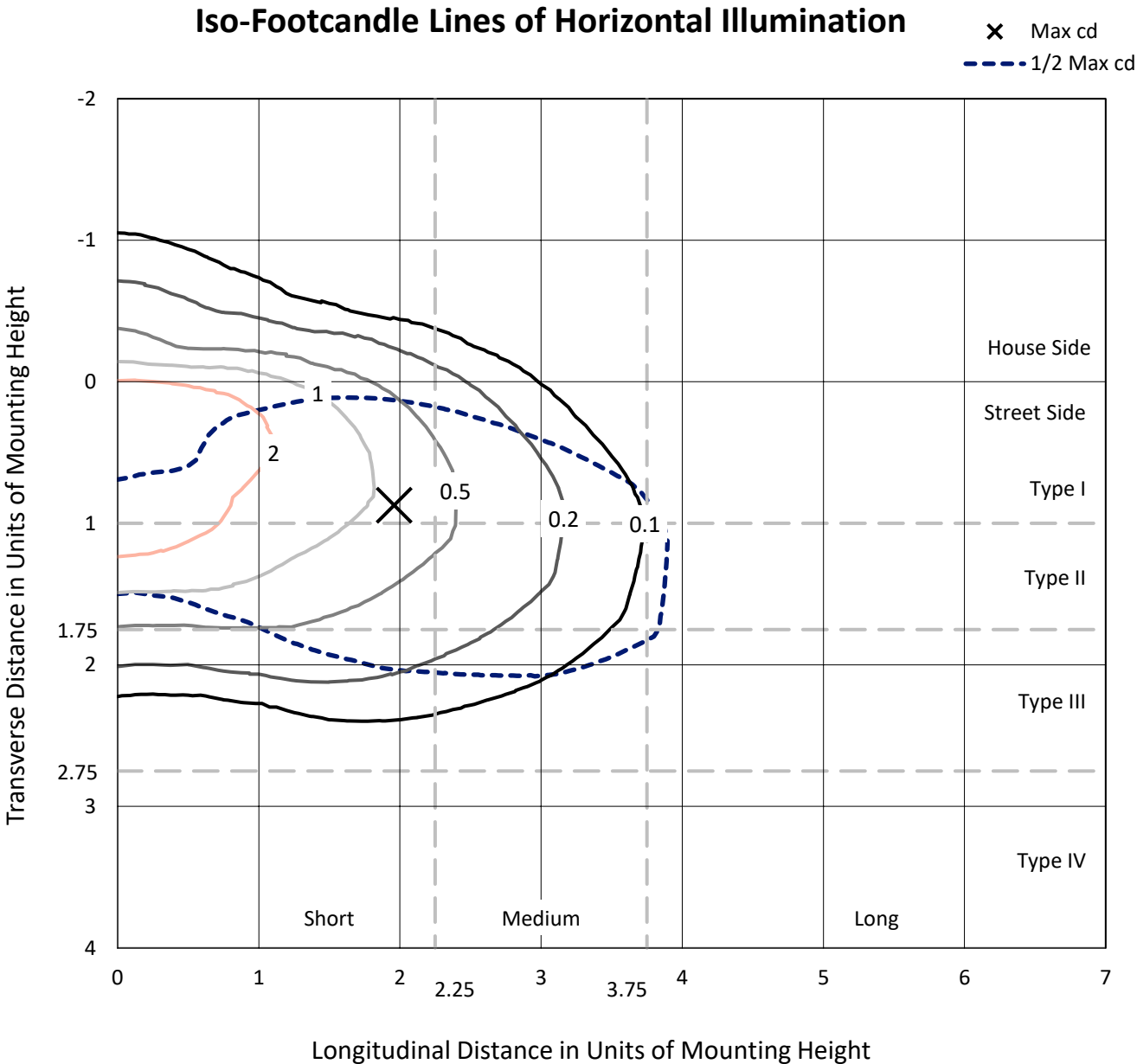
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9783 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 83.4
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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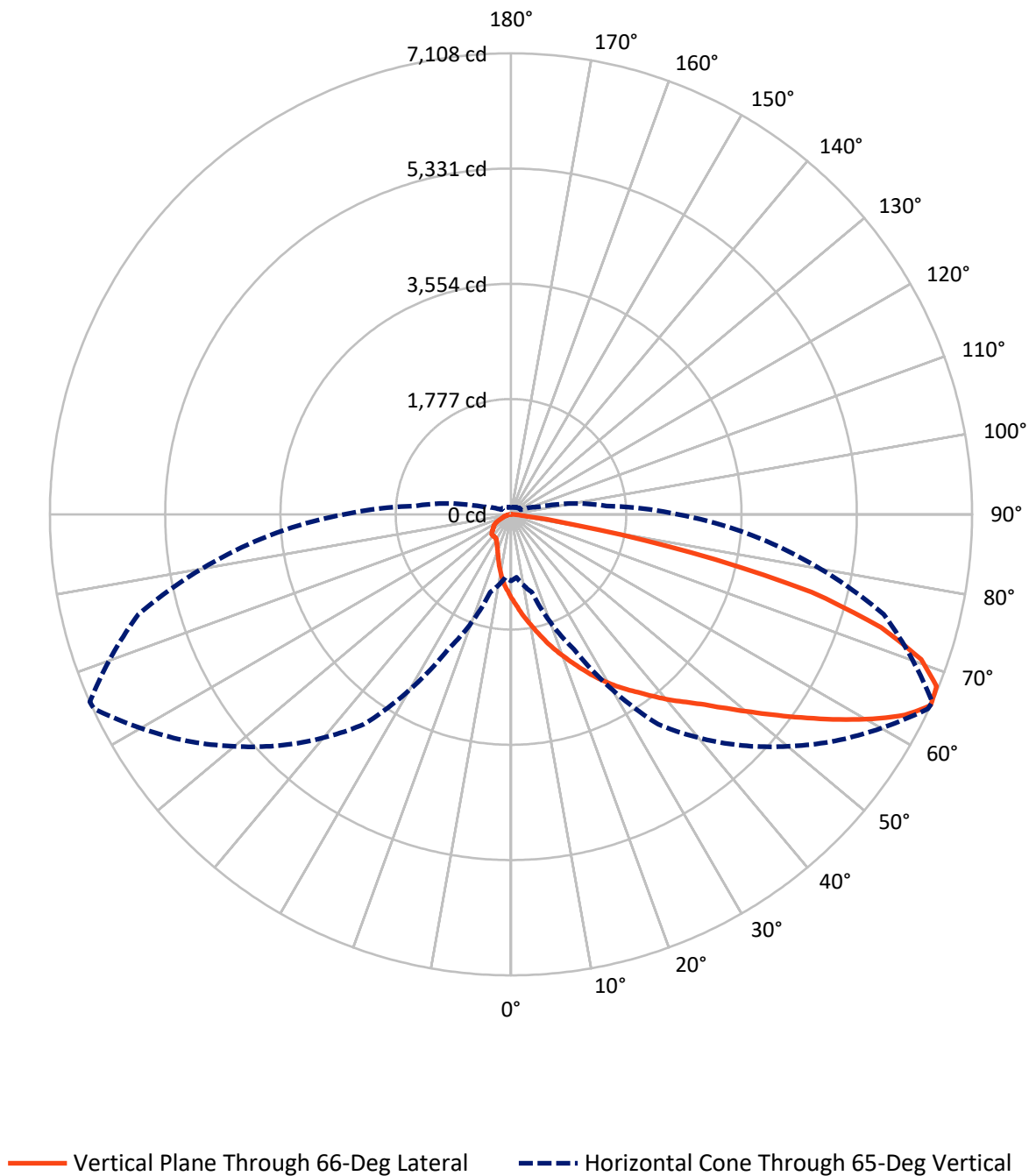


Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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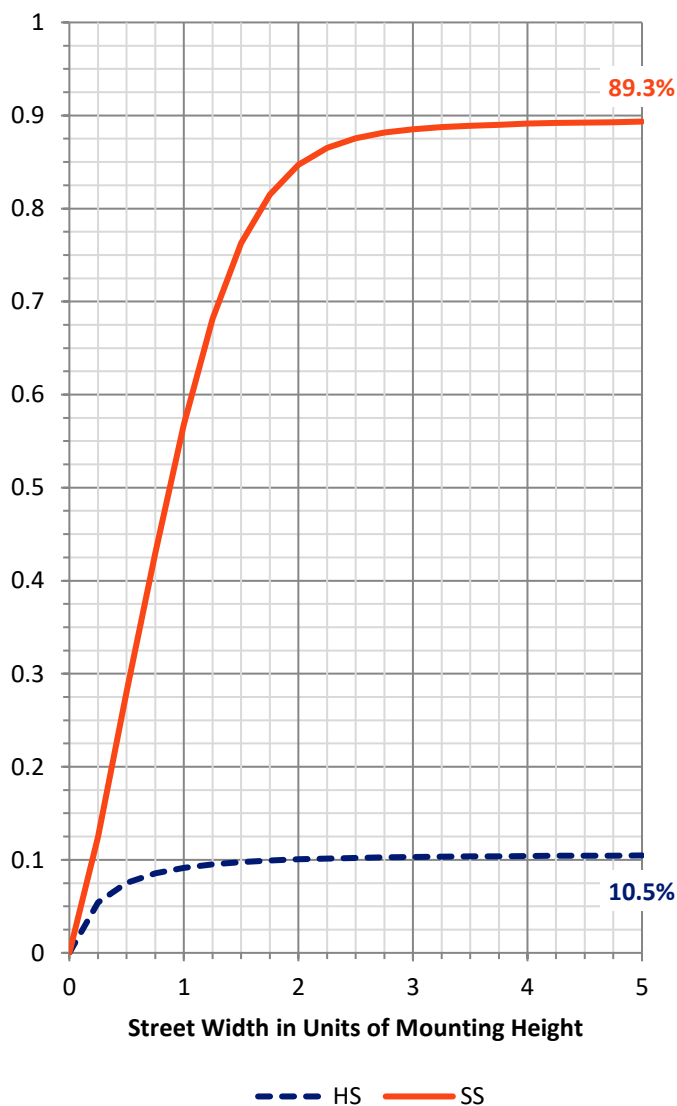
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1034.8	0.0	1034.8
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	8748.2	0.0	8748.2
	% Fixture	89.4	0.0	89.4
Total	Lumens	9783.0	0.0	9783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.3
10°-20°	416.5	4.3
20°-30°	753.6	7.7
30°-40°	1178.4	12.0
40°-50°	1787.6	18.3
50°-60°	2271.2	23.2
60°-70°	2122.2	21.7
70°-80°	1054.7	10.8
80°-90°	70.9	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°	9783.0	100.0
0°-180°	9783.0	100.0

Coefficient of Utilization



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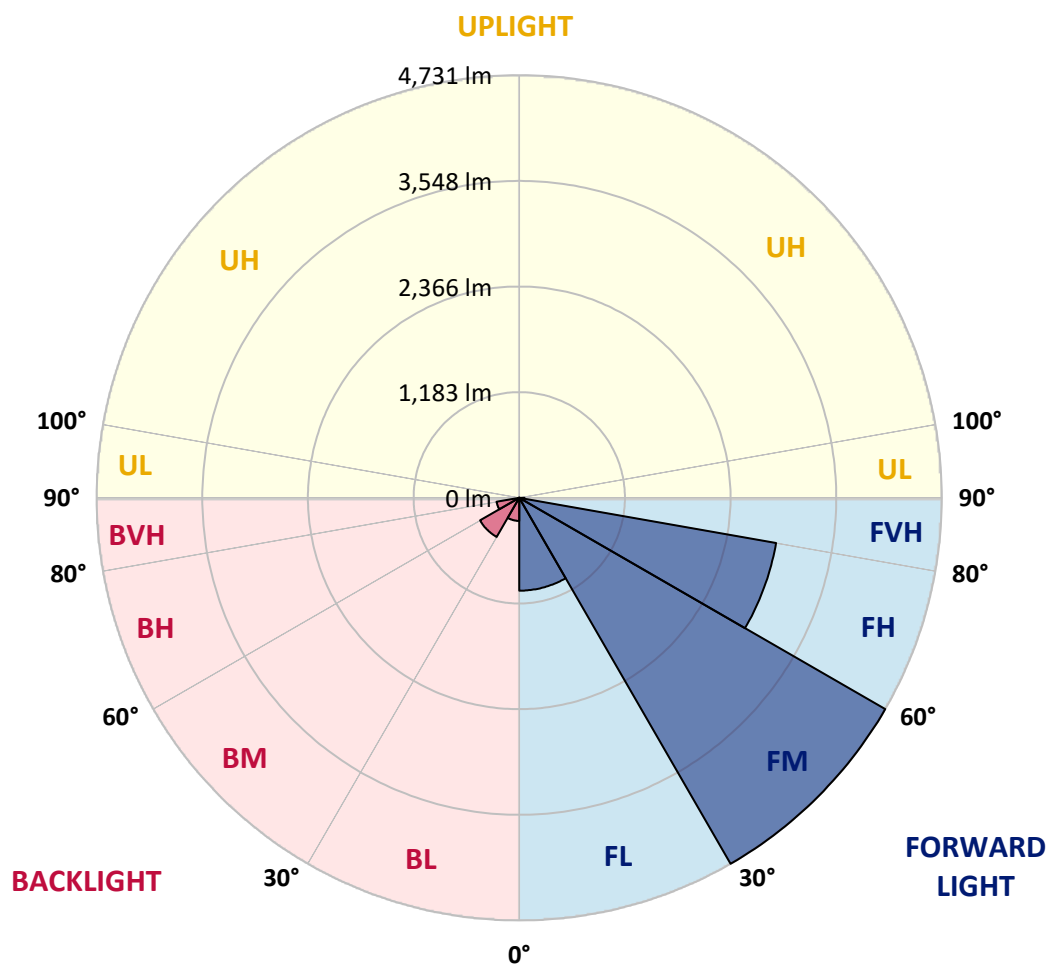
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.4	10.6			
FM	(30°-60°)	4731.2	48.4			
FH	(60°-80°)	2919.3	29.8			G2/5000
FVH	(80°-90°)	58.3	0.6			G1/100
BL	(0°-30°)	258.4	2.6	B1/500		
BM	(30°-60°)	506.1	5.2	B1/1000		
BH	(60°-80°)	257.7	2.6	B1/500		G1/500
BVH	(80°-90°)	12.5	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°	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7
2.5°	1512.2	1524.5	1530.7	1532.7	1485.5	1465.0	1444.5	1397.3	1387.1	1360.4	1325.5
5°	1779.0	1795.4	1791.3	1783.1	1725.6	1660.0	1606.6	1518.4	1504.0	1440.4	1362.4
7.5°	2041.6	2056.0	2051.9	2021.1	1957.5	1865.1	1776.9	1647.6	1627.1	1524.5	1399.4
10°	2261.2	2273.5	2271.4	2240.6	2164.7	2051.9	1945.2	1772.8	1748.2	1602.5	1430.1
12.5°	2441.7	2458.1	2456.1	2435.6	2367.9	2244.7	2123.7	1916.4	1885.7	1696.9	1473.2
15°	2583.3	2603.8	2603.8	2595.6	2548.4	2445.8	2308.3	2074.4	2037.5	1805.6	1526.6
17.5°	2669.5	2685.9	2700.3	2714.6	2681.8	2603.8	2478.7	2232.4	2193.4	1912.3	1582.0
20°	2714.6	2731.0	2741.3	2772.1	2778.2	2739.2	2640.7	2388.4	2347.3	2033.4	1645.6
22.5°	2788.5	2802.8	2804.9	2831.6	2843.9	2854.1	2792.6	2542.3	2509.4	2166.8	1717.4
25°	2911.6	2928.0	2921.9	2934.2	2936.2	2948.5	2942.4	2718.7	2685.9	2318.6	1803.6
27.5°	3069.6	3090.1	3086.0	3073.7	3055.2	3045.0	3071.6	2897.2	2866.5	2470.4	1891.8
30°	3239.9	3264.5	3258.4	3233.7	3184.5	3141.4	3178.3	3065.5	3036.8	2626.4	1990.3
32.5°	3412.3	3441.0	3438.9	3397.9	3313.8	3239.9	3295.3	3223.5	3203.0	2794.6	2097.0
35°	3525.1	3562.0	3557.9	3533.3	3424.6	3361.0	3428.7	3385.6	3371.2	2999.8	2250.9
37.5°	3707.7	3746.7	3711.8	3650.3	3525.1	3492.3	3574.3	3568.2	3557.9	3217.3	2413.0
40°	4150.9	4208.4	4116.0	3863.7	3658.5	3629.7	3746.7	3771.3	3761.1	3432.8	2558.7
42.5°	4614.6	4700.8	4557.2	4208.4	3900.6	3795.9	3935.5	3970.4	3958.0	3617.4	2690.0
45°	4895.7	4932.7	4789.1	4518.2	4329.4	3997.0	4136.6	4194.0	4183.8	3839.0	2858.2
47.5°	5125.6	5111.2	4947.0	4764.4	4799.3	4280.2	4364.3	4477.2	4469.0	4083.2	3042.9
50°	5174.8	5142.0	5076.3	4961.4	5053.7	4567.4	4604.4	4799.3	4791.1	4354.1	3229.6
52.5°	4828.0	4784.9	4963.5	5059.9	5029.1	4776.7	4869.1	5152.2	5148.1	4647.5	3408.1
55°	3962.1	3927.3	4407.4	4906.0	5002.4	4924.5	5162.5	5519.5	5542.1	4959.4	3570.2
57.5°	3116.8	3079.8	3551.8	4520.3	4904.0	5059.9	5505.2	5940.1	5968.9	5297.9	3724.1
60°	2484.8	2429.4	2790.5	3912.9	4719.3	5164.5	5835.5	6401.8	6405.9	5607.7	3818.5
62.5°	1688.7	1627.1	2027.2	3143.5	4409.5	5181.0	6089.9	6799.9	6816.3	5839.6	3834.9
65°	1025.9	974.6	1245.5	2296.0	3951.9	5041.4	6094.0	7093.3	7107.7	5946.3	3736.4
67.5°	595.0	574.5	712.0	1430.1	3192.7	4665.9	5837.6	7048.2	7074.8	5901.2	3512.8
70°	346.8	344.7	396.0	707.9	2252.9	3921.1	5265.1	6668.6	6707.5	5665.2	3170.1
72.5°	254.4	258.5	279.1	379.6	1305.0	2823.4	4458.7	5905.3	5964.8	5203.5	2681.8
75°	201.1	203.1	221.6	258.5	685.3	1596.4	3340.4	4739.8	4787.0	4380.7	2095.0
77.5°	149.8	153.9	168.3	182.6	318.0	732.5	1879.5	2919.8	2841.8	2404.8	1011.6
80°	108.7	119.0	125.2	131.3	168.3	283.2	564.3	1017.7	1009.5	1050.6	478.1
82.5°	69.8	78.0	84.1	88.2	100.5	135.4	168.3	227.8	246.2	408.3	190.8
85°	30.8	34.9	39.0	47.2	43.1	47.2	69.8	45.1	39.0	61.6	34.9
87.5°	0.0	0.0	6.2	10.3	8.2	4.1	12.3	8.2	6.2	6.2	6.2
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°	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7	1294.7
2.5°	1307.0	1284.5	1237.3	1192.1	1165.5	1130.6	1099.8	1071.1	1069.0	1060.8	1046.5
5°	1323.5	1280.4	1192.1	1108.0	1044.4	976.7	919.2	874.1	857.7	845.4	829.0
7.5°	1339.9	1272.2	1140.8	1017.7	917.2	822.8	755.1	693.5	675.1	658.6	648.4
10°	1346.0	1257.8	1081.3	917.2	785.9	685.3	613.5	568.4	552.0	543.7	537.6
12.5°	1364.5	1249.6	1025.9	822.8	671.0	578.6	527.3	500.7	494.5	488.3	482.2
15°	1389.1	1249.6	970.5	730.5	580.7	506.8	476.0	457.6	453.5	451.4	447.3
17.5°	1415.8	1249.6	917.2	652.5	515.0	459.6	437.0	426.8	424.7	422.7	420.6
20°	1452.7	1251.6	859.7	584.8	467.8	424.7	406.3	394.0	391.9	389.9	389.9
22.5°	1489.7	1255.7	804.3	533.5	437.0	398.1	375.5	363.2	359.1	359.1	359.1
25°	1536.8	1268.1	753.0	490.4	410.4	373.4	344.7	334.5	332.4	332.4	330.4
27.5°	1592.2	1282.4	707.9	457.6	383.7	344.7	316.0	305.7	301.6	301.6	299.6
30°	1651.8	1296.8	671.0	432.9	357.0	316.0	289.3	277.0	272.9	274.9	272.9
32.5°	1717.4	1317.3	642.2	416.5	332.4	291.4	266.7	252.4	250.3	250.3	248.3
35°	1828.2	1374.7	638.1	408.3	311.9	272.9	248.3	233.9	231.9	231.9	229.8
37.5°	1947.2	1440.4	656.6	404.2	295.5	256.5	233.9	219.5	217.5	217.5	217.5
40°	2047.8	1489.7	677.1	404.2	285.2	242.1	221.6	209.3	209.3	209.3	209.3
42.5°	2115.5	1493.8	673.0	404.2	277.0	231.9	213.4	201.1	201.1	203.1	201.1
45°	2216.0	1514.3	656.6	398.1	270.8	223.7	205.2	194.9	192.9	194.9	194.9
47.5°	2335.0	1551.2	640.2	373.4	268.8	215.4	199.0	186.7	184.7	186.7	184.7
50°	2447.9	1584.0	632.0	340.6	264.7	207.2	190.8	178.5	176.5	178.5	176.5
52.5°	2542.3	1598.4	617.6	318.0	254.4	199.0	182.6	170.3	166.2	168.3	168.3
55°	2618.2	1594.3	597.1	299.6	236.0	190.8	172.4	162.1	155.9	155.9	153.9
57.5°	2687.9	1596.4	578.6	281.1	215.4	178.5	164.1	151.8	143.6	141.6	139.5
60°	2714.6	1586.1	545.8	256.5	194.9	168.3	153.9	139.5	131.3	129.3	127.2
62.5°	2677.7	1549.2	502.7	213.4	176.5	155.9	143.6	129.3	121.1	119.0	117.0
65°	2573.0	1479.4	437.0	168.3	160.0	141.6	131.3	121.1	110.8	106.7	104.6
67.5°	2394.5	1378.9	355.0	135.4	141.6	129.3	123.1	110.8	98.5	94.4	92.3
70°	2140.1	1245.5	266.7	114.9	125.2	114.9	110.8	98.5	88.2	84.1	82.1
72.5°	1783.1	1030.0	186.7	98.5	108.7	100.5	96.4	88.2	78.0	71.8	71.8
75°	1348.1	738.7	123.1	84.1	90.3	86.2	80.0	73.9	67.7	63.6	61.6
77.5°	580.7	287.3	75.9	63.6	73.9	71.8	63.6	59.5	57.5	53.3	53.3
80°	250.3	117.0	47.2	47.2	53.3	51.3	49.2	45.1	45.1	43.1	41.0
82.5°	92.3	47.2	28.7	34.9	39.0	34.9	34.9	34.9	34.9	32.8	32.8
85°	22.6	14.4	14.4	20.5	22.6	20.5	22.6	20.5	20.5	20.5	18.5
87.5°	6.2	6.2	8.2	8.2	8.2	8.2	8.2	6.2	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)