

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: P836920

Luminaire Tested: **ARCH3-90-740-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-740-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

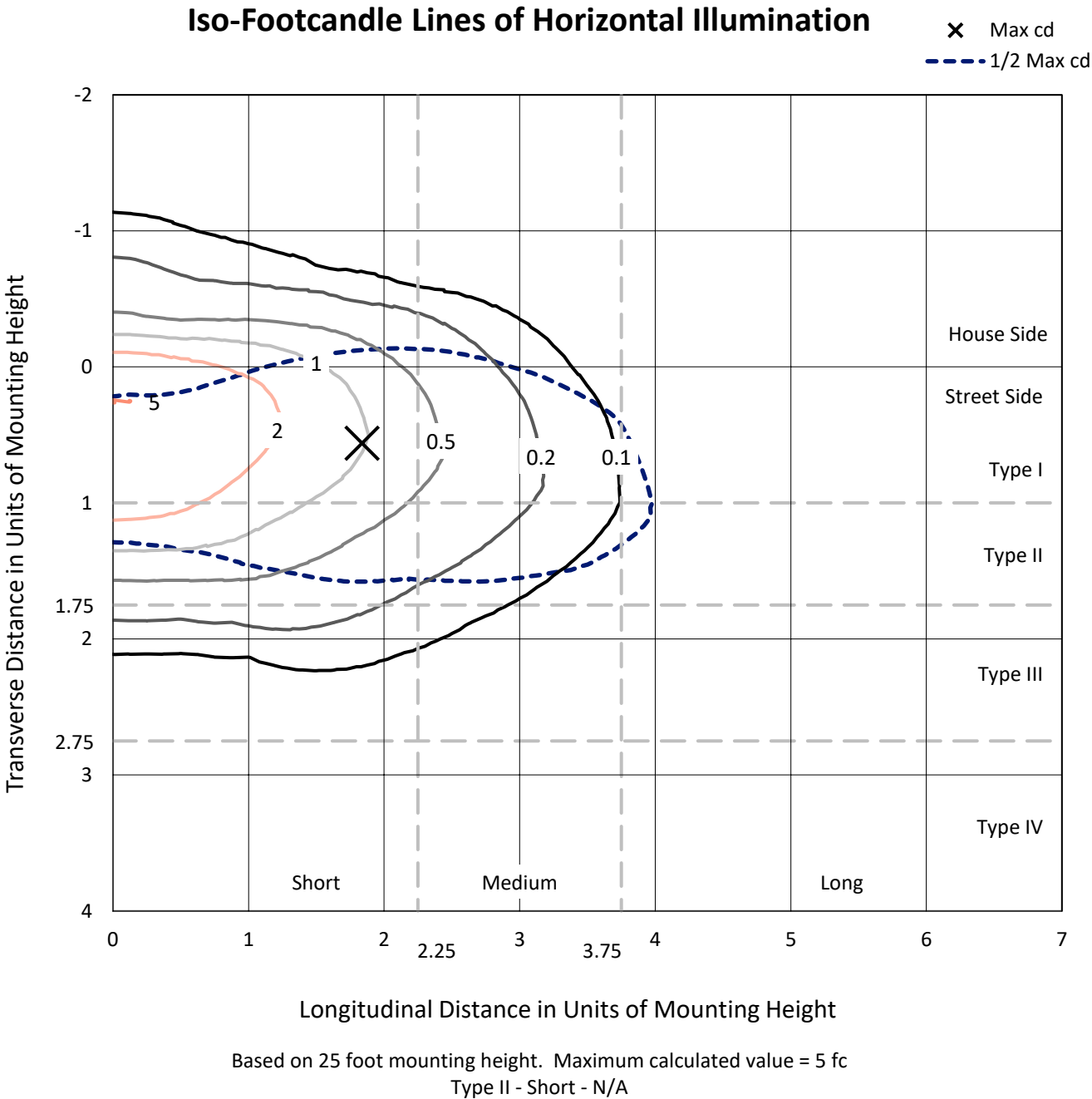
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10553 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 93.1
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

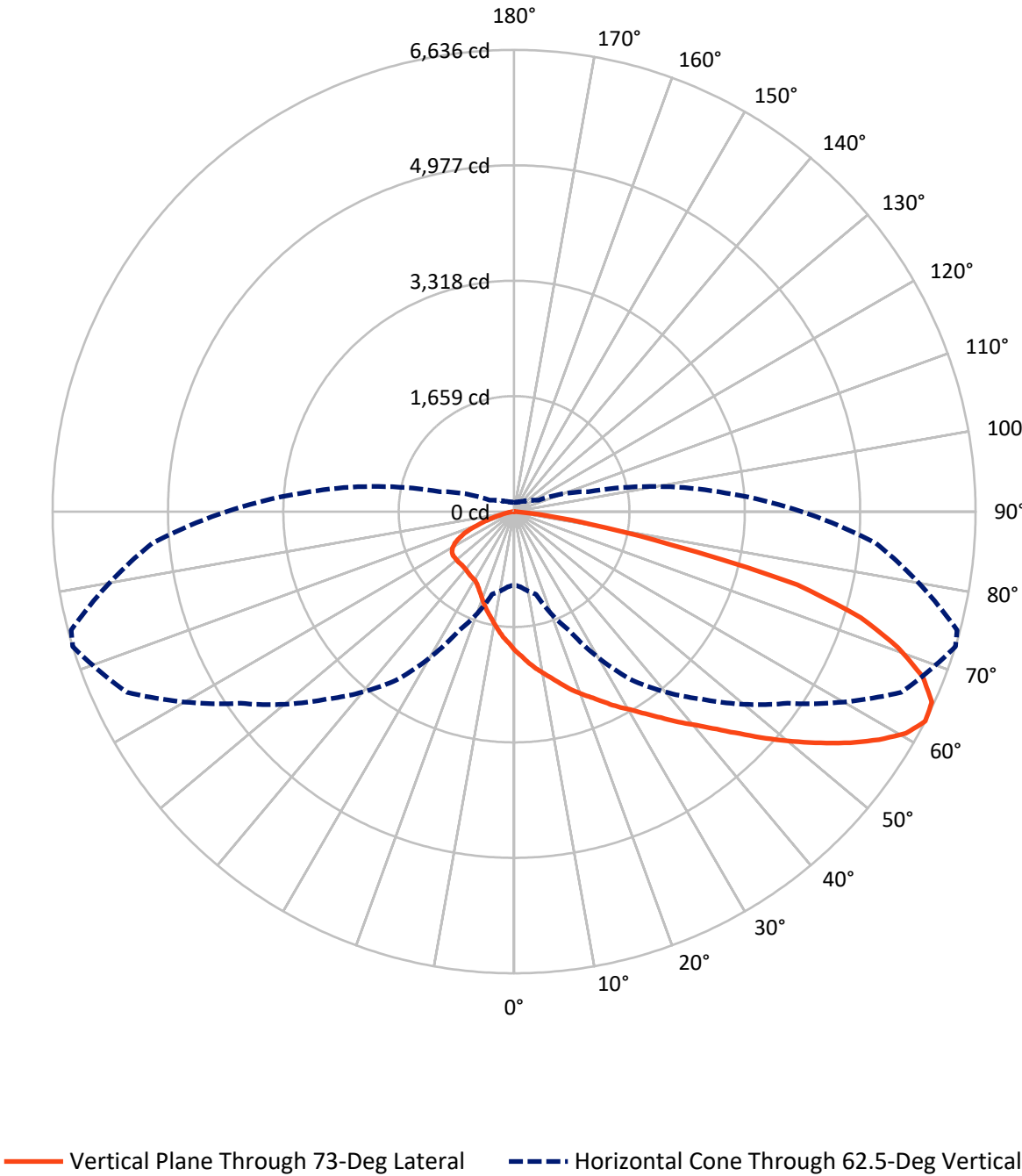


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Luminous Intensity Polar Plot



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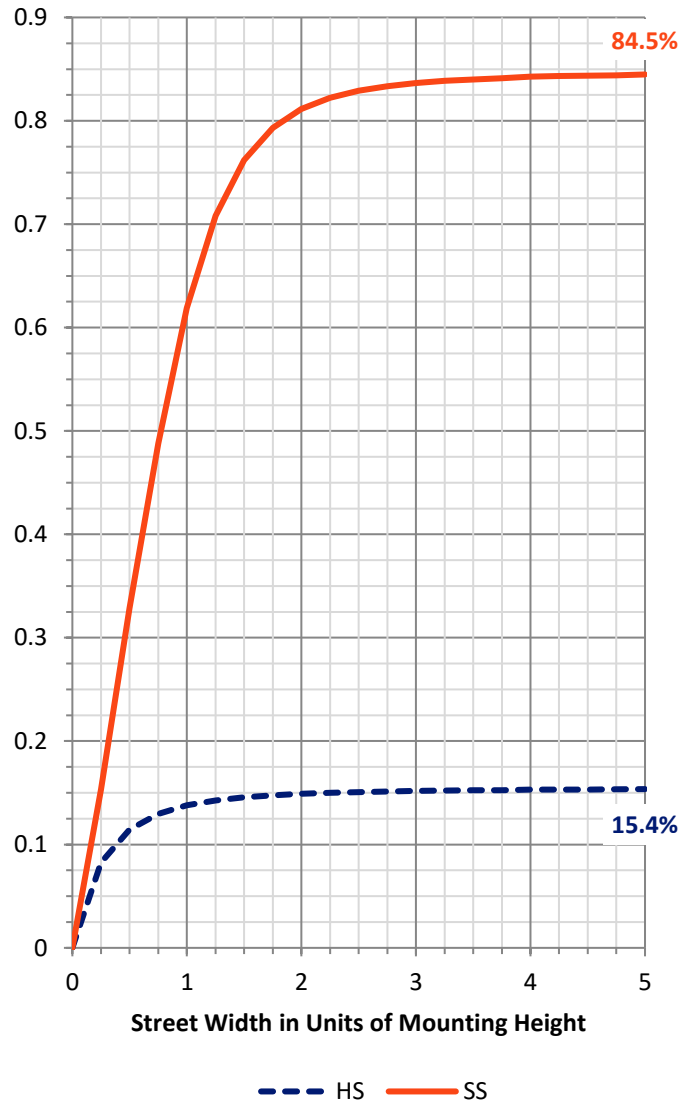
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1635.9	0.0	1635.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	8917.1	0.0	8917.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	10553.0	0.0	10553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.8
10°-20°	582.5	5.5
20°-30°	969.6	9.2
30°-40°	1463.0	13.9
40°-50°	2044.9	19.4
50°-60°	2258.7	21.4
60°-70°	1967.6	18.6
70°-80°	993.9	9.4
80°-90°	79.8	0.8
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°	10553.0	100.0
0°-180°	10553.0	100.0

Coefficient of Utilization



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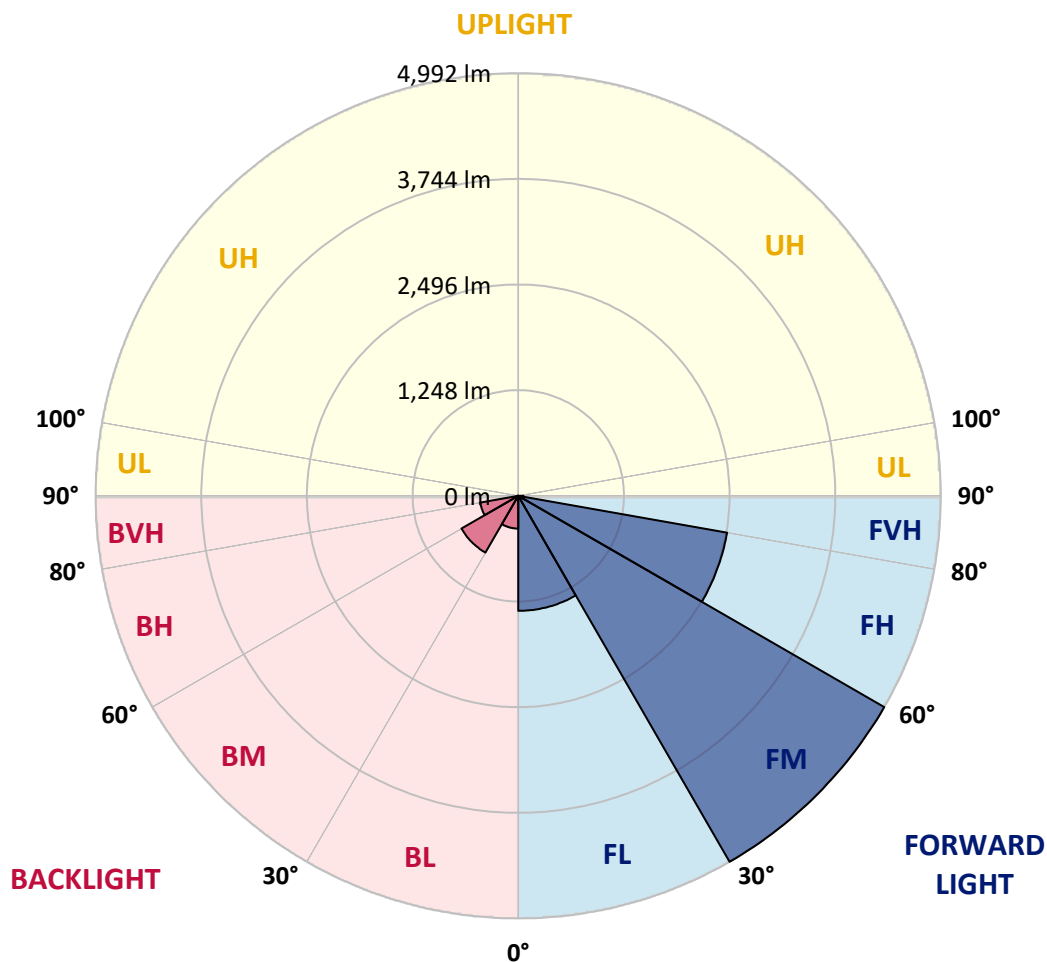
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1358.5	12.9			
FM	(30°-60°)	4992.0	47.3			
FH	(60°-80°)	2504.9	23.7			G2/5000
FVH	(80°-90°)	61.7	0.6			G1/100
BL	(0°-30°)	386.7	3.7	B1/500		
BM	(30°-60°)	774.6	7.3	B1/1000		
BH	(60°-80°)	456.6	4.3	B1/500		G1/500
BVH	(80°-90°)	18.0	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2
2.5°	2274.2	2299.5	2285.7	2294.9	2248.9	2219.0	2184.5	2117.8	2081.0	2076.4	2032.7
5°	2607.6	2635.2	2612.2	2605.3	2524.8	2455.8	2377.6	2260.4	2182.2	2168.4	2071.8
7.5°	2941.0	2966.3	2938.7	2918.0	2809.9	2688.1	2573.1	2400.6	2278.8	2255.8	2104.0
10°	3175.6	3198.6	3177.9	3157.2	3044.5	2920.3	2757.1	2531.7	2366.1	2329.4	2124.7
12.5°	3352.6	3366.4	3357.2	3338.8	3233.0	3099.7	2943.3	2678.9	2465.0	2419.0	2156.9
15°	3497.5	3520.5	3509.0	3495.2	3394.0	3260.6	3111.2	2832.9	2580.0	2522.5	2205.2
17.5°	3594.1	3610.2	3612.5	3612.5	3522.8	3391.7	3246.8	2973.2	2695.0	2621.4	2251.2
20°	3637.7	3656.1	3667.6	3686.0	3612.5	3499.8	3352.6	3092.8	2803.0	2720.3	2294.9
22.5°	3658.4	3674.5	3704.4	3745.8	3686.0	3591.8	3456.1	3203.2	2911.1	2823.7	2345.5
25°	3674.5	3695.2	3738.9	3817.1	3775.7	3695.2	3578.0	3329.6	3039.9	2950.2	2419.0
27.5°	3718.2	3743.5	3784.9	3879.2	3828.6	3789.5	3706.7	3465.3	3175.6	3083.6	2508.7
30°	3870.0	3890.7	3888.4	3948.2	3886.1	3874.6	3817.1	3596.4	3306.6	3214.6	2614.5
32.5°	4145.9	4166.6	4116.0	4093.0	3957.4	3959.7	3936.7	3736.6	3463.0	3368.7	2736.4
35°	4442.6	4465.6	4398.9	4359.8	4132.1	4065.4	4076.9	3911.4	3637.7	3543.5	2888.1
37.5°	4707.0	4734.6	4677.1	4619.6	4389.7	4235.6	4233.3	4106.8	3837.8	3741.2	3056.0
40°	4851.9	4884.1	4918.6	4886.4	4644.9	4474.8	4401.2	4306.9	4035.6	3936.7	3237.6
42.5°	4920.8	5010.5	5072.6	5051.9	4854.2	4681.7	4594.3	4516.1	4277.0	4180.4	3453.8
45°	4727.7	4730.0	4861.1	4973.7	4936.9	4822.0	4805.9	4750.7	4552.9	4461.0	3697.5
47.5°	4486.3	4467.9	4559.8	4759.9	4863.4	4893.3	4987.5	5010.5	4868.0	4776.0	3945.9
50°	3906.8	3918.3	4217.2	4504.6	4707.0	4900.2	5116.3	5277.3	5192.2	5104.8	4208.0
52.5°	3177.9	3205.5	3548.1	4180.4	4500.0	4831.2	5192.2	5544.0	5523.3	5440.5	4470.2
55°	2547.8	2591.5	2954.8	3640.0	4235.6	4677.1	5224.4	5787.7	5865.9	5790.0	4727.7
57.5°	1947.6	1993.6	2299.5	3003.1	3897.6	4426.5	5201.4	6001.6	6185.6	6137.3	4964.5
60°	1467.1	1513.0	1708.5	2435.1	3474.5	4145.9	5086.4	6141.9	6473.0	6422.4	5137.0
62.5°	1050.9	1087.6	1232.5	1894.8	2959.4	3812.5	4803.6	6144.2	6636.2	6594.9	5219.8
65°	756.5	756.5	873.8	1352.1	2476.5	3412.4	4375.9	5861.3	6601.8	6590.3	5162.3
67.5°	545.0	549.6	643.8	945.1	1975.2	2927.2	3821.7	5357.7	6335.0	6392.5	4955.3
70°	386.3	397.8	441.5	659.9	1492.4	2311.0	3228.4	4697.8	5854.4	5955.6	4555.2
72.5°	298.9	305.8	335.7	459.9	1089.9	1717.7	2573.1	3962.0	5212.9	5327.9	4010.3
75°	229.9	236.8	259.8	338.0	781.8	1204.9	1828.1	3074.4	4203.4	4408.1	3221.5
77.5°	167.9	177.1	193.2	246.0	455.3	765.7	1108.3	1729.2	2320.2	2416.7	1687.8
80°	78.2	89.7	112.7	158.7	246.0	361.0	393.2	666.8	1115.2	1165.8	915.2
82.5°	43.7	55.2	64.4	96.6	124.2	128.8	133.4	167.9	420.8	464.5	384.0
85°	20.7	27.6	29.9	41.4	41.4	36.8	43.7	32.2	69.0	82.8	80.5
87.5°	0.0	2.3	4.6	11.5	9.2	6.9	6.9	6.9	6.9	9.2	6.9
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°	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2	1998.2
2.5°	2012.0	1982.1	1913.2	1853.4	1814.3	1779.8	1733.8	1713.1	1676.3	1683.2	1662.5
5°	2023.5	1968.3	1846.5	1733.8	1651.0	1577.4	1497.0	1451.0	1400.4	1395.8	1379.7
7.5°	2030.4	1945.3	1770.6	1611.9	1485.5	1372.8	1264.7	1204.9	1142.8	1129.0	1115.2
10°	2023.5	1910.9	1692.4	1485.5	1317.6	1177.3	1055.5	979.6	915.2	899.1	885.3
12.5°	2030.4	1892.5	1618.8	1368.2	1168.1	1009.5	871.5	793.3	733.5	717.4	708.2
15°	2046.5	1881.0	1556.7	1262.4	1034.8	857.7	722.0	655.3	607.1	591.0	586.4
17.5°	2060.3	1869.5	1490.1	1158.9	901.4	724.3	607.1	551.9	510.5	494.4	489.8
20°	2078.7	1853.4	1423.4	1060.1	784.1	618.6	515.1	466.8	434.6	423.1	420.8
22.5°	2094.8	1841.9	1361.3	961.2	676.0	533.5	446.1	407.0	384.0	372.5	372.5
25°	2136.2	1846.5	1308.4	869.2	595.6	466.8	393.2	363.3	344.9	338.0	338.0
27.5°	2184.5	1864.9	1267.0	791.0	526.6	416.2	356.4	331.1	321.9	312.7	315.0
30°	2253.5	1901.7	1239.4	726.6	476.0	377.1	326.5	308.1	298.9	296.6	296.6
32.5°	2340.9	1961.4	1237.1	685.2	439.2	347.2	305.8	289.7	285.1	282.8	282.8
35°	2444.3	2014.3	1223.3	666.8	416.2	326.5	289.7	278.2	275.9	275.9	275.9
37.5°	2568.5	2101.7	1214.1	641.6	404.7	315.0	278.2	269.0	269.0	269.0	269.0
40°	2697.3	2173.0	1200.3	618.6	400.1	308.1	271.3	259.8	259.8	259.8	259.8
42.5°	2851.3	2276.5	1195.7	607.1	393.2	303.5	262.1	248.3	250.6	250.6	252.9
45°	3037.6	2393.7	1193.4	595.6	390.9	298.9	252.9	236.8	239.1	236.8	236.8
47.5°	3226.1	2529.4	1200.3	588.7	388.6	294.3	246.0	225.3	225.3	223.0	223.0
50°	3423.9	2653.6	1204.9	581.8	384.0	285.1	234.5	216.1	211.6	207.0	209.3
52.5°	3610.2	2768.6	1207.2	570.3	370.2	271.3	225.3	204.7	197.8	190.9	193.2
55°	3796.4	2878.9	1211.8	556.5	351.8	257.5	213.9	193.2	184.0	174.8	174.8
57.5°	3964.3	2975.5	1200.3	522.0	331.1	243.7	202.4	179.4	165.6	156.4	156.4
60°	4079.2	3044.5	1165.8	471.4	303.5	227.6	190.9	165.6	149.5	142.6	142.6
62.5°	4134.4	3056.0	1103.7	388.6	269.0	211.6	177.1	151.8	138.0	133.4	133.4
65°	4081.5	3005.4	1007.2	292.0	232.2	193.2	163.3	140.3	126.5	115.0	115.0
67.5°	3897.6	2862.8	873.8	220.7	197.8	174.8	149.5	128.8	112.7	103.5	103.5
70°	3527.4	2566.2	676.0	177.1	167.9	151.8	135.7	115.0	101.2	89.7	89.7
72.5°	3042.2	2175.3	476.0	142.6	142.6	128.8	115.0	101.2	87.4	78.2	78.2
75°	2334.0	1609.6	319.6	115.0	117.3	108.1	94.3	82.8	73.6	66.7	66.7
77.5°	1273.9	795.6	195.5	85.1	87.4	82.8	73.6	66.7	62.1	55.2	55.2
80°	618.6	349.5	112.7	59.8	62.1	59.8	55.2	48.3	48.3	43.7	43.7
82.5°	259.8	131.1	59.8	41.4	41.4	36.8	34.5	34.5	34.5	32.2	32.2
85°	64.4	25.3	25.3	23.0	23.0	23.0	20.7	20.7	20.7	16.1	18.4
87.5°	9.2	9.2	9.2	9.2	9.2	9.2	6.9	2.3	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)