

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: P836038

Luminaire Tested: **ARCH3-130-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836038
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: ARCH3-130-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1035mA 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: 13329 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 132.6
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



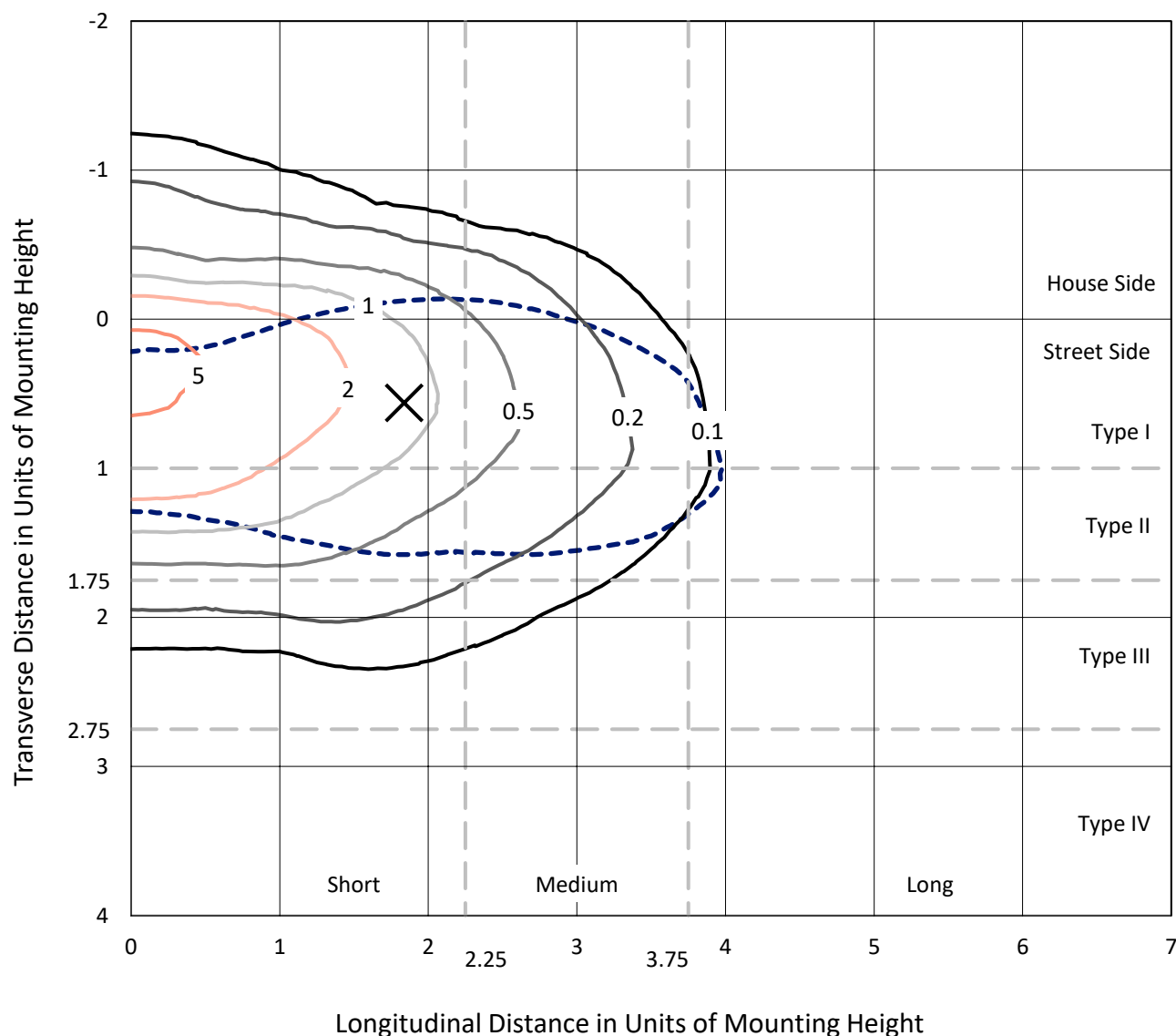
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

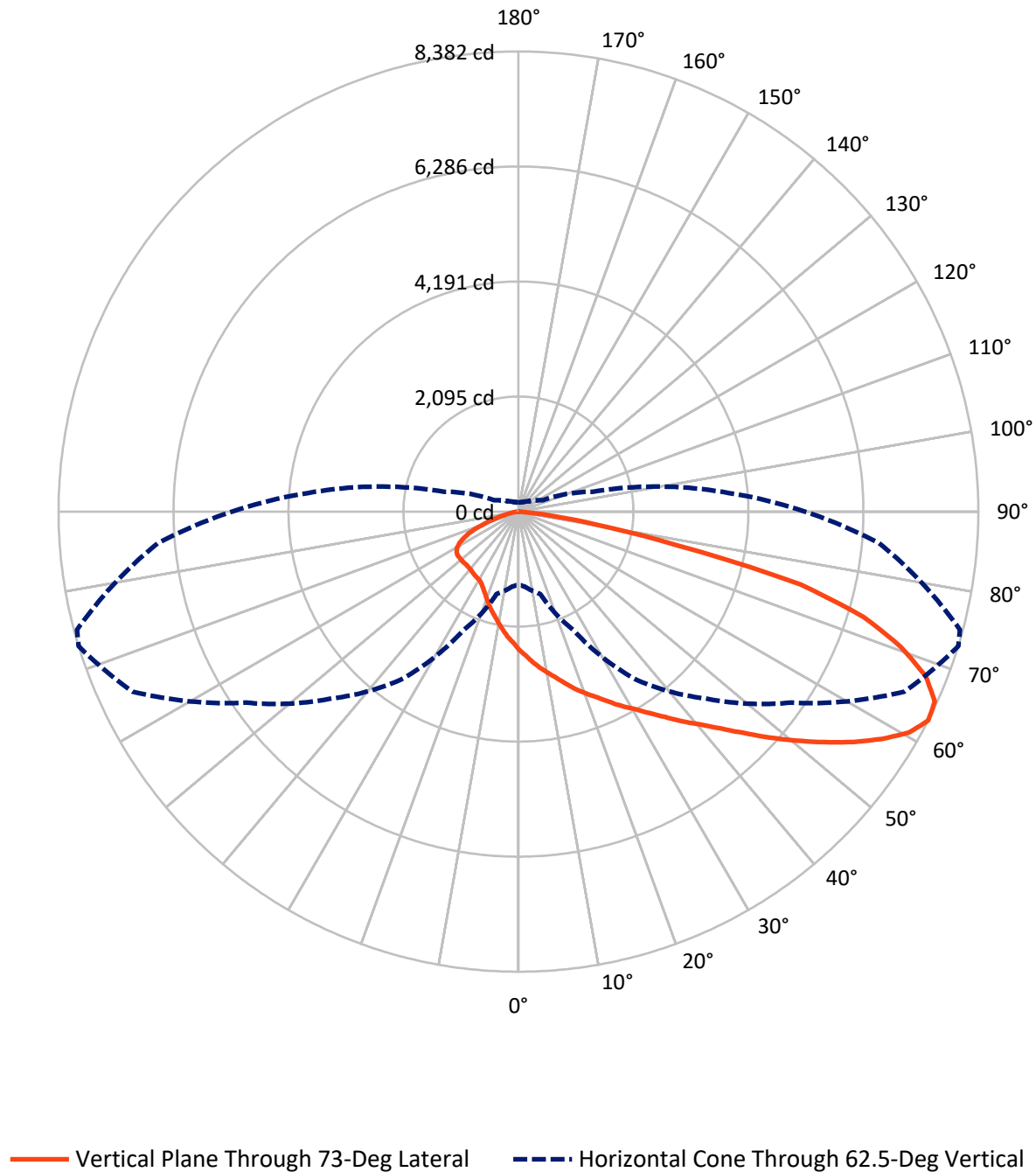


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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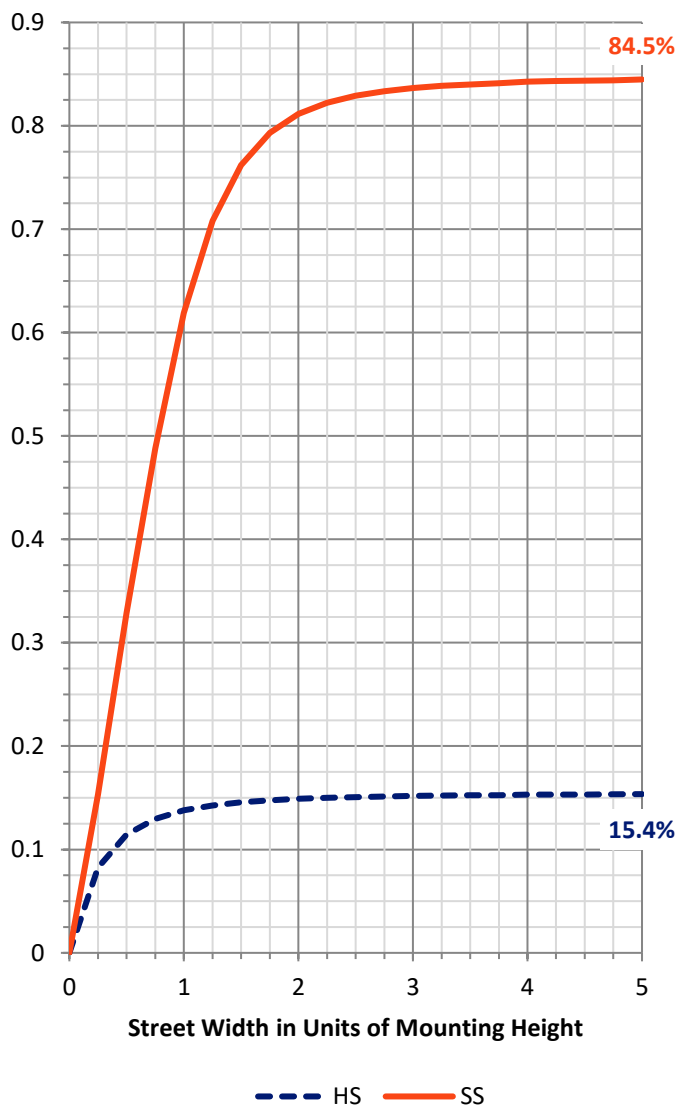
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2066.2	0.0	2066.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	11262.8	0.0	11262.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	13329.0	0.0	13329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	1.8
10°-20°	735.7	5.5
20°-30°	1224.7	9.2
30°-40°	1847.8	13.9
40°-50°	2582.8	19.4
50°-60°	2852.8	21.4
60°-70°	2485.2	18.6
70°-80°	1255.4	9.4
80°-90°	100.8	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°	13329.0	100.0
0°-180°	13329.0	100.0

Coefficient of Utilization



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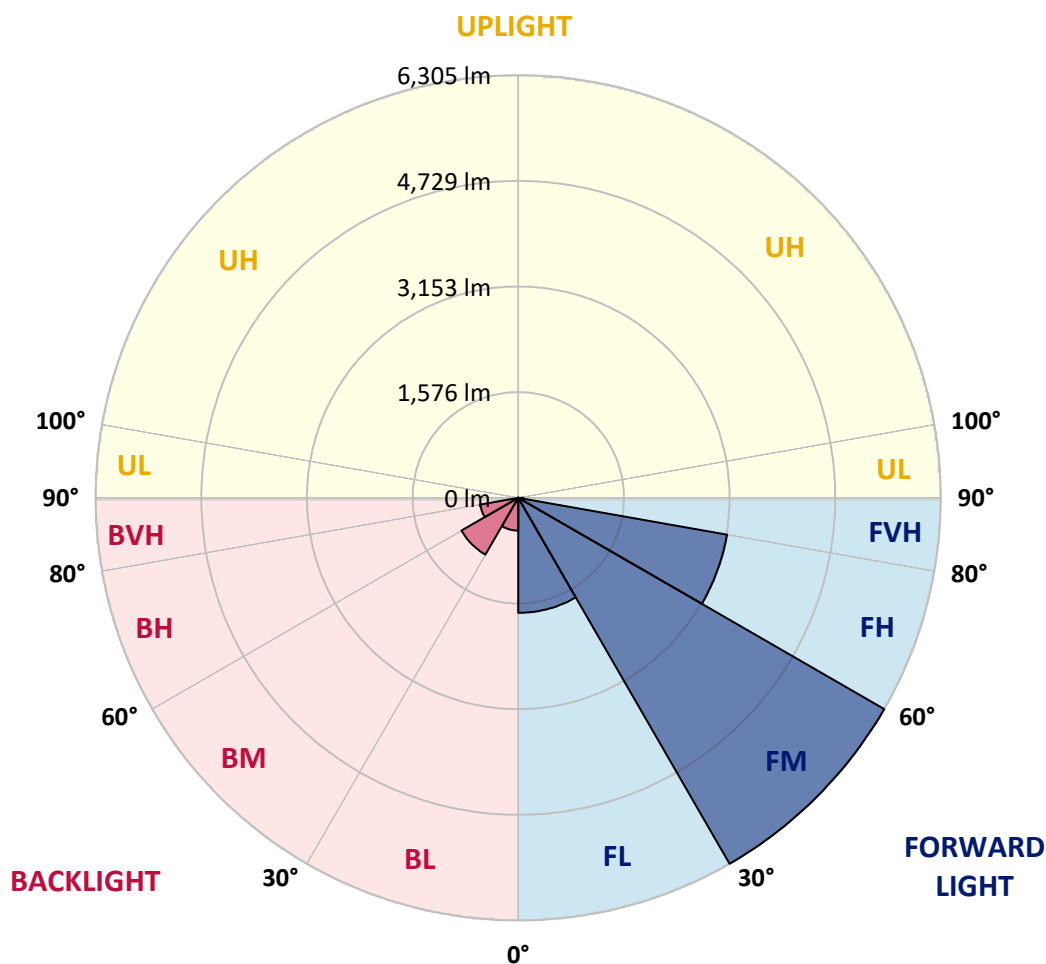
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1715.9	12.9			
FM	(30°-60°)	6305.1	47.3			
FH	(60°-80°)	3163.9	23.7			G2/5000
FVH	(80°-90°)	78.0	0.6			G1/100
BL	(0°-30°)	488.4	3.7	B1/500		
BM	(30°-60°)	978.3	7.3	B1/1000		
BH	(60°-80°)	576.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	22.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9
2.5°	2872.4	2904.3	2886.9	2898.5	2840.4	2802.7	2759.1	2674.9	2628.4	2622.6	2567.4
5°	3293.5	3328.4	3299.3	3290.6	3189.0	3101.8	3003.1	2855.0	2756.2	2738.8	2616.8
7.5°	3714.7	3746.6	3711.8	3685.6	3549.1	3395.2	3250.0	3032.1	2878.2	2849.2	2657.5
10°	4010.9	4039.9	4013.8	3987.7	3845.4	3688.5	3482.3	3197.7	2988.6	2942.1	2683.6
12.5°	4234.5	4252.0	4240.3	4217.1	4083.5	3915.1	3717.6	3383.6	3113.5	3055.4	2724.3
15°	4417.5	4446.5	4432.0	4414.6	4286.8	4118.4	3929.6	3578.2	3258.7	3186.1	2785.3
17.5°	4539.5	4559.8	4562.7	4562.7	4449.5	4283.9	4100.9	3755.3	3403.9	3311.0	2843.4
20°	4594.7	4617.9	4632.4	4655.7	4562.7	4420.4	4234.5	3906.3	3540.4	3435.8	2898.5
22.5°	4620.8	4641.1	4678.9	4731.2	4655.7	4536.6	4365.2	4045.8	3676.9	3566.5	2962.4
25°	4641.1	4667.3	4722.5	4821.2	4768.9	4667.3	4519.2	4205.5	3839.5	3726.3	3055.4
27.5°	4696.3	4728.3	4780.5	4899.6	4835.7	4786.4	4681.8	4376.8	4010.9	3894.7	3168.6
30°	4888.0	4914.1	4911.2	4986.8	4908.3	4893.8	4821.2	4542.4	4176.4	4060.3	3302.2
32.5°	5236.5	5262.7	5198.8	5169.7	4998.4	5001.3	4972.2	4719.6	4373.9	4254.9	3456.2
35°	5611.2	5640.2	5556.0	5506.6	5219.1	5134.9	5149.4	4940.3	4594.7	4475.6	3647.9
37.5°	5945.2	5980.0	5907.4	5834.8	5544.4	5349.8	5346.9	5187.2	4847.3	4725.4	3859.9
40°	6128.2	6168.8	6212.4	6171.7	5866.8	5651.9	5558.9	5439.8	5097.1	4972.2	4089.3
42.5°	6215.3	6328.6	6407.0	6380.8	6131.1	5913.2	5802.9	5704.1	5402.1	5280.1	4362.3
45°	5971.3	5974.2	6139.8	6282.1	6235.6	6090.4	6070.1	6000.4	5750.6	5634.4	4670.2
47.5°	5666.4	5643.1	5759.3	6012.0	6142.7	6180.4	6299.5	6328.6	6148.5	6032.3	4983.9
50°	4934.5	4949.0	5326.6	5689.6	5945.2	6189.2	6462.2	6665.5	6558.0	6447.6	5314.9
52.5°	4013.8	4048.7	4481.4	5280.1	5683.8	6102.0	6558.0	7002.4	6976.2	6871.7	5646.0
55°	3218.0	3273.2	3732.1	4597.6	5349.8	5907.4	6598.7	7310.2	7409.0	7313.1	5971.3
57.5°	2460.0	2518.1	2904.3	3793.1	4922.9	5590.9	6569.6	7580.3	7812.7	7751.7	6270.5
60°	1853.0	1911.1	2157.9	3075.7	4388.5	5236.5	6424.4	7757.5	8175.7	8111.8	6488.3
62.5°	1327.3	1373.8	1556.7	2393.2	3737.9	4815.4	6067.2	7760.4	8381.9	8329.7	6592.9
65°	955.5	955.5	1103.7	1707.8	3128.0	4310.0	5527.0	7403.2	8338.4	8323.8	6520.3
67.5°	688.3	694.1	813.2	1193.7	2494.8	3697.2	4827.0	6767.1	8001.5	8074.1	6258.9
70°	487.9	502.5	557.6	833.5	1884.9	2918.9	4077.7	5933.6	7394.5	7522.2	5753.5
72.5°	377.6	386.3	424.0	580.9	1376.7	2169.5	3250.0	5004.2	6584.1	6729.4	5065.2
75°	290.4	299.1	328.2	426.9	987.5	1521.9	2309.0	3883.1	5309.1	5567.6	4069.0
77.5°	212.0	223.6	244.0	310.8	575.1	967.1	1399.9	2184.1	2930.5	3052.5	2131.8
80°	98.7	113.3	142.3	200.4	310.8	456.0	496.6	842.3	1408.6	1472.5	1155.9
82.5°	55.2	69.7	81.3	122.0	156.8	162.6	168.5	212.0	531.5	586.7	485.0
85°	26.1	34.9	37.8	52.3	52.3	46.5	55.2	40.7	87.1	104.6	101.7
87.5°	0.0	2.9	5.8	14.5	11.6	8.7	8.7	8.7	8.7	11.6	8.7
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°	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9	2523.9
2.5°	2541.3	2503.5	2416.4	2340.9	2291.5	2248.0	2189.9	2163.7	2117.3	2126.0	2099.8
5°	2555.8	2486.1	2332.2	2189.9	2085.3	1992.4	1890.7	1832.6	1768.7	1762.9	1742.6
7.5°	2564.5	2457.1	2236.3	2035.9	1876.2	1733.9	1597.4	1521.9	1443.5	1426.0	1408.6
10°	2555.8	2413.5	2137.6	1876.2	1664.2	1487.0	1333.1	1237.3	1155.9	1135.6	1118.2
12.5°	2564.5	2390.3	2044.7	1728.1	1475.4	1275.0	1100.7	1002.0	926.5	906.2	894.5
15°	2584.9	2375.8	1966.2	1594.5	1307.0	1083.3	912.0	827.7	766.7	746.4	740.6
17.5°	2602.3	2361.2	1882.0	1463.8	1138.5	914.9	766.7	697.0	644.8	624.4	618.6
20°	2625.5	2340.9	1797.8	1338.9	990.4	781.3	650.6	589.6	548.9	534.4	531.5
22.5°	2645.9	2326.4	1719.4	1214.0	853.9	673.8	563.4	514.1	485.0	470.5	470.5
25°	2698.1	2332.2	1652.6	1097.8	752.2	589.6	496.6	458.9	435.7	426.9	426.9
27.5°	2759.1	2355.4	1600.3	999.1	665.1	525.7	450.2	418.2	406.6	395.0	397.9
30°	2846.3	2401.9	1565.4	917.8	601.2	476.3	412.4	389.2	377.6	374.7	374.7
32.5°	2956.6	2477.4	1562.5	865.5	554.7	438.6	386.3	365.9	360.1	357.2	357.2
35°	3087.3	2544.2	1545.1	842.3	525.7	412.4	365.9	351.4	348.5	348.5	348.5
37.5°	3244.2	2654.6	1533.5	810.3	511.2	397.9	351.4	339.8	339.8	339.8	339.8
40°	3406.8	2744.6	1516.1	781.3	505.4	389.2	342.7	328.2	328.2	328.2	328.2
42.5°	3601.4	2875.3	1510.3	766.7	496.6	383.4	331.1	313.7	316.6	316.6	319.5
45°	3836.6	3023.4	1507.4	752.2	493.7	377.6	319.5	299.1	302.1	299.1	299.1
47.5°	4074.8	3194.8	1516.1	743.5	490.8	371.8	310.8	284.6	284.6	281.7	281.7
50°	4324.6	3351.6	1521.9	734.8	485.0	360.1	296.2	273.0	267.2	261.4	264.3
52.5°	4559.8	3496.8	1524.8	720.3	467.6	342.7	284.6	258.5	249.8	241.1	244.0
55°	4795.1	3636.2	1530.6	702.9	444.4	325.3	270.1	244.0	232.3	220.7	220.7
57.5°	5007.1	3758.2	1516.1	659.3	418.2	307.9	255.6	226.5	209.1	197.5	197.5
60°	5152.3	3845.4	1472.5	595.4	383.4	287.5	241.1	209.1	188.8	180.1	180.1
62.5°	5222.0	3859.9	1394.1	490.8	339.8	267.2	223.6	191.7	174.3	168.5	168.5
65°	5155.2	3796.0	1272.1	368.9	293.3	244.0	206.2	177.2	159.7	145.2	145.2
67.5°	4922.9	3615.9	1103.7	278.8	249.8	220.7	188.8	162.6	142.3	130.7	130.7
70°	4455.3	3241.2	853.9	223.6	212.0	191.7	171.4	145.2	127.8	113.3	113.3
72.5°	3842.4	2747.5	601.2	180.1	180.1	162.6	145.2	127.8	110.4	98.7	98.7
75°	2947.9	2033.0	403.7	145.2	148.1	136.5	119.1	104.6	92.9	84.2	84.2
77.5°	1609.0	1004.9	246.9	107.5	110.4	104.6	92.9	84.2	78.4	69.7	69.7
80°	781.3	441.5	142.3	75.5	78.4	75.5	69.7	61.0	61.0	55.2	55.2
82.5°	328.2	165.5	75.5	52.3	52.3	46.5	43.6	43.6	43.6	40.7	40.7
85°	81.3	31.9	31.9	29.0	29.0	29.0	26.1	26.1	26.1	20.3	23.2
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	8.7	2.9	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)