

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: P836474

Luminaire Tested: **ARCH3-190-730-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-730-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16803 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - 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



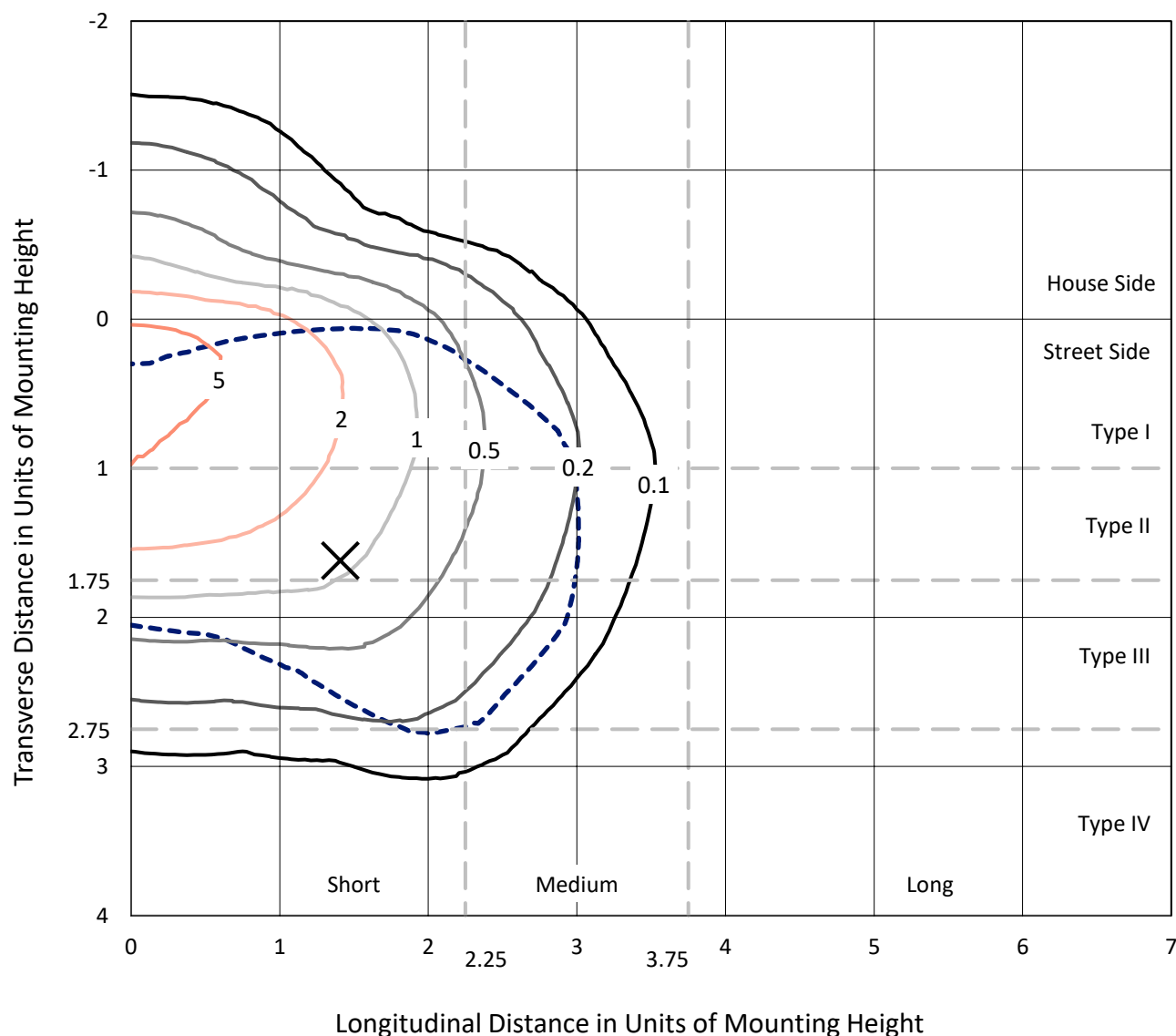
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

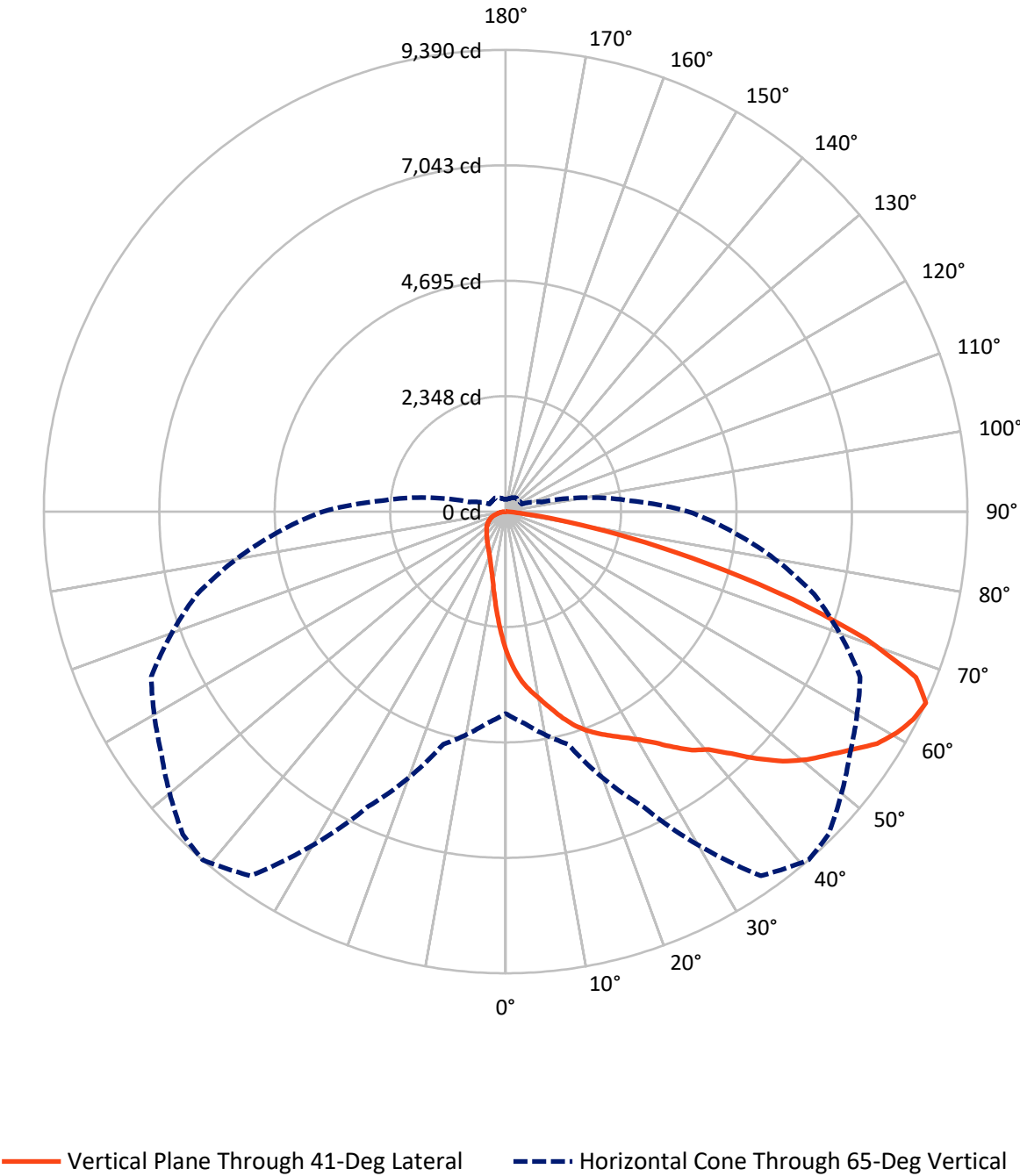


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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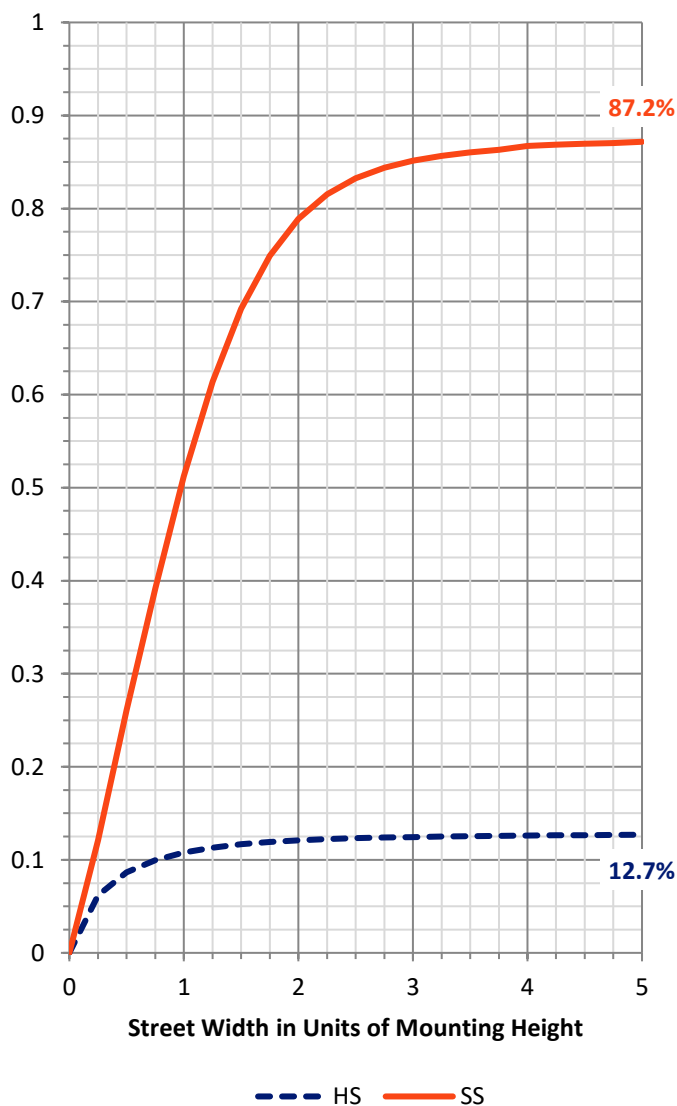
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2157.2	0.0	2157.2
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	14645.8	0.0	14645.8
	% Fixture	87.2	0.0	87.2
Total	Lumens	16803.0	0.0	16803.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.6
10°-20°	799.9	4.8
20°-30°	1376.2	8.2
30°-40°	2087.2	12.4
40°-50°	3057.8	18.2
50°-60°	3861.3	23.0
60°-70°	3620.7	21.5
70°-80°	1613.7	9.6
80°-90°	119.5	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°	16803.0	100.0
0°-180°	16803.0	100.0

Coefficient of Utilization



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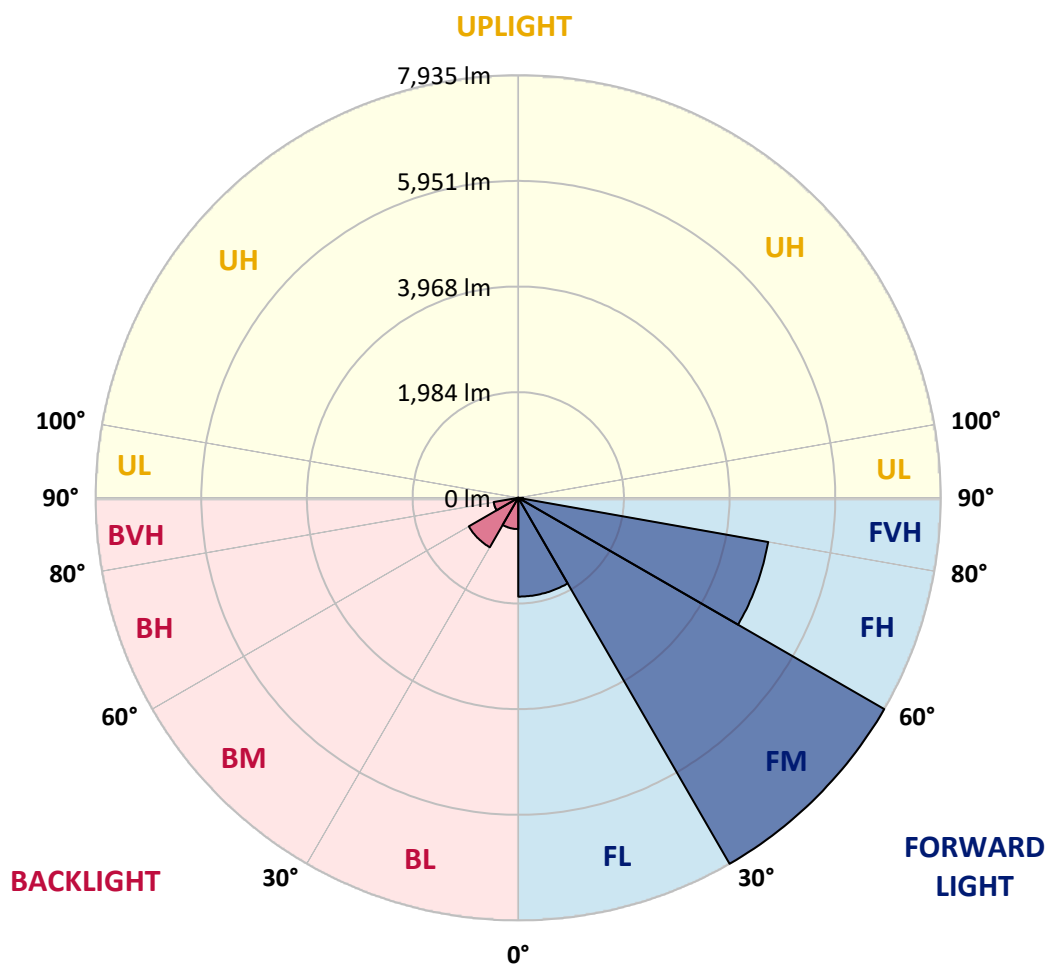
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1855.7	11.0			
FM	(30°-60°)	7935.0	47.2			
FH	(60°-80°)	4765.8	28.4			G2/5000
FVH	(80°-90°)	89.3	0.5			G1/100
BL	(0°-30°)	587.2	3.5	B2/1000		
BM	(30°-60°)	1071.2	6.4	B2/2500		
BH	(60°-80°)	468.6	2.8	B1/500		G1/500
BVH	(80°-90°)	30.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1
2.5°	3302.5	3291.9	3284.8	3245.8	3245.8	3192.7	3196.2	3146.6	3086.4	2990.7	2887.9
5°	3614.4	3600.2	3582.5	3543.5	3529.3	3476.2	3469.1	3398.2	3295.4	3128.9	2944.6
7.5°	3887.2	3873.0	3848.2	3791.5	3752.6	3688.8	3671.1	3578.9	3465.5	3260.0	3001.3
10°	4135.3	4124.6	4092.7	4021.9	3968.7	3890.8	3858.9	3734.8	3593.1	3366.3	3047.4
12.5°	4386.8	4372.7	4330.1	4269.9	4206.1	4114.0	4075.0	3915.6	3734.8	3483.3	3114.7
15°	4620.7	4599.5	4567.6	4503.8	4447.1	4358.5	4316.0	4128.2	3908.5	3614.4	3203.3
17.5°	4773.1	4755.4	4727.0	4691.6	4645.5	4578.2	4535.7	4351.4	4082.1	3741.9	3295.4
20°	4865.2	4858.1	4847.5	4826.2	4805.0	4758.9	4727.0	4553.4	4269.9	3866.0	3384.0
22.5°	4936.1	4929.0	4925.5	4925.5	4929.0	4911.3	4890.0	4741.2	4450.6	3997.1	3465.5
25°	5045.9	5042.4	5035.3	5028.2	5053.0	5056.6	5049.5	4946.7	4677.4	4170.7	3568.3
27.5°	5198.3	5187.7	5173.5	5166.4	5191.2	5208.9	5223.1	5152.2	4918.4	4347.9	3685.2
30°	5432.2	5400.3	5364.9	5340.0	5357.8	5386.1	5418.0	5375.5	5166.4	4567.6	3805.7
32.5°	5708.6	5669.6	5588.1	5542.0	5588.1	5609.4	5634.2	5612.9	5425.1	4805.0	3926.2
35°	6045.2	5999.1	5914.1	5846.8	5928.3	5882.2	5871.6	5850.3	5669.6	5038.8	4060.8
37.5°	6605.1	6537.7	6403.1	6254.3	6254.3	6155.0	6116.1	6052.3	5889.3	5247.9	4192.0
40°	7253.5	7164.9	6991.3	6771.6	6569.6	6364.1	6339.3	6293.2	6148.0	5488.9	4340.8
42.5°	7965.8	7795.7	7554.7	7289.0	6963.0	6729.1	6672.4	6541.3	6399.6	5733.4	4489.6
45°	8756.0	8401.6	8050.8	7916.2	7377.6	7164.9	7058.6	6821.2	6661.8	5988.5	4645.5
47.5°	8883.5	8607.1	8373.3	8352.0	7763.8	7586.6	7466.1	7126.0	6945.2	6261.4	4808.5
50°	8812.7	8646.1	8670.9	8585.9	8047.3	7930.3	7838.2	7452.0	7225.2	6523.6	4957.3
52.5°	8515.0	8607.1	8748.9	8593.0	8316.6	8220.9	8174.8	7802.8	7487.4	6764.5	5092.0
55°	8160.7	8224.5	8529.2	8720.5	8628.4	8543.4	8500.8	8210.3	7746.1	6966.5	5216.0
57.5°	7643.3	7615.0	7951.6	8699.3	8954.4	8904.8	8858.7	8610.7	7987.0	7111.8	5294.0
60°	6867.3	6807.1	7232.3	8274.1	9060.7	9138.7	9117.4	8876.5	8171.3	7108.2	5262.1
62.5°	5524.3	5673.1	6261.4	7579.5	9106.8	9305.2	9266.2	8897.7	8231.5	6902.7	5060.1
65°	4106.9	4319.5	4897.1	6622.8	9043.0	9390.3	9284.0	8550.5	7951.6	6495.2	4617.2
67.5°	2958.8	3146.6	3568.3	5449.9	8430.0	9000.5	8876.5	7983.5	7306.7	5917.6	4004.1
70°	2023.3	2158.0	2445.0	3968.7	7196.8	7781.5	7703.6	7136.6	6289.7	5230.2	3252.9
72.5°	1428.0	1484.7	1669.0	2618.6	5467.6	6105.4	6013.3	5871.6	5053.0	4347.9	2530.1
75°	1070.1	1105.6	1204.8	1693.8	3688.8	4230.9	4145.9	4227.4	3773.8	3291.9	1842.6
77.5°	404.0	439.4	683.9	1080.8	2182.8	2597.4	2512.3	2561.9	2097.7	1661.9	917.8
80°	109.8	116.9	226.8	513.8	992.2	1293.4	1176.4	1009.9	779.6	765.4	485.5
82.5°	46.1	53.2	102.8	276.4	354.3	354.3	297.7	368.5	297.7	357.9	233.9
85°	17.7	21.3	24.8	70.9	46.1	49.6	53.2	70.9	60.2	74.4	53.2
87.5°	0.0	0.0	0.0	3.5	3.5	7.1	3.5	7.1	10.6	10.6	10.6
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°	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1	2863.1
2.5°	2845.4	2806.4	2749.8	2657.6	2561.9	2508.8	2441.5	2430.8	2360.0	2352.9	2324.5
5°	2863.1	2781.6	2636.4	2459.2	2285.6	2150.9	2051.7	1998.5	1895.8	1895.8	1867.4
7.5°	2877.3	2749.8	2515.9	2253.7	2016.2	1835.5	1700.9	1644.2	1552.1	1545.0	1523.7
10°	2880.9	2710.8	2384.8	2044.6	1754.0	1569.8	1438.7	1374.9	1293.4	1286.3	1272.1
12.5°	2909.2	2689.5	2267.8	1863.9	1566.2	1367.8	1240.2	1187.1	1123.3	1116.2	1102.0
15°	2955.3	2689.5	2168.6	1711.5	1399.7	1215.4	1105.6	1056.0	1009.9	1002.8	995.7
17.5°	3001.3	2682.4	2069.4	1569.8	1261.5	1094.9	999.3	960.3	924.9	921.3	914.2
20°	3043.9	2678.9	1970.2	1449.3	1155.2	995.7	921.3	885.9	857.5	857.5	854.0
22.5°	3086.4	2671.8	1874.5	1335.9	1063.0	921.3	857.5	818.5	797.3	797.3	793.7
25°	3150.2	2671.8	1785.9	1240.2	988.6	864.6	800.8	772.5	754.8	751.2	751.2
27.5°	3224.6	2693.1	1708.0	1155.2	924.9	807.9	758.3	730.0	708.7	701.6	705.2
30°	3306.1	2710.8	1637.1	1080.8	864.6	765.4	712.2	683.9	662.6	655.5	659.1
32.5°	3387.6	2732.0	1573.3	1013.4	804.4	726.4	673.3	641.4	620.1	616.6	616.6
35°	3476.2	2753.3	1509.5	956.7	754.8	687.4	637.8	602.4	588.2	581.1	584.7
37.5°	3564.8	2788.7	1449.3	903.6	719.3	652.0	605.9	570.5	559.9	556.3	556.3
40°	3671.1	2841.9	1424.5	868.2	687.4	620.1	581.1	545.7	535.1	535.1	535.1
42.5°	3759.6	2884.4	1403.2	829.2	662.6	591.8	556.3	528.0	520.9	517.4	520.9
45°	3848.2	2923.4	1374.9	793.7	630.7	563.4	535.1	506.7	499.6	499.6	499.6
47.5°	3936.8	2944.6	1335.9	758.3	602.4	538.6	513.8	489.0	481.9	481.9	481.9
50°	4007.7	2962.4	1279.2	719.3	570.5	517.4	492.5	467.7	460.7	460.7	460.7
52.5°	4078.6	2965.9	1219.0	673.3	538.6	492.5	471.3	446.5	439.4	435.8	435.8
55°	4142.3	2962.4	1148.1	620.1	503.2	464.2	446.5	425.2	411.0	396.9	404.0
57.5°	4188.4	2958.8	1066.6	567.0	467.7	435.8	428.8	400.4	372.1	336.6	343.7
60°	4170.7	2919.8	978.0	499.6	428.8	407.5	407.5	368.5	318.9	301.2	304.7
62.5°	4057.3	2810.0	885.9	428.8	389.8	379.2	375.6	333.1	294.1	276.4	279.9
65°	3717.1	2533.6	751.2	365.0	350.8	347.3	347.3	308.3	272.8	251.6	255.1
67.5°	3199.8	2126.1	613.0	308.3	311.8	318.9	318.9	283.5	248.0	226.8	230.3
70°	2565.5	1661.9	489.0	265.8	269.3	279.9	287.0	255.1	223.2	202.0	202.0
72.5°	1931.2	1261.5	393.3	223.2	241.0	241.0	251.6	226.8	194.9	173.6	177.2
75°	1399.7	903.6	311.8	187.8	209.1	205.5	205.5	191.3	166.5	152.4	152.4
77.5°	662.6	474.8	248.0	134.7	163.0	159.5	163.0	152.4	141.7	127.6	131.1
80°	326.0	233.9	159.5	95.7	113.4	116.9	127.6	120.5	116.9	106.3	106.3
82.5°	155.9	92.1	74.4	67.3	78.0	81.5	88.6	88.6	92.1	85.0	85.0
85°	42.5	24.8	31.9	42.5	49.6	53.2	60.2	63.8	63.8	60.2	63.8
87.5°	10.6	10.6	14.2	21.3	24.8	28.3	31.9	31.9	14.2	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)