

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: P836497

Luminaire Tested: **ARCH3-190-750-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836497
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: ARCH3-190-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1440mA 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: 17806 lumens
Efficiency: N/A
Efficacy: 94.0 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): 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



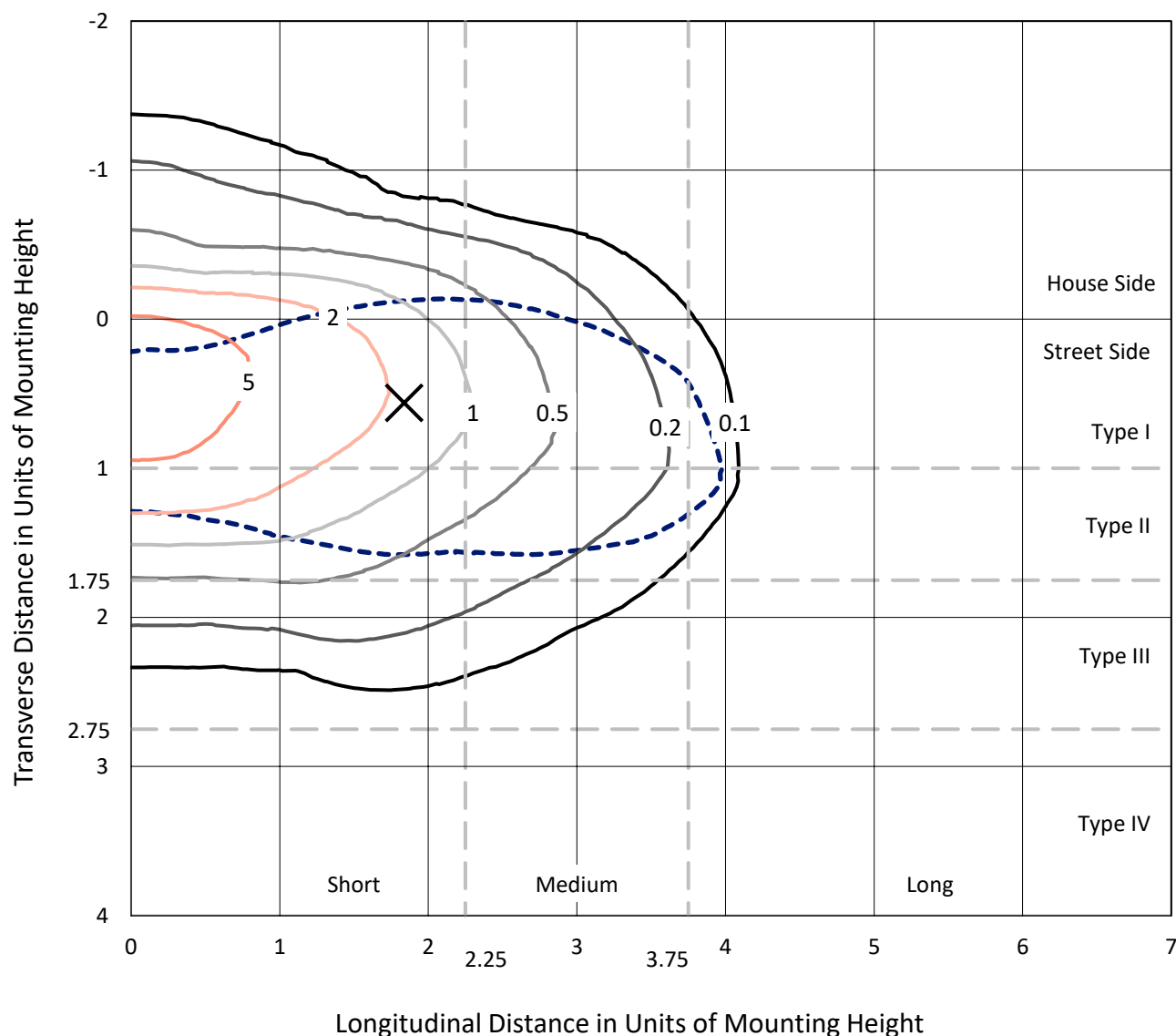
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

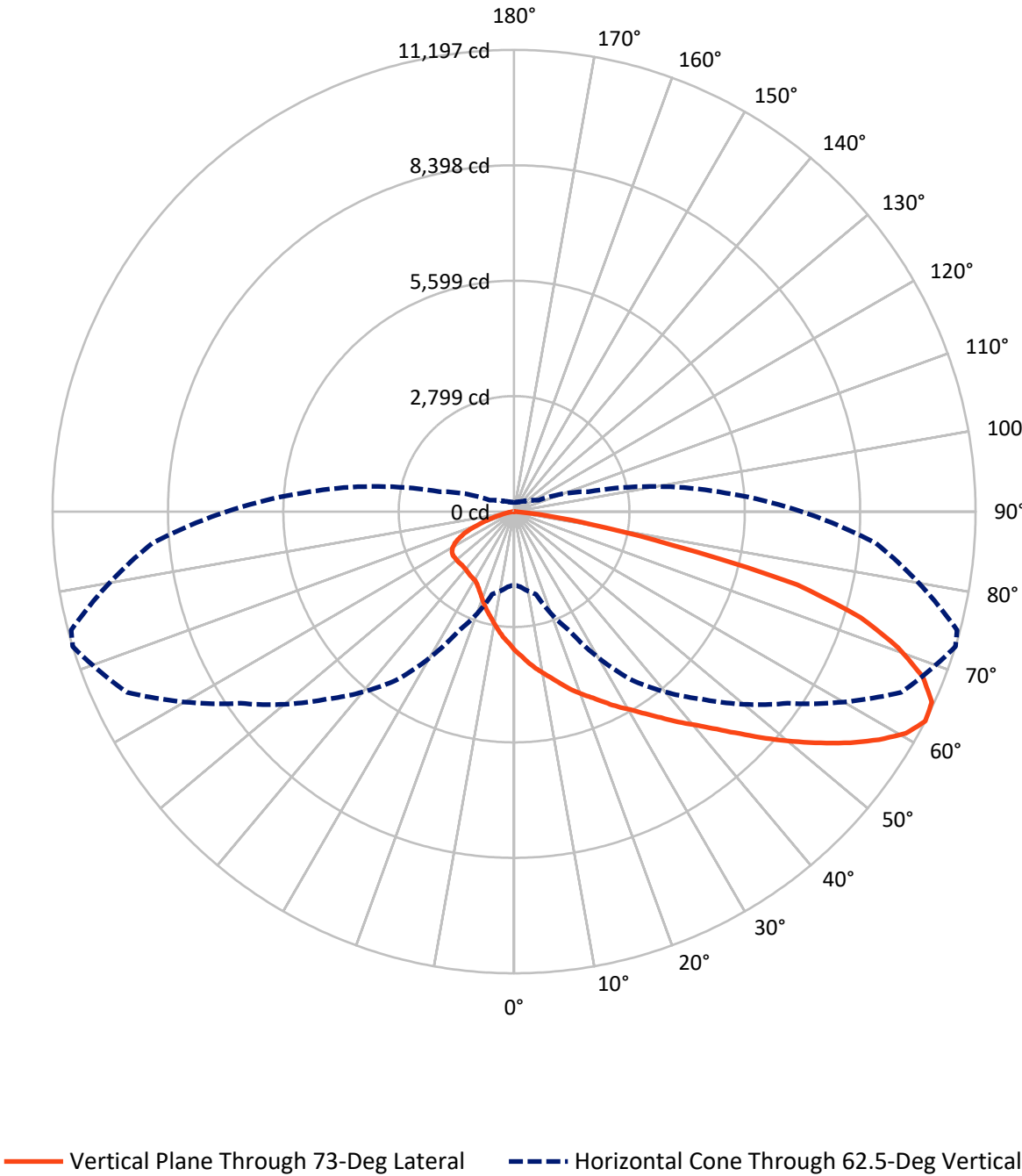


Based on 25 foot mounting height. Maximum calculated value = 8.5 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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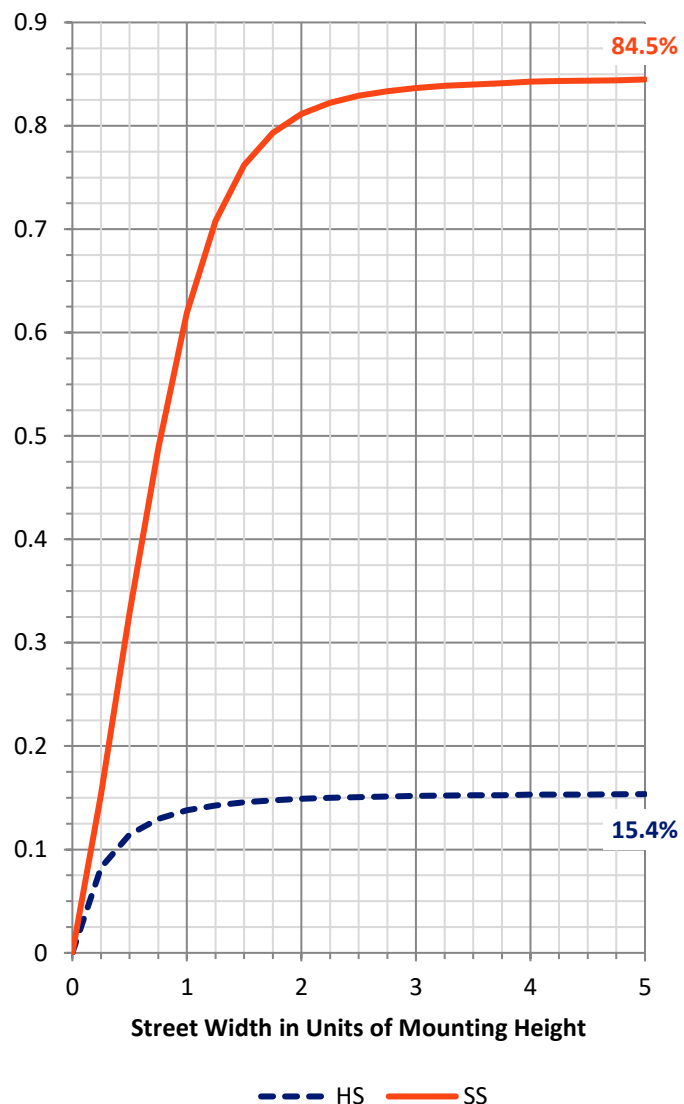
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2760.2	0.0	2760.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	15045.8	0.0	15045.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	17806.0	0.0	17806.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.7	1.8
10°-20°	982.9	5.5
20°-30°	1636.0	9.2
30°-40°	2468.5	13.9
40°-50°	3450.3	19.4
50°-60°	3811.1	21.4
60°-70°	3319.9	18.6
70°-80°	1677.0	9.4
80°-90°	134.6	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°	17806.0	100.0
0°-180°	17806.0	100.0

Coefficient of Utilization



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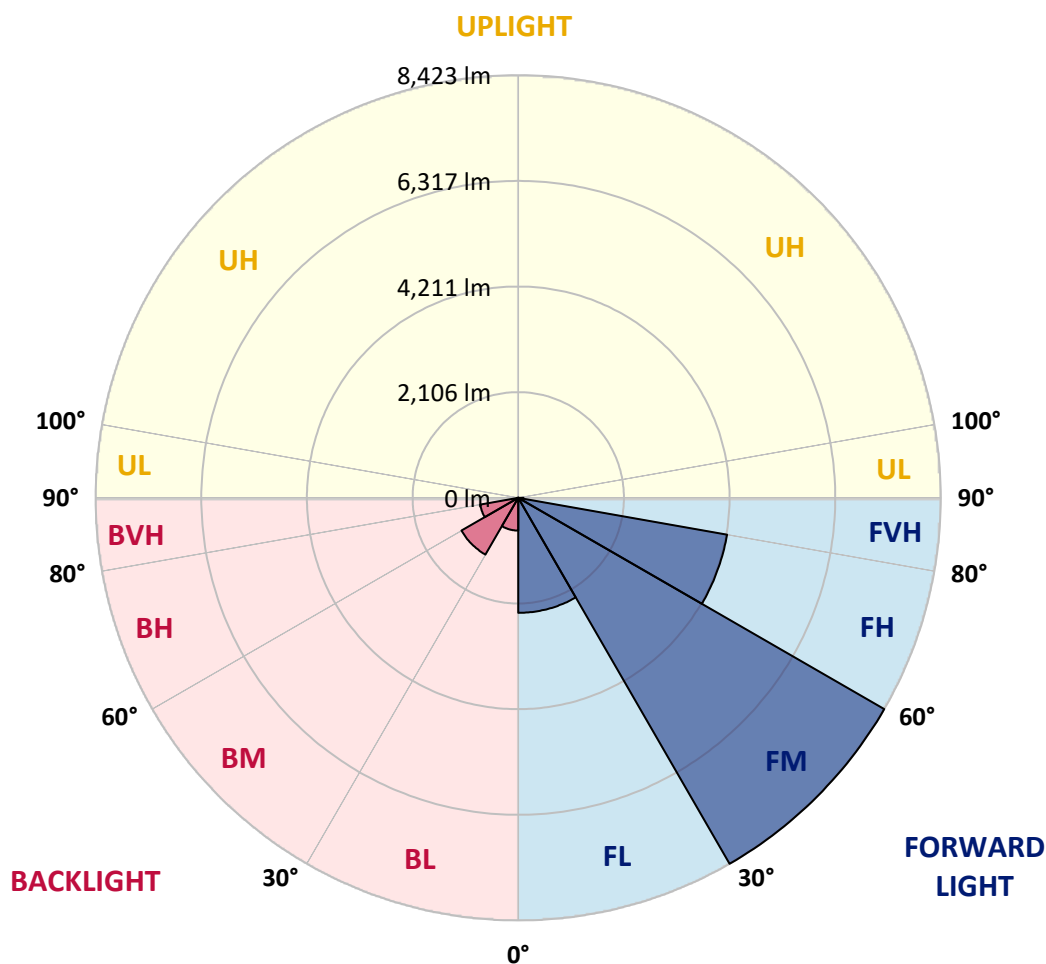
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2292.2	12.9			
FM	(30°-60°)	8422.9	47.3			
FH	(60°-80°)	4226.6	23.7			G2/5000
FVH	(80°-90°)	104.2	0.6			G2/225
BL	(0°-30°)	652.4	3.7	B2/1000		
BM	(30°-60°)	1306.9	7.3	B2/2500		
BH	(60°-80°)	770.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	30.4	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°	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6
2.5°	3837.2	3879.9	3856.6	3872.1	3794.5	3744.1	3685.9	3573.4	3511.3	3503.5	3429.8
5°	4399.8	4446.3	4407.5	4395.9	4260.1	4143.7	4011.8	3813.9	3682.0	3658.7	3495.8
7.5°	4962.3	5005.0	4958.5	4923.6	4741.2	4535.6	4341.6	4050.6	3844.9	3806.1	3550.1
10°	5358.1	5396.9	5362.0	5327.1	5136.9	4927.4	4652.0	4271.7	3992.4	3930.3	3585.0
12.5°	5656.8	5680.1	5664.6	5633.6	5455.1	5230.1	4966.2	4520.0	4159.2	4081.6	3639.3
15°	5901.3	5940.1	5920.7	5897.4	5726.7	5501.7	5249.5	4780.0	4353.2	4256.2	3720.8
17.5°	6064.2	6091.4	6095.3	6095.3	5944.0	5722.8	5478.4	5016.7	4547.2	4423.0	3798.4
20°	6137.9	6169.0	6188.4	6219.4	6095.3	5905.2	5656.8	5218.4	4729.6	4589.9	3872.1
22.5°	6172.9	6200.0	6250.5	6320.3	6219.4	6060.4	5831.4	5404.7	4911.9	4764.5	3957.5
25°	6200.0	6234.9	6308.7	6440.6	6370.7	6234.9	6037.1	5618.0	5129.2	4977.9	4081.6
27.5°	6273.7	6316.4	6386.3	6545.3	6460.0	6394.0	6254.3	5847.0	5358.1	5202.9	4232.9
30°	6529.8	6564.7	6560.9	6661.7	6557.0	6537.6	6440.6	6068.1	5579.2	5424.1	4411.4
32.5°	6995.4	7030.3	6945.0	6906.2	6677.2	6681.1	6642.3	6304.8	5843.1	5684.0	4617.0
35°	7495.9	7534.7	7422.2	7356.2	6972.1	6859.6	6879.0	6599.7	6137.9	5978.9	4873.1
37.5°	7942.1	7988.6	7891.6	7794.7	7406.7	7146.7	7142.8	6929.4	6475.5	6312.5	5156.3
40°	8186.5	8240.8	8299.0	8244.7	7837.3	7550.2	7426.1	7267.0	6809.2	6642.3	5462.9
42.5°	8302.9	8454.2	8559.0	8524.1	8190.4	7899.4	7752.0	7620.1	7216.6	7053.6	5827.6
45°	7977.0	7980.9	8202.0	8392.2	8330.1	8136.1	8108.9	8015.8	7682.1	7526.9	6238.8
47.5°	7569.6	7538.6	7693.8	8031.3	8205.9	8256.4	8415.4	8454.2	8213.7	8058.5	6657.9
50°	6591.9	6611.3	7115.7	7600.7	7942.1	8268.0	8632.7	8904.3	8760.7	8613.3	7100.2
52.5°	5362.0	5408.5	5986.6	7053.6	7592.9	8151.6	8760.7	9354.4	9319.4	9179.8	7542.5
55°	4298.9	4372.6	4985.6	6141.8	7146.7	7891.6	8815.1	9765.6	9897.5	9769.5	7977.0
57.5°	3286.2	3363.8	3879.9	5067.1	6576.4	7468.7	8776.3	10126.5	10436.8	10355.4	8376.6
60°	2475.4	2553.0	2882.7	4108.8	5862.5	6995.4	8582.3	10363.1	10921.8	10836.5	8667.6
62.5°	1773.1	1835.2	2079.6	3197.0	4993.4	6432.8	8105.0	10367.0	11197.3	11127.5	8807.3
65°	1276.5	1276.5	1474.3	2281.4	4178.6	5757.7	7383.4	9889.8	11139.1	11119.7	8710.3
67.5°	919.5	927.3	1086.4	1594.6	3332.8	4939.1	6448.3	9040.1	10689.0	10786.0	8361.1
70°	651.8	671.2	744.9	1113.5	2518.0	3899.3	5447.3	7926.6	9878.1	10048.9	7686.0
72.5°	504.4	516.0	566.5	776.0	1839.1	2898.3	4341.6	6685.0	8795.7	8989.7	6766.5
75°	388.0	399.6	438.4	570.3	1319.2	2033.0	3084.5	5187.4	7092.4	7437.7	5435.7
77.5°	283.2	298.7	325.9	415.1	768.2	1292.0	1870.1	2917.7	3914.8	4077.7	2847.8
80°	131.9	151.3	190.1	267.7	415.1	609.1	663.5	1125.2	1881.7	1967.1	1544.2
82.5°	73.7	93.1	108.6	163.0	209.5	217.3	225.0	283.2	710.0	783.7	647.9
85°	34.9	46.6	50.4	69.8	69.8	62.1	73.7	54.3	116.4	139.7	135.8
87.5°	0.0	3.9	7.8	19.4	15.5	11.6	11.6	11.6	11.6	15.5	11.6
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°	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6	3371.6
2.5°	3394.9	3344.4	3228.0	3127.2	3061.2	3003.0	2925.4	2890.5	2828.4	2840.1	2805.1
5°	3414.3	3321.2	3115.5	2925.4	2785.7	2661.6	2525.8	2448.2	2362.8	2355.1	2327.9
7.5°	3425.9	3282.4	2987.5	2719.8	2506.4	2316.3	2133.9	2033.0	1928.3	1905.0	1881.7
10°	3414.3	3224.2	2855.6	2506.4	2223.2	1986.5	1780.9	1652.8	1544.2	1517.0	1493.7
12.5°	3425.9	3193.1	2731.4	2308.5	1971.0	1703.3	1470.5	1338.6	1237.7	1210.5	1195.0
15°	3453.1	3173.7	2626.7	2130.0	1745.9	1447.2	1218.3	1105.8	1024.3	997.1	989.4
17.5°	3476.4	3154.3	2514.2	1955.5	1520.9	1222.2	1024.3	931.2	861.3	834.2	826.4
20°	3507.4	3127.2	2401.6	1788.6	1323.0	1043.7	869.1	787.6	733.3	713.9	710.0
22.5°	3534.6	3107.8	2296.9	1621.8	1140.7	900.1	752.7	686.7	647.9	628.5	628.5
25°	3604.4	3115.5	2207.6	1466.6	1004.9	787.6	663.5	613.0	582.0	570.3	570.3
27.5°	3685.9	3146.6	2137.8	1334.7	888.5	702.3	601.4	558.7	543.2	527.7	531.5
30°	3802.3	3208.6	2091.2	1226.0	803.1	636.3	550.9	519.9	504.4	500.5	500.5
32.5°	3949.7	3309.5	2087.4	1156.2	741.1	585.9	516.0	488.9	481.1	477.2	477.2
35°	4124.3	3398.8	2064.1	1125.2	702.3	550.9	488.9	469.5	465.6	465.6	465.6
37.5°	4333.8	3546.2	2048.6	1082.5	682.9	531.5	469.5	453.9	453.9	453.9	453.9
40°	4551.1	3666.5	2025.3	1043.7	675.1	519.9	457.8	438.4	438.4	438.4	438.4
42.5°	4811.0	3841.1	2017.5	1024.3	663.5	512.1	442.3	419.0	422.9	422.9	426.8
45°	5125.3	4038.9	2013.7	1004.9	659.6	504.4	426.8	399.6	403.5	399.6	399.6
47.5°	5443.5	4267.9	2025.3	993.2	655.7	496.6	415.1	380.2	380.2	376.3	376.3
50°	5777.1	4477.4	2033.0	981.6	647.9	481.1	395.7	364.7	356.9	349.2	353.1
52.5°	6091.4	4671.4	2036.9	962.2	624.7	457.8	380.2	345.3	333.7	322.0	325.9
55°	6405.7	4857.6	2044.7	938.9	593.6	434.5	360.8	325.9	310.4	294.9	294.9
57.5°	6688.9	5020.5	2025.3	880.7	558.7	411.3	341.4	302.6	279.4	263.8	263.8
60°	6882.9	5136.9	1967.1	795.4	512.1	384.1	322.0	279.4	252.2	240.6	240.6
62.5°	6976.0	5156.3	1862.3	655.7	453.9	356.9	298.7	256.1	232.8	225.0	225.0
65°	6886.8	5071.0	1699.4	492.7	391.9	325.9	275.5	236.7	213.4	194.0	194.0
67.5°	6576.4	4830.4	1474.3	372.5	333.7	294.9	252.2	217.3	190.1	174.6	174.6
70°	5951.7	4329.9	1140.7	298.7	283.2	256.1	228.9	194.0	170.7	151.3	151.3
72.5°	5133.1	3670.4	803.1	240.6	240.6	217.3	194.0	170.7	147.4	131.9	131.9
75°	3938.1	2715.9	539.3	194.0	197.9	182.4	159.1	139.7	124.2	112.5	112.5
77.5°	2149.4	1342.4	329.8	143.6	147.4	139.7	124.2	112.5	104.8	93.1	93.1
80°	1043.7	589.7	190.1	100.9	104.8	100.9	93.1	81.5	81.5	73.7	73.7
82.5°	438.4	221.2	100.9	69.8	69.8	62.1	58.2	58.2	58.2	54.3	54.3
85°	108.6	42.7	42.7	38.8	38.8	38.8	34.9	34.9	34.9	27.2	31.0
87.5°	15.5	15.5	15.5	15.5	15.5	15.5	11.6	3.9	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)