

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: P841509

Luminaire Tested: **ARCH4-190-722-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841509
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: ARCH4-190-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA 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: 17669 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 190
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

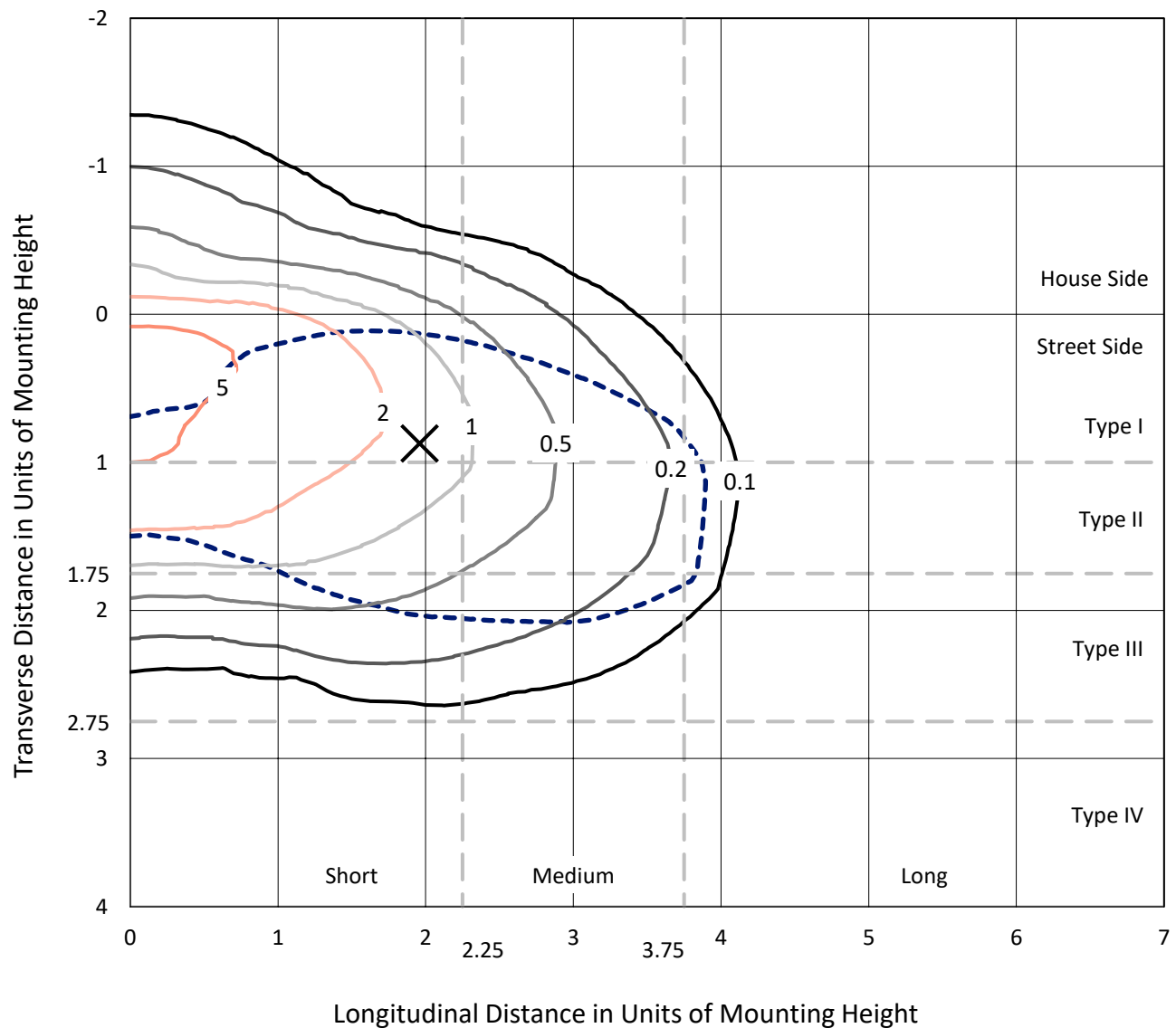


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Iso-Footcandle Lines of Horizontal Illumination

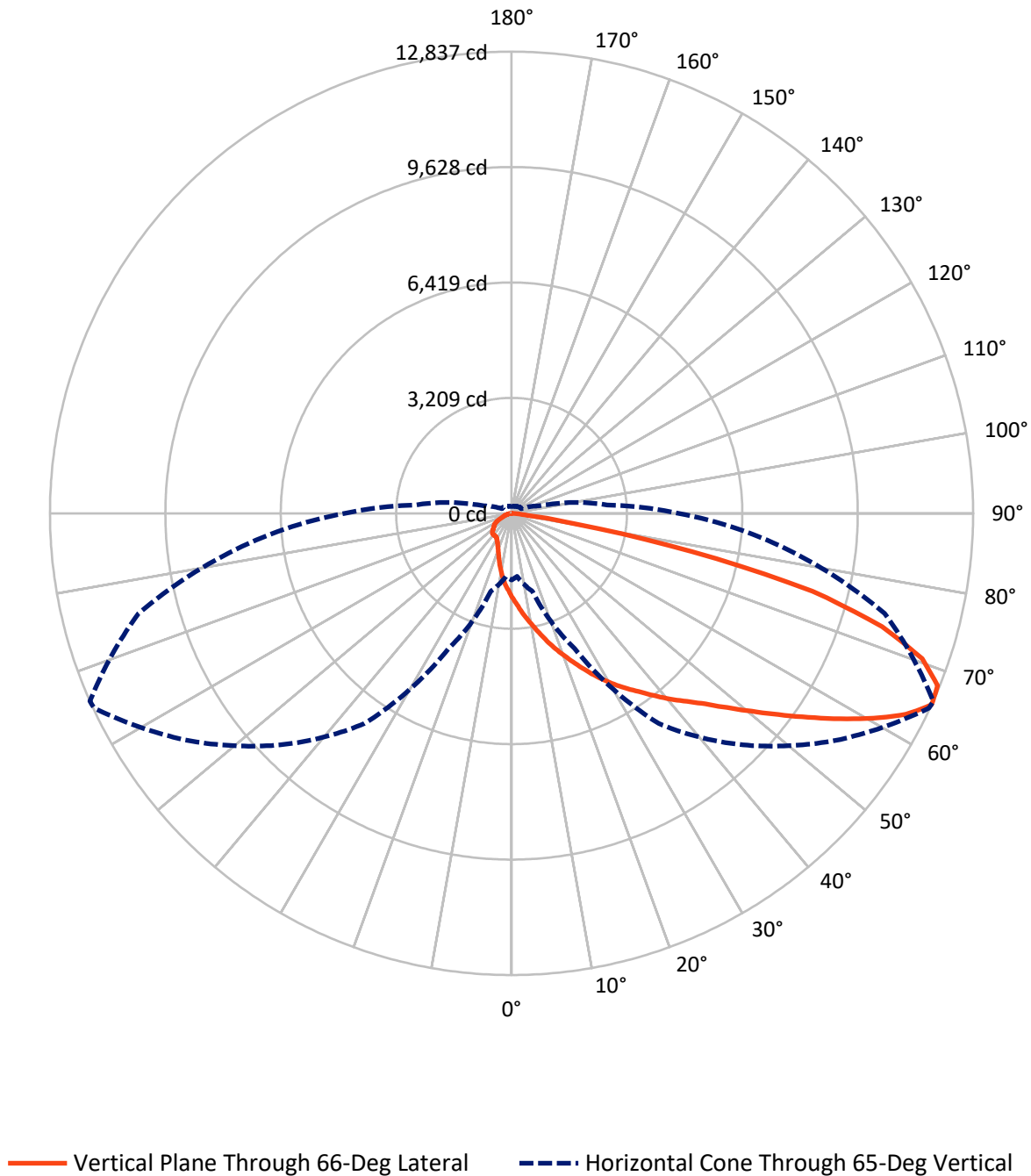
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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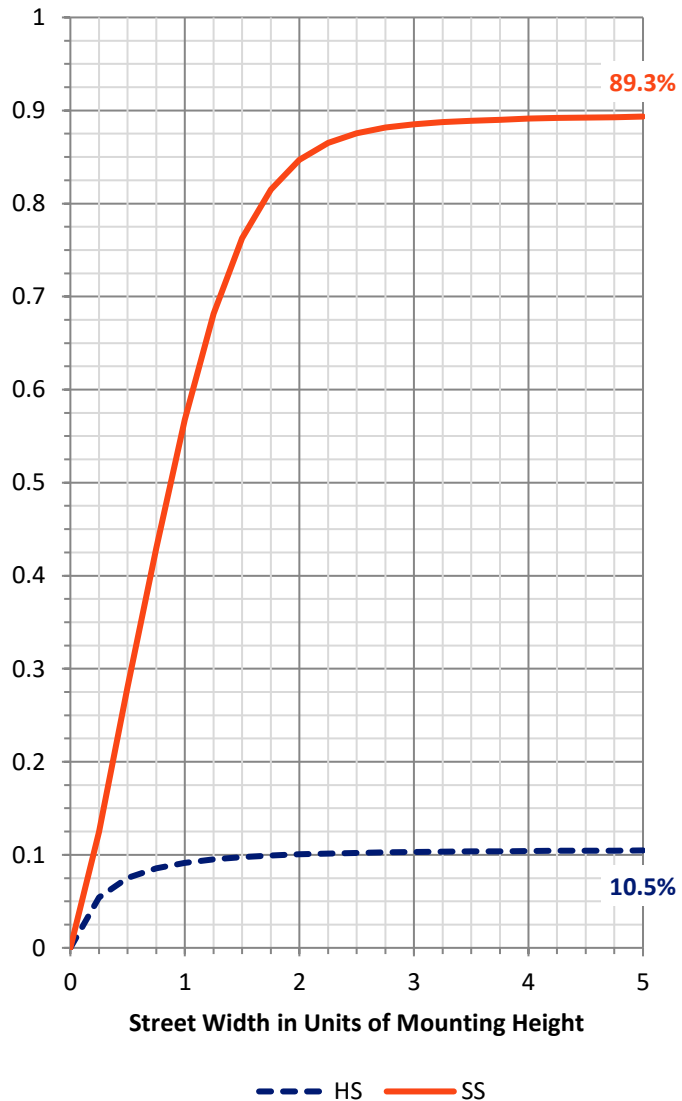
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1868.9	0.0	1868.9
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	15800.1	0.0	15800.1
	% Fixture	89.4	0.0	89.4
Total	Lumens	17669.0	0.0	17669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.8	1.3
10°-20°	752.2	4.3
20°-30°	1361.0	7.7
30°-40°	2128.3	12.0
40°-50°	3228.6	18.3
50°-60°	4102.1	23.2
60°-70°	3833.0	21.7
70°-80°	1905.0	10.8
80°-90°	128.0	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°	17669.0	100.0
0°-180°	17669.0	100.0

Coefficient of Utilization



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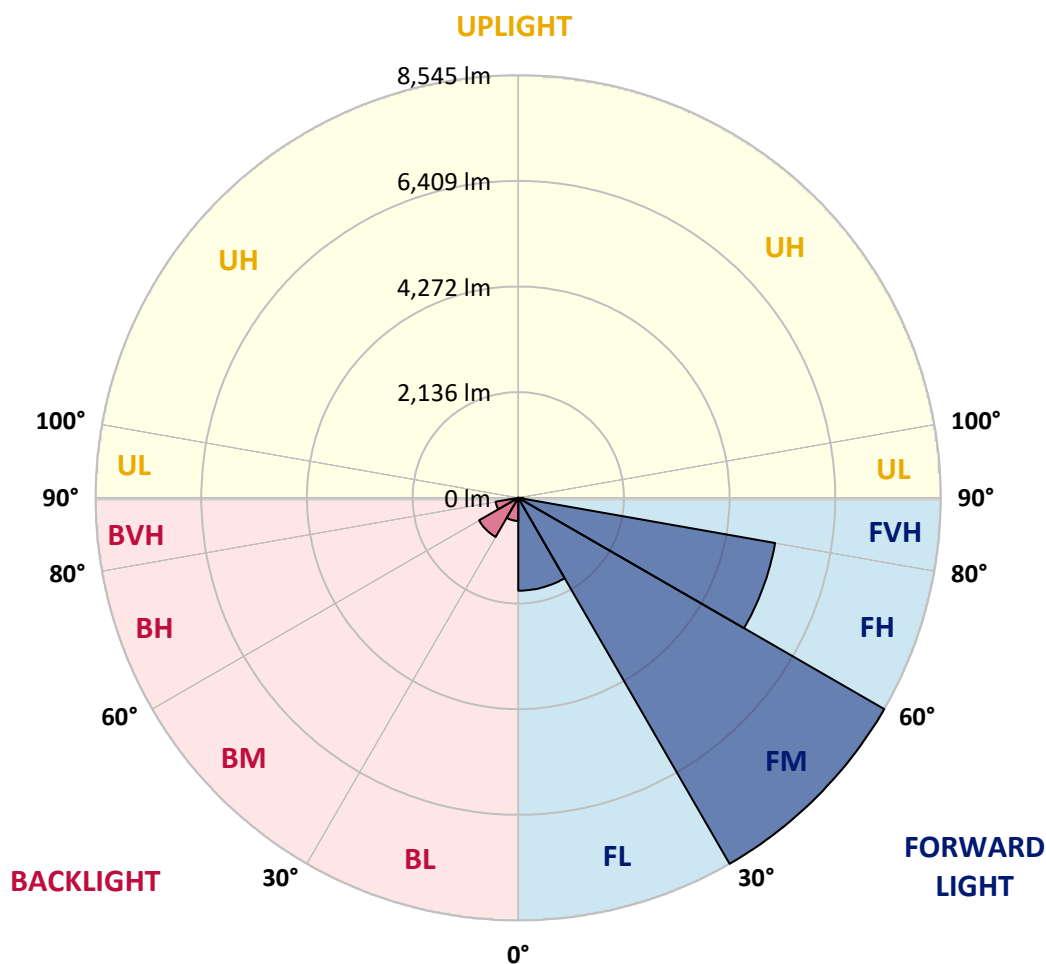
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1877.3	10.6			
FM	(30°-60°)	8544.9	48.4			
FH	(60°-80°)	5272.5	29.8			G3/7500
FVH	(80°-90°)	105.3	0.6			G2/225
BL	(0°-30°)	466.8	2.6	B1/500		
BM	(30°-60°)	914.1	5.2	B1/1000		
BH	(60°-80°)	465.4	2.6	B1/500		G1/500
BVH	(80°-90°)	22.7	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4
2.5°	2731.2	2753.5	2764.6	2768.3	2683.0	2646.0	2608.9	2523.7	2505.2	2457.0	2394.0
5°	3213.0	3242.6	3235.2	3220.4	3116.6	2998.0	2901.7	2742.3	2716.4	2601.5	2460.7
7.5°	3687.3	3713.3	3705.9	3650.3	3535.4	3368.6	3209.3	2975.8	2938.7	2753.5	2527.4
10°	4083.9	4106.1	4102.4	4046.8	3909.7	3705.9	3513.2	3201.9	3157.4	2894.3	2583.0
12.5°	4410.0	4439.6	4435.9	4398.9	4276.6	4054.2	3835.6	3461.3	3405.7	3064.7	2660.8
15°	4665.7	4702.7	4702.7	4687.9	4602.7	4417.4	4169.1	3746.6	3679.9	3261.2	2757.2
17.5°	4821.3	4851.0	4876.9	4902.8	4843.6	4702.7	4476.7	4032.0	3961.6	3453.9	2857.2
20°	4902.8	4932.5	4951.0	5006.6	5017.7	4947.3	4769.4	4313.6	4239.5	3672.5	2972.1
22.5°	5036.3	5062.2	5065.9	5114.1	5136.3	5154.8	5043.7	4591.6	4532.3	3913.4	3101.8
25°	5258.6	5288.3	5277.1	5299.4	5303.1	5325.3	5314.2	4910.3	4851.0	4187.6	3257.4
27.5°	5544.0	5581.0	5573.6	5551.4	5518.0	5499.5	5547.7	5232.7	5177.1	4461.9	3416.8
30°	5851.5	5896.0	5884.9	5840.4	5751.5	5673.7	5740.4	5536.5	5484.7	4743.5	3594.7
32.5°	6162.8	6214.7	6211.0	6136.9	5985.0	5851.5	5951.6	5821.9	5784.8	5047.4	3787.4
35°	6366.7	6433.4	6426.0	6381.5	6185.1	6070.2	6192.5	6114.7	6088.7	5418.0	4065.3
37.5°	6696.5	6766.9	6703.9	6592.7	6366.7	6307.4	6455.6	6444.5	6426.0	5810.8	4358.1
40°	7496.9	7600.7	7433.9	6978.1	6607.5	6555.7	6766.9	6811.4	6792.8	6199.9	4621.2
42.5°	8334.5	8490.1	8230.7	7600.7	7044.8	6855.8	7107.8	7170.8	7148.6	6533.4	4858.4
45°	8842.2	8908.9	8649.5	8160.3	7819.4	7219.0	7471.0	7574.8	7556.2	6933.7	5162.3
47.5°	9257.2	9231.3	8934.8	8605.0	8668.0	7730.4	7882.4	8086.2	8071.4	7374.7	5495.8
50°	9346.2	9286.9	9168.3	8960.8	9127.5	8249.2	8315.9	8668.0	8653.2	7863.8	5833.0
52.5°	8719.9	8642.1	8964.5	9138.6	9083.1	8627.2	8794.0	9305.4	9298.0	8393.8	6155.4
55°	7156.0	7093.0	7960.2	8860.7	9034.9	8894.1	9323.9	9968.8	10009.5	8957.1	6448.2
57.5°	5629.2	5562.5	6414.8	8164.0	8857.0	9138.6	9942.8	10728.5	10780.3	9568.5	6726.1
60°	4487.8	4387.7	5040.0	7067.1	8523.5	9327.6	10539.5	11562.3	11569.7	10128.1	6896.6
62.5°	3049.9	2938.7	3661.4	5677.4	7963.9	9357.3	10999.0	12281.2	12310.9	10546.9	6926.2
65°	1852.9	1760.3	2249.5	4146.9	7137.5	9105.3	11006.4	12811.1	12837.1	10739.6	6748.4
67.5°	1074.7	1037.6	1285.9	2583.0	5766.3	8427.1	10543.2	12729.6	12777.8	10658.0	6344.4
70°	626.3	622.6	715.2	1278.5	4069.0	7081.9	9509.2	12044.0	12114.4	10231.9	5725.5
72.5°	459.5	466.9	504.0	685.6	2356.9	5099.3	8052.8	10665.5	10772.9	9398.1	4843.6
75°	363.2	366.9	400.2	466.9	1237.8	2883.2	6033.1	8560.5	8645.8	7912.0	3783.7
77.5°	270.5	277.9	303.9	329.8	574.4	1323.0	3394.6	5273.4	5132.6	4343.3	1827.0
80°	196.4	214.9	226.1	237.2	303.9	511.4	1019.1	1838.1	1823.3	1897.4	863.5
82.5°	126.0	140.8	151.9	159.4	181.6	244.6	303.9	411.4	444.7	737.5	344.6
85°	55.6	63.0	70.4	85.2	77.8	85.2	126.0	81.5	70.4	111.2	63.0
87.5°	0.0	0.0	11.1	18.5	14.8	7.4	22.2	14.8	11.1	11.1	11.1
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°	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4	2338.4
2.5°	2360.6	2319.9	2234.6	2153.1	2104.9	2041.9	1986.3	1934.5	1930.8	1915.9	1890.0
5°	2390.3	2312.5	2153.1	2001.2	1886.3	1764.0	1660.2	1578.7	1549.0	1526.8	1497.2
7.5°	2419.9	2297.6	2060.5	1838.1	1656.5	1486.0	1363.8	1252.6	1219.2	1189.6	1171.1
10°	2431.0	2271.7	1953.0	1656.5	1419.3	1237.8	1108.1	1026.5	996.9	982.1	970.9
12.5°	2464.4	2256.9	1852.9	1486.0	1211.8	1045.1	952.4	904.2	893.1	882.0	870.9
15°	2508.9	2256.9	1752.9	1319.3	1048.8	915.3	859.8	826.4	819.0	815.3	807.9
17.5°	2557.0	2256.9	1656.5	1178.5	930.2	830.1	789.3	770.8	767.1	763.4	759.7
20°	2623.7	2260.6	1552.8	1056.2	844.9	767.1	733.8	711.5	707.8	704.1	704.1
22.5°	2690.5	2268.0	1452.7	963.5	789.3	718.9	678.2	655.9	648.5	648.5	648.5
25°	2775.7	2290.2	1360.0	885.7	741.2	674.5	622.6	604.1	600.3	600.3	596.6
27.5°	2875.7	2316.2	1278.5	826.4	693.0	622.6	570.7	552.2	544.8	544.8	541.1
30°	2983.2	2342.1	1211.8	781.9	644.8	570.7	522.5	500.3	492.9	496.6	492.9
32.5°	3101.8	2379.2	1159.9	752.3	600.3	526.2	481.8	455.8	452.1	452.1	448.4
35°	3301.9	2482.9	1152.5	737.5	563.3	492.9	448.4	422.5	418.8	418.8	415.1
37.5°	3516.9	2601.5	1185.9	730.1	533.6	463.2	422.5	396.5	392.8	392.8	392.8
40°	3698.4	2690.5	1222.9	730.1	515.1	437.3	400.2	378.0	378.0	378.0	378.0
42.5°	3820.7	2697.9	1215.5	730.1	500.3	418.8	385.4	363.2	363.2	366.9	363.2
45°	4002.3	2734.9	1185.9	718.9	489.2	403.9	370.6	352.1	348.4	352.1	352.1
47.5°	4217.3	2801.6	1156.2	674.5	485.5	389.1	359.5	337.2	333.5	337.2	333.5
50°	4421.1	2860.9	1141.4	615.2	478.1	374.3	344.6	322.4	318.7	322.4	318.7
52.5°	4591.6	2886.9	1115.5	574.4	459.5	359.5	329.8	307.6	300.2	303.9	303.9
55°	4728.7	2879.5	1078.4	541.1	426.2	344.6	311.3	292.8	281.6	281.6	277.9
57.5°	4854.7	2883.2	1045.1	507.7	389.1	322.4	296.5	274.2	259.4	255.7	252.0
60°	4902.8	2864.6	985.8	463.2	352.1	303.9	277.9	252.0	237.2	233.5	229.8
62.5°	4836.1	2797.9	907.9	385.4	318.7	281.6	259.4	233.5	218.6	214.9	211.2
65°	4647.1	2671.9	789.3	303.9	289.1	255.7	237.2	218.6	200.1	192.7	189.0
67.5°	4324.7	2490.3	641.1	244.6	255.7	233.5	222.4	200.1	177.9	170.5	166.8
70°	3865.2	2249.5	481.8	207.5	226.1	207.5	200.1	177.9	159.4	151.9	148.2
72.5°	3220.4	1860.3	337.2	177.9	196.4	181.6	174.2	159.4	140.8	129.7	129.7
75°	2434.7	1334.1	222.4	151.9	163.1	155.6	144.5	133.4	122.3	114.9	111.2
77.5°	1048.8	518.8	137.1	114.9	133.4	129.7	114.9	107.5	103.8	96.4	96.4
80°	452.1	211.2	85.2	85.2	96.4	92.6	88.9	81.5	81.5	77.8	74.1
82.5°	166.8	85.2	51.9	63.0	70.4	63.0	63.0	63.0	63.0	59.3	59.3
85°	40.8	25.9	25.9	37.1	40.8	37.1	40.8	37.1	37.1	37.1	33.4
87.5°	11.1	11.1	14.8	14.8	14.8	14.8	14.8	11.1	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)