

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: P841581

Luminaire Tested: **ARCH4-200-722-U-T3-HSS**

Issue Date: 5/27/2024

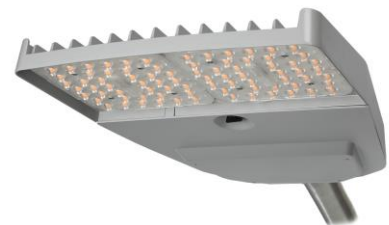
Test Information

Test Method: LM-79-08
Report Number: P841581
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: ARCH4-200-722-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 800mA 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: 18536 lumens
Efficiency: N/A
Efficacy: 91.0 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): 203.7
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



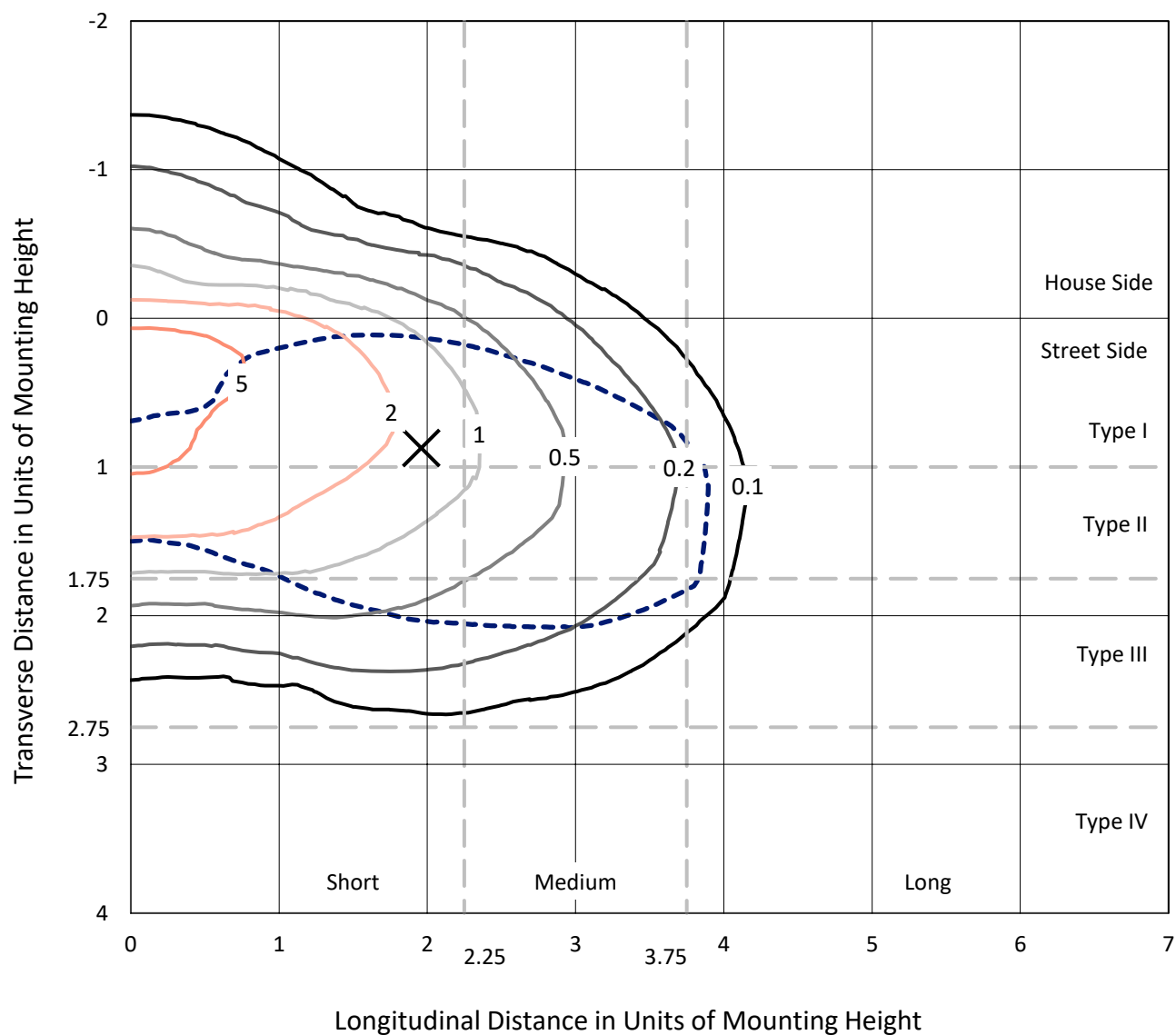
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

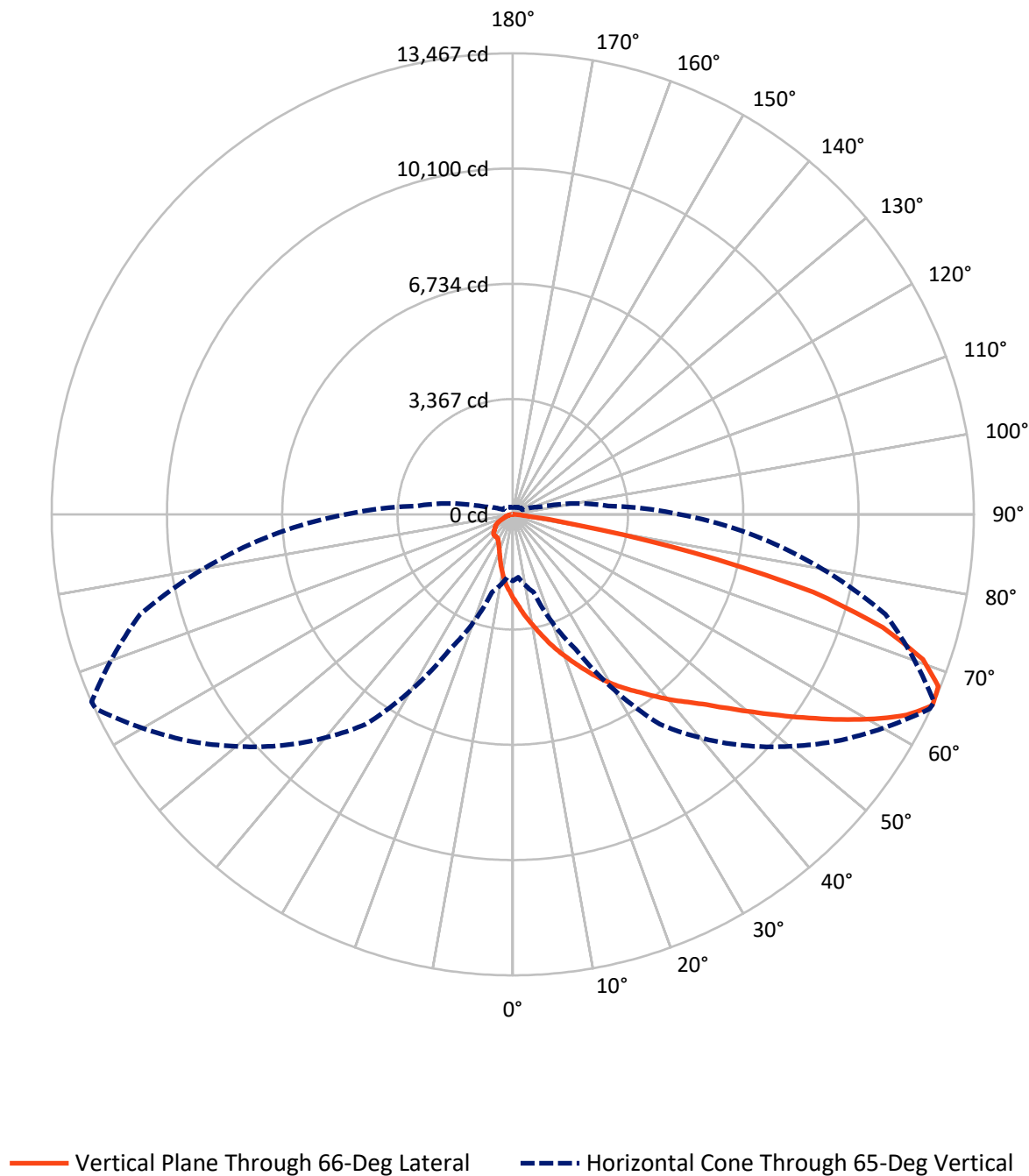


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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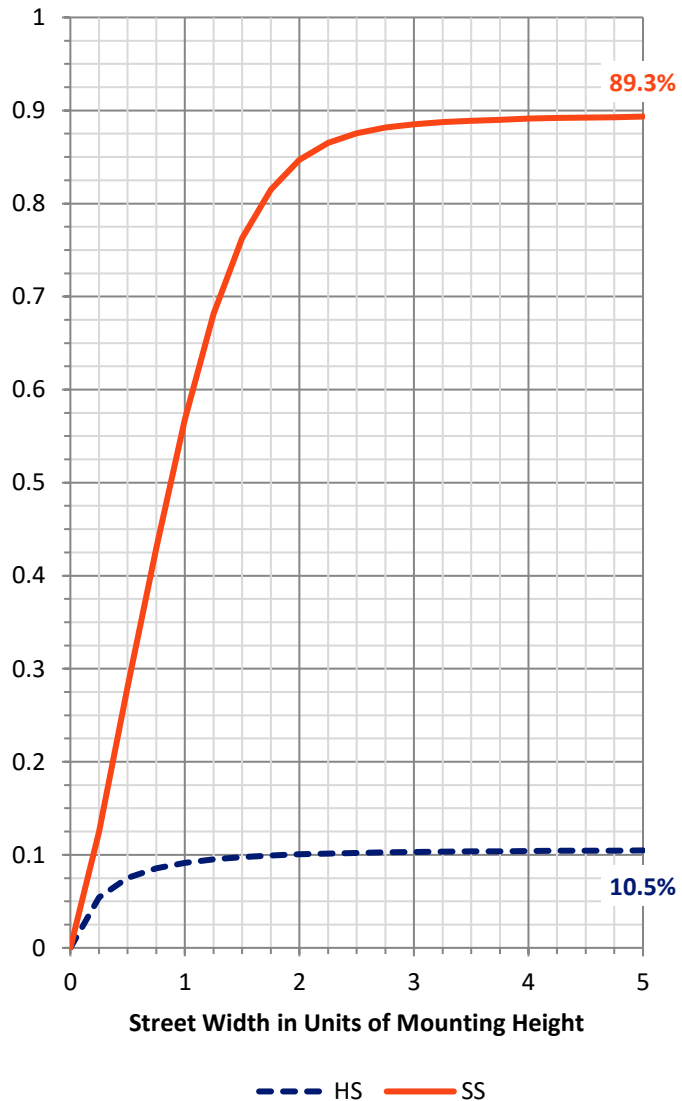
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1960.6	0.0	1960.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	16575.4	0.0	16575.4
	% Fixture	89.4	0.0	89.4
Total	Lumens	18536.0	0.0	18536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.1	1.3
10°-20°	789.2	4.3
20°-30°	1427.8	7.7
30°-40°	2232.7	12.0
40°-50°	3387.0	18.3
50°-60°	4303.4	23.2
60°-70°	4021.0	21.7
70°-80°	1998.4	10.8
80°-90°	134.3	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°	18536.0	100.0
0°-180°	18536.0	100.0

Coefficient of Utilization



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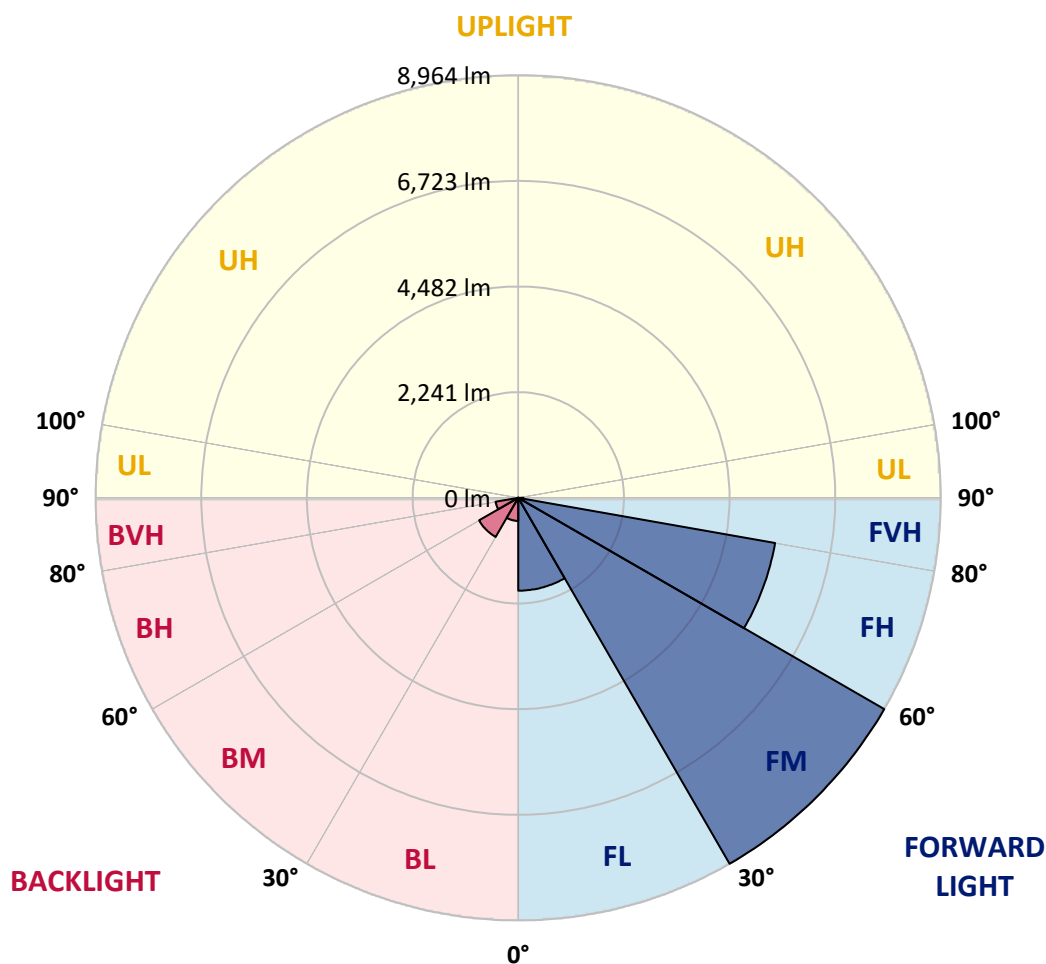
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1969.5	10.6			
FM	(30°-60°)	8964.2	48.4			
FH	(60°-80°)	5531.2	29.8			G3/7500
FVH	(80°-90°)	110.5	0.6			G2/225
BL	(0°-30°)	489.7	2.6	B1/500		
BM	(30°-60°)	958.9	5.2	B1/1000		
BH	(60°-80°)	488.3	2.6	B1/500		G1/500
BVH	(80°-90°)	23.8	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°	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1
2.5°	2865.2	2888.6	2900.2	2904.1	2814.7	2775.8	2736.9	2647.5	2628.1	2577.5	2511.5
5°	3370.6	3401.7	3394.0	3378.4	3269.6	3145.1	3044.1	2876.9	2849.7	2729.2	2581.4
7.5°	3868.3	3895.5	3887.7	3829.4	3708.9	3533.9	3366.7	3121.8	3082.9	2888.6	2651.4
10°	4284.2	4307.6	4303.7	4245.4	4101.5	3887.7	3685.5	3359.0	3312.3	3036.3	2709.7
12.5°	4626.4	4657.5	4653.6	4614.7	4486.4	4253.1	4023.8	3631.1	3572.8	3215.1	2791.4
15°	4894.6	4933.5	4933.5	4917.9	4828.5	4634.1	4373.7	3930.5	3860.5	3421.2	2892.4
17.5°	5057.9	5089.0	5116.2	5143.4	5081.2	4933.5	4696.3	4229.8	4155.9	3623.3	2997.4
20°	5143.4	5174.5	5194.0	5252.3	5263.9	5190.1	5003.5	4525.3	4447.5	3852.7	3117.9
22.5°	5283.4	5310.6	5314.5	5365.0	5388.4	5407.8	5291.2	4816.9	4754.7	4105.4	3254.0
25°	5516.6	5547.7	5536.1	5559.4	5563.3	5586.6	5575.0	5151.2	5089.0	4393.1	3417.3
27.5°	5816.0	5854.9	5847.1	5823.8	5788.8	5769.3	5819.9	5489.4	5431.1	4680.8	3584.5
30°	6138.7	6185.3	6173.7	6127.0	6033.7	5952.1	6022.0	5808.2	5753.8	4976.3	3771.1
32.5°	6465.2	6519.7	6515.8	6438.0	6278.6	6138.7	6243.6	6107.6	6068.7	5295.0	3973.2
35°	6679.1	6749.0	6741.3	6694.6	6488.6	6368.1	6496.3	6414.7	6387.5	5683.8	4264.8
37.5°	7025.1	7098.9	7032.8	6916.2	6679.1	6616.9	6772.4	6760.7	6741.3	6095.9	4571.9
40°	7864.8	7973.7	7798.7	7320.5	6931.8	6877.3	7098.9	7145.6	7126.2	6504.1	4848.0
42.5°	8743.4	8906.7	8634.6	7973.7	7390.5	7192.2	7456.6	7522.7	7499.4	6854.0	5096.8
45°	9276.0	9346.0	9073.9	8560.7	8203.0	7573.2	7837.6	7946.5	7927.0	7273.9	5415.6
47.5°	9711.5	9684.3	9373.2	9027.2	9093.3	8109.7	8269.1	8483.0	8467.4	7736.5	5765.5
50°	9804.8	9742.6	9618.2	9400.5	9575.4	8654.0	8724.0	9093.3	9077.8	8249.7	6119.2
52.5°	9147.8	9066.1	9404.3	9587.1	9528.7	9050.6	9225.5	9762.0	9754.2	8805.6	6457.5
55°	7507.1	7441.1	8350.8	9295.5	9478.2	9330.5	9781.5	10457.9	10500.7	9396.6	6764.6
57.5°	5905.4	5835.4	6729.6	8564.6	9291.6	9587.1	10430.7	11254.9	11309.3	10038.0	7056.2
60°	4708.0	4603.0	5287.3	7413.8	8941.7	9785.3	11056.6	12129.6	12137.4	10625.1	7235.0
62.5°	3199.6	3082.9	3841.0	5956.0	8354.7	9816.4	11538.7	12883.8	12914.9	11064.4	7266.1
65°	1943.8	1846.7	2359.8	4350.3	7487.7	9552.1	11546.5	13439.8	13467.0	11266.6	7079.5
67.5°	1127.4	1088.6	1349.0	2709.7	6049.3	8840.6	11060.5	13354.2	13404.8	11181.0	6655.7
70°	657.0	653.1	750.3	1341.3	4268.7	7429.4	9975.8	12635.0	12708.9	10733.9	6006.5
72.5°	482.1	489.9	528.7	719.2	2472.6	5349.5	8448.0	11188.8	11301.5	9859.2	5081.2
75°	381.0	384.9	419.9	489.9	1298.5	3024.6	6329.2	8980.6	9070.0	8300.2	3969.3
77.5°	283.8	291.6	318.8	346.0	602.6	1387.9	3561.1	5532.2	5384.5	4556.4	1916.6
80°	206.0	225.5	237.1	248.8	318.8	536.5	1069.1	1928.3	1912.7	1990.5	905.8
82.5°	132.2	147.7	159.4	167.2	190.5	256.6	318.8	431.5	466.5	773.7	361.6
85°	58.3	66.1	73.9	89.4	81.6	89.4	132.2	85.5	73.9	116.6	66.1
87.5°	0.0	0.0	11.7	19.4	15.6	7.8	23.3	15.6	11.7	11.7	11.7
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°	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1	2453.1
2.5°	2476.5	2433.7	2344.3	2258.8	2208.2	2142.1	2083.8	2029.4	2025.5	2009.9	1982.7
5°	2507.6	2425.9	2258.8	2099.4	1978.8	1850.5	1741.7	1656.2	1625.1	1601.7	1570.6
7.5°	2538.7	2410.4	2161.6	1928.3	1737.8	1559.0	1430.7	1314.0	1279.1	1248.0	1228.5
10°	2550.3	2383.2	2048.8	1737.8	1489.0	1298.5	1162.4	1076.9	1045.8	1030.2	1018.6
12.5°	2585.3	2367.6	1943.8	1559.0	1271.3	1096.3	999.1	948.6	936.9	925.3	913.6
15°	2632.0	2367.6	1838.9	1384.0	1100.2	960.3	901.9	867.0	859.2	855.3	847.5
17.5°	2682.5	2367.6	1737.8	1236.3	975.8	870.8	828.1	808.6	804.8	800.9	797.0
20°	2752.5	2371.5	1628.9	1108.0	886.4	804.8	769.8	746.4	742.6	738.7	738.7
22.5°	2822.5	2379.3	1524.0	1010.8	828.1	754.2	711.4	688.1	680.3	680.3	680.3
25°	2911.9	2402.6	1426.8	929.2	777.5	707.6	653.1	633.7	629.8	629.8	625.9
27.5°	3016.9	2429.8	1341.3	867.0	727.0	653.1	598.7	579.3	571.5	571.5	567.6
30°	3129.6	2457.0	1271.3	820.3	676.5	598.7	548.2	524.8	517.1	521.0	517.1
32.5°	3254.0	2495.9	1216.8	789.2	629.8	552.1	505.4	478.2	474.3	474.3	470.4
35°	3463.9	2604.8	1209.1	773.7	590.9	517.1	470.4	443.2	439.3	439.3	435.4
37.5°	3689.4	2729.2	1244.1	765.9	559.8	486.0	443.2	416.0	412.1	412.1	412.1
40°	3879.9	2822.5	1282.9	765.9	540.4	458.7	419.9	396.5	396.5	396.5	396.5
42.5°	4008.2	2830.2	1275.2	765.9	524.8	439.3	404.3	381.0	381.0	384.9	381.0
45°	4198.7	2869.1	1244.1	754.2	513.2	423.8	388.8	369.3	365.4	369.3	369.3
47.5°	4424.2	2939.1	1213.0	707.6	509.3	408.2	377.1	353.8	349.9	353.8	349.9
50°	4638.0	3001.3	1197.4	645.4	501.5	392.7	361.6	338.2	334.3	338.2	334.3
52.5°	4816.9	3028.5	1170.2	602.6	482.1	377.1	346.0	322.7	314.9	318.8	318.8
55°	4960.7	3020.7	1131.3	567.6	447.1	361.6	326.6	307.1	295.5	295.5	291.6
57.5°	5092.9	3024.6	1096.3	532.6	408.2	338.2	311.0	287.7	272.1	268.3	264.4
60°	5143.4	3005.2	1034.1	486.0	369.3	318.8	291.6	264.4	248.8	244.9	241.0
62.5°	5073.4	2935.2	952.5	404.3	334.3	295.5	272.1	244.9	229.4	225.5	221.6
65°	4875.2	2803.0	828.1	318.8	303.2	268.3	248.8	229.4	209.9	202.2	198.3
67.5°	4536.9	2612.5	672.6	256.6	268.3	244.9	233.3	209.9	186.6	178.8	174.9
70°	4054.9	2359.8	505.4	217.7	237.1	217.7	209.9	186.6	167.2	159.4	155.5
72.5°	3378.4	1951.6	353.8	186.6	206.0	190.5	182.7	167.2	147.7	136.1	136.1
75°	2554.2	1399.6	233.3	159.4	171.1	163.3	151.6	140.0	128.3	120.5	116.6
77.5°	1100.2	544.3	143.8	120.5	140.0	136.1	120.5	112.7	108.9	101.1	101.1
80°	474.3	221.6	89.4	89.4	101.1	97.2	93.3	85.5	85.5	81.6	77.8
82.5°	174.9	89.4	54.4	66.1	73.9	66.1	66.1	66.1	66.1	62.2	62.2
85°	42.8	27.2	27.2	38.9	42.8	38.9	42.8	38.9	38.9	38.9	35.0
87.5°	11.7	11.7	15.6	15.6	15.6	15.6	15.6	11.7	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)