

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: P841807

Luminaire Tested: **ARCH4-230-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33517 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 231.2
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



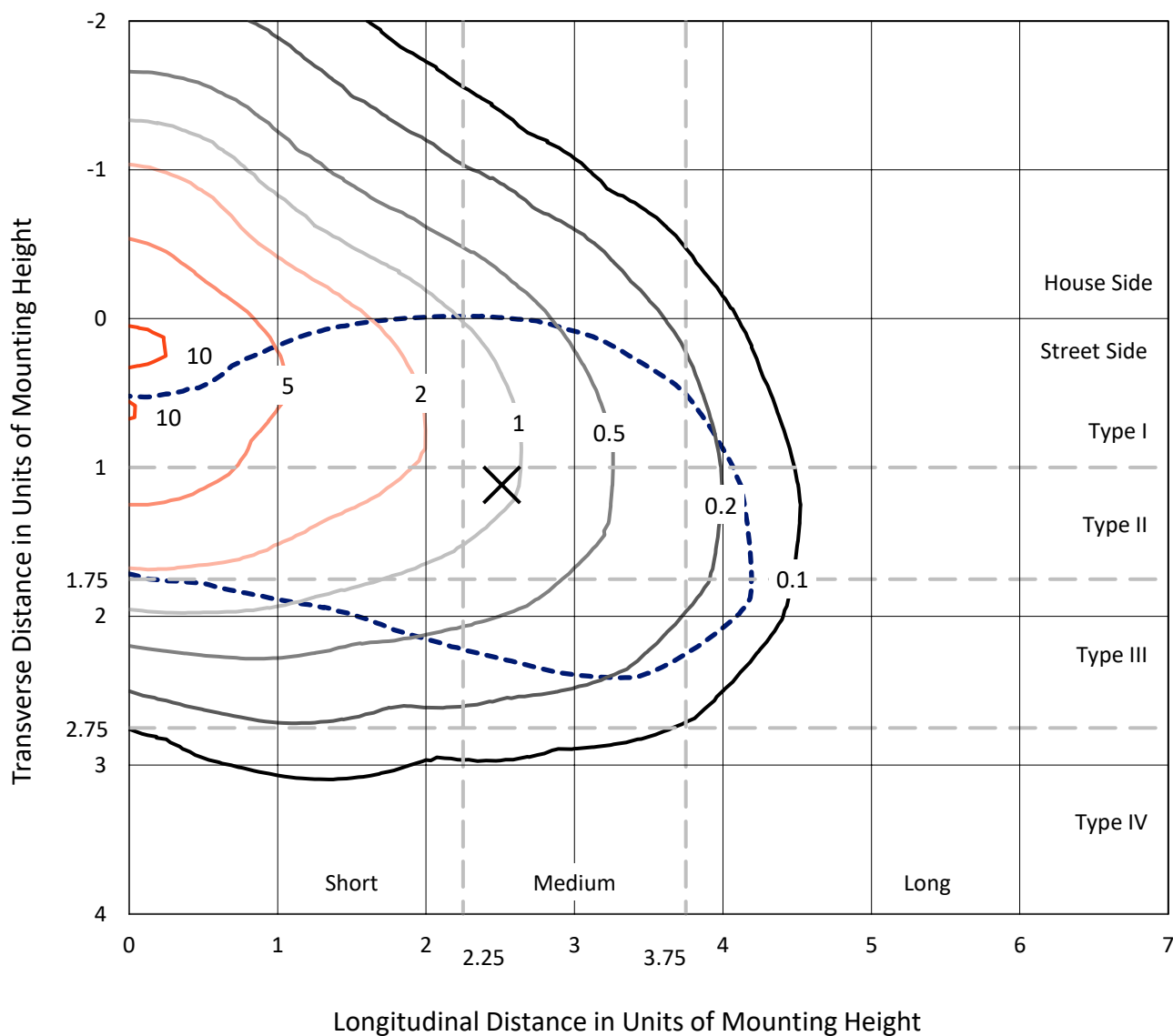
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

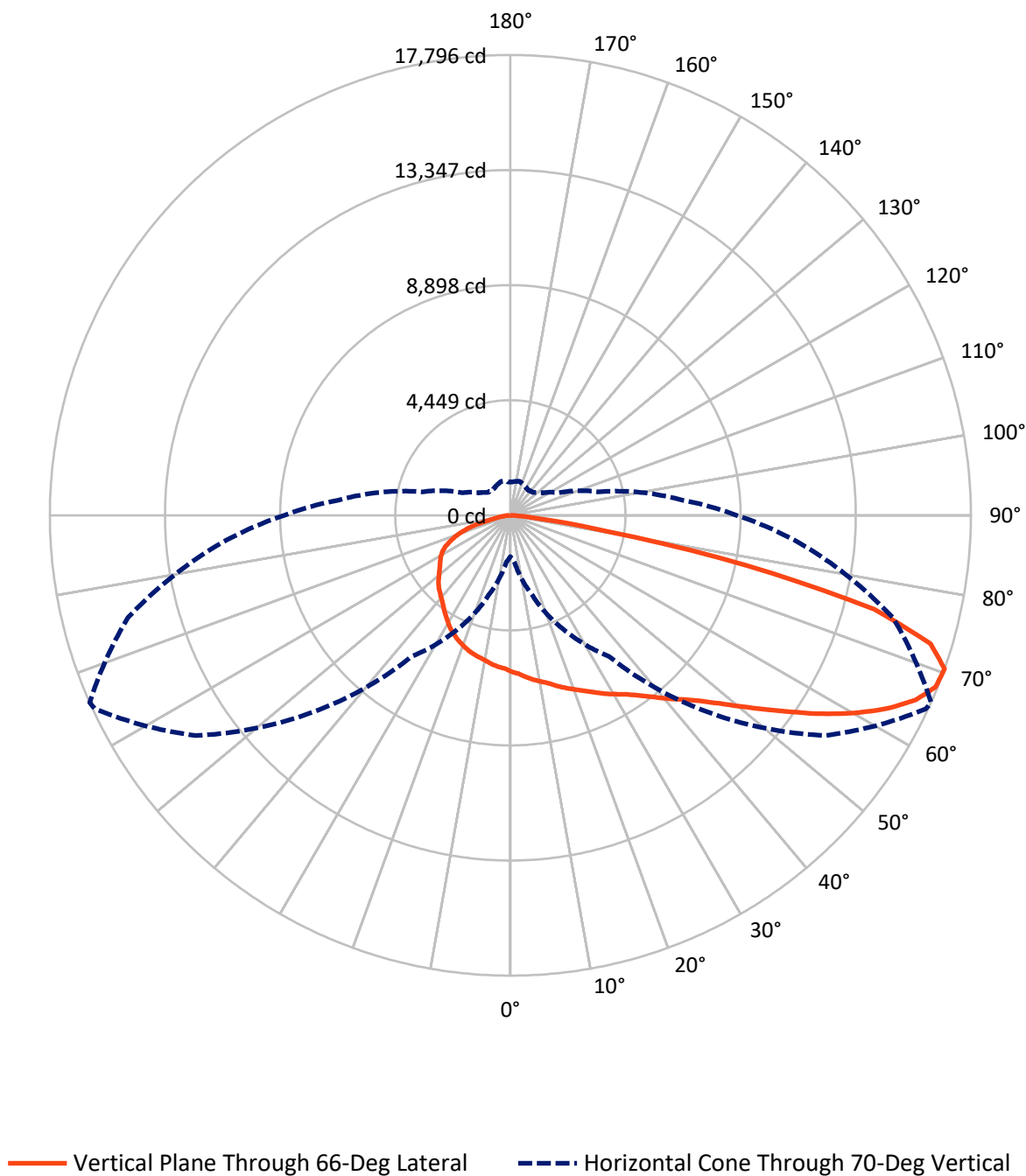
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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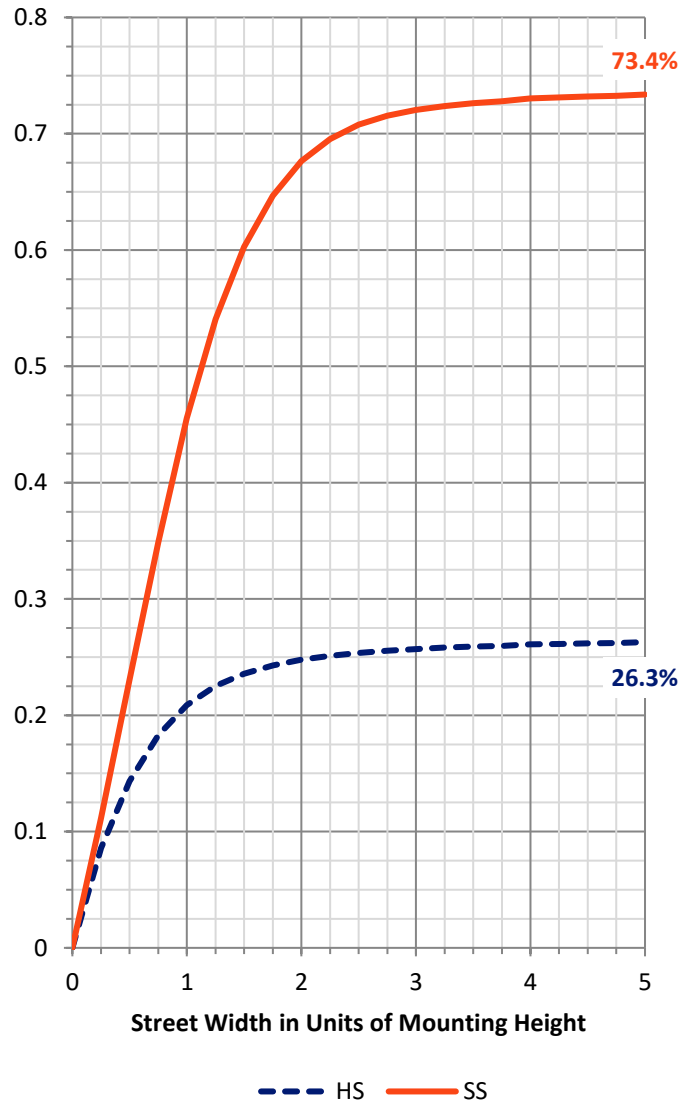
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8881.2	0.0	8881.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	24635.8	0.0	24635.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	33517.0	0.0	33517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	581.3	1.7
10°-20°	1743.5	5.2
20°-30°	2922.7	8.7
30°-40°	4376.3	13.1
40°-50°	5851.1	17.5
50°-60°	6831.4	20.4
60°-70°	6792.8	20.3
70°-80°	4021.4	12.0
80°-90°	396.4	1.2
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°	33517.0	100.0
0°-180°	33517.0	100.0

Coefficient of Utilization



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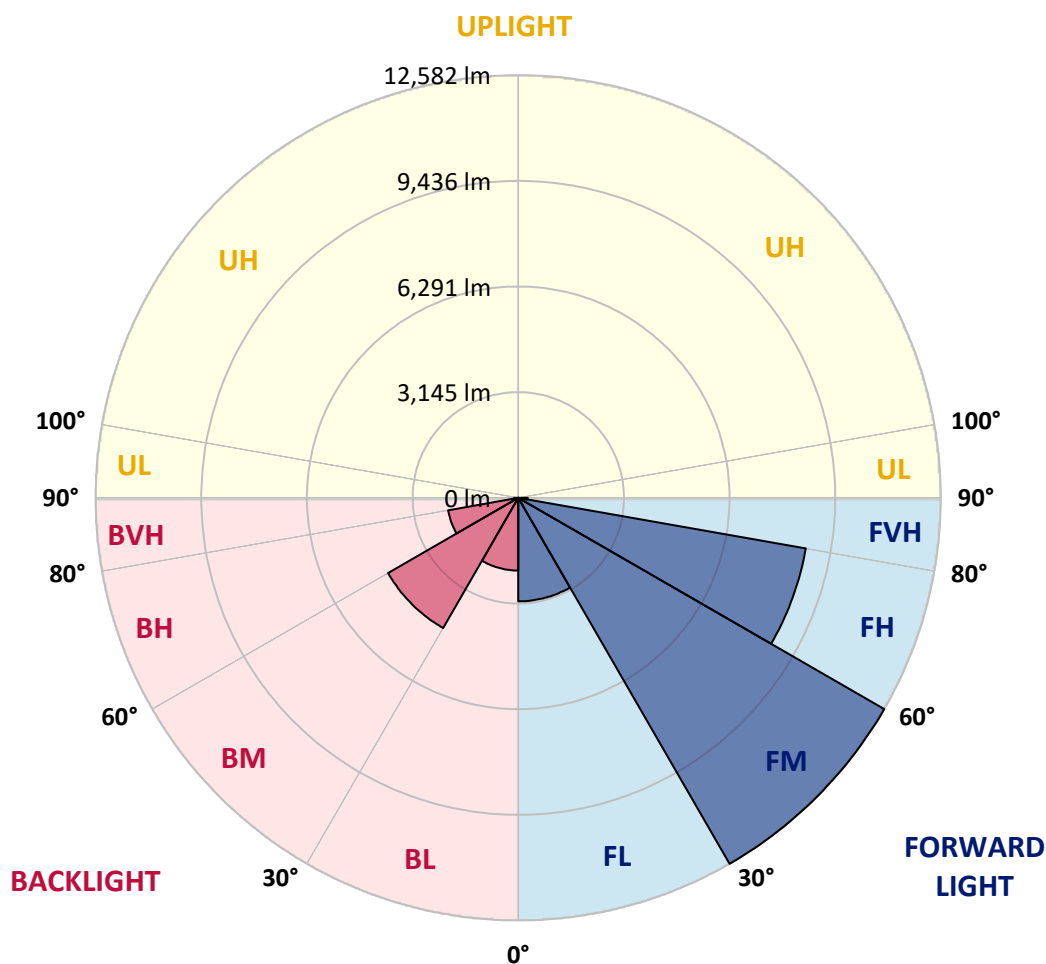
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3082.7	9.2			
FM	(30°-60°)	12581.8	37.5			
FH	(60°-80°)	8692.7	25.9			G4/12000
FVH	(80°-90°)	278.6	0.8			G3/500
BL	(0°-30°)	2164.9	6.5	B3/2500		
BM	(30°-60°)	4477.1	13.4	B3/5000		
BH	(60°-80°)	2121.5	6.3	B3/2500		G3/2500
BVH	(80°-90°)	117.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1
2.5°	6271.4	6261.6	6256.6	6236.9	6192.4	6212.1	6167.7	6138.0	6133.1	6063.9	6024.3
5°	6528.4	6523.5	6513.6	6484.0	6414.8	6424.7	6350.5	6296.2	6281.3	6172.6	6088.6
7.5°	6745.9	6736.0	6731.1	6691.5	6617.4	6612.4	6523.5	6444.4	6419.7	6271.4	6143.0
10°	6913.9	6899.1	6909.0	6869.4	6790.4	6775.5	6661.9	6558.1	6533.4	6345.6	6167.7
12.5°	7057.2	7047.3	7062.2	7027.6	6963.3	6948.5	6834.8	6701.4	6671.8	6454.3	6222.0
15°	7215.4	7180.8	7210.4	7195.6	7151.1	7146.2	7042.4	6894.1	6854.6	6592.7	6306.0
17.5°	7299.4	7279.6	7314.2	7319.2	7299.4	7334.0	7235.1	7057.2	7022.6	6721.2	6380.2
20°	7358.7	7329.0	7368.6	7398.2	7413.1	7482.2	7403.2	7230.2	7190.7	6844.7	6449.4
22.5°	7561.3	7497.1	7502.0	7521.8	7531.7	7630.5	7581.1	7413.1	7373.5	6997.9	6533.4
25°	8070.3	7941.9	7857.8	7798.5	7729.3	7813.4	7783.7	7620.6	7586.0	7180.8	6637.2
27.5°	8861.1	8698.0	8530.0	8357.0	8085.2	8050.6	8001.2	7852.9	7813.4	7363.6	6740.9
30°	9760.5	9597.4	9399.8	9123.0	8614.0	8347.1	8233.4	8070.3	8025.9	7526.7	6839.8
32.5°	10655.0	10511.7	10314.0	9978.0	9251.5	8707.9	8465.7	8297.7	8253.2	7704.6	6958.4
35°	11351.9	11262.9	11134.4	10714.3	9884.1	9132.9	8801.8	8599.1	8549.7	7986.3	7175.8
37.5°	11915.3	11851.0	11742.3	11302.4	10343.7	9557.9	9187.2	8955.0	8900.6	8292.7	7408.1
40°	12745.5	12577.5	12488.5	11851.0	10744.0	9943.4	9622.1	9380.0	9320.7	8618.9	7595.9
42.5°	13452.2	13328.7	13220.0	12340.3	11124.5	10274.5	10032.3	9809.9	9730.9	8940.1	7798.5
45°	13570.8	13620.3	13565.9	12582.4	11727.5	10600.7	10447.5	10304.2	10230.0	9375.0	8104.9
47.5°	13575.8	13575.8	13254.5	12720.8	12473.7	10966.4	10892.3	10941.7	10862.6	9928.6	8470.7
50°	13220.0	13284.2	13116.2	12755.4	12671.4	11332.1	11435.9	11702.7	11623.7	10516.7	8866.0
52.5°	12483.6	12696.1	12691.2	12701.0	12384.7	11643.4	12009.2	12617.0	12483.6	11178.9	9286.1
55°	11183.8	11608.8	11989.4	12315.6	12137.6	11831.2	12710.9	13590.6	13452.2	11920.2	9711.1
57.5°	10071.9	10343.7	10818.1	11742.3	11846.1	11994.3	13368.2	14608.7	14485.1	12740.6	10155.9
60°	8801.8	9177.4	9651.8	10966.4	11490.2	12206.8	14089.8	15602.0	15483.4	13570.8	10585.8
62.5°	6849.7	7334.0	8282.9	9775.4	10971.3	12340.3	14658.1	16476.8	16422.4	14356.6	10971.3
65°	4774.0	5204.0	6533.4	8312.5	10146.0	12281.0	15112.8	17257.6	17208.2	14999.1	11243.1
67.5°	2787.3	3286.5	4788.8	6691.5	8688.1	11870.8	15261.0	17717.2	17717.2	15389.5	11317.3
70°	1591.3	1823.6	3158.0	4877.8	6661.9	10739.0	14845.9	17712.3	17796.3	15300.6	11010.9
72.5°	1112.0	1215.7	2125.1	3281.5	4517.0	8688.1	13758.6	16857.3	16971.0	14460.4	9963.1
75°	864.9	939.0	1497.4	2238.7	2846.6	5900.8	11381.5	14213.3	14514.8	12325.4	8055.5
77.5°	657.3	711.7	874.7	1398.6	1823.6	3390.2	7511.9	9320.7	9340.5	7546.5	4319.3
80°	479.4	533.7	583.2	855.0	968.6	1586.4	2836.7	3894.3	3785.6	3652.2	2337.6
82.5°	286.6	341.0	355.8	464.6	474.4	677.1	993.3	1255.3	1205.9	1606.2	1097.1
85°	123.6	173.0	182.9	212.5	202.6	276.8	395.4	331.1	296.5	341.0	237.2
87.5°	29.7	49.4	49.4	54.4	44.5	69.2	74.1	54.4	49.4	59.3	59.3
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°	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1	6049.1
2.5°	6014.5	5999.6	6004.6	5920.6	5895.9	5871.1	5856.3	5846.4	5836.5	5851.4	5866.2
5°	6058.9	6024.3	5984.8	5861.3	5811.8	5757.5	5717.9	5683.3	5668.5	5668.5	5683.3
7.5°	6093.5	6034.2	5950.2	5787.1	5698.2	5624.0	5559.8	5515.3	5490.6	5490.6	5505.4
10°	6098.5	6014.5	5881.0	5683.3	5564.7	5456.0	5381.9	5332.5	5297.9	5297.9	5307.7
12.5°	6128.1	6014.5	5841.5	5604.3	5456.0	5322.6	5233.6	5159.5	5144.7	5144.7	5154.5
15°	6177.5	6039.2	5816.8	5535.1	5357.2	5204.0	5105.1	5026.1	4996.4	5016.2	5021.1
17.5°	6222.0	6054.0	5772.3	5446.1	5233.6	5065.6	4956.9	4887.7	4848.1	4892.6	4892.6
20°	6251.7	6054.0	5708.1	5332.5	5100.2	4912.4	4808.6	4724.6	4694.9	4749.3	4754.2
22.5°	6296.2	6049.1	5638.9	5218.8	4956.9	4759.2	4655.4	4591.2	4576.3	4635.6	4655.4
25°	6345.6	6058.9	5564.7	5090.3	4798.7	4606.0	4526.9	4497.3	4507.1	4581.3	4606.0
27.5°	6399.9	6078.7	5490.6	4947.0	4625.7	4452.8	4408.3	4423.1	4462.7	4556.6	4586.2
30°	6449.4	6083.6	5386.8	4779.0	4428.1	4265.0	4284.7	4349.0	4408.3	4502.2	4536.8
32.5°	6513.6	6088.6	5278.1	4596.1	4215.6	4096.9	4185.9	4289.7	4349.0	4438.0	4477.5
35°	6671.8	6172.6	5194.1	4418.2	4017.9	3953.6	4101.9	4235.3	4269.9	4349.0	4383.6
37.5°	6854.6	6311.0	5149.6	4235.3	3825.1	3810.3	3998.1	4131.5	4141.4	4190.8	4225.4
40°	6968.3	6370.3	5100.2	4082.1	3652.2	3662.1	3854.8	3958.6	3938.8	3973.4	3998.1
42.5°	7081.9	6390.1	4996.4	3953.6	3489.1	3499.0	3647.2	3721.4	3731.2	3805.4	3840.0
45°	7274.7	6444.4	4882.7	3835.0	3340.8	3306.2	3395.2	3494.0	3622.5	3765.8	3805.4
47.5°	7531.7	6558.1	4764.1	3691.7	3197.5	3083.8	3118.4	3291.4	3424.8	3558.3	3583.0
50°	7793.6	6671.8	4655.4	3518.7	3054.2	2846.6	2861.4	3019.6	3128.3	3232.1	3246.9
52.5°	8050.6	6770.6	4561.5	3355.6	2891.1	2564.9	2624.2	2787.3	2861.4	2910.9	2925.7
55°	8307.6	6854.6	4477.5	3217.3	2703.3	2342.5	2396.9	2550.1	2624.2	2648.9	2658.8
57.5°	8574.4	6953.4	4413.2	3098.7	2490.8	2144.8	2179.4	2288.2	2357.4	2387.0	2377.1
60°	8796.8	7037.5	4378.6	2975.1	2278.3	1962.0	1952.1	2050.9	2149.8	2179.4	2169.6
62.5°	8969.8	7091.8	4324.3	2817.0	2090.5	1779.1	1729.7	1858.2	1962.0	1981.8	1996.6
65°	9063.7	7096.8	4190.8	2614.3	1897.7	1581.5	1546.9	1675.4	1739.6	1759.4	1759.4
67.5°	9048.9	7017.7	3928.9	2342.5	1719.8	1403.5	1373.9	1453.0	1546.9	1561.7	1546.9
70°	8742.5	6691.5	3508.8	2055.9	1507.3	1245.4	1191.0	1270.1	1359.1	1304.7	1280.0
72.5°	7872.7	5846.4	2891.1	1739.6	1270.1	1047.7	1023.0	1102.1	1107.0	1116.9	1092.2
75°	6212.1	4353.9	2164.6	1354.1	1027.9	879.7	874.7	859.9	879.7	919.2	889.6
77.5°	3261.7	2174.5	1171.3	830.3	746.2	706.7	672.1	667.2	726.5	751.2	721.5
80°	1769.2	1220.7	672.1	499.1	454.7	459.6	504.1	494.2	558.5	573.3	548.6
82.5°	771.0	578.2	331.1	301.5	301.5	296.5	311.3	345.9	415.1	415.1	331.1
85°	168.0	143.3	128.5	148.3	168.0	168.0	168.0	168.0	118.6	64.2	44.5
87.5°	54.4	54.4	54.4	59.3	64.2	64.2	54.4	39.5	24.7	4.9	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)