

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: P841588

Luminaire Tested: **ARCH4-200-727-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-200-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21093 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

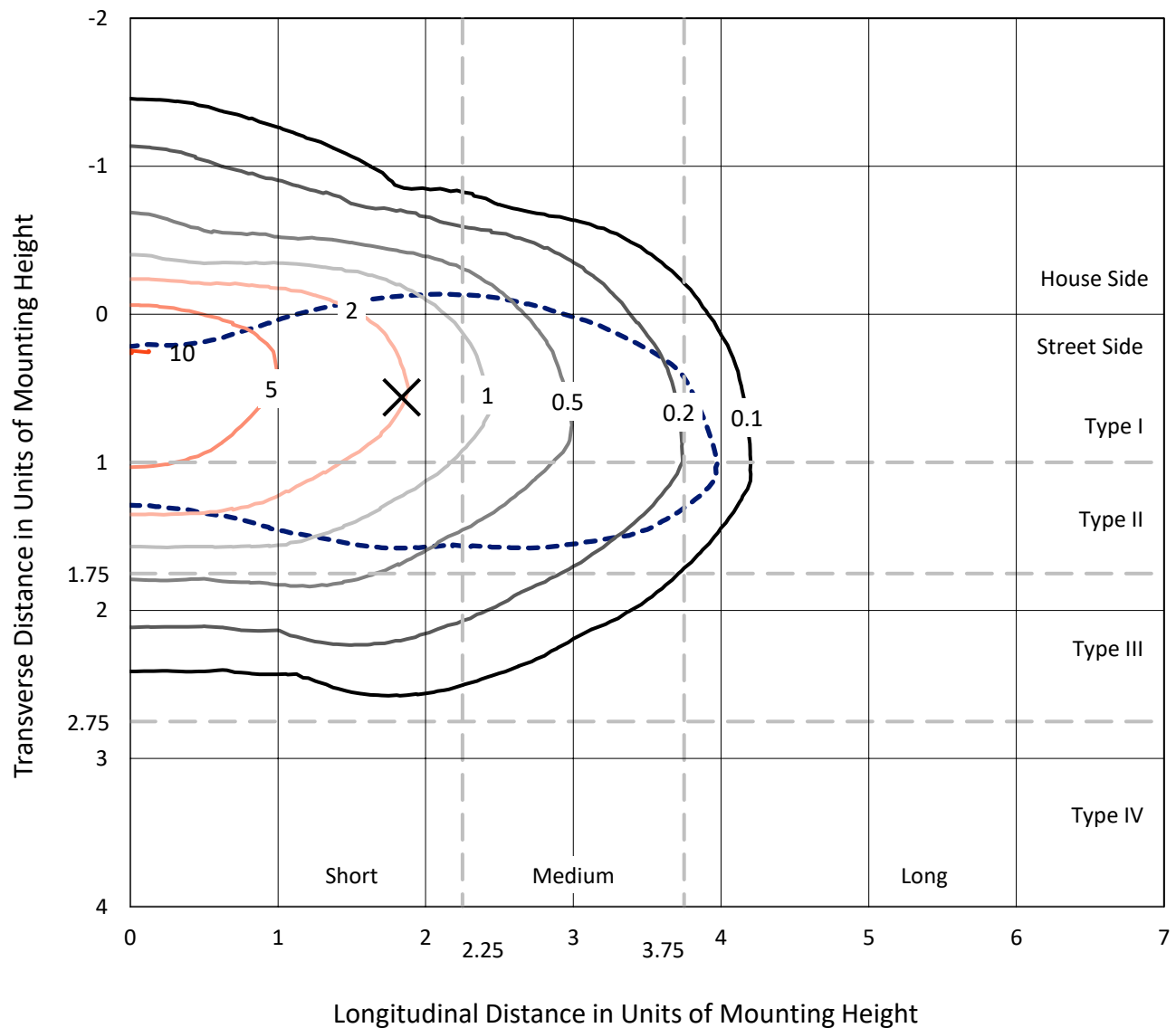
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

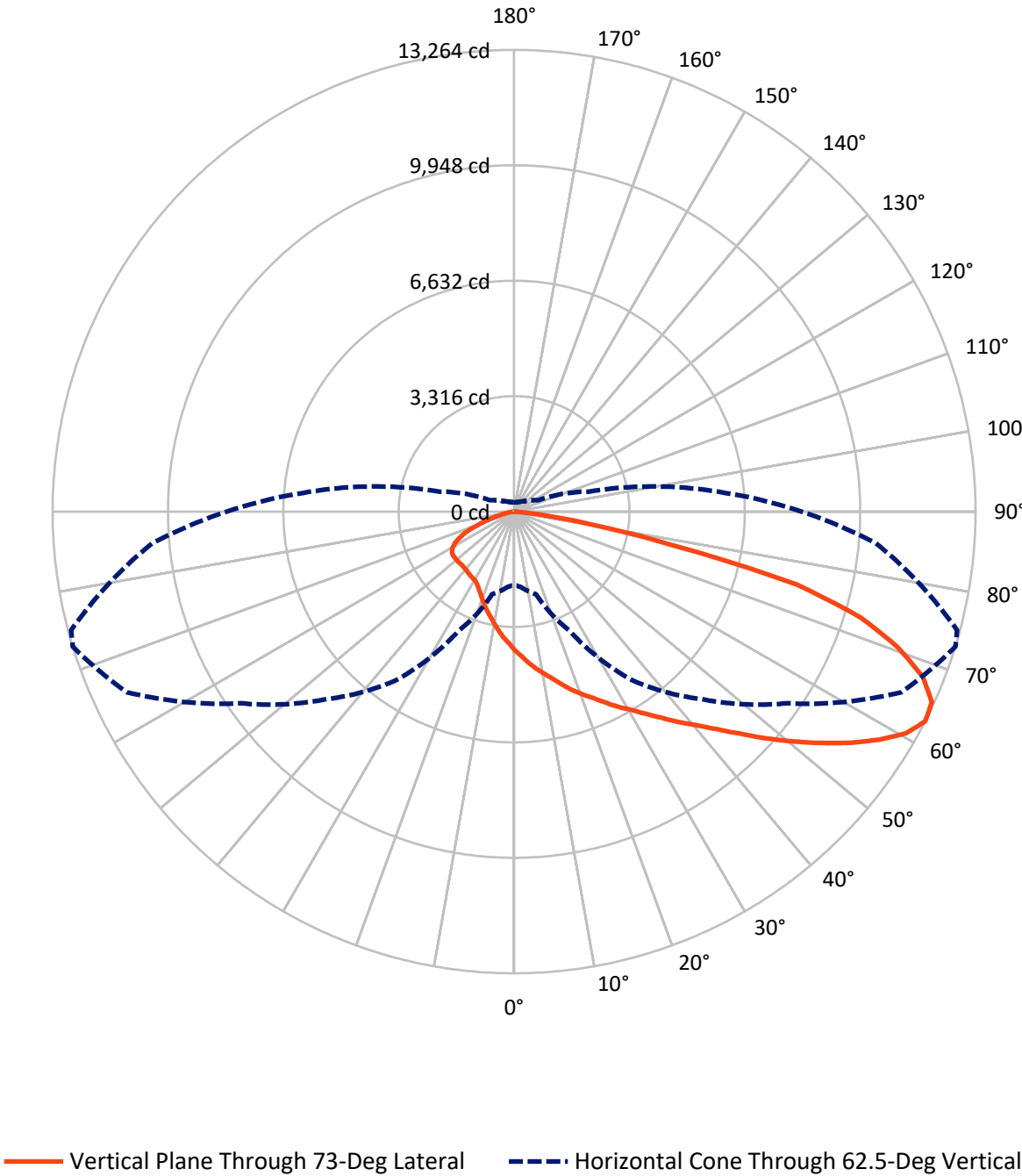
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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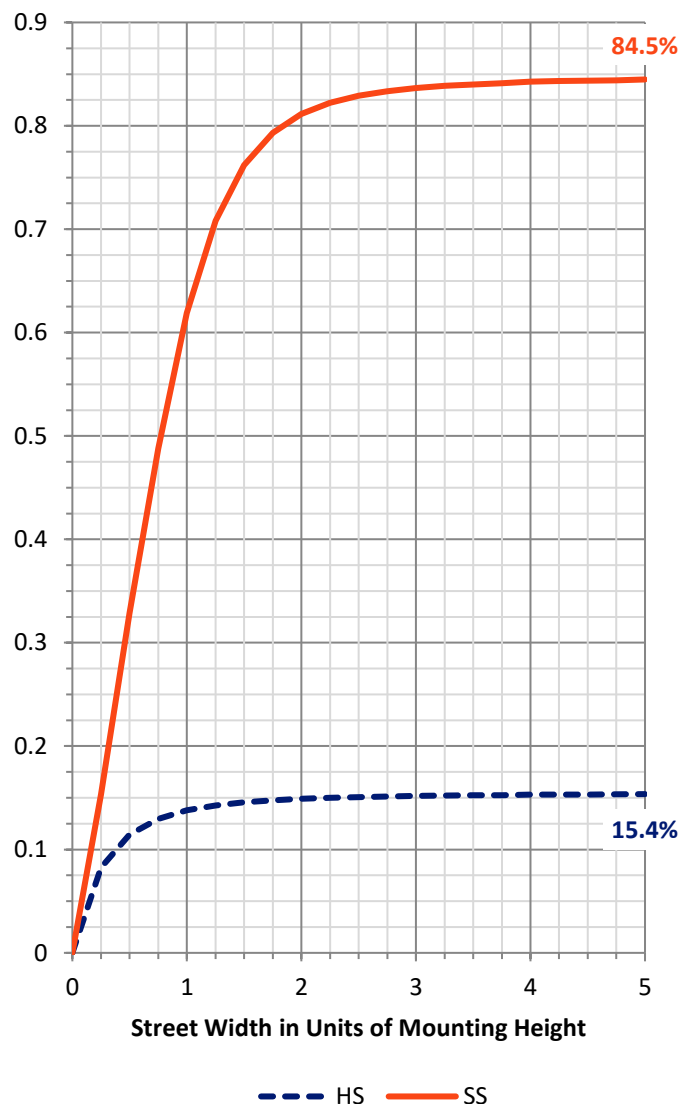
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3269.7	0.0	3269.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	17823.3	0.0	17823.3
	% Fixture	84.5	0.0	84.5
Total	Lumens	21093.0	0.0	21093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	1.8
10°-20°	1164.3	5.5
20°-30°	1938.0	9.2
30°-40°	2924.2	13.9
40°-50°	4087.2	19.4
50°-60°	4514.6	21.4
60°-70°	3932.8	18.6
70°-80°	1986.6	9.4
80°-90°	159.5	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°	21093.0	100.0
0°-180°	21093.0	100.0

Coefficient of Utilization



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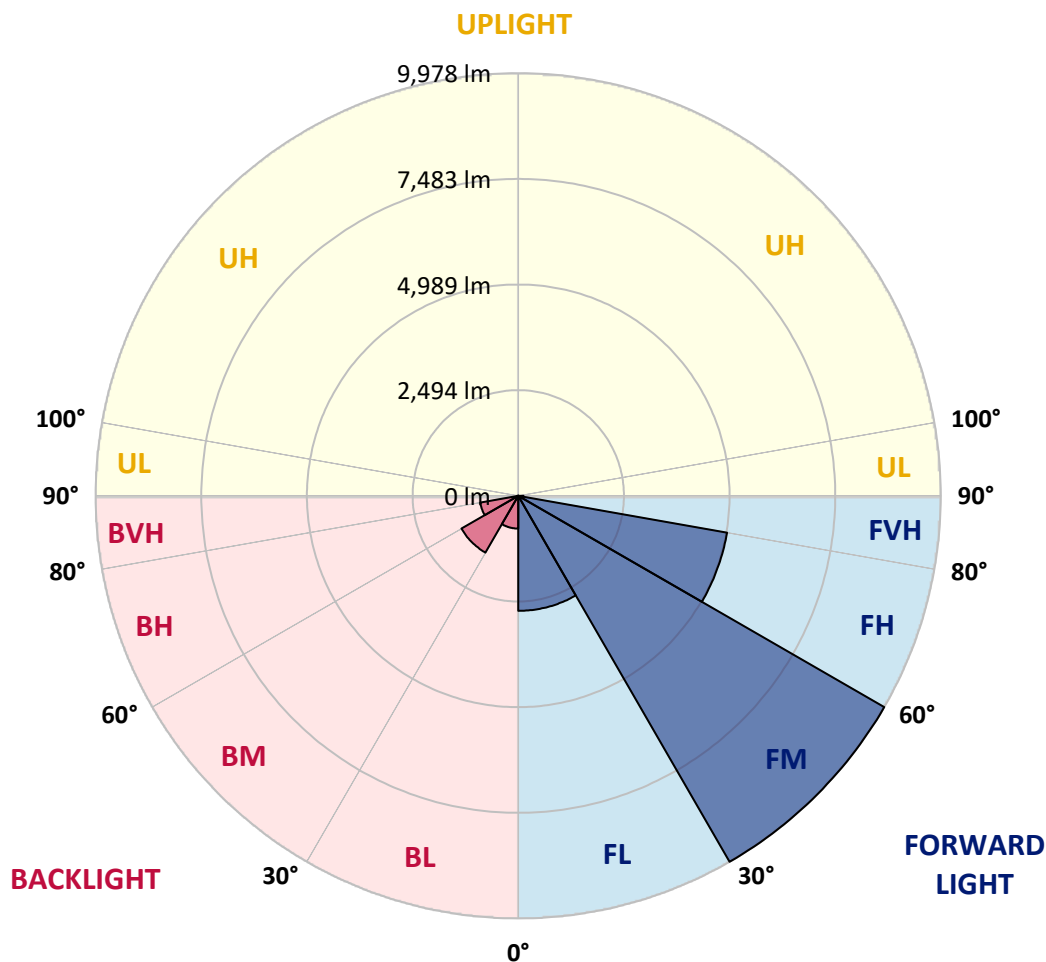
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2715.3	12.9			
FM	(30°-60°)	9977.8	47.3			
FH	(60°-80°)	5006.8	23.7			G3/7500
FVH	(80°-90°)	123.4	0.6			G2/225
BL	(0°-30°)	772.8	3.7	B2/1000		
BM	(30°-60°)	1548.2	7.3	B2/2500		
BH	(60°-80°)	912.6	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.1	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0
2.5°	4545.5	4596.1	4568.5	4586.9	4495.0	4435.2	4366.3	4233.0	4159.5	4150.3	4062.9
5°	5212.0	5267.1	5221.2	5207.4	5046.5	4908.6	4752.4	4518.0	4361.7	4334.1	4141.1
7.5°	5878.4	5929.0	5873.8	5832.4	5616.4	5372.8	5143.0	4798.3	4554.7	4508.8	4205.4
10°	6347.2	6393.2	6351.8	6310.4	6085.2	5837.0	5510.7	5060.3	4729.4	4655.8	4246.8
12.5°	6701.1	6728.7	6710.3	6673.5	6462.1	6195.5	5883.0	5354.4	4927.0	4835.1	4311.1
15°	6990.7	7036.6	7013.6	6986.1	6783.8	6517.3	6218.5	5662.4	5156.8	5041.9	4407.7
17.5°	7183.7	7215.9	7220.5	7220.5	7041.2	6779.2	6489.7	5942.7	5386.6	5239.5	4499.6
20°	7271.0	7307.8	7330.8	7367.5	7220.5	6995.3	6701.1	6181.7	5602.6	5437.2	4586.9
22.5°	7312.4	7344.6	7404.3	7487.0	7367.5	7179.1	6907.9	6402.4	5818.7	5644.0	4688.0
25°	7344.6	7385.9	7473.2	7629.5	7546.8	7385.9	7151.5	6655.1	6076.0	5896.8	4835.1
27.5°	7431.9	7482.4	7565.2	7753.6	7652.5	7574.4	7408.9	6926.3	6347.2	6163.4	5014.3
30°	7735.2	7776.6	7772.0	7891.5	7767.4	7744.4	7629.5	7188.3	6609.2	6425.3	5225.8
32.5°	8286.8	8328.1	8227.0	8181.0	7909.9	7914.5	7868.5	7468.7	6921.7	6733.3	5469.3
35°	8879.7	8925.6	8792.3	8714.2	8259.2	8125.9	8148.9	7818.0	7271.0	7082.6	5772.7
37.5°	9408.2	9463.4	9348.5	9233.5	8773.9	8466.0	8461.4	8208.6	7670.9	7477.8	6108.2
40°	9697.8	9762.1	9831.0	9766.7	9284.1	8944.0	8796.9	8608.5	8066.1	7868.5	6471.3
42.5°	9835.6	10014.9	10139.0	10097.6	9702.4	9357.6	9183.0	9026.7	8548.7	8355.7	6903.3
45°	9449.6	9454.2	9716.1	9941.3	9867.8	9638.0	9605.8	9495.5	9100.3	8916.4	7390.5
47.5°	8967.0	8930.2	9114.1	9513.9	9720.7	9780.5	9968.9	10014.9	9729.9	9546.1	7886.9
50°	7808.8	7831.7	8429.2	9003.7	9408.2	9794.3	10226.3	10548.0	10378.0	10203.3	8410.8
52.5°	6351.8	6407.0	7091.8	8355.7	8994.6	9656.4	10378.0	11081.2	11039.8	10874.4	8934.8
55°	5092.5	5179.8	5906.0	7275.6	8466.0	9348.5	10442.3	11568.4	11724.6	11573.0	9449.6
57.5°	3892.9	3984.8	4596.1	6002.5	7790.4	8847.5	10396.4	11995.8	12363.5	12267.0	9923.0
60°	2932.3	3024.2	3414.9	4867.3	6944.7	8286.8	10166.6	12276.2	12938.0	12836.9	10267.7
62.5°	2100.4	2174.0	2463.5	3787.2	5915.2	7620.3	9601.2	12280.8	13264.3	13181.6	10433.1
65°	1512.1	1512.1	1746.5	2702.5	4950.0	6820.6	8746.4	11715.4	13195.4	13172.4	10318.2
67.5°	1089.3	1098.5	1286.9	1889.0	3948.0	5850.8	7638.7	10708.9	12662.2	12777.1	9904.6
70°	772.1	795.1	882.4	1319.1	2982.9	4619.1	6452.9	9389.8	11701.7	11903.9	9104.9
72.5°	597.5	611.3	671.0	919.2	2178.5	3433.3	5143.0	7919.1	10419.3	10649.1	8015.6
75°	459.6	473.4	519.4	675.6	1562.7	2408.4	3653.9	6145.0	8401.7	8810.7	6439.1
77.5°	335.5	353.9	386.1	491.8	910.0	1530.5	2215.3	3456.3	4637.5	4830.5	3373.5
80°	156.3	179.2	225.2	317.1	491.8	721.6	785.9	1332.9	2229.1	2330.2	1829.2
82.5°	87.3	110.3	128.7	193.0	248.2	257.4	266.6	335.5	841.1	928.4	767.5
85°	41.4	55.2	59.7	82.7	82.7	73.5	87.3	64.3	137.9	165.5	160.9
87.5°	0.0	4.6	9.2	23.0	18.4	13.8	13.8	13.8	13.8	18.4	13.8
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°	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0	3994.0
2.5°	4021.6	3961.8	3823.9	3704.5	3626.3	3557.4	3465.5	3424.1	3350.6	3364.3	3323.0
5°	4044.6	3934.3	3690.7	3465.5	3300.0	3152.9	2992.1	2900.1	2799.0	2789.8	2757.7
7.5°	4058.3	3888.3	3539.0	3221.9	2969.1	2743.9	2527.9	2408.4	2284.3	2256.7	2229.1
10°	4044.6	3819.4	3382.7	2969.1	2633.6	2353.2	2109.6	1957.9	1829.2	1797.1	1769.5
12.5°	4058.3	3782.6	3235.6	2734.7	2334.8	2017.7	1741.9	1585.7	1466.2	1434.0	1415.6
15°	4090.5	3759.6	3111.6	2523.3	2068.2	1714.3	1443.2	1309.9	1213.4	1181.2	1172.0
17.5°	4118.1	3736.6	2978.3	2316.4	1801.7	1447.8	1213.4	1103.1	1020.3	988.2	979.0
20°	4154.9	3704.5	2845.0	2118.8	1567.3	1236.3	1029.5	933.0	868.7	845.7	841.1
22.5°	4187.0	3681.5	2720.9	1921.2	1351.3	1066.3	891.6	813.5	767.5	744.6	744.6
25°	4269.8	3690.7	2615.2	1737.3	1190.4	933.0	785.9	726.2	689.4	675.6	675.6
27.5°	4366.3	3727.4	2532.4	1581.1	1052.5	831.9	712.4	661.8	643.5	625.1	629.7
30°	4504.2	3801.0	2477.3	1452.4	951.4	753.8	652.6	615.9	597.5	592.9	592.9
32.5°	4678.8	3920.5	2472.7	1369.6	877.9	694.0	611.3	579.1	569.9	565.3	565.3
35°	4885.6	4026.2	2445.1	1332.9	831.9	652.6	579.1	556.1	551.5	551.5	551.5
37.5°	5133.8	4200.8	2426.7	1282.3	808.9	629.7	556.1	537.7	537.7	537.7	537.7
40°	5391.2	4343.3	2399.2	1236.3	799.7	615.9	542.3	519.4	519.4	519.4	519.4
42.5°	5699.2	4550.1	2390.0	1213.4	785.9	606.7	524.0	496.4	501.0	501.0	505.6
45°	6071.4	4784.5	2385.4	1190.4	781.3	597.5	505.6	473.4	478.0	473.4	473.4
47.5°	6448.3	5055.7	2399.2	1176.6	776.7	588.3	491.8	450.4	450.4	445.8	445.8
50°	6843.6	5303.9	2408.4	1162.8	767.5	569.9	468.8	432.0	422.8	413.6	418.2
52.5°	7215.9	5533.7	2412.9	1139.8	740.0	542.3	450.4	409.1	395.3	381.5	386.1
55°	7588.1	5754.3	2422.1	1112.3	703.2	514.8	427.4	386.1	367.7	349.3	349.3
57.5°	7923.7	5947.3	2399.2	1043.3	661.8	487.2	404.5	358.5	330.9	312.5	312.5
60°	8153.5	6085.2	2330.2	942.2	606.7	455.0	381.5	330.9	298.7	285.0	285.0
62.5°	8263.8	6108.2	2206.1	776.7	537.7	422.8	353.9	303.3	275.8	266.6	266.6
65°	8158.1	6007.1	2013.1	583.7	464.2	386.1	326.3	280.4	252.8	229.8	229.8
67.5°	7790.4	5722.1	1746.5	441.2	395.3	349.3	298.7	257.4	225.2	206.8	206.8
70°	7050.4	5129.2	1351.3	353.9	335.5	303.3	271.2	229.8	202.2	179.2	179.2
72.5°	6080.6	4347.9	951.4	285.0	285.0	257.4	229.8	202.2	174.7	156.3	156.3
75°	4665.0	3217.3	638.9	229.8	234.4	216.0	188.4	165.5	147.1	133.3	133.3
77.5°	2546.2	1590.2	390.7	170.1	174.7	165.5	147.1	133.3	124.1	110.3	110.3
80°	1236.3	698.6	225.2	119.5	124.1	119.5	110.3	96.5	96.5	87.3	87.3
82.5°	519.4	262.0	119.5	82.7	82.7	73.5	68.9	68.9	68.9	64.3	64.3
85°	128.7	50.6	50.6	46.0	46.0	46.0	41.4	41.4	41.4	32.2	36.8
87.5°	18.4	18.4	18.4	18.4	18.4	18.4	13.8	4.6	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)