

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: P841240

Luminaire Tested: **ARCH4-150-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841240
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: ARCH4-150-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1230mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24731 lumens
Efficiency: N/A
Efficacy: 164.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

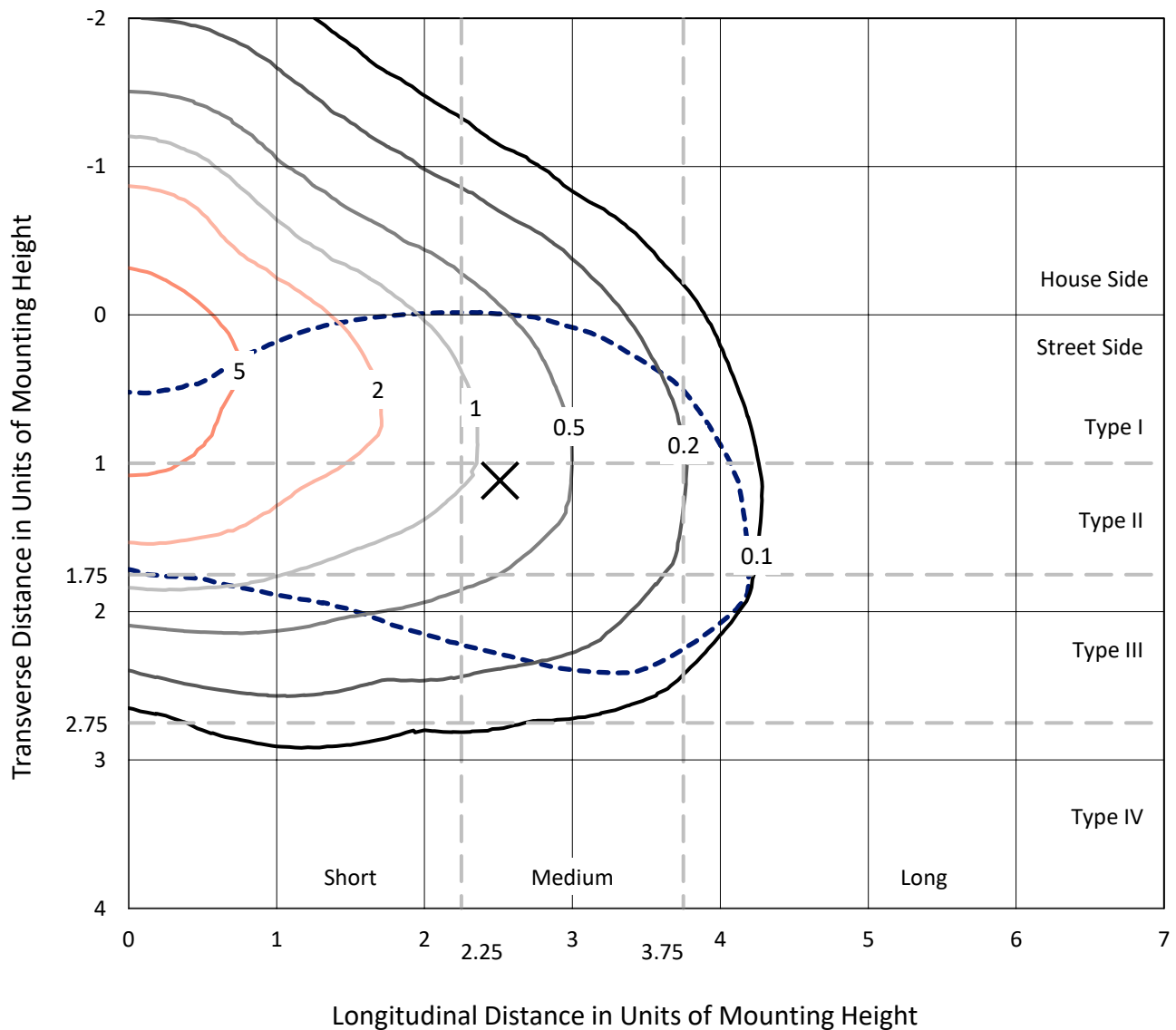
Input Watts (W): 150.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

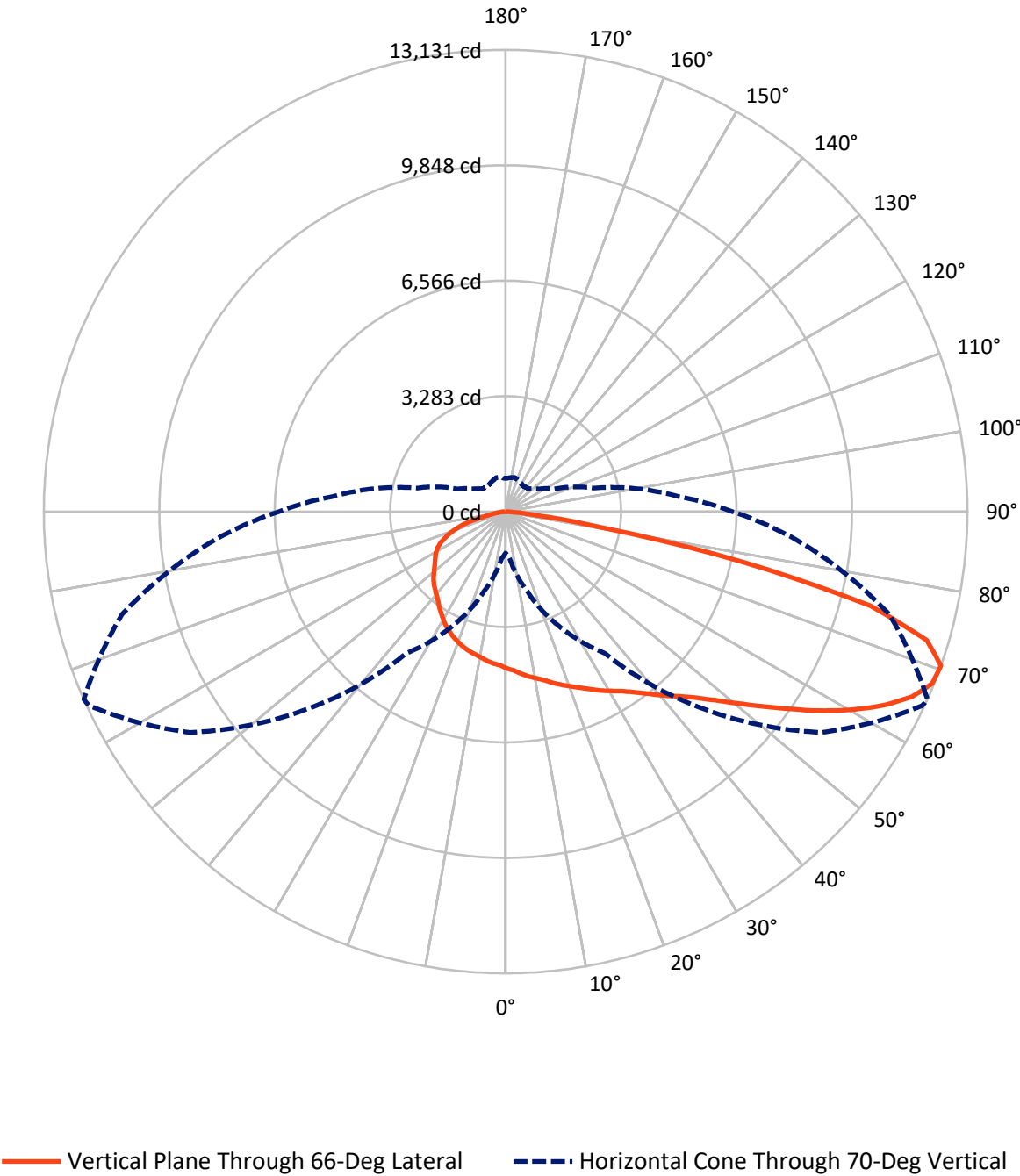
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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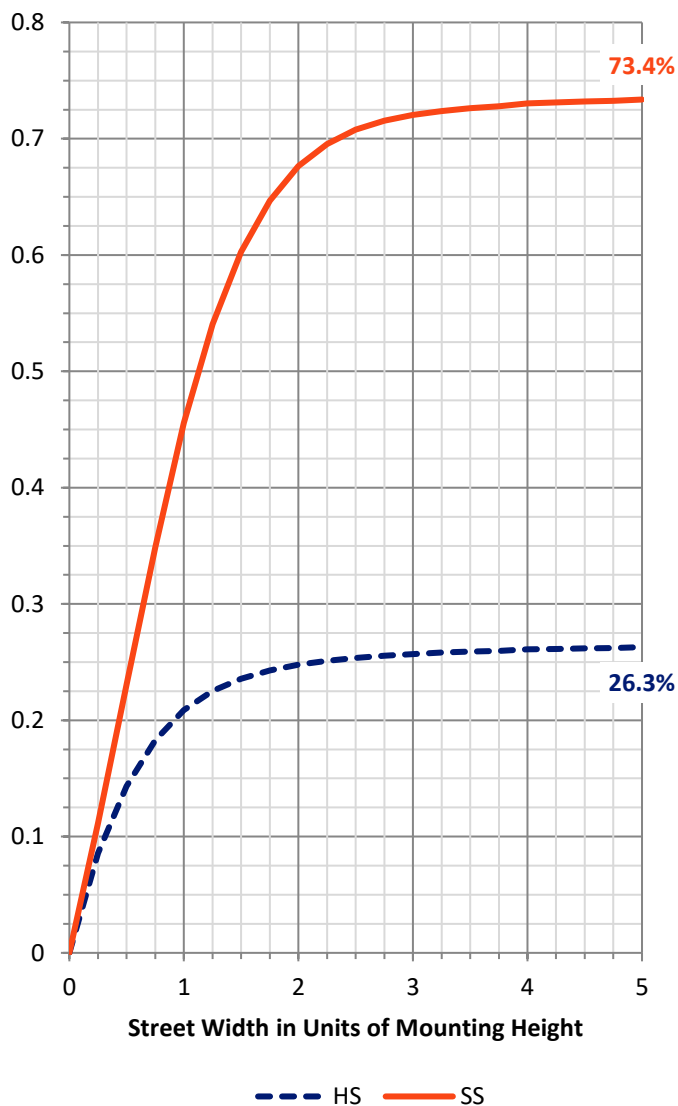
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6553.2	0.0	6553.2
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	18177.8	0.0	18177.8
	% Fixture	73.5	0.0	73.5
Total	Lumens	24731.0	0.0	24731.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.9	1.7
10°-20°	1286.5	5.2
20°-30°	2156.6	8.7
30°-40°	3229.1	13.1
40°-50°	4317.4	17.5
50°-60°	5040.7	20.4
60°-70°	5012.2	20.3
70°-80°	2967.3	12.0
80°-90°	292.5	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°	24731.0	100.0
0°-180°	24731.0	100.0

Coefficient of Utilization



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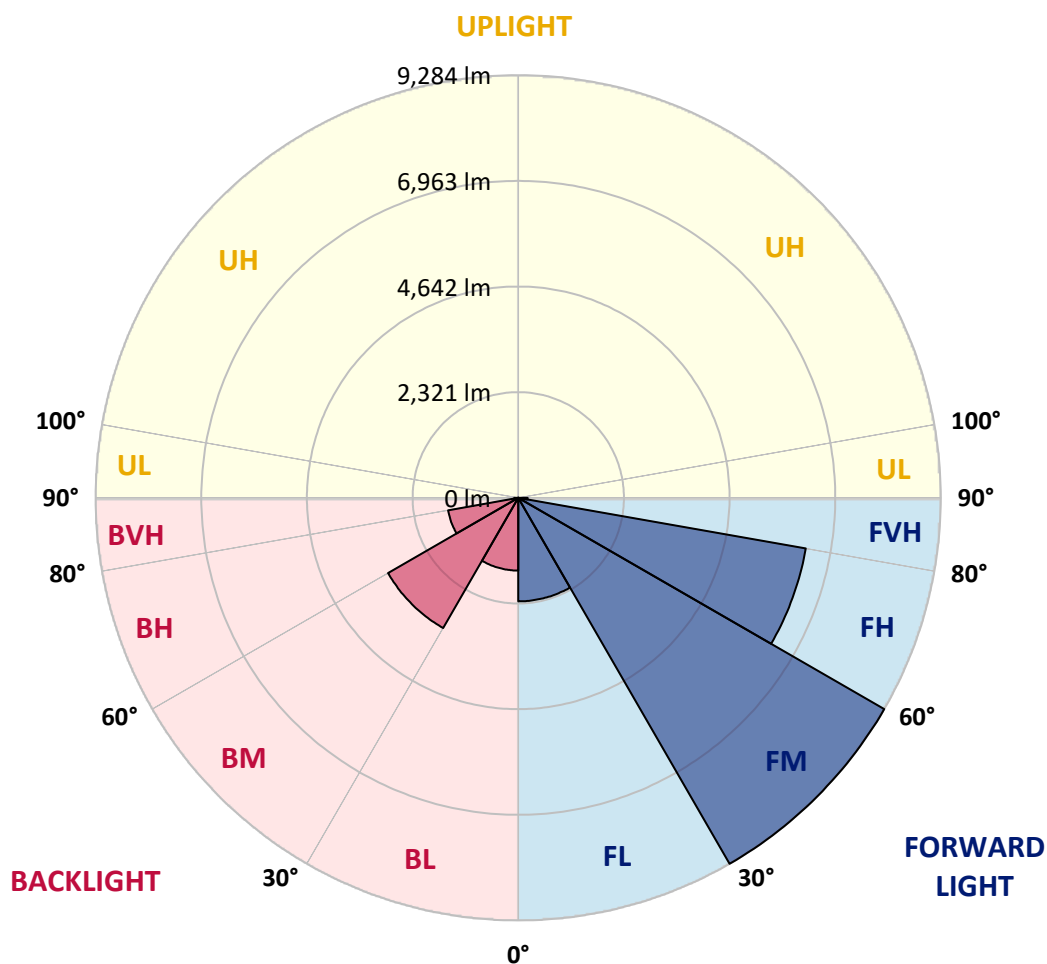
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2274.6	9.2			
FM	(30°-60°)	9283.7	37.5			
FH	(60°-80°)	6414.0	25.9			G3/7500
FVH	(80°-90°)	205.5	0.8			G2/225
BL	(0°-30°)	1597.4	6.5	B3/2500		
BM	(30°-60°)	3303.5	13.4	B3/5000		
BH	(60°-80°)	1565.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	86.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4
2.5°	4627.5	4620.2	4616.5	4602.0	4569.1	4583.7	4550.9	4529.0	4525.4	4474.3	4445.1
5°	4817.1	4813.5	4806.2	4784.3	4733.2	4740.5	4685.8	4645.7	4634.8	4554.5	4492.6
7.5°	4977.5	4970.3	4966.6	4937.4	4882.7	4879.1	4813.5	4755.1	4736.9	4627.5	4532.7
10°	5101.5	5090.6	5097.9	5068.7	5010.4	4999.4	4915.6	4839.0	4820.7	4682.2	4550.9
12.5°	5207.3	5200.0	5210.9	5185.4	5138.0	5127.1	5043.2	4944.7	4922.8	4762.4	4591.0
15°	5324.0	5298.4	5320.3	5309.4	5276.6	5272.9	5196.3	5086.9	5057.8	4864.5	4653.0
17.5°	5386.0	5371.4	5396.9	5400.5	5386.0	5411.5	5338.6	5207.3	5181.8	4959.3	4707.7
20°	5429.7	5407.8	5437.0	5458.9	5469.8	5520.9	5462.5	5334.9	5305.7	5050.5	4758.8
22.5°	5579.2	5531.8	5535.5	5550.1	5557.3	5630.3	5593.8	5469.8	5440.7	5163.5	4820.7
25°	5954.8	5860.0	5798.0	5754.3	5703.2	5765.2	5743.3	5623.0	5597.5	5298.4	4897.3
27.5°	6538.3	6417.9	6294.0	6166.3	5965.8	5940.2	5903.8	5794.4	5765.2	5433.4	4973.9
30°	7201.9	7081.6	6935.7	6731.5	6355.9	6159.0	6075.2	5954.8	5922.0	5553.7	5046.8
32.5°	7862.0	7756.2	7610.4	7362.4	6826.3	6425.2	6246.5	6122.6	6089.7	5685.0	5134.3
35°	8376.1	8310.5	8215.7	7905.7	7293.1	6738.8	6494.5	6345.0	6308.5	5892.8	5294.8
37.5°	8791.8	8744.4	8664.2	8339.7	7632.2	7052.4	6778.9	6607.6	6567.4	6118.9	5466.2
40°	9404.5	9280.5	9214.8	8744.4	7927.6	7336.9	7099.8	6921.2	6877.4	6359.6	5604.8
42.5°	9925.9	9834.8	9754.5	9105.4	8208.4	7581.2	7402.5	7238.4	7180.1	6596.6	5754.3
45°	10013.4	10049.9	10009.8	9284.1	8653.3	7821.9	7708.8	7603.1	7548.4	6917.5	5980.3
47.5°	10017.1	10017.1	9780.1	9386.2	9203.9	8091.7	8037.0	8073.5	8015.1	7325.9	6250.2
50°	9754.5	9801.9	9678.0	9411.8	9349.8	8361.5	8438.1	8635.0	8576.7	7759.9	6541.9
52.5°	9211.2	9368.0	9364.4	9371.6	9138.3	8591.3	8861.1	9309.7	9211.2	8248.5	6851.9
55°	8252.2	8565.8	8846.5	9087.2	8955.9	8729.9	9378.9	10028.0	9925.9	8795.5	7165.5
57.5°	7431.7	7632.2	7982.3	8664.2	8740.8	8850.2	9863.9	10779.2	10688.1	9400.8	7493.7
60°	6494.5	6771.7	7121.7	8091.7	8478.2	9007.0	10396.3	11512.2	11424.7	10013.4	7810.9
62.5°	5054.1	5411.5	6111.6	7212.9	8095.4	9105.4	10815.7	12157.6	12117.5	10593.2	8095.4
65°	3522.6	3839.8	4820.7	6133.5	7486.4	9061.7	11151.2	12733.8	12697.3	11067.3	8295.9
67.5°	2056.7	2425.0	3533.5	4937.4	6410.6	8759.0	11260.6	13072.9	13072.9	11355.4	8350.6
70°	1174.2	1345.6	2330.1	3599.1	4915.6	7924.0	10954.2	13069.3	13131.2	11289.7	8124.5
72.5°	820.5	897.1	1568.0	2421.3	3333.0	6410.6	10152.0	12438.4	12522.3	10669.8	7351.5
75°	638.1	692.8	1104.9	1651.9	2100.4	4354.0	8398.0	10487.5	10709.9	9094.5	5943.9
77.5°	485.0	525.1	645.4	1032.0	1345.6	2501.5	5542.8	6877.4	6892.0	5568.3	3187.1
80°	353.7	393.8	430.3	630.9	714.7	1170.5	2093.1	2873.5	2793.3	2694.8	1724.8
82.5°	211.5	251.6	262.6	342.8	350.1	499.6	733.0	926.2	889.8	1185.1	809.5
85°	91.2	127.6	134.9	156.8	149.5	204.2	291.7	244.3	218.8	251.6	175.0
87.5°	21.9	36.5	36.5	40.1	32.8	51.1	54.7	40.1	36.5	43.8	43.8
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°	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4	4463.4
2.5°	4437.9	4426.9	4430.6	4368.6	4350.3	4332.1	4321.2	4313.9	4306.6	4317.5	4328.5
5°	4470.7	4445.1	4416.0	4324.8	4288.3	4248.2	4219.1	4193.5	4182.6	4182.6	4193.5
7.5°	4496.2	4452.4	4390.5	4270.1	4204.5	4149.8	4102.4	4069.6	4051.3	4051.3	4062.3
10°	4499.8	4437.9	4339.4	4193.5	4106.0	4025.8	3971.1	3934.6	3909.1	3909.1	3916.4
12.5°	4521.7	4437.9	4310.2	4135.2	4025.8	3927.3	3861.7	3807.0	3796.1	3796.1	3803.4
15°	4558.2	4456.1	4292.0	4084.1	3952.9	3839.8	3766.9	3708.5	3686.7	3701.3	3704.9
17.5°	4591.0	4467.0	4259.2	4018.5	3861.7	3737.7	3657.5	3606.4	3577.3	3610.1	3610.1
20°	4612.9	4467.0	4211.8	3934.6	3763.2	3624.7	3548.1	3486.1	3464.2	3504.3	3508.0
22.5°	4645.7	4463.4	4160.7	3850.8	3657.5	3511.6	3435.1	3387.6	3376.7	3420.5	3435.1
25°	4682.2	4470.7	4106.0	3756.0	3540.8	3398.6	3340.2	3318.4	3325.7	3380.4	3398.6
27.5°	4722.3	4485.3	4051.3	3650.2	3413.2	3285.5	3252.7	3263.7	3292.8	3362.1	3384.0
30°	4758.8	4488.9	3974.7	3526.2	3267.3	3147.0	3161.6	3209.0	3252.7	3322.0	3347.5
32.5°	4806.2	4492.6	3894.5	3391.3	3110.5	3023.0	3088.6	3165.2	3209.0	3274.6	3303.8
35°	4922.8	4554.5	3832.5	3260.0	2964.6	2917.2	3026.6	3125.1	3150.6	3209.0	3234.5
37.5°	5057.8	4656.6	3799.7	3125.1	2822.4	2811.5	2950.1	3048.5	3055.8	3092.3	3117.8
40°	5141.6	4700.4	3763.2	3012.1	2694.8	2702.1	2844.3	2920.9	2906.3	2931.8	2950.1
42.5°	5225.5	4715.0	3686.7	2917.2	2574.5	2581.8	2691.2	2745.9	2753.1	2807.8	2833.4
45°	5367.7	4755.1	3602.8	2829.7	2465.1	2439.5	2505.2	2578.1	2672.9	2778.7	2807.8
47.5°	5557.3	4839.0	3515.3	2724.0	2359.3	2275.4	2301.0	2428.6	2527.1	2625.5	2643.8
50°	5750.6	4922.8	3435.1	2596.3	2253.6	2100.4	2111.4	2228.0	2308.3	2384.8	2395.8
52.5°	5940.2	4995.8	3365.8	2476.0	2133.2	1892.6	1936.3	2056.7	2111.4	2147.8	2158.8
55°	6129.9	5057.8	3303.8	2373.9	1994.7	1728.5	1768.6	1881.6	1936.3	1954.6	1961.8
57.5°	6326.8	5130.7	3256.4	2286.4	1837.9	1582.6	1608.1	1688.4	1739.4	1761.3	1754.0
60°	6490.9	5192.7	3230.8	2195.2	1681.1	1447.7	1440.4	1513.3	1586.3	1608.1	1600.8
62.5°	6618.5	5232.8	3190.7	2078.5	1542.5	1312.8	1276.3	1371.1	1447.7	1462.3	1473.2
65°	6687.8	5236.5	3092.3	1929.0	1400.3	1166.9	1141.4	1236.2	1283.6	1298.2	1298.2
67.5°	6676.8	5178.1	2899.0	1728.5	1269.0	1035.6	1013.7	1072.1	1141.4	1152.3	1141.4
70°	6450.8	4937.4	2589.1	1517.0	1112.2	918.9	878.8	937.2	1002.8	962.7	944.5
72.5°	5809.0	4313.9	2133.2	1283.6	937.2	773.1	754.8	813.2	816.8	824.1	805.9
75°	4583.7	3212.6	1597.2	999.2	758.5	649.1	645.4	634.5	649.1	678.3	656.4
77.5°	2406.7	1604.5	864.2	612.6	550.6	521.5	495.9	492.3	536.0	554.3	532.4
80°	1305.5	900.7	495.9	368.3	335.5	339.1	371.9	364.7	412.1	423.0	404.8
82.5°	568.9	426.6	244.3	222.4	222.4	218.8	229.7	255.3	306.3	306.3	244.3
85°	124.0	105.8	94.8	109.4	124.0	124.0	124.0	124.0	87.5	47.4	32.8
87.5°	40.1	40.1	40.1	43.8	47.4	47.4	40.1	29.2	18.2	3.6	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)