

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: P841508

Luminaire Tested: **ARCH4-190-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26165 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

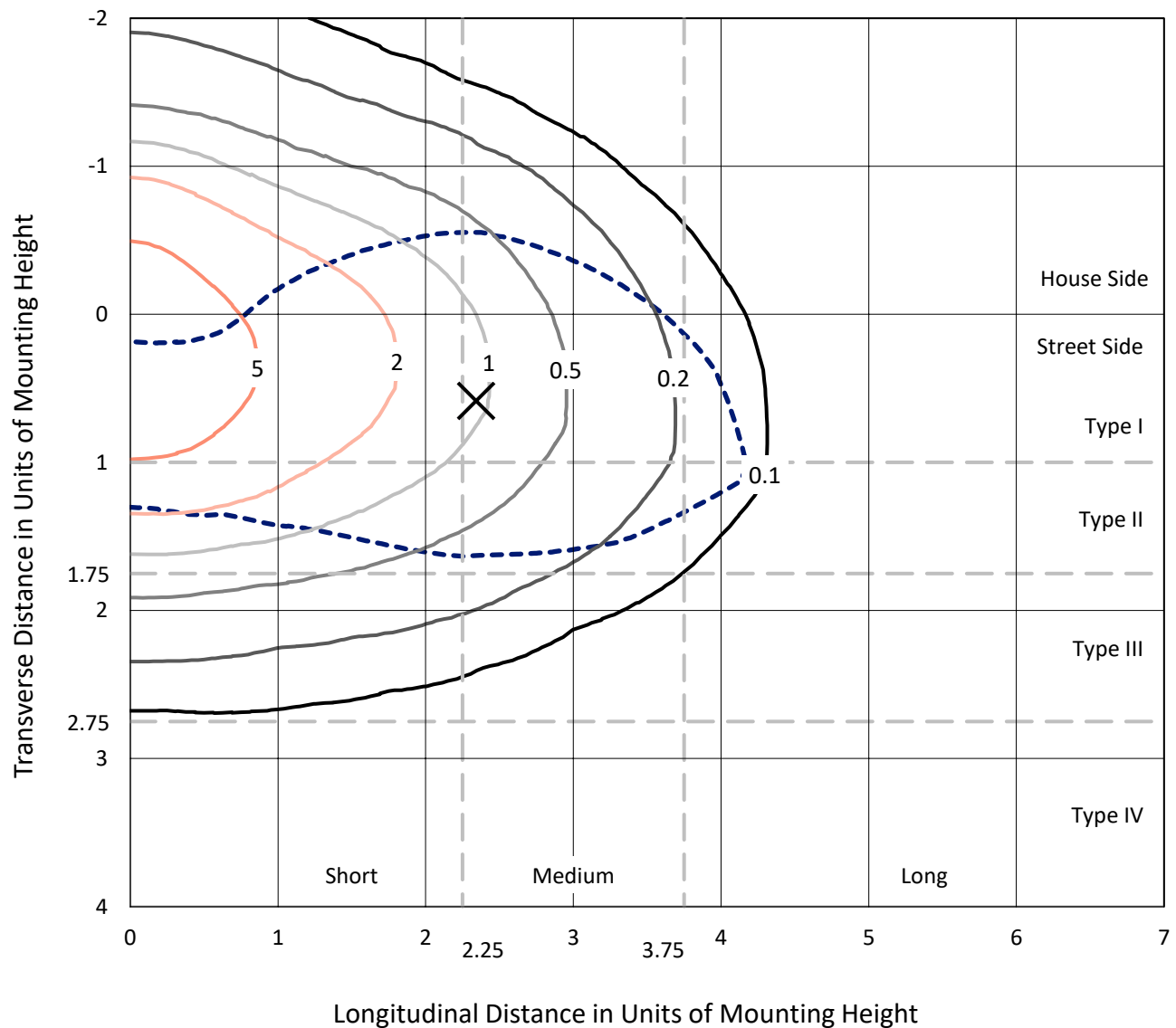
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

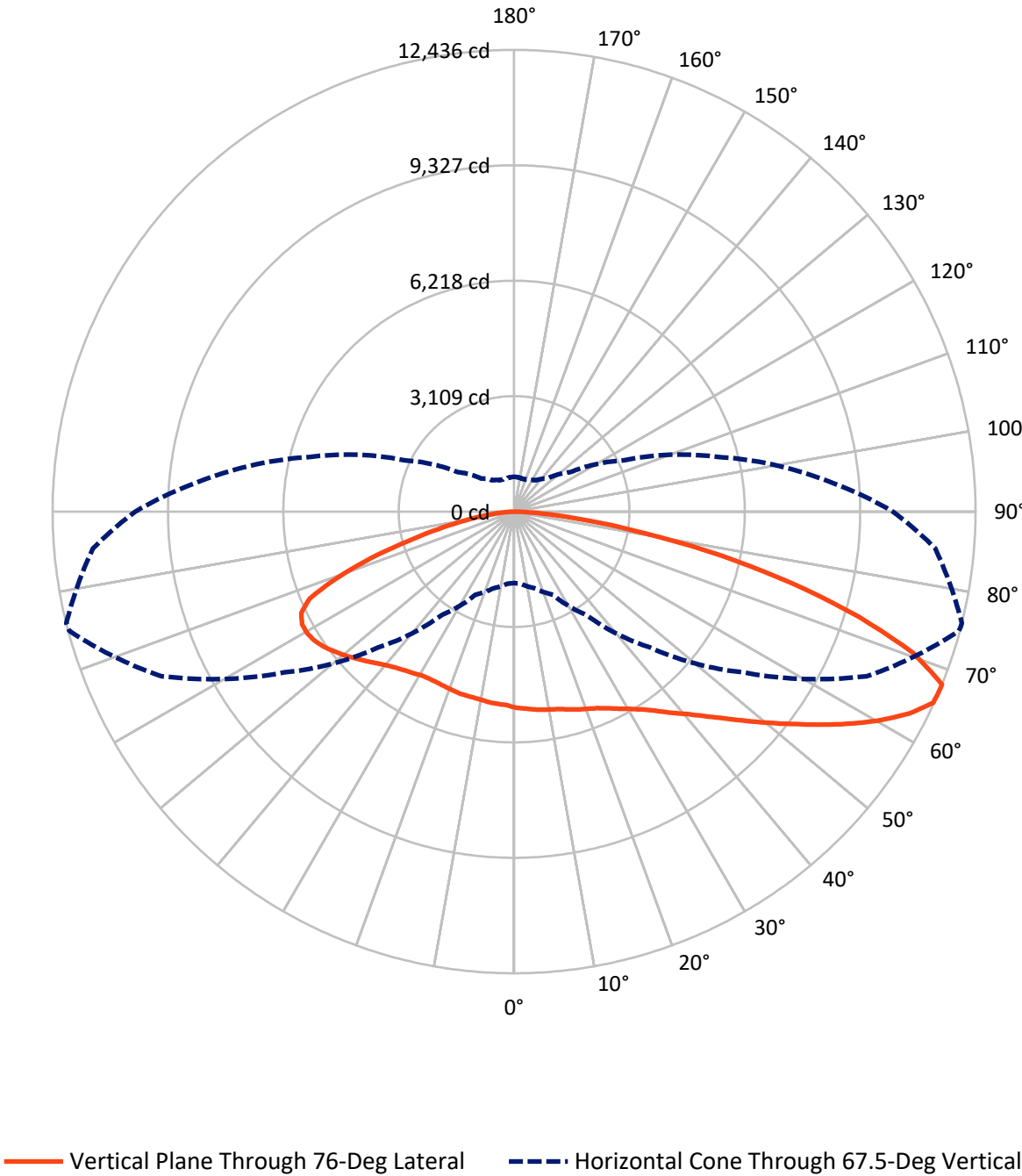
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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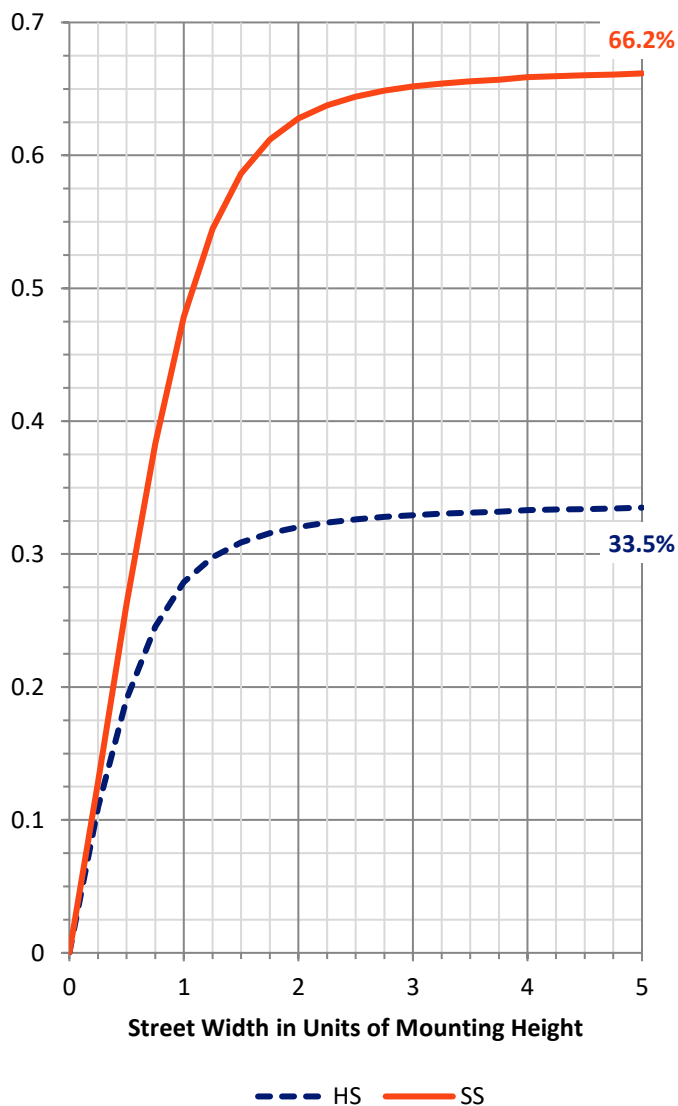
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8841.3	0.0	8841.3
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	17323.7	0.0	17323.7
	% Fixture	66.2	0.0	66.2
Total	Lumens	26165.0	0.0	26165.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.6	1.9
10°-20°	1558.1	6.0
20°-30°	2647.2	10.1
30°-40°	3766.7	14.4
40°-50°	4757.1	18.2
50°-60°	5150.5	19.7
60°-70°	4790.5	18.3
70°-80°	2572.9	9.8
80°-90°	412.3	1.6
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°	26165.0	100.0
0°-180°	26165.0	100.0

Coefficient of Utilization



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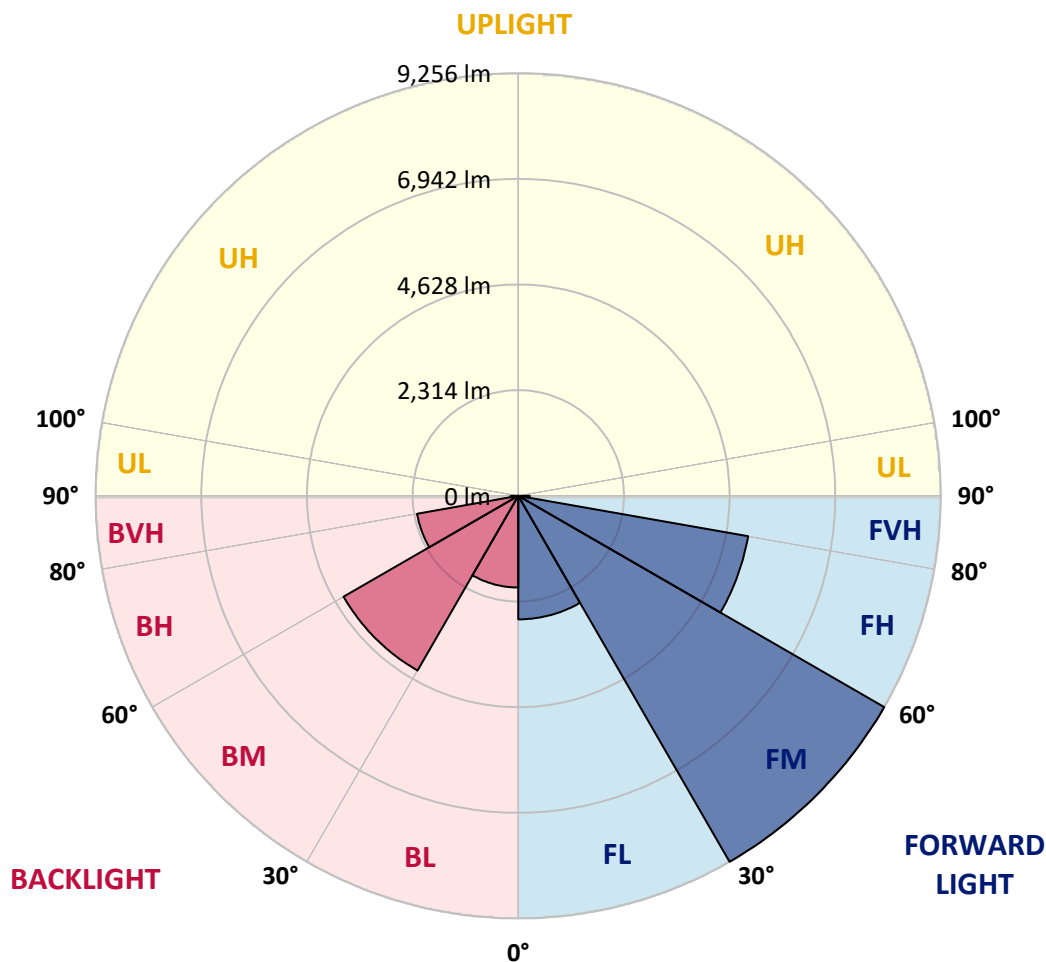
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2705.7	10.3			
FM	(30°-60°)	9256.2	35.4			
FH	(60°-80°)	5112.4	19.5			G3/7500
FVH	(80°-90°)	249.4	1.0			G3/500
BL	(0°-30°)	2009.2	7.7	B3/2500		
BM	(30°-60°)	4418.1	16.9	B3/5000		
BH	(60°-80°)	2251.1	8.6	B3/2500		G3/2500
BVH	(80°-90°)	162.9	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3
2.5°	5445.6	5435.9	5397.0	5401.9	5401.9	5397.0	5338.7	5314.4	5314.4	5309.6	5256.1
5°	5639.9	5625.3	5581.6	5571.9	5552.5	5528.2	5435.9	5382.4	5358.1	5353.3	5280.4
7.5°	5868.2	5848.8	5795.3	5766.2	5717.6	5654.5	5537.9	5455.3	5397.0	5392.1	5290.1
10°	6096.5	6077.1	6013.9	5960.5	5892.5	5790.5	5639.9	5518.4	5426.1	5416.4	5295.0
12.5°	6368.6	6349.1	6271.4	6203.4	6101.4	5965.4	5766.2	5601.0	5474.7	5460.2	5309.6
15°	6655.2	6626.0	6548.3	6470.6	6344.3	6169.4	5931.4	5712.8	5552.5	5528.2	5353.3
17.5°	6893.2	6854.3	6791.2	6713.5	6572.6	6368.6	6096.5	5824.5	5625.3	5605.9	5397.0
20°	7097.2	7068.1	7000.1	6927.2	6776.6	6553.2	6252.0	5936.2	5693.3	5669.0	5431.0
22.5°	7291.5	7252.7	7213.8	7160.4	6995.2	6747.5	6431.7	6072.2	5780.8	5751.6	5474.7
25°	7515.0	7471.3	7456.7	7427.6	7233.2	6980.6	6650.3	6242.3	5902.2	5868.2	5552.5
27.5°	7791.9	7743.3	7714.2	7714.2	7481.0	7218.7	6883.5	6441.4	6043.1	6013.9	5649.6
30°	8083.4	8025.1	7981.3	7981.3	7719.0	7456.7	7111.8	6640.6	6203.4	6169.4	5775.9
32.5°	8340.8	8282.5	8233.9	8229.1	7957.1	7694.7	7349.8	6859.2	6397.7	6354.0	5931.4
35°	8540.0	8486.6	8442.8	8452.5	8195.1	7937.6	7617.0	7150.7	6640.6	6592.0	6135.4
37.5°	8661.4	8642.0	8617.7	8651.7	8413.7	8170.8	7893.9	7432.4	6917.5	6873.8	6388.0
40°	8724.6	8710.0	8807.2	8850.9	8598.3	8379.7	8170.8	7723.9	7218.7	7170.1	6679.5
42.5°	8816.9	8938.3	8977.2	8967.5	8734.3	8540.0	8423.4	8039.6	7573.3	7529.6	7029.2
45°	8486.6	8457.4	8671.1	8787.7	8744.0	8642.0	8661.4	8418.5	7986.2	7942.5	7432.4
47.5°	8044.5	8005.6	8127.1	8413.7	8583.7	8680.9	8875.2	8812.0	8462.3	8423.4	7903.6
50°	7111.8	7165.2	7617.0	8000.8	8336.0	8671.1	9054.9	9234.7	8986.9	8948.0	8408.8
52.5°	6077.1	6130.5	6601.7	7485.8	8034.8	8598.3	9186.1	9657.3	9555.3	9511.5	8948.0
55°	5324.1	5440.7	5975.1	6616.3	7607.3	8370.0	9263.8	10089.6	10167.3	10128.5	9535.8
57.5°	4576.0	4663.5	5066.7	5635.0	7024.4	7971.6	9258.9	10492.8	10808.6	10769.7	10133.3
60°	3696.8	3808.5	4129.1	4741.2	6247.1	7495.6	9122.9	10808.6	11425.5	11396.4	10711.4
62.5°	3094.4	3128.4	3356.7	3886.2	5246.4	6893.2	8816.9	10978.6	11984.2	11964.7	11231.2
65°	2492.0	2496.9	2705.8	3147.8	4279.7	6145.1	8297.1	10915.4	12406.8	12416.5	11605.3
67.5°	1923.7	1948.0	2137.4	2472.6	3400.5	5173.5	7553.9	10488.0	12411.6	12435.9	11391.5
70°	1331.0	1350.5	1637.1	1962.5	2628.1	4124.3	6548.3	9356.1	11391.5	11410.9	10211.1
72.5°	937.6	947.3	1253.3	1569.1	2054.8	3109.0	4940.4	7738.5	9710.7	9725.3	8588.6
75°	699.5	709.2	884.1	1190.2	1573.9	2152.0	3376.2	5926.5	7757.9	7757.9	6781.5
77.5°	495.5	500.4	573.2	821.0	1049.3	1452.5	2030.6	3881.4	5693.3	5703.0	4940.4
80°	335.2	340.0	374.0	553.8	655.8	787.0	1102.7	2035.4	3589.9	3604.5	3138.1
82.5°	174.9	184.6	208.9	281.8	330.3	437.2	568.4	1034.7	1986.8	2025.7	1884.8
85°	68.0	68.0	77.7	92.3	121.4	170.0	262.3	393.5	898.7	927.8	830.7
87.5°	24.3	24.3	29.1	29.1	34.0	38.9	43.7	58.3	102.0	102.0	97.2
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°	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3	5285.3
2.5°	5236.7	5236.7	5212.4	5222.1	5217.3	5207.5	5197.8	5212.4	5197.8	5163.8	5159.0
5°	5246.4	5236.7	5197.8	5193.0	5178.4	5159.0	5134.7	5144.4	5120.1	5091.0	5086.1
7.5°	5251.3	5231.8	5178.4	5159.0	5129.8	5091.0	5052.1	5052.1	5018.1	4988.9	4984.1
10°	5241.6	5217.3	5144.4	5105.5	5052.1	4993.8	4940.4	4925.8	4886.9	4852.9	4852.9
12.5°	5246.4	5212.4	5120.1	5057.0	4984.1	4911.2	4843.2	4823.8	4789.8	4755.8	4750.9
15°	5275.6	5227.0	5110.4	5027.8	4920.9	4838.4	4765.5	4750.9	4721.8	4697.5	4697.5
17.5°	5304.7	5241.6	5095.8	4979.2	4848.1	4755.8	4687.8	4687.8	4668.3	4653.8	4653.8
20°	5319.3	5246.4	5066.7	4911.2	4760.6	4663.5	4600.3	4610.0	4605.2	4600.3	4600.3
22.5°	5353.3	5256.1	5042.4	4848.1	4668.3	4566.3	4508.0	4522.6	4517.7	4517.7	4522.6
25°	5406.7	5280.4	5023.0	4789.8	4580.9	4469.2	4406.0	4415.7	4415.7	4415.7	4415.7
27.5°	5479.6	5329.0	5018.1	4736.3	4493.5	4367.2	4289.4	4289.4	4270.0	4274.9	4279.7
30°	5591.3	5421.3	5027.8	4687.8	4401.2	4240.8	4148.6	4134.0	4129.1	4138.8	4143.7
32.5°	5727.3	5547.6	5086.1	4653.8	4304.0	4100.0	3983.4	3978.5	3964.0	3964.0	3964.0
35°	5897.4	5669.0	5139.5	4648.9	4206.8	3949.4	3823.1	3808.5	3774.5	3759.9	3759.9
37.5°	6116.0	5858.5	5202.7	4614.9	4124.3	3803.6	3653.1	3604.5	3565.6	3560.8	3560.8
40°	6383.1	6072.2	5295.0	4576.0	4036.8	3653.1	3453.9	3371.3	3376.2	3395.6	3395.6
42.5°	6698.9	6334.6	5411.6	4556.6	3910.5	3497.6	3220.7	3123.6	3157.6	3177.0	3181.9
45°	7068.1	6645.5	5542.7	4532.3	3793.9	3322.7	2973.0	2851.5	2866.1	2871.0	2875.8
47.5°	7495.6	6990.4	5678.8	4512.9	3662.8	3104.1	2700.9	2540.6	2535.8	2506.6	2516.3
50°	7942.5	7354.7	5819.6	4478.9	3502.5	2846.7	2414.3	2224.9	2186.0	2142.3	2147.1
52.5°	8418.5	7728.7	5950.8	4425.4	3303.3	2584.3	2142.3	1938.3	1860.5	1812.0	1821.7
55°	8943.2	8112.5	6077.1	4342.9	3094.4	2322.0	1899.4	1690.5	1593.4	1554.5	1559.3
57.5°	9424.1	8481.7	6169.4	4240.8	2866.1	2084.0	1685.7	1481.6	1418.5	1413.6	1418.5
60°	9890.5	8792.6	6208.3	4100.0	2632.9	1865.4	1486.5	1331.0	1287.3	1311.6	1316.5
62.5°	10283.9	8991.8	6188.8	3910.5	2394.9	1656.5	1326.2	1214.4	1185.3	1233.9	1238.7
65°	10512.3	9054.9	6052.8	3638.5	2137.4	1452.5	1175.6	1054.1	1039.6	1068.7	1083.3
67.5°	10211.1	8661.4	5683.6	3264.4	1850.8	1263.0	1029.9	932.7	908.4	932.7	932.7
70°	9050.1	7505.3	4809.2	2671.8	1535.1	1078.4	893.8	825.8	806.4	825.8	821.0
72.5°	7539.3	6242.3	3789.1	2084.0	1209.6	908.4	777.2	714.1	694.7	675.2	665.5
75°	5848.8	4741.2	2749.5	1530.2	913.3	728.7	650.9	592.7	544.1	563.5	553.8
77.5°	4284.6	3327.6	1948.0	1059.0	655.8	563.5	510.1	466.3	432.3	471.2	466.3
80°	2759.2	2152.0	1301.9	709.2	451.8	393.5	374.0	349.8	383.8	500.4	510.1
82.5°	1685.7	1365.0	777.2	461.5	296.3	262.3	242.9	242.9	393.5	432.3	437.2
85°	753.0	723.8	422.6	238.0	165.2	150.6	136.0	174.9	160.3	116.6	121.4
87.5°	121.4	126.3	92.3	82.6	63.2	63.2	48.6	34.0	24.3	14.6	14.6
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)