

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: P841546

Luminaire Tested: **ARCH4-190-740-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841546
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: ARCH4-190-740-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31351 lumens
Efficiency: N/A
Efficacy: 165.0 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

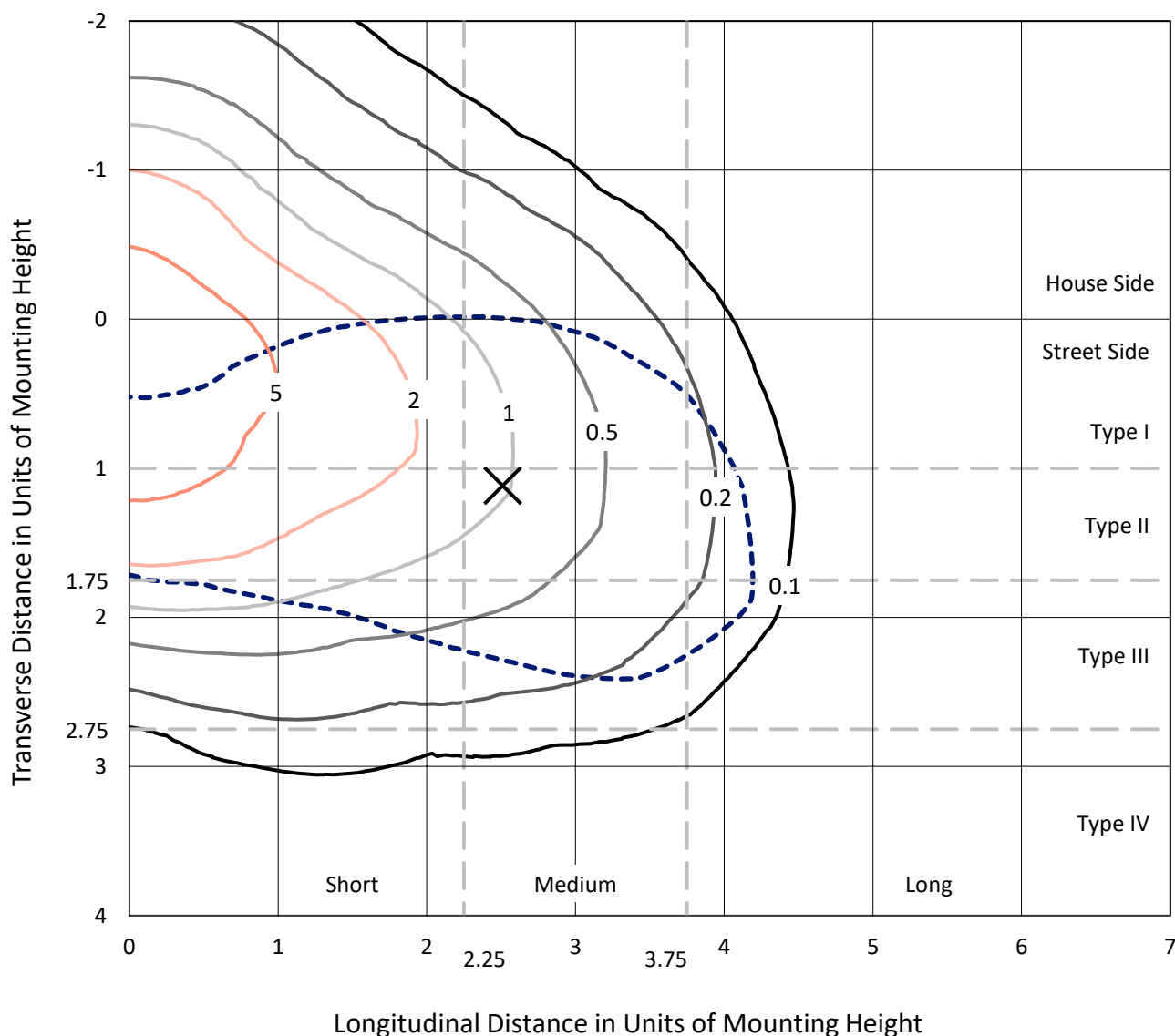
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

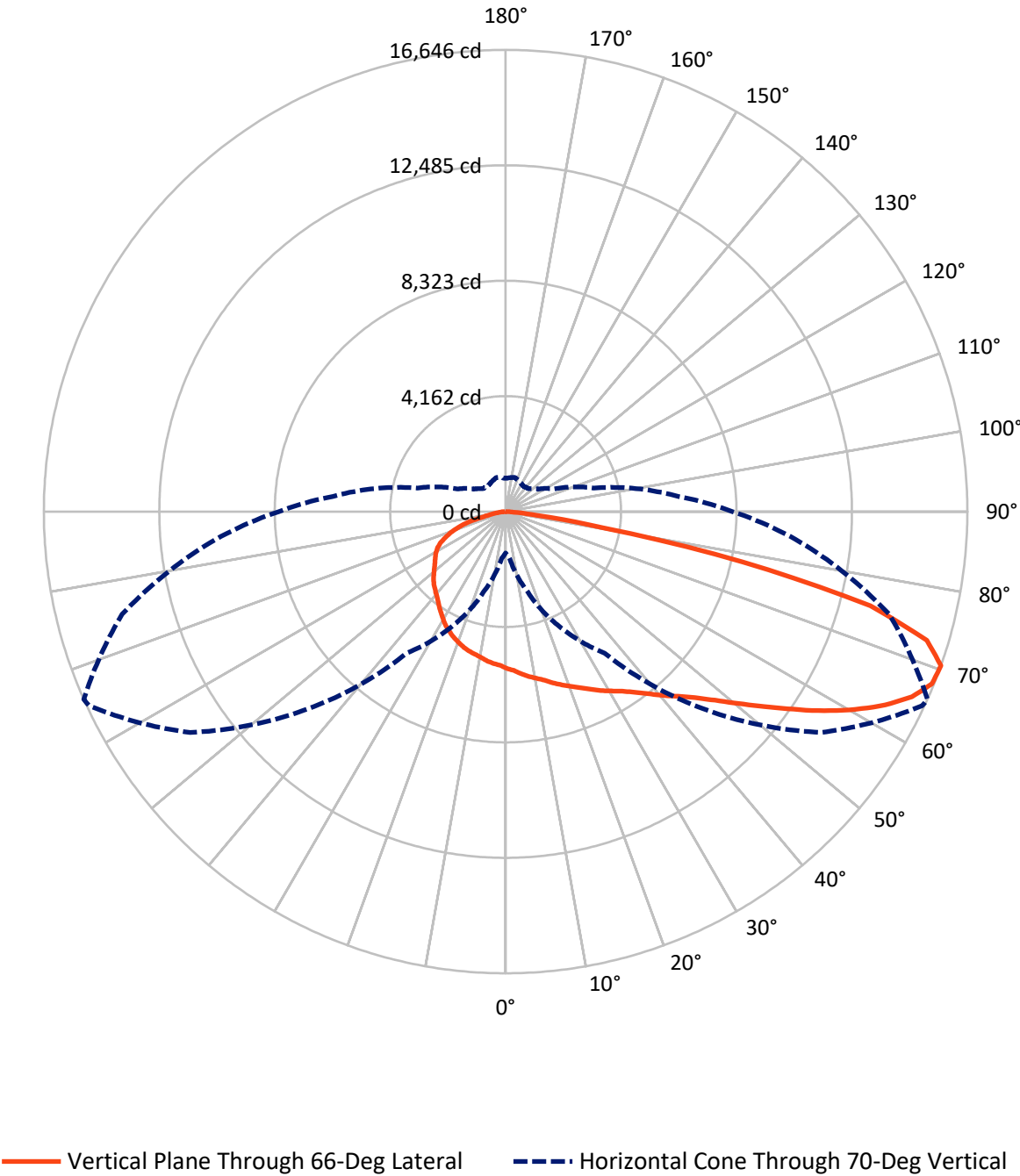
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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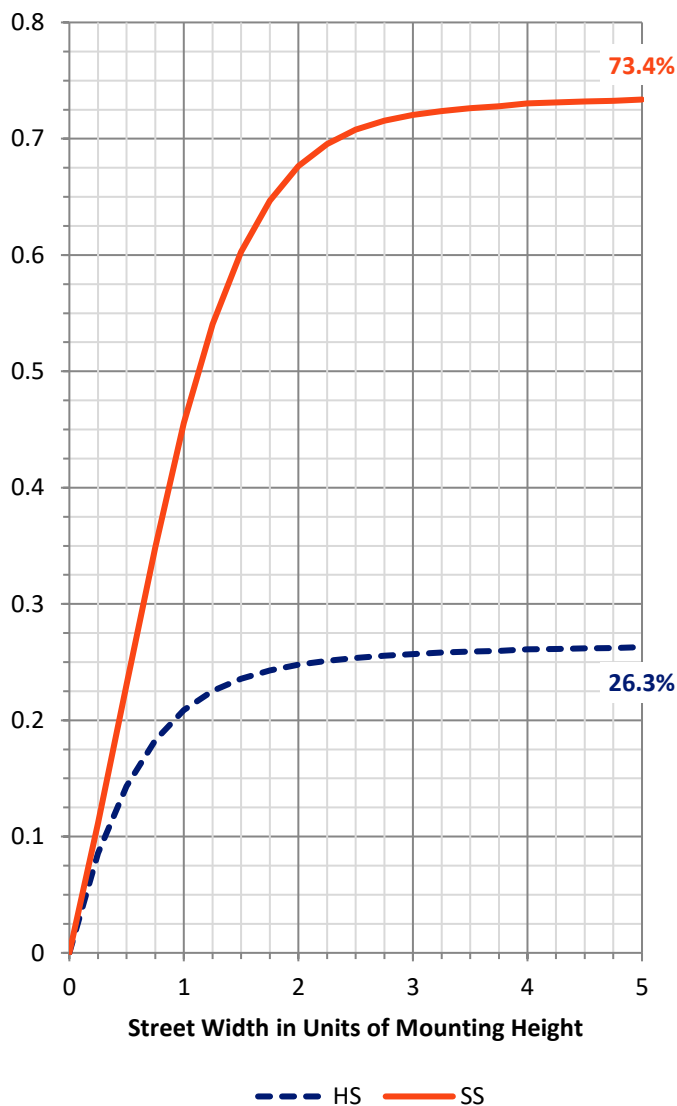
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8307.3	0.0	8307.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	23043.7	0.0	23043.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	31351.0	0.0	31351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.7	1.7
10°-20°	1630.9	5.2
20°-30°	2733.9	8.7
30°-40°	4093.5	13.1
40°-50°	5473.0	17.5
50°-60°	6389.9	20.4
60°-70°	6353.8	20.3
70°-80°	3761.5	12.0
80°-90°	370.7	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°	31351.0	100.0
0°-180°	31351.0	100.0

Coefficient of Utilization



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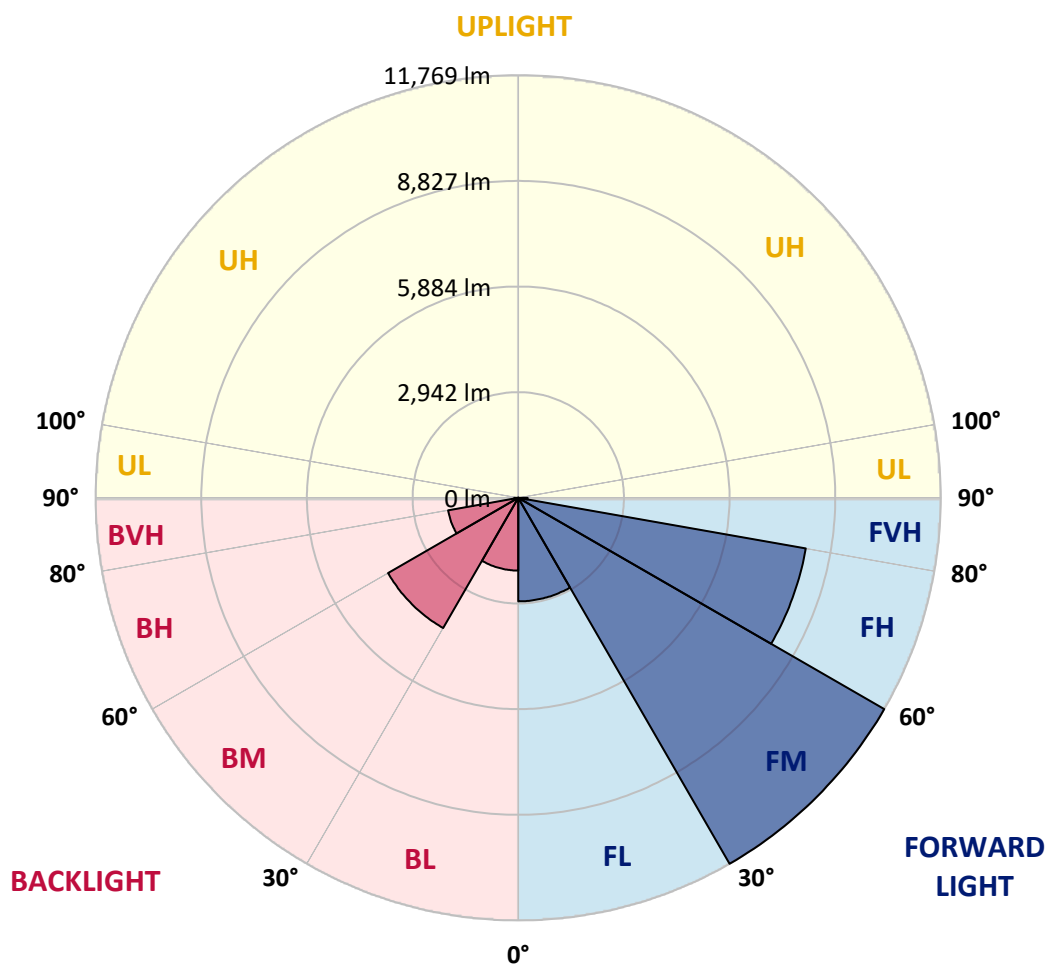
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2883.5	9.2			
FM	(30°-60°)	11768.7	37.5			
FH	(60°-80°)	8130.9	25.9			G4/12000
FVH	(80°-90°)	260.6	0.8			G3/500
BL	(0°-30°)	2025.0	6.5	B3/2500		
BM	(30°-60°)	4187.7	13.4	B3/5000		
BH	(60°-80°)	1984.4	6.3	B3/2500		G3/2500
BVH	(80°-90°)	110.2	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°	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1
2.5°	5866.2	5856.9	5852.3	5833.8	5792.2	5810.7	5769.1	5741.3	5736.7	5672.0	5635.0
5°	6106.5	6101.9	6092.7	6064.9	6000.2	6009.5	5940.1	5889.3	5875.4	5773.7	5695.1
7.5°	6309.9	6300.7	6296.1	6259.1	6189.7	6185.1	6101.9	6028.0	6004.8	5866.2	5746.0
10°	6467.1	6453.2	6462.5	6425.5	6351.5	6337.7	6231.4	6134.3	6111.2	5935.5	5769.1
12.5°	6601.2	6591.9	6605.8	6573.4	6513.3	6499.5	6393.1	6268.3	6240.6	6037.2	5819.9
15°	6749.1	6716.7	6744.5	6730.6	6689.0	6684.4	6587.3	6448.6	6411.6	6166.6	5898.5
17.5°	6827.7	6809.2	6841.5	6846.2	6827.7	6860.0	6767.6	6601.2	6568.8	6286.8	5967.9
20°	6883.1	6855.4	6892.4	6920.1	6934.0	6998.7	6924.8	6763.0	6726.0	6402.4	6032.6
22.5°	7072.7	7012.6	7017.2	7035.7	7044.9	7137.4	7091.2	6934.0	6897.0	6545.7	6111.2
25°	7548.8	7428.6	7350.0	7294.6	7229.8	7308.4	7280.7	7128.1	7095.8	6716.7	6208.2
27.5°	8288.4	8135.9	7978.7	7816.9	7562.7	7530.3	7484.1	7345.4	7308.4	6887.8	6305.3
30°	9129.8	8977.2	8792.3	8533.4	8057.3	7807.7	7701.4	7548.8	7507.2	7040.3	6397.8
32.5°	9966.5	9832.4	9647.5	9333.2	8653.6	8145.1	7918.6	7761.5	7719.8	7206.7	6508.7
35°	10618.3	10535.1	10414.9	10021.9	9245.3	8542.7	8233.0	8043.4	7997.2	7470.2	6712.1
37.5°	11145.2	11085.1	10983.5	10572.0	9675.2	8940.2	8593.5	8376.3	8325.4	7756.8	6929.4
40°	11921.9	11764.7	11681.5	11085.1	10049.7	9300.8	9000.3	8773.8	8718.3	8061.9	7105.0
42.5°	12582.9	12467.3	12365.6	11542.8	10405.6	9610.5	9384.0	9176.0	9102.0	8362.4	7294.6
45°	12693.8	12740.1	12689.2	11769.3	10969.6	9915.6	9772.3	9638.3	9568.9	8769.2	7581.2
47.5°	12698.5	12698.5	12398.0	11898.7	11667.6	10257.7	10188.4	10234.6	10160.6	9286.9	7923.2
50°	12365.6	12425.7	12268.6	11931.1	11852.5	10599.8	10696.8	10946.5	10872.5	9837.0	8293.1
52.5°	11676.9	11875.6	11871.0	11880.2	11584.4	10891.0	11233.1	11801.7	11676.9	10456.5	8686.0
55°	10461.1	10858.6	11214.6	11519.7	11353.3	11066.7	11889.5	12712.3	12582.9	11149.9	9083.5
57.5°	9421.0	9675.2	10119.0	10983.5	11080.5	11219.2	12504.3	13664.6	13549.0	11917.2	9499.6
60°	8233.0	8584.3	9028.1	10257.7	10747.7	11418.0	13179.2	14593.8	14482.8	12693.8	9901.7
62.5°	6407.0	6860.0	7747.6	9143.6	10262.3	11542.8	13710.8	15412.0	15361.1	13428.8	10262.3
65°	4465.5	4867.7	6111.2	7775.3	9490.3	11487.3	14136.1	16142.3	16096.1	14029.8	10516.6
67.5°	2607.2	3074.1	4479.4	6259.1	8126.6	11103.6	14274.8	16572.3	16572.3	14395.0	10585.9
70°	1488.5	1705.8	2953.9	4562.6	6231.4	10045.1	13886.5	16567.6	16646.2	14311.8	10299.3
72.5°	1040.1	1137.2	1987.7	3069.4	4225.1	8126.6	12869.5	15767.9	15874.2	13525.9	9319.3
75°	809.0	878.3	1400.7	2094.1	2662.7	5519.5	10646.0	13294.8	13576.8	11528.9	7534.9
77.5°	614.8	665.7	818.2	1308.2	1705.8	3171.1	7026.5	8718.3	8736.8	7058.8	4040.2
80°	448.4	499.2	545.5	799.7	906.0	1483.9	2653.4	3642.7	3541.0	3416.1	2186.5
82.5°	268.1	319.0	332.8	434.5	443.8	633.3	929.2	1174.2	1127.9	1502.4	1026.2
85°	115.6	161.8	171.0	198.8	189.5	258.9	369.8	309.7	277.4	319.0	221.9
87.5°	27.7	46.2	46.2	50.8	41.6	64.7	69.3	50.8	46.2	55.5	55.5
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°	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1	5658.1
2.5°	5625.8	5611.9	5616.5	5538.0	5514.8	5491.7	5477.9	5468.6	5459.4	5473.2	5487.1
5°	5667.4	5635.0	5598.0	5482.5	5436.3	5385.4	5348.4	5316.1	5302.2	5302.2	5316.1
7.5°	5699.7	5644.3	5565.7	5413.1	5329.9	5260.6	5200.5	5158.9	5135.8	5135.8	5149.6
10°	5704.4	5625.8	5501.0	5316.1	5205.1	5103.4	5034.1	4987.9	4955.5	4955.5	4964.7
12.5°	5732.1	5625.8	5464.0	5242.1	5103.4	4978.6	4895.4	4826.1	4812.2	4812.2	4821.4
15°	5778.3	5648.9	5440.9	5177.4	5011.0	4867.7	4775.2	4701.2	4673.5	4692.0	4696.6
17.5°	5819.9	5662.8	5399.3	5094.2	4895.4	4738.2	4636.5	4571.8	4534.8	4576.4	4576.4
20°	5847.7	5662.8	5339.2	4987.9	4770.6	4594.9	4497.9	4419.3	4391.5	4442.4	4447.0
22.5°	5889.3	5658.1	5274.5	4881.5	4636.5	4451.6	4354.6	4294.5	4280.6	4336.1	4354.6
25°	5935.5	5667.4	5205.1	4761.3	4488.6	4308.3	4234.4	4206.6	4215.9	4285.2	4308.3
27.5°	5986.4	5685.9	5135.8	4627.3	4326.8	4165.0	4123.4	4137.3	4174.3	4262.1	4289.8
30°	6032.6	5690.5	5038.7	4470.1	4141.9	3989.4	4007.9	4067.9	4123.4	4211.2	4243.6
32.5°	6092.7	5695.1	4937.0	4299.1	3943.1	3832.2	3915.4	4012.5	4067.9	4151.2	4188.1
35°	6240.6	5773.7	4858.4	4132.7	3758.2	3698.1	3836.8	3961.6	3994.0	4067.9	4100.3
37.5°	6411.6	5903.1	4816.8	3961.6	3577.9	3564.1	3739.7	3864.5	3873.8	3920.0	3952.4
40°	6518.0	5958.6	4770.6	3818.3	3416.1	3425.4	3605.7	3702.8	3684.3	3716.6	3739.7
42.5°	6624.3	5977.1	4673.5	3698.1	3263.6	3272.8	3411.5	3480.9	3490.1	3559.5	3591.8
45°	6804.6	6028.0	4567.2	3587.2	3124.9	3092.6	3175.8	3268.2	3388.4	3522.5	3559.5
47.5°	7044.9	6134.3	4456.2	3453.1	2990.9	2884.5	2916.9	3078.7	3203.5	3328.3	3351.4
50°	7289.9	6240.6	4354.6	3291.3	2856.8	2662.7	2676.5	2824.4	2926.1	3023.2	3037.1
52.5°	7530.3	6333.1	4266.7	3138.8	2704.3	2399.2	2454.6	2607.2	2676.5	2722.7	2736.6
55°	7770.7	6411.6	4188.1	3009.4	2528.6	2191.1	2242.0	2385.3	2454.6	2477.7	2487.0
57.5°	8020.3	6504.1	4128.0	2898.4	2329.8	2006.2	2038.6	2140.3	2205.0	2232.7	2223.5
60°	8228.3	6582.7	4095.7	2782.8	2131.0	1835.2	1826.0	1918.4	2010.9	2038.6	2029.3
62.5°	8390.1	6633.5	4044.8	2634.9	1955.4	1664.2	1617.9	1738.1	1835.2	1853.7	1867.6
65°	8478.0	6638.1	3920.0	2445.4	1775.1	1479.3	1446.9	1567.1	1627.2	1645.7	1645.7
67.5°	8464.1	6564.2	3675.0	2191.1	1608.7	1312.8	1285.1	1359.1	1446.9	1460.8	1446.9
70°	8177.5	6259.1	3282.1	1923.0	1409.9	1164.9	1114.1	1188.0	1271.2	1220.4	1197.3
72.5°	7363.9	5468.6	2704.3	1627.2	1188.0	980.0	956.9	1030.9	1035.5	1044.7	1021.6
75°	5810.7	4072.6	2024.7	1266.6	961.5	822.8	818.2	804.3	822.8	859.8	832.1
77.5°	3051.0	2034.0	1095.6	776.6	698.0	661.0	628.7	624.1	679.5	702.6	674.9
80°	1654.9	1141.8	628.7	466.9	425.3	429.9	471.5	462.3	522.4	536.2	513.1
82.5°	721.1	540.9	309.7	282.0	282.0	277.4	291.2	323.6	388.3	388.3	309.7
85°	157.2	134.1	120.2	138.7	157.2	157.2	157.2	157.2	110.9	60.1	41.6
87.5°	50.8	50.8	50.8	55.5	60.1	60.1	50.8	37.0	23.1	4.6	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)