

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: P842320

Luminaire Tested: **ARCH4-300-730-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842320
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: ARCH4-300-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41934 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 299.2
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



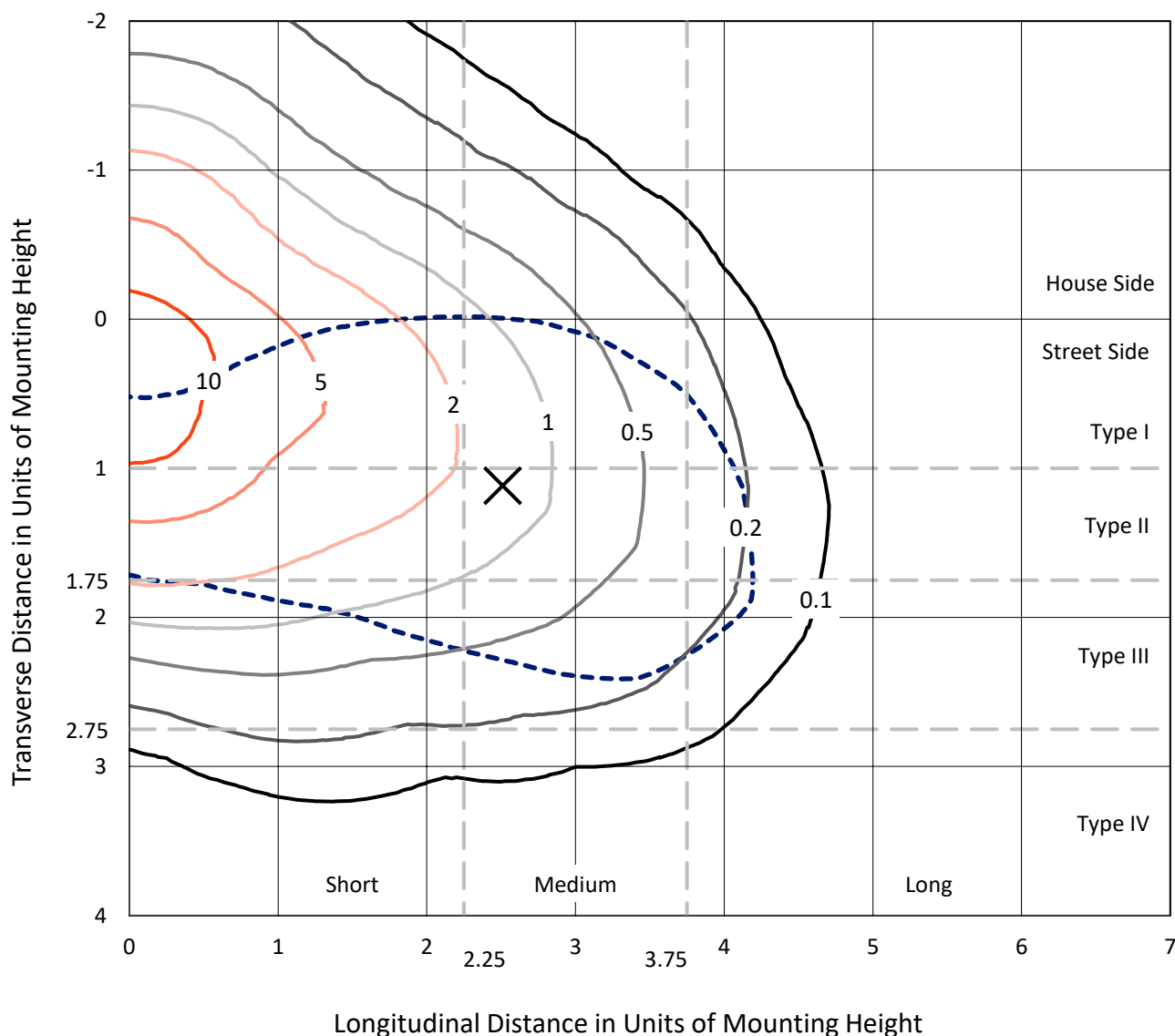
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

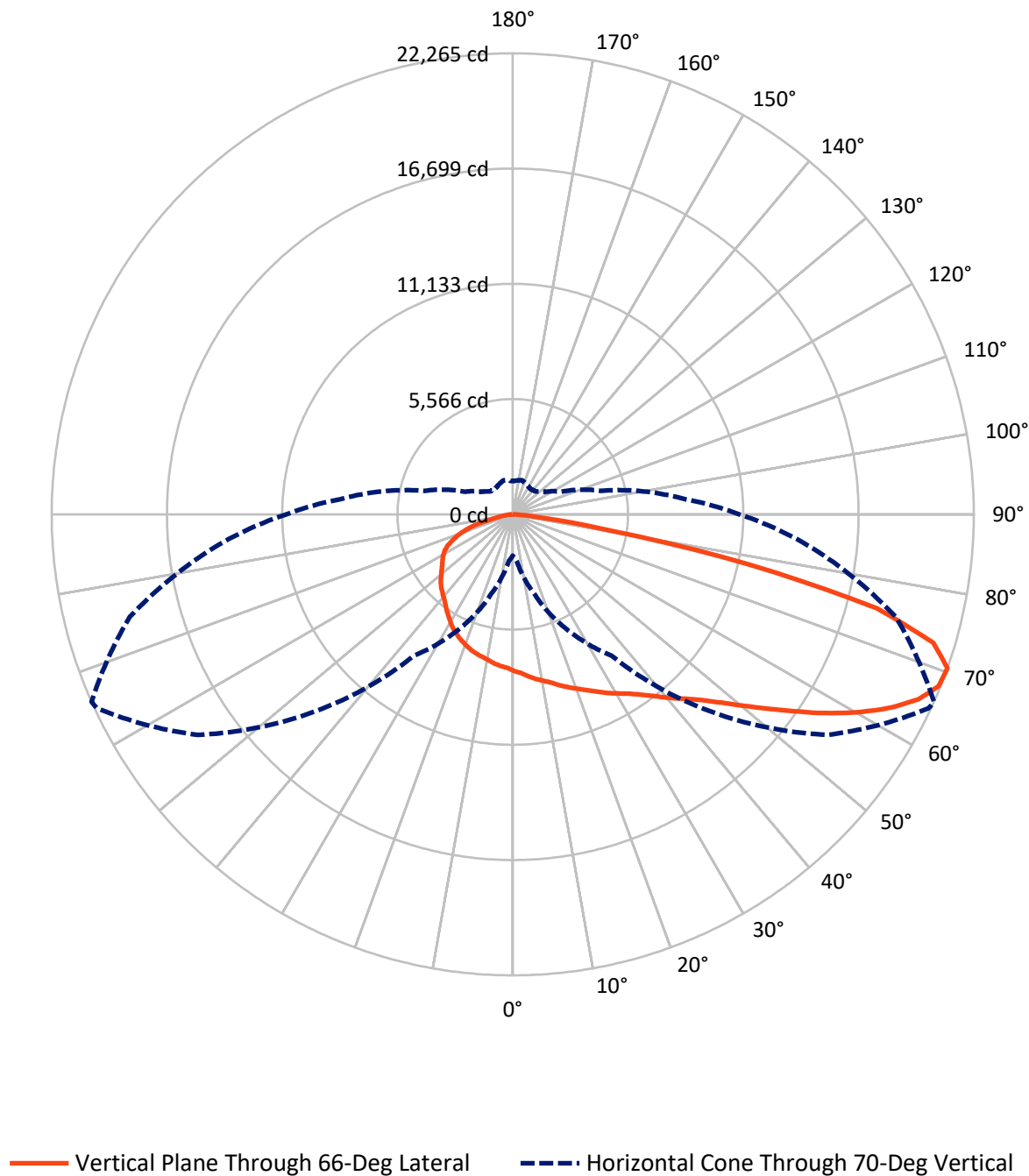
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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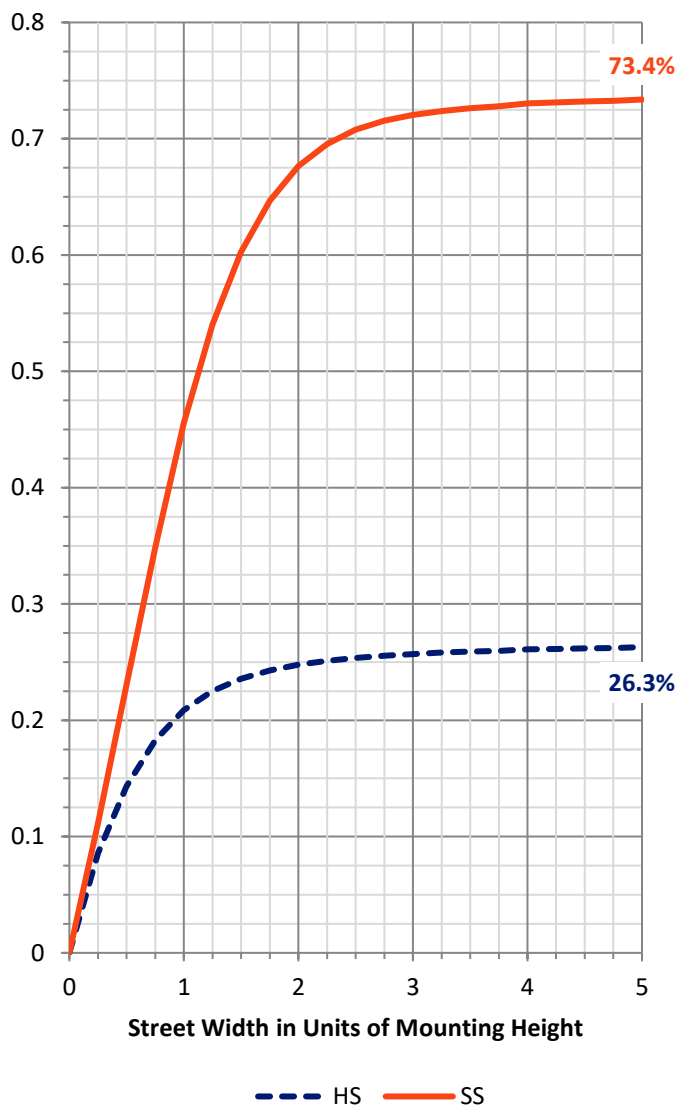
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11111.6	0.0	11111.6
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	30822.4	0.0	30822.4
	% Fixture	73.5	0.0	73.5
Total	Lumens	41934.0	0.0	41934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.2	1.7
10°-20°	2181.4	5.2
20°-30°	3656.7	8.7
30°-40°	5475.3	13.1
40°-50°	7320.5	17.5
50°-60°	8547.0	20.4
60°-70°	8498.6	20.3
70°-80°	5031.3	12.0
80°-90°	495.9	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°	41934.0	100.0
0°-180°	41934.0	100.0

Coefficient of Utilization



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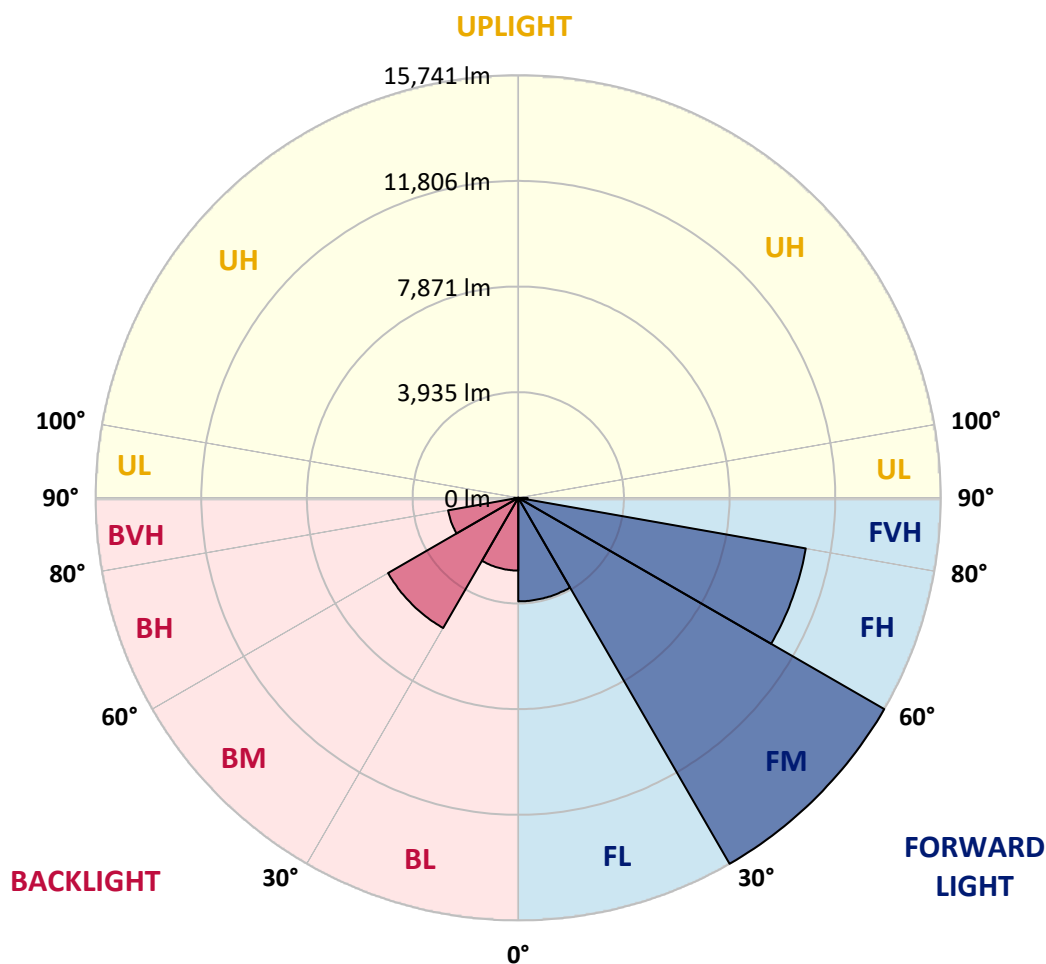
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3856.8	9.2			
FM	(30°-60°)	15741.5	37.5			
FH	(60°-80°)	10875.7	25.9			G4/12000
FVH	(80°-90°)	348.5	0.8			G3/500
BL	(0°-30°)	2708.5	6.5	B4/5000		
BM	(30°-60°)	5601.4	13.4	B4/8500		
BH	(60°-80°)	2654.3	6.3	B4/5000		G4/5000
BVH	(80°-90°)	147.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1
2.5°	7846.4	7834.0	7827.8	7803.1	7747.4	7772.2	7716.5	7679.4	7673.2	7586.7	7537.2
5°	8167.9	8161.7	8149.3	8112.2	8025.7	8038.0	7945.3	7877.3	7858.7	7722.7	7617.6
7.5°	8440.0	8427.6	8421.4	8371.9	8279.2	8273.0	8161.7	8062.8	8031.9	7846.4	7685.6
10°	8650.2	8631.6	8644.0	8594.5	8495.6	8477.0	8334.8	8205.0	8174.1	7939.1	7716.5
12.5°	8829.5	8817.1	8835.7	8792.4	8712.0	8693.5	8551.2	8384.3	8347.2	8075.1	7784.5
15°	9027.3	8984.1	9021.2	9002.6	8947.0	8940.8	8810.9	8625.4	8576.0	8248.3	7889.7
17.5°	9132.5	9107.7	9151.0	9157.2	9132.5	9175.7	9052.1	8829.5	8786.2	8409.0	7982.4
20°	9206.7	9169.6	9219.0	9256.1	9274.7	9361.2	9262.3	9045.9	8996.4	8563.6	8069.0
22.5°	9460.2	9379.8	9386.0	9410.7	9423.1	9546.7	9484.9	9274.7	9225.2	8755.3	8174.1
25°	10097.0	9936.3	9831.2	9757.0	9670.4	9775.5	9738.4	9534.4	9491.1	8984.1	8303.9
27.5°	11086.3	10882.3	10672.1	10455.6	10115.6	10072.3	10010.5	9825.0	9775.5	9212.8	8433.8
30°	12211.7	12007.6	11760.3	11414.0	10777.2	10443.3	10301.1	10097.0	10041.4	9416.9	8557.4
32.5°	13330.8	13151.5	12904.2	12483.7	11574.8	10894.6	10591.7	10381.4	10325.8	9639.5	8705.8
35°	14202.6	14091.3	13930.6	13405.0	12366.2	11426.4	11012.1	10758.6	10696.8	9991.9	8977.9
37.5°	14907.5	14827.1	14691.1	14140.8	12941.3	11958.1	11494.4	11203.8	11135.8	10375.3	9268.5
40°	15946.3	15736.0	15624.7	14827.1	13442.1	12440.4	12038.5	11735.6	11661.4	10783.4	9503.4
42.5°	16830.4	16675.9	16539.8	15439.2	13918.2	12854.7	12551.7	12273.5	12174.6	11185.3	9757.0
45°	16978.8	17040.7	16972.6	15742.2	14672.5	13262.8	13071.1	12891.8	12799.0	11729.4	10140.3
47.5°	16985.0	16985.0	16583.1	15915.3	15606.2	13720.3	13627.6	13689.4	13590.5	12421.9	10597.9
50°	16539.8	16620.2	16410.0	15958.6	15853.5	14177.9	14307.7	14641.6	14542.7	13157.7	11092.5
52.5°	15618.5	15884.4	15878.2	15890.6	15494.9	14567.4	15025.0	15785.5	15618.5	13986.2	11618.1
55°	13992.4	14524.1	15000.2	15408.3	15185.7	14802.4	15903.0	17003.6	16830.4	14913.7	12149.8
57.5°	12601.2	12941.3	13534.8	14691.1	14820.9	15006.4	16725.3	18277.3	18122.7	15940.1	12706.3
60°	11012.1	11482.0	12075.6	13720.3	14375.7	15272.3	17628.1	19520.1	19371.7	16978.8	13244.2
62.5°	8569.8	9175.7	10362.9	12230.2	13726.5	15439.2	18339.1	20614.5	20546.5	17961.9	13726.5
65°	5972.9	6510.8	8174.1	10400.0	12693.9	15365.0	18908.0	21591.4	21529.6	18765.8	14066.6
67.5°	3487.3	4111.8	5991.4	8371.9	10869.9	14851.8	19093.5	22166.5	22166.5	19254.2	14159.3
70°	1991.0	2281.6	3951.0	6102.7	8334.8	13435.9	18574.1	22160.3	22265.4	19142.9	13776.0
72.5°	1391.2	1521.0	2658.7	4105.6	5651.4	10869.9	17213.8	21090.6	21232.8	18091.8	12465.2
75°	1082.0	1174.8	1873.5	2801.0	3561.5	7382.6	14239.7	17782.6	18159.8	15420.7	10078.5
77.5°	822.4	890.4	1094.4	1749.8	2281.6	4241.6	9398.3	11661.4	11686.1	9441.6	5404.0
80°	599.8	667.8	729.6	1069.7	1211.9	1984.8	3549.1	4872.3	4736.3	4569.3	2924.6
82.5°	358.6	426.6	445.2	581.2	593.6	847.1	1242.8	1570.5	1508.7	2009.5	1372.7
85°	154.6	216.4	228.8	265.9	253.5	346.3	494.6	414.3	371.0	426.6	296.8
87.5°	37.1	61.8	61.8	68.0	55.6	86.6	92.7	68.0	61.8	74.2	74.2
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°	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1	7568.1
2.5°	7524.9	7506.3	7512.5	7407.4	7376.5	7345.5	7327.0	7314.6	7302.3	7320.8	7339.4
5°	7580.5	7537.2	7487.8	7333.2	7271.3	7203.3	7153.9	7110.6	7092.0	7092.0	7110.6
7.5°	7623.8	7549.6	7444.5	7240.4	7129.1	7036.4	6956.0	6900.4	6869.4	6869.4	6888.0
10°	7630.0	7524.9	7357.9	7110.6	6962.2	6826.2	6733.4	6671.6	6628.3	6628.3	6640.7
12.5°	7667.1	7524.9	7308.4	7011.7	6826.2	6659.2	6547.9	6455.2	6436.6	6436.6	6449.0
15°	7728.9	7555.8	7277.5	6925.1	6702.5	6510.8	6387.2	6288.2	6251.1	6275.9	6282.0
17.5°	7784.5	7574.3	7221.9	6813.8	6547.9	6337.7	6201.7	6115.1	6065.6	6121.3	6121.3
20°	7821.6	7574.3	7141.5	6671.6	6381.0	6146.0	6016.2	5911.1	5874.0	5942.0	5948.2
22.5°	7877.3	7568.1	7054.9	6529.4	6201.7	5954.3	5824.5	5744.1	5725.6	5799.8	5824.5
25°	7939.1	7580.5	6962.2	6368.6	6003.8	5762.7	5663.7	5626.6	5639.0	5731.7	5762.7
27.5°	8007.1	7605.2	6869.4	6189.3	5787.4	5571.0	5515.3	5533.9	5583.4	5700.8	5737.9
30°	8069.0	7611.4	6739.6	5979.1	5540.1	5336.0	5360.8	5441.1	5515.3	5632.8	5676.1
32.5°	8149.3	7617.6	6603.6	5750.3	5274.2	5125.8	5237.1	5366.9	5441.1	5552.4	5601.9
35°	8347.2	7722.7	6498.5	5527.7	5026.9	4946.5	5132.0	5298.9	5342.2	5441.1	5484.4
37.5°	8576.0	7895.8	6442.8	5298.9	4785.7	4767.2	5002.1	5169.1	5181.4	5243.3	5286.6
40°	8718.2	7970.0	6381.0	5107.3	4569.3	4581.7	4822.8	4952.7	4927.9	4971.2	5002.1
42.5°	8860.4	7994.8	6251.1	4946.5	4365.3	4377.6	4563.1	4655.9	4668.3	4761.0	4804.3
45°	9101.5	8062.8	6108.9	4798.1	4179.8	4136.5	4247.8	4371.5	4532.2	4711.5	4761.0
47.5°	9423.1	8205.0	5960.5	4618.8	4000.5	3858.3	3901.5	4118.0	4284.9	4451.8	4482.8
50°	9750.8	8347.2	5824.5	4402.4	3821.2	3561.5	3580.0	3777.9	3913.9	4043.8	4062.3
52.5°	10072.3	8470.9	5707.0	4198.3	3617.1	3209.0	3283.2	3487.3	3580.0	3641.9	3660.4
55°	10393.8	8576.0	5601.9	4025.2	3382.2	2930.8	2998.8	3190.5	3283.2	3314.1	3326.5
57.5°	10727.7	8699.6	5521.5	3876.8	3116.3	2683.5	2726.8	2862.8	2949.3	2986.4	2974.1
60°	11005.9	8804.8	5478.2	3722.2	2850.4	2454.7	2442.3	2566.0	2689.7	2726.8	2714.4
62.5°	11222.4	8872.8	5410.2	3524.4	2615.5	2225.9	2164.1	2324.9	2454.7	2479.4	2498.0
65°	11339.8	8879.0	5243.3	3270.9	2374.3	1978.6	1935.3	2096.1	2176.5	2201.2	2201.2
67.5°	11321.3	8780.0	4915.6	2930.8	2151.7	1756.0	1718.9	1817.8	1935.3	1953.9	1935.3
70°	10937.9	8371.9	4390.0	2572.2	1885.8	1558.1	1490.1	1589.1	1700.4	1632.3	1601.4
72.5°	9849.7	7314.6	3617.1	2176.5	1589.1	1310.8	1279.9	1378.8	1385.0	1397.4	1366.5
75°	7772.2	5447.3	2708.2	1694.2	1286.1	1100.6	1094.4	1075.9	1100.6	1150.1	1113.0
77.5°	4080.9	2720.6	1465.4	1038.8	933.7	884.2	840.9	834.7	908.9	939.8	902.7
80°	2213.6	1527.2	840.9	624.5	568.8	575.0	630.7	618.3	698.7	717.2	686.3
82.5°	964.6	723.4	414.3	377.2	377.2	371.0	389.5	432.8	519.4	519.4	414.3
85°	210.2	179.3	160.8	185.5	210.2	210.2	210.2	210.2	148.4	80.4	55.6
87.5°	68.0	68.0	68.0	74.2	80.4	80.4	68.0	49.5	30.9	6.2	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)