

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: P841654

Luminaire Tested: **ARCH4-210-722-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841654
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: ARCH4-210-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28411 lumens
Efficiency: N/A
Efficacy: 133.3 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): 213.1
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



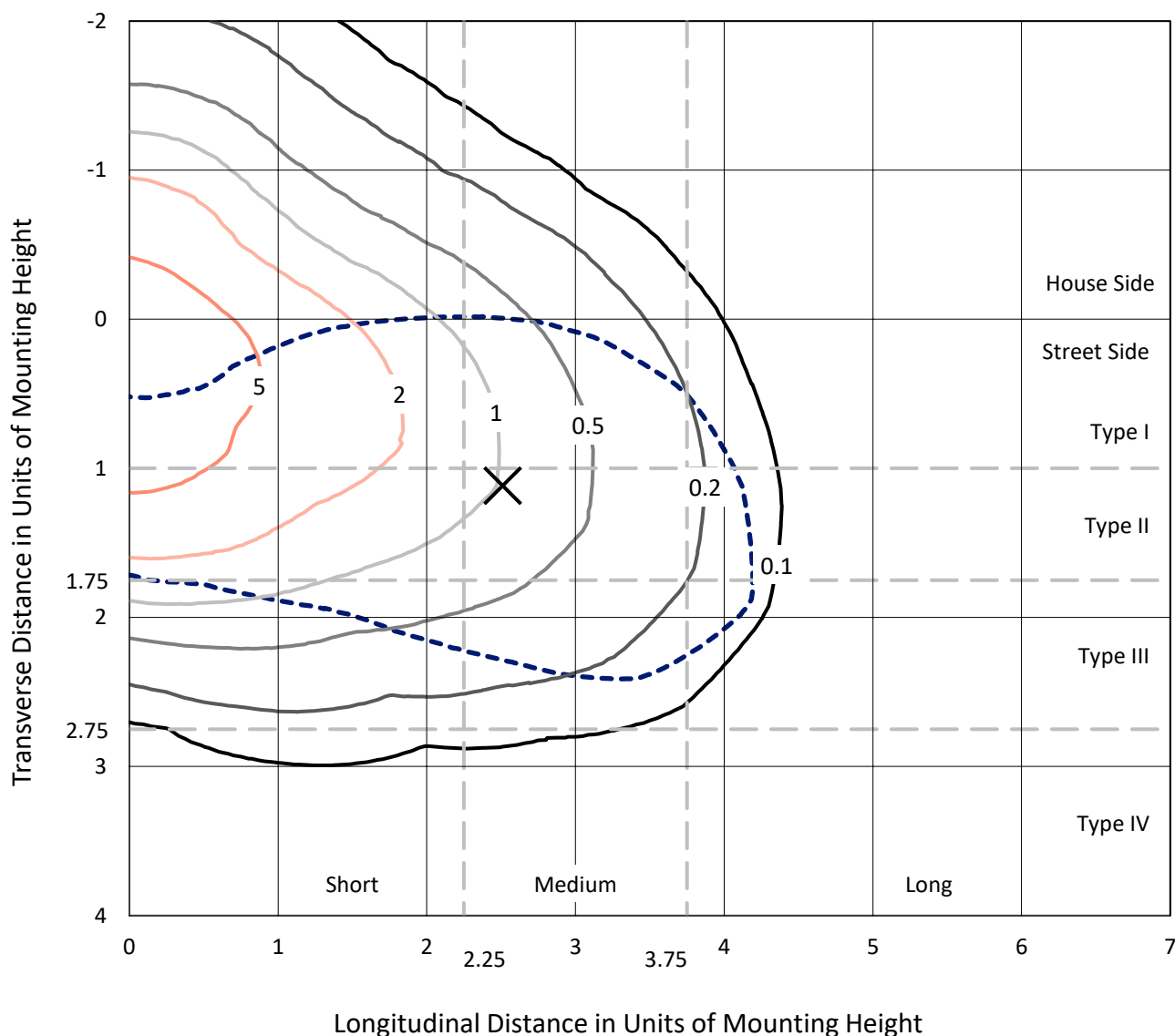
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

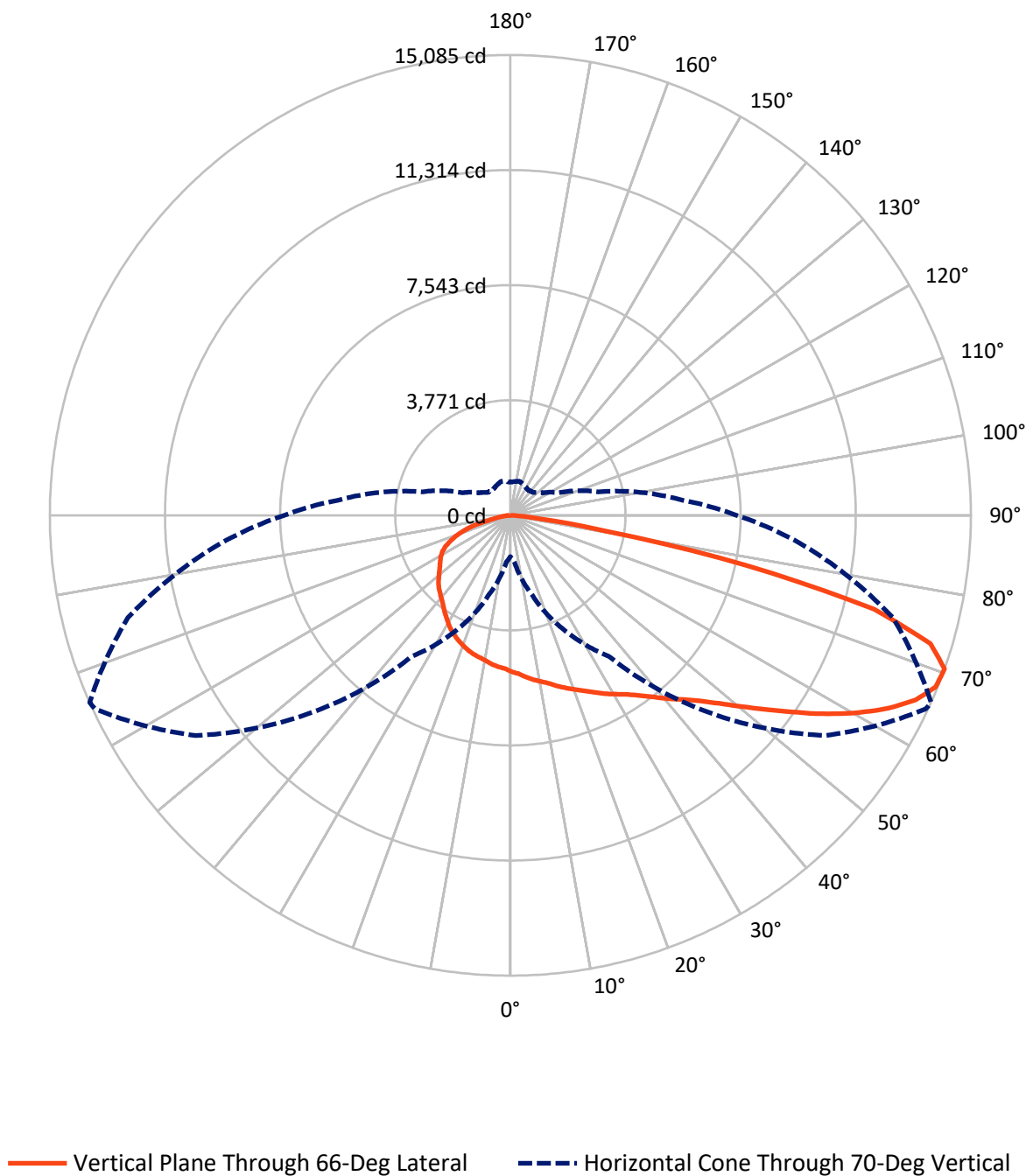
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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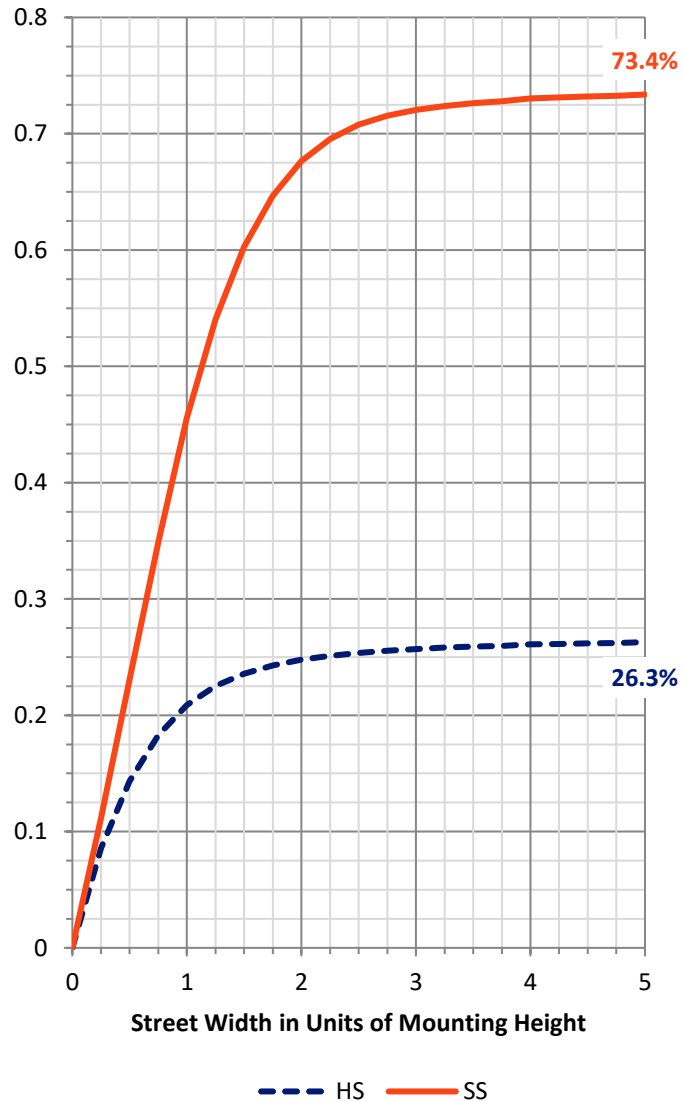
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7528.3	0.0	7528.3
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	20882.7	0.0	20882.7
	% Fixture	73.5	0.0	73.5
Total	Lumens	28411.0	0.0	28411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.7	1.7
10°-20°	1477.9	5.2
20°-30°	2477.5	8.7
30°-40°	3709.6	13.1
40°-50°	4959.8	17.5
50°-60°	5790.7	20.4
60°-70°	5758.0	20.3
70°-80°	3408.8	12.0
80°-90°	336.0	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°	28411.0	100.0
0°-180°	28411.0	100.0

Coefficient of Utilization



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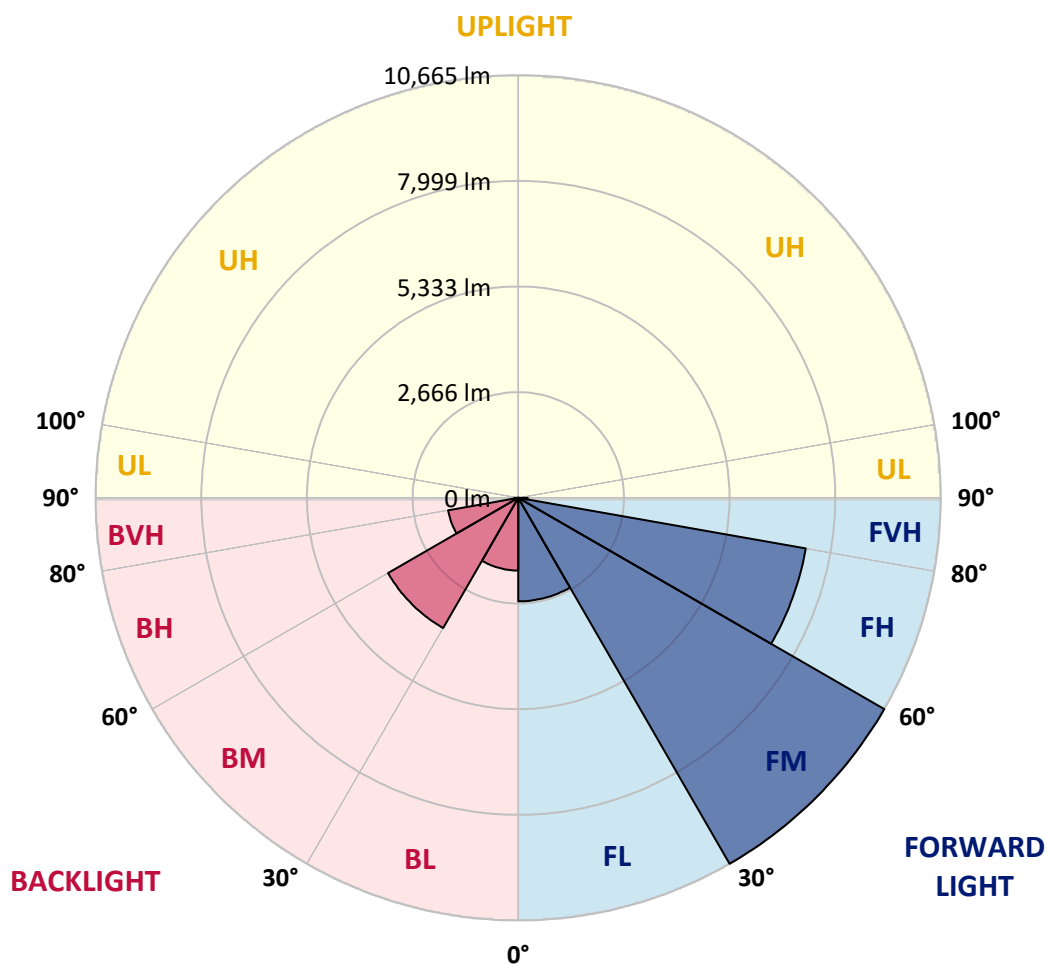
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2613.1	9.2			
FM	(30°-60°)	10665.1	37.5			
FH	(60°-80°)	7368.4	25.9			G3/7500
FVH	(80°-90°)	236.1	0.8			G3/500
BL	(0°-30°)	1835.1	6.5	B3/2500		
BM	(30°-60°)	3795.0	13.4	B3/5000		
BH	(60°-80°)	1798.3	6.3	B3/2500		G3/2500
BVH	(80°-90°)	99.9	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°	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5
2.5°	5316.1	5307.7	5303.5	5286.7	5249.0	5265.8	5228.1	5202.9	5198.8	5140.1	5106.6
5°	5533.9	5529.7	5521.3	5496.2	5437.5	5445.9	5383.1	5337.0	5324.4	5232.3	5161.1
7.5°	5718.2	5709.8	5705.6	5672.1	5609.3	5605.1	5529.7	5462.7	5441.7	5316.1	5207.1
10°	5860.6	5848.1	5856.5	5822.9	5755.9	5743.3	5647.0	5559.0	5538.1	5378.9	5228.1
12.5°	5982.1	5973.7	5986.3	5957.0	5902.5	5890.0	5793.6	5680.5	5655.4	5471.1	5274.2
15°	6116.2	6086.9	6112.0	6099.4	6061.7	6057.5	5969.6	5843.9	5810.4	5588.3	5345.4
17.5°	6187.4	6170.6	6200.0	6204.2	6187.4	6216.7	6132.9	5982.1	5952.8	5697.3	5408.2
20°	6237.7	6212.5	6246.0	6271.2	6283.7	6342.4	6275.4	6128.7	6095.2	5802.0	5466.9
22.5°	6409.4	6355.0	6359.2	6375.9	6384.3	6468.1	6426.2	6283.7	6250.2	5931.9	5538.1
25°	6840.9	6732.0	6660.8	6610.5	6551.9	6623.1	6597.9	6459.7	6430.4	6086.9	5626.0
27.5°	7511.2	7372.9	7230.5	7083.9	6853.5	6824.2	6782.3	6656.6	6623.1	6241.9	5714.0
30°	8273.6	8135.4	7967.8	7733.2	7301.7	7075.5	6979.1	6840.9	6803.2	6380.1	5797.8
32.5°	9031.8	8910.4	8742.8	8457.9	7842.1	7381.3	7176.0	7033.6	6995.9	6530.9	5898.3
35°	9622.5	9547.1	9438.2	9082.1	8378.3	7741.6	7460.9	7289.1	7247.3	6769.7	6082.7
37.5°	10100.1	10045.6	9953.5	9580.6	8767.9	8101.8	7787.7	7590.8	7544.7	7029.4	6279.6
40°	10803.9	10661.4	10586.0	10045.6	9107.2	8428.6	8156.3	7951.0	7900.8	7305.9	6438.7
42.5°	11402.9	11298.2	11206.0	10460.3	9429.8	8709.3	8504.0	8315.5	8248.5	7578.2	6610.5
45°	11503.4	11545.3	11499.3	10665.6	9940.9	8985.8	8855.9	8734.4	8671.6	7946.8	6870.2
47.5°	11507.6	11507.6	11235.3	10782.9	10573.5	9295.8	9232.9	9274.8	9207.8	8416.0	7180.2
50°	11206.0	11260.5	11118.0	10812.2	10741.0	9605.8	9693.7	9919.9	9852.9	8914.5	7515.4
52.5°	10581.8	10762.0	10757.8	10766.2	10498.0	9869.7	10179.7	10694.9	10581.8	9475.9	7871.4
55°	9480.1	9840.3	10162.9	10439.4	10288.6	10028.9	10774.5	11520.2	11402.9	10104.3	8231.7
57.5°	8537.5	8767.9	9170.1	9953.5	10041.4	10167.1	11331.7	12383.2	12278.4	10799.7	8608.7
60°	7460.9	7779.3	8181.4	9295.8	9739.8	10347.2	11943.3	13225.2	13124.7	11503.4	8973.2
62.5°	5806.2	6216.7	7021.0	8286.2	9299.9	10460.3	12425.1	13966.7	13920.6	12169.5	9299.9
65°	4046.7	4411.2	5538.1	7046.2	8600.4	10410.1	12810.5	14628.6	14586.7	12714.1	9530.4
67.5°	2362.7	2785.8	4059.3	5672.1	7364.6	10062.4	12936.1	15018.2	15018.2	13045.1	9593.2
70°	1348.9	1545.8	2676.9	4134.7	5647.0	9103.1	12584.3	15014.0	15085.2	12969.7	9333.5
72.5°	942.6	1030.5	1801.3	2781.6	3828.9	7364.6	11662.6	14289.2	14385.6	12257.5	8445.4
75°	733.1	795.9	1269.3	1897.7	2413.0	5001.9	9647.6	12048.0	12303.6	10447.8	6828.3
77.5°	557.2	603.2	741.5	1185.5	1545.8	2873.8	6367.5	7900.8	7917.5	6396.9	3661.3
80°	406.3	452.4	494.3	724.7	821.1	1344.7	2404.6	3301.1	3208.9	3095.8	1981.5
82.5°	243.0	289.1	301.6	393.8	402.2	573.9	842.0	1064.0	1022.2	1361.5	930.0
85°	104.7	146.6	155.0	180.1	171.8	234.6	335.1	280.7	251.3	289.1	201.1
87.5°	25.1	41.9	41.9	46.1	37.7	58.6	62.8	46.1	41.9	50.3	50.3
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°	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5	5127.5
2.5°	5098.2	5085.6	5089.8	5018.6	4997.7	4976.7	4964.2	4955.8	4947.4	4960.0	4972.5
5°	5135.9	5106.6	5073.1	4968.4	4926.5	4880.4	4846.9	4817.5	4805.0	4805.0	4817.5
7.5°	5165.2	5115.0	5043.8	4905.5	4830.1	4767.3	4712.8	4675.1	4654.2	4654.2	4666.7
10°	5169.4	5098.2	4985.1	4817.5	4717.0	4624.8	4562.0	4520.1	4490.8	4490.8	4499.2
12.5°	5194.6	5098.2	4951.6	4750.5	4624.8	4511.7	4436.3	4373.5	4360.9	4360.9	4369.3
15°	5236.5	5119.2	4930.6	4691.9	4541.1	4411.2	4327.4	4260.4	4235.2	4252.0	4256.2
17.5°	5274.2	5131.7	4892.9	4616.5	4436.3	4293.9	4201.7	4143.1	4109.6	4147.3	4147.3
20°	5299.3	5131.7	4838.5	4520.1	4323.2	4164.0	4076.1	4004.8	3979.7	4025.8	4030.0
22.5°	5337.0	5127.5	4779.8	4423.8	4201.7	4034.2	3946.2	3891.7	3879.2	3929.4	3946.2
25°	5378.9	5135.9	4717.0	4314.8	4067.7	3904.3	3837.3	3812.1	3820.5	3883.4	3904.3
27.5°	5425.0	5152.7	4654.2	4193.4	3921.1	3774.4	3736.7	3749.3	3782.8	3862.4	3887.5
30°	5466.9	5156.9	4566.2	4050.9	3753.5	3615.2	3632.0	3686.5	3736.7	3816.3	3845.7
32.5°	5521.3	5161.1	4474.0	3895.9	3573.4	3472.8	3548.2	3636.2	3686.5	3761.9	3795.4
35°	5655.4	5232.3	4402.8	3745.1	3405.8	3351.3	3477.0	3590.1	3619.4	3686.5	3715.8
37.5°	5810.4	5349.6	4365.1	3590.1	3242.4	3229.8	3389.0	3502.1	3510.5	3552.4	3581.7
40°	5906.7	5399.8	4323.2	3460.3	3095.8	3104.2	3267.5	3355.5	3338.8	3368.1	3389.0
42.5°	6003.1	5416.6	4235.2	3351.3	2957.6	2965.9	3091.6	3154.4	3162.8	3225.7	3255.0
45°	6166.5	5462.7	4138.9	3250.8	2831.9	2802.6	2878.0	2961.7	3070.7	3192.1	3225.7
47.5°	6384.3	5559.0	4038.4	3129.3	2710.4	2614.0	2643.4	2790.0	2903.1	3016.2	3037.1
50°	6606.3	5655.4	3946.2	2982.7	2588.9	2413.0	2425.5	2559.6	2651.7	2739.7	2752.3
52.5°	6824.2	5739.2	3866.6	2844.4	2450.7	2174.2	2224.4	2362.7	2425.5	2467.4	2480.0
55°	7042.0	5810.4	3795.4	2727.1	2291.5	1985.7	2031.7	2161.6	2224.4	2245.4	2253.8
57.5°	7268.2	5894.2	3740.9	2626.6	2111.3	1818.1	1847.4	1939.6	1998.2	2023.4	2015.0
60°	7456.7	5965.4	3711.6	2521.9	1931.2	1663.1	1654.7	1738.5	1822.3	1847.4	1839.0
62.5°	7603.3	6011.5	3665.5	2387.8	1772.0	1508.1	1466.2	1575.1	1663.1	1679.9	1692.4
65°	7682.9	6015.6	3552.4	2216.1	1608.6	1340.5	1311.2	1420.1	1474.6	1491.3	1491.3
67.5°	7670.4	5948.6	3330.4	1985.7	1457.8	1189.7	1164.6	1231.6	1311.2	1323.8	1311.2
70°	7410.6	5672.1	2974.3	1742.7	1277.7	1055.7	1009.6	1076.6	1152.0	1105.9	1085.0
72.5°	6673.3	4955.8	2450.7	1474.6	1076.6	888.1	867.2	934.2	938.4	946.8	925.8
75°	5265.8	3690.7	1834.9	1147.8	871.3	745.7	741.5	728.9	745.7	779.2	754.0
77.5°	2764.8	1843.2	992.8	703.8	632.6	599.1	569.7	565.5	615.8	636.8	611.6
80°	1499.7	1034.7	569.7	423.1	385.4	389.6	427.3	418.9	473.4	485.9	465.0
82.5°	653.5	490.1	280.7	255.5	255.5	251.3	263.9	293.2	351.9	351.9	280.7
85°	142.4	121.5	108.9	125.7	142.4	142.4	142.4	142.4	100.5	54.5	37.7
87.5°	46.1	46.1	46.1	50.3	54.5	54.5	46.1	33.5	20.9	4.2	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)