

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: P842264

Luminaire Tested: **ARCH4-290-740-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842264
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: ARCH4-290-740-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1120mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43138 lumens
Efficiency: N/A
Efficacy: 148.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 289.7
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

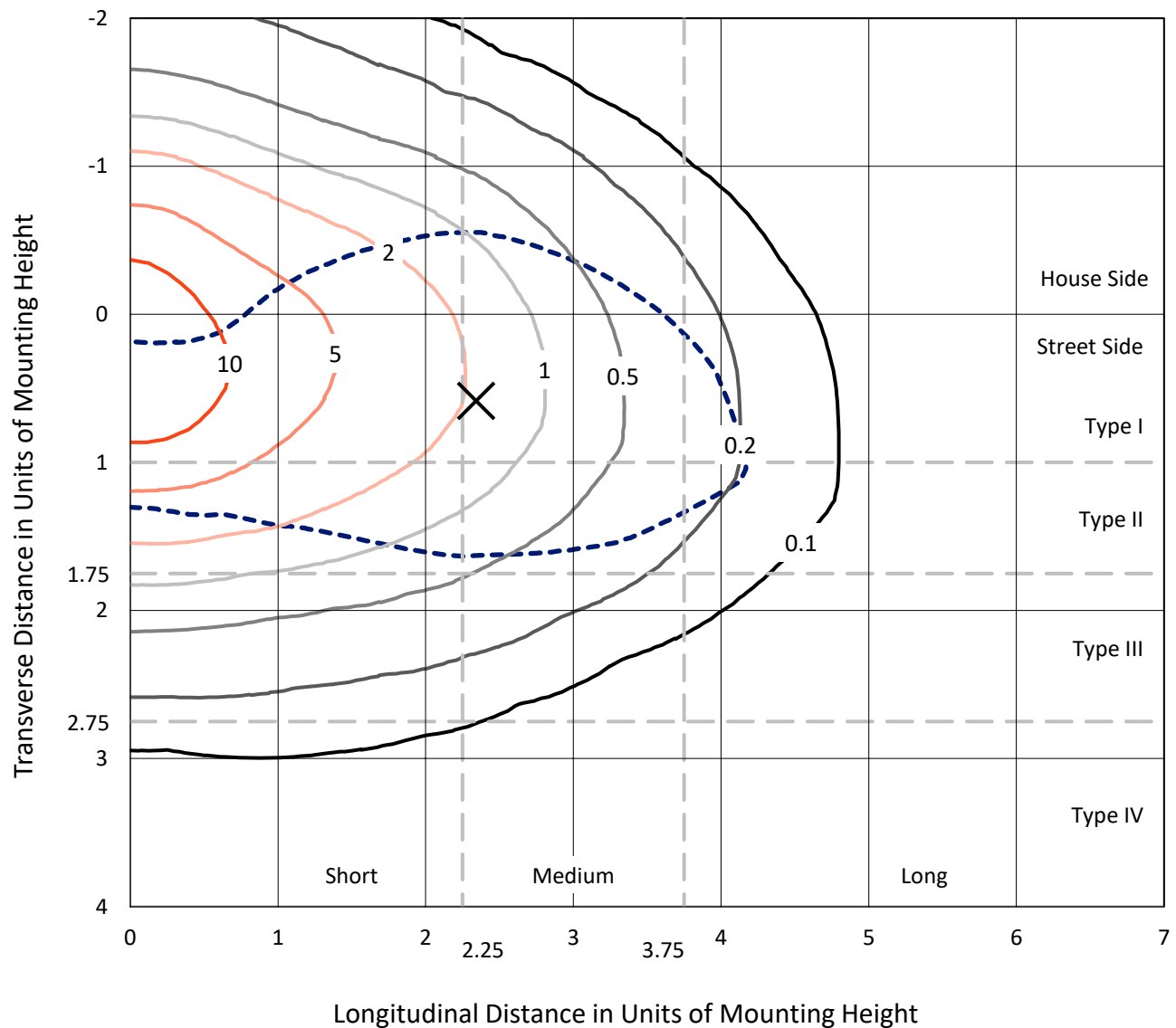


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Iso-Footcandle Lines of Horizontal Illumination

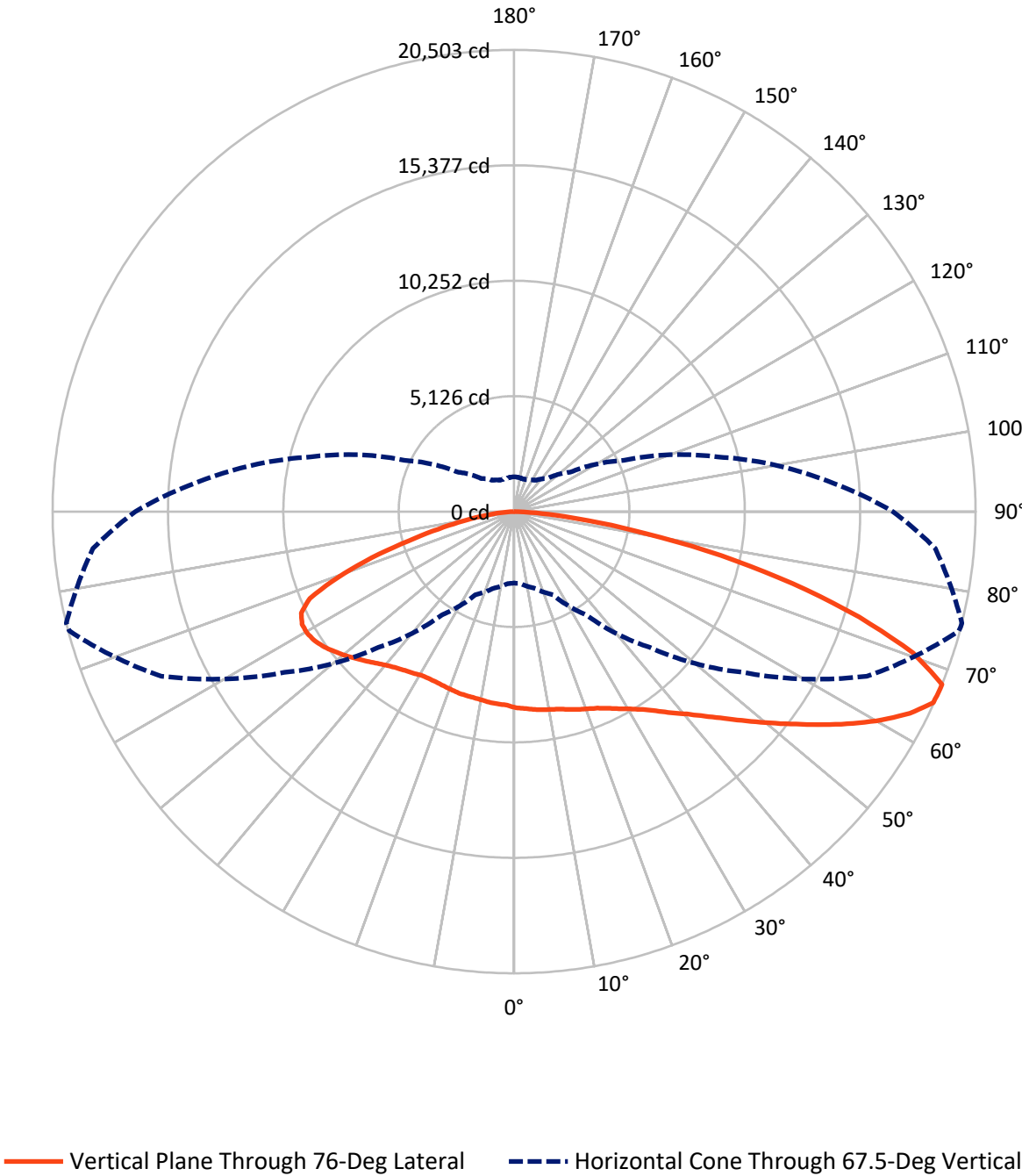
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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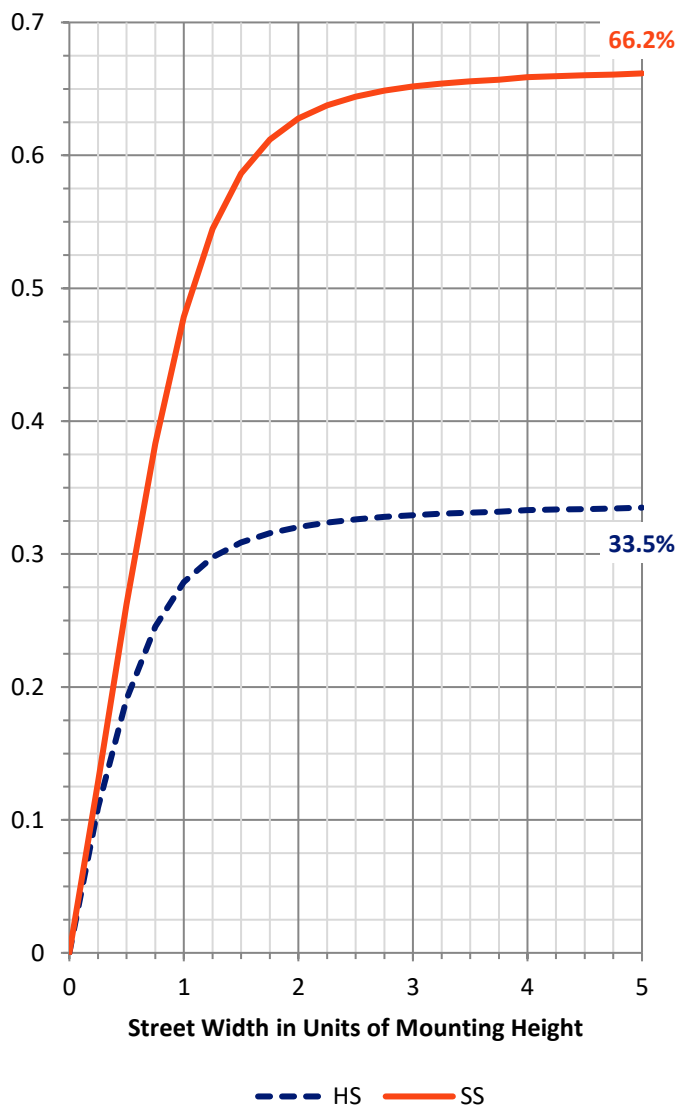
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14576.5	0.0	14576.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	28561.5	0.0	28561.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	43138.0	0.0	43138.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	840.2	1.9
10°-20°	2568.8	6.0
20°-30°	4364.5	10.1
30°-40°	6210.1	14.4
40°-50°	7843.0	18.2
50°-60°	8491.6	19.7
60°-70°	7898.1	18.3
70°-80°	4242.0	9.8
80°-90°	679.7	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°	43138.0	100.0
0°-180°	43138.0	100.0

Coefficient of Utilization



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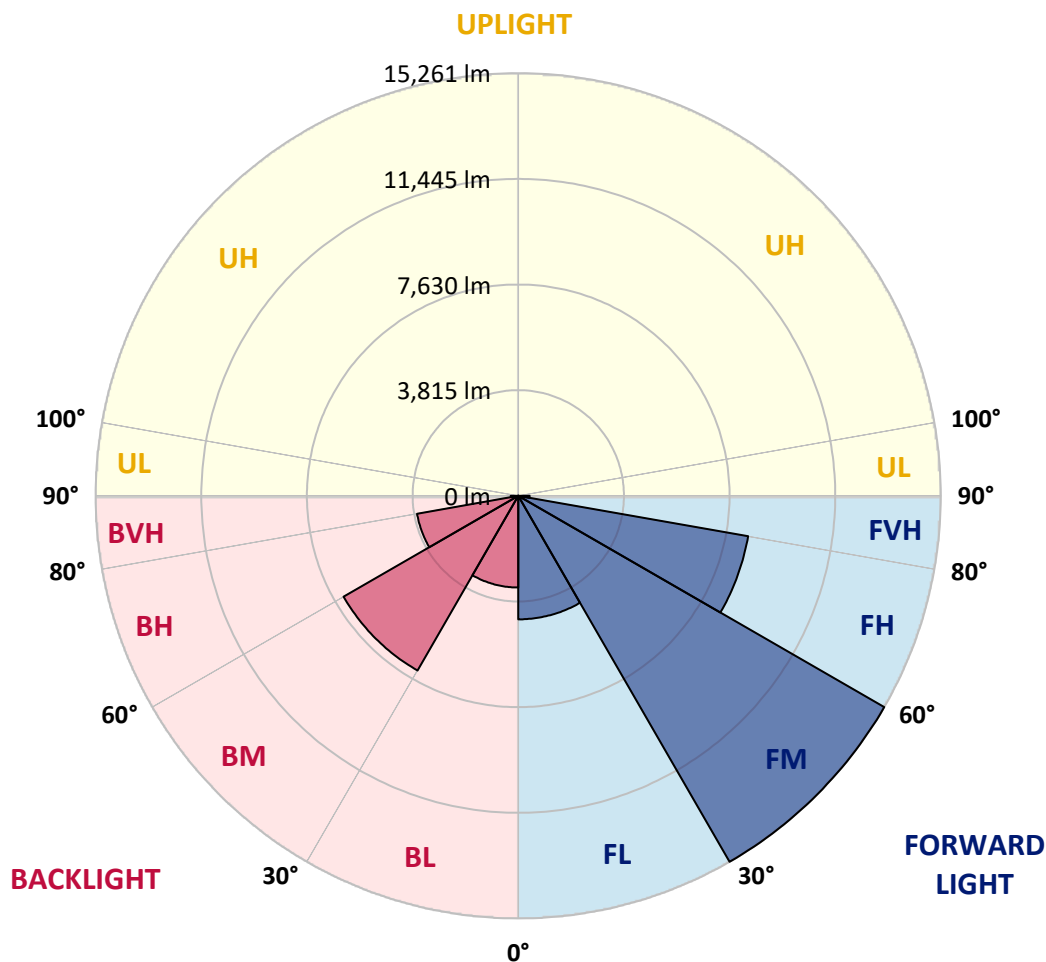
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4460.9	10.3			
FM	(30°-60°)	15260.6	35.4			
FH	(60°-80°)	8428.8	19.5			G4/12000
FVH	(80°-90°)	411.2	1.0			G3/500
BL	(0°-30°)	3312.6	7.7	B4/5000		
BM	(30°-60°)	7284.1	16.9	B4/8500		
BH	(60°-80°)	3711.3	8.6	B4/5000		G4/5000
BVH	(80°-90°)	268.5	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8
2.5°	8978.1	8962.1	8898.0	8906.0	8906.0	8898.0	8801.9	8761.8	8761.8	8753.8	8665.7
5°	9298.4	9274.4	9202.3	9186.3	9154.3	9114.2	8962.1	8874.0	8833.9	8825.9	8705.8
7.5°	9674.9	9642.8	9554.7	9506.7	9426.6	9322.5	9130.2	8994.1	8898.0	8890.0	8721.8
10°	10051.3	10019.2	9915.1	9827.0	9714.9	9546.7	9298.4	9098.2	8946.0	8930.0	8729.8
12.5°	10499.8	10467.7	10339.6	10227.5	10059.3	9835.0	9506.7	9234.4	9026.1	9002.1	8753.8
15°	10972.3	10924.3	10796.1	10668.0	10459.7	10171.4	9779.0	9418.6	9154.3	9114.2	8825.9
17.5°	11364.8	11300.7	11196.6	11068.4	10836.2	10499.8	10051.3	9602.8	9274.4	9242.4	8898.0
20°	11701.1	11653.1	11541.0	11420.8	11172.5	10804.1	10307.6	9787.0	9386.5	9346.5	8954.1
22.5°	12021.5	11957.4	11893.3	11805.3	11532.9	11124.5	10603.9	10011.2	9530.7	9482.6	9026.1
25°	12389.9	12317.8	12293.8	12245.7	11925.4	11508.9	10964.3	10291.6	9730.9	9674.9	9154.3
27.5°	12846.4	12766.3	12718.3	12718.3	12333.8	11901.4	11348.7	10619.9	9963.2	9915.1	9314.5
30°	13327.0	13230.9	13158.8	13158.8	12726.3	12293.8	11725.2	10948.3	10227.5	10171.4	9522.7
32.5°	13751.4	13655.3	13575.2	13567.2	13118.7	12686.2	12117.6	11308.7	10547.8	10475.8	9779.0
35°	14079.8	13991.7	13919.6	13935.6	13511.2	13086.7	12558.1	11789.2	10948.3	10868.2	10115.4
37.5°	14280.0	14248.0	14207.9	14264.0	13871.6	13471.1	13014.6	12253.8	11404.8	11332.7	10531.8
40°	14384.1	14360.1	14520.3	14592.4	14175.9	13815.5	13471.1	12734.3	11901.4	11821.3	11012.4
42.5°	14536.3	14736.5	14800.6	14784.6	14400.2	14079.8	13887.6	13254.9	12486.0	12413.9	11589.0
45°	13991.7	13943.7	14296.0	14488.3	14416.2	14248.0	14280.0	13879.6	13166.8	13094.7	12253.8
47.5°	13262.9	13198.8	13399.0	13871.6	14151.9	14312.1	14632.4	14528.3	13951.7	13887.6	13030.6
50°	11725.2	11813.3	12558.1	13190.8	13743.4	14296.0	14928.8	15225.1	14816.6	14752.6	13863.6
52.5°	10019.2	10107.3	10884.2	12341.9	13246.9	14175.9	15145.0	15921.9	15753.7	15681.6	14752.6
55°	8777.9	8970.1	9851.1	10908.2	12542.1	13799.5	15273.1	16634.7	16762.8	16698.7	15721.6
57.5°	7544.5	7688.6	8353.4	9290.4	11581.0	13142.8	15265.1	17299.4	17820.0	17755.9	16706.8
60°	6094.8	6279.0	6807.6	7816.8	10299.6	12357.9	15040.9	17820.0	18837.1	18789.1	17659.8
62.5°	5101.7	5157.8	5534.2	6407.2	8649.7	11364.8	14536.3	18100.3	19758.2	19726.1	18516.8
65°	4108.6	4116.6	4461.0	5189.8	7055.9	10131.4	13679.4	17996.2	20455.0	20471.0	19133.5
67.5°	3171.6	3211.6	3524.0	4076.6	5606.3	8529.6	12454.0	17291.4	20463.0	20503.0	18781.1
70°	2194.5	2226.5	2699.0	3235.6	4332.9	6799.6	10796.1	15425.3	18781.1	18813.1	16834.9
72.5°	1545.7	1561.8	2066.3	2586.9	3387.8	5125.8	8145.1	12758.3	16010.0	16034.0	14159.9
75°	1153.3	1169.3	1457.6	1962.2	2594.9	3548.0	5566.2	9771.0	12790.4	12790.4	11180.5
77.5°	816.9	824.9	945.1	1353.5	1729.9	2394.7	3347.8	6399.2	9386.5	9402.6	8145.1
80°	552.6	560.6	616.7	913.0	1081.2	1297.5	1818.0	3355.8	5918.6	5942.7	5173.8
82.5°	288.3	304.3	344.4	464.5	544.6	720.8	937.1	1705.9	3275.7	3339.7	3107.5
85°	112.1	112.1	128.1	152.2	200.2	280.3	432.5	648.7	1481.7	1529.7	1369.5
87.5°	40.0	40.0	48.1	48.1	56.1	64.1	72.1	96.1	168.2	168.2	160.2
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°	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8	8713.8
2.5°	8633.7	8633.7	8593.6	8609.7	8601.7	8585.6	8569.6	8593.6	8569.6	8513.6	8505.5
5°	8649.7	8633.7	8569.6	8561.6	8537.6	8505.5	8465.5	8481.5	8441.5	8393.4	8385.4
7.5°	8657.7	8625.7	8537.6	8505.5	8457.5	8393.4	8329.3	8329.3	8273.3	8225.2	8217.2
10°	8641.7	8601.7	8481.5	8417.4	8329.3	8233.2	8145.1	8121.1	8057.0	8001.0	8001.0
12.5°	8649.7	8593.6	8441.5	8337.4	8217.2	8097.1	7985.0	7952.9	7896.9	7840.8	7832.8
15°	8697.8	8617.7	8425.5	8289.3	8113.1	7977.0	7856.8	7832.8	7784.7	7744.7	7744.7
17.5°	8745.8	8641.7	8401.4	8209.2	7993.0	7840.8	7728.7	7728.7	7696.6	7672.6	7672.6
20°	8769.8	8649.7	8353.4	8097.1	7848.8	7688.6	7584.5	7600.5	7592.5	7584.5	7584.5
22.5°	8825.9	8665.7	8313.3	7993.0	7696.6	7528.5	7432.3	7456.4	7448.4	7448.4	7456.4
25°	8914.0	8705.8	8281.3	7896.9	7552.5	7368.3	7264.2	7280.2	7280.2	7280.2	7280.2
27.5°	9034.1	8785.9	8273.3	7808.8	7408.3	7200.1	7071.9	7071.9	7039.9	7047.9	7055.9
30°	9218.3	8938.0	8289.3	7728.7	7256.1	6991.8	6839.7	6815.7	6807.6	6823.7	6831.7
32.5°	9442.6	9146.3	8385.4	7672.6	7096.0	6759.6	6567.4	6559.4	6535.3	6535.3	6535.3
35°	9722.9	9346.5	8473.5	7664.6	6935.8	6511.3	6303.1	6279.0	6223.0	6199.0	6199.0
37.5°	10083.3	9658.8	8577.6	7608.5	6799.6	6271.0	6022.8	5942.7	5878.6	5870.6	5870.6
40°	10523.8	10011.2	8729.8	7544.5	6655.5	6022.8	5694.4	5558.2	5566.2	5598.3	5598.3
42.5°	11044.4	10443.7	8922.0	7512.4	6447.2	5766.5	5310.0	5149.8	5205.8	5237.9	5245.9
45°	11653.1	10956.3	9138.3	7472.4	6255.0	5478.1	4901.5	4701.3	4725.3	4733.3	4741.3
47.5°	12357.9	11524.9	9362.5	7440.4	6038.8	5117.7	4453.0	4188.7	4180.7	4132.6	4148.7
50°	13094.7	12125.6	9594.8	7384.3	5774.5	4693.3	3980.5	3668.1	3604.0	3532.0	3540.0
52.5°	13879.6	12742.3	9811.0	7296.2	5446.1	4260.8	3532.0	3195.6	3067.4	2987.4	3003.4
55°	14744.5	13375.0	10019.2	7160.0	5101.7	3828.3	3131.5	2787.1	2626.9	2562.9	2570.9
57.5°	15537.4	13983.7	10171.4	6991.8	4725.3	3435.9	2779.1	2442.7	2338.6	2330.6	2338.6
60°	16306.3	14496.3	10235.5	6759.6	4340.9	3075.5	2450.8	2194.5	2122.4	2162.4	2170.4
62.5°	16955.0	14824.6	10203.5	6447.2	3948.4	2731.1	2186.5	2002.2	1954.2	2034.3	2042.3
65°	17331.5	14928.8	9979.2	5998.7	3524.0	2394.7	1938.2	1738.0	1713.9	1762.0	1786.0
67.5°	16834.9	14280.0	9370.5	5382.0	3051.4	2082.3	1697.9	1537.7	1497.7	1537.7	1537.7
70°	14920.7	12373.9	7928.9	4404.9	2530.8	1778.0	1473.7	1361.5	1329.5	1361.5	1353.5
72.5°	12430.0	10291.6	6247.0	3435.9	1994.2	1497.7	1281.4	1177.3	1145.3	1113.2	1097.2
75°	9642.8	7816.8	4533.1	2522.8	1505.7	1201.3	1073.2	977.1	897.0	929.0	913.0
77.5°	7063.9	5486.2	3211.6	1746.0	1081.2	929.0	840.9	768.9	712.8	776.9	768.9
80°	4549.1	3548.0	2146.4	1169.3	744.8	648.7	616.7	576.6	632.7	824.9	840.9
82.5°	2779.1	2250.5	1281.4	760.9	488.5	432.5	400.4	400.4	648.7	712.8	720.8
85°	1241.4	1193.3	696.8	392.4	272.3	248.3	224.3	288.3	264.3	192.2	200.2
87.5°	200.2	208.2	152.2	136.2	104.1	104.1	80.1	56.1	40.0	24.0	24.0
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)