

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: P841436

Luminaire Tested: **ARCH4-180-722-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841436
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: ARCH4-180-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1455mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25059 lumens
Efficiency: N/A
Efficacy: 139.2 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): 180
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



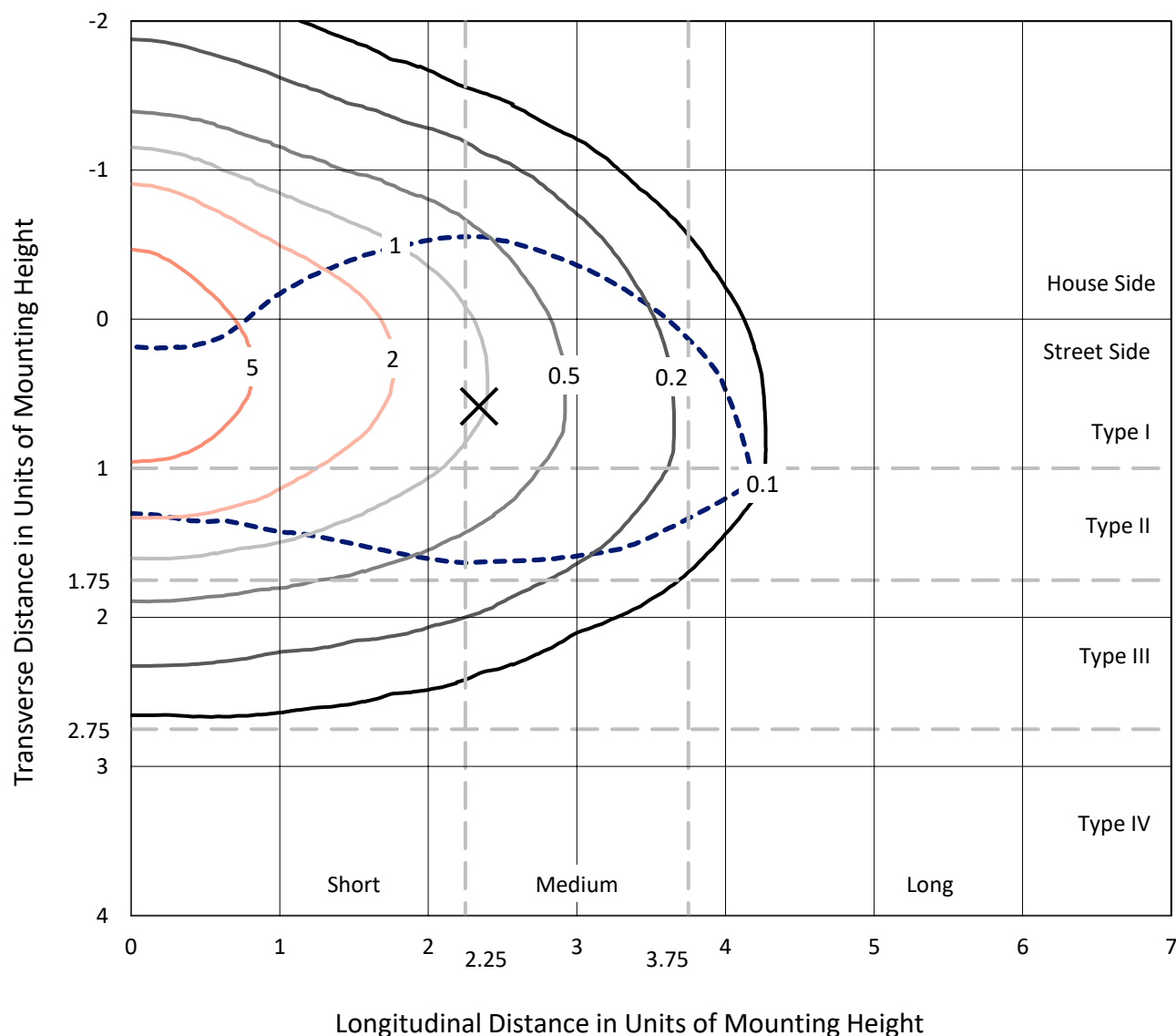
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

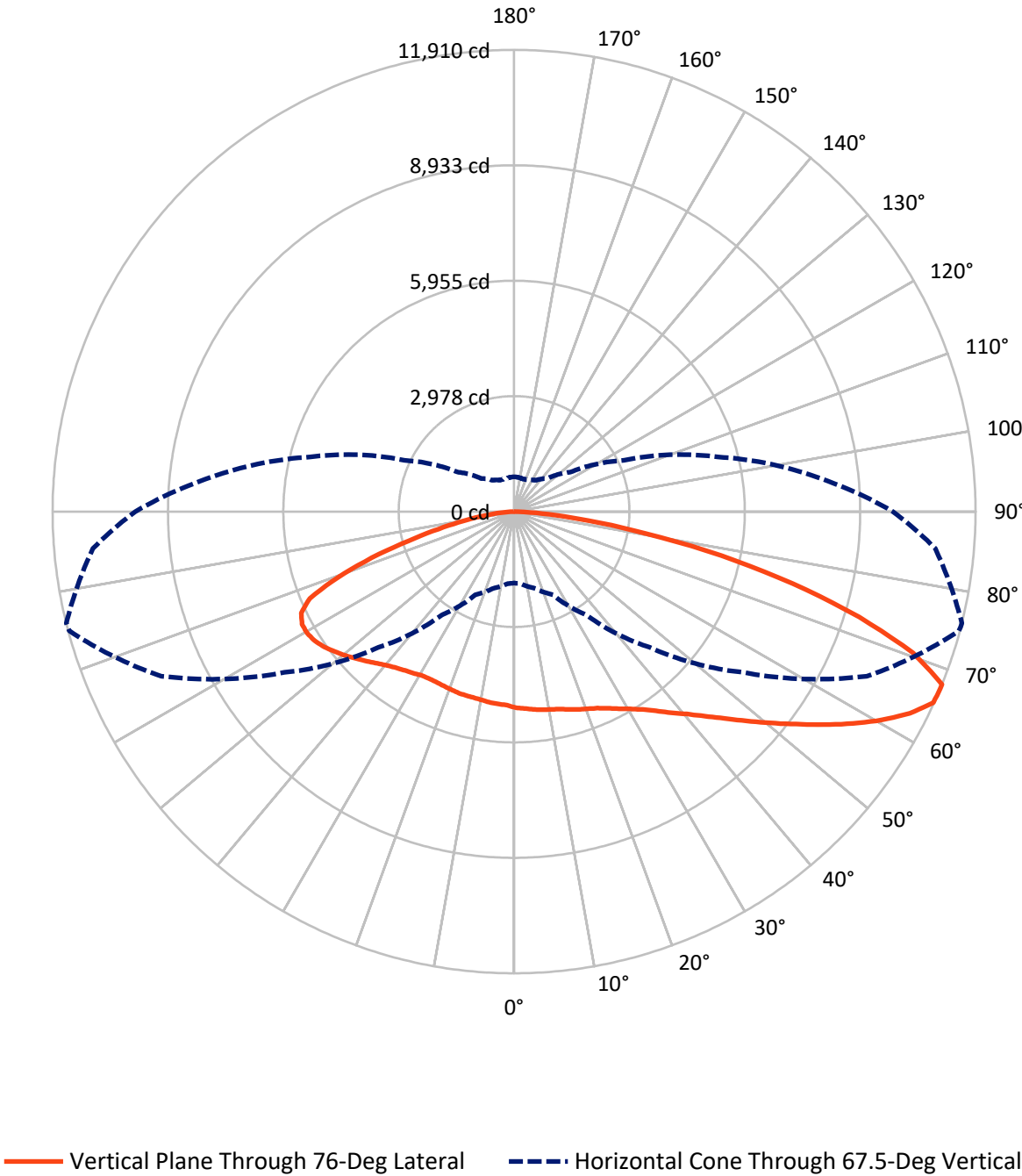
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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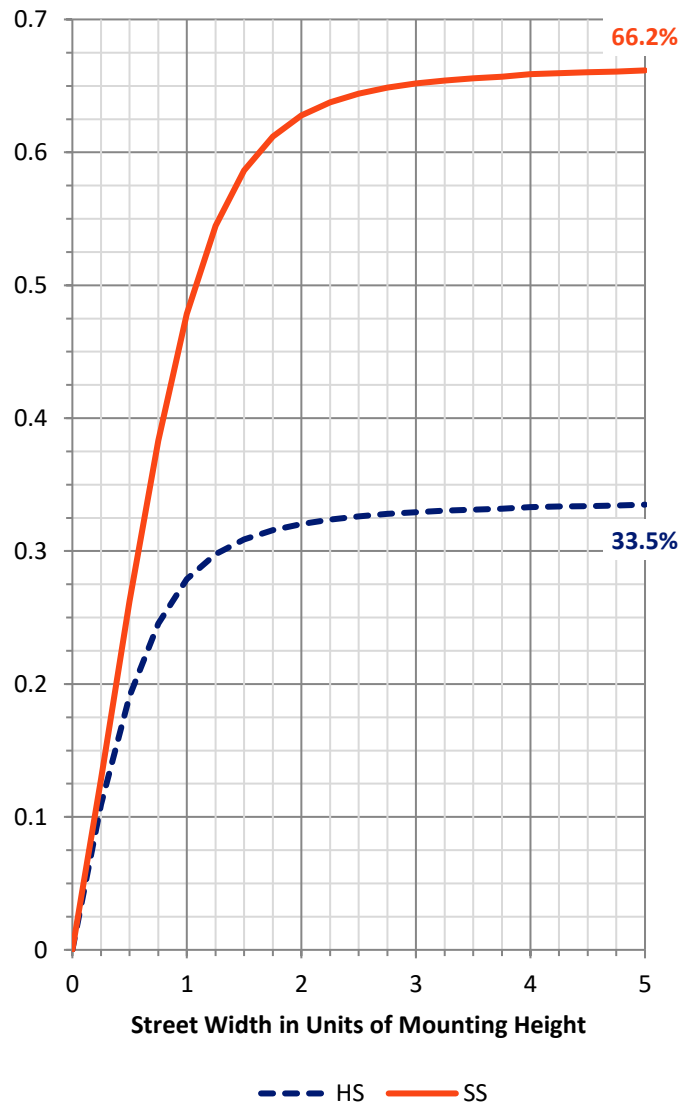
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8467.6	0.0	8467.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	16591.4	0.0	16591.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	25059.0	0.0	25059.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.1	1.9
10°-20°	1492.2	6.0
20°-30°	2535.3	10.1
30°-40°	3607.4	14.4
40°-50°	4556.0	18.2
50°-60°	4932.8	19.7
60°-70°	4588.0	18.3
70°-80°	2464.2	9.8
80°-90°	394.9	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°	25059.0	100.0
0°-180°	25059.0	100.0

Coefficient of Utilization



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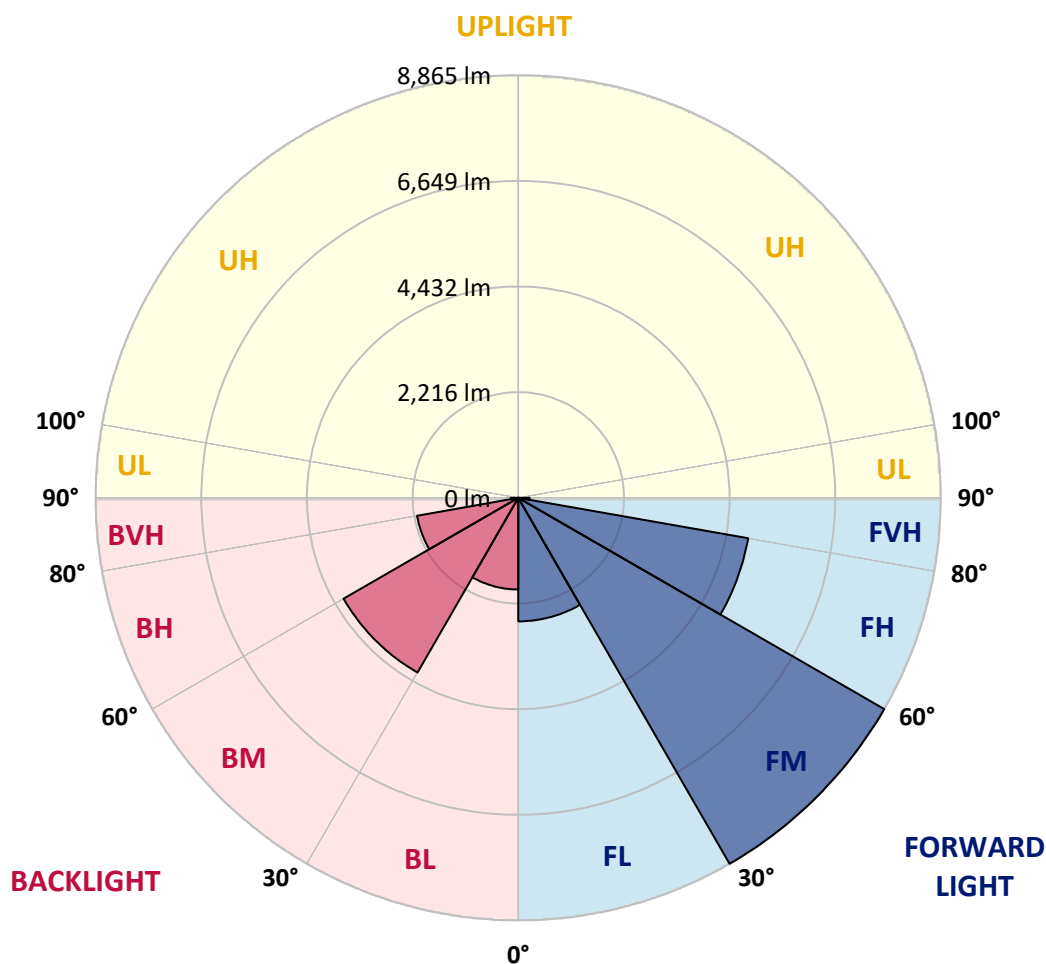
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2591.4	10.3			
FM	(30°-60°)	8864.9	35.4			
FH	(60°-80°)	4896.3	19.5			G2/5000
FVH	(80°-90°)	238.9	1.0			G3/500
BL	(0°-30°)	1924.3	7.7	B3/2500		
BM	(30°-60°)	4231.4	16.9	B3/5000		
BH	(60°-80°)	2155.9	8.6	B3/2500		G3/2500
BVH	(80°-90°)	156.0	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°	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9
2.5°	5215.4	5206.1	5168.9	5173.5	5173.5	5168.9	5113.0	5089.8	5089.8	5085.1	5033.9
5°	5401.5	5387.5	5345.7	5336.4	5317.7	5294.5	5206.1	5154.9	5131.6	5127.0	5057.2
7.5°	5620.2	5601.5	5550.4	5522.5	5475.9	5415.4	5303.8	5224.7	5168.9	5164.2	5066.5
10°	5838.8	5820.2	5759.7	5708.6	5643.4	5545.7	5401.5	5285.2	5196.8	5187.5	5071.2
12.5°	6099.4	6080.7	6006.3	5941.2	5843.5	5713.2	5522.5	5364.3	5243.3	5229.4	5085.1
15°	6373.9	6345.9	6271.5	6197.1	6076.1	5908.6	5680.6	5471.3	5317.7	5294.5	5127.0
17.5°	6601.8	6564.6	6504.1	6429.7	6294.8	6099.4	5838.8	5578.3	5387.5	5368.9	5168.9
20°	6797.2	6769.3	6704.2	6634.4	6490.2	6276.2	5987.7	5685.3	5452.7	5429.4	5201.4
22.5°	6983.3	6946.1	6908.9	6857.7	6699.5	6462.2	6159.8	5815.6	5536.4	5508.5	5243.3
25°	7197.3	7155.5	7141.5	7113.6	6927.5	6685.6	6369.2	5978.4	5652.7	5620.2	5317.7
27.5°	7462.5	7416.0	7388.1	7388.1	7164.8	6913.5	6592.5	6169.1	5787.6	5759.7	5410.8
30°	7741.7	7685.8	7644.0	7644.0	7392.7	7141.5	6811.2	6359.9	5941.2	5908.6	5531.8
32.5°	7988.3	7932.4	7885.9	7881.2	7620.7	7369.5	7039.2	6569.3	6127.3	6085.4	5680.6
35°	8179.0	8127.8	8086.0	8095.3	7848.7	7602.1	7295.0	6848.4	6359.9	6313.4	5876.0
37.5°	8295.3	8276.7	8253.4	8286.0	8058.0	7825.4	7560.2	7118.2	6625.1	6583.2	6118.0
40°	8355.8	8341.8	8434.9	8476.8	8234.8	8025.5	7825.4	7397.4	6913.5	6867.0	6397.1
42.5°	8444.2	8560.5	8597.7	8588.4	8365.1	8179.0	8067.3	7699.8	7253.2	7211.3	6732.1
45°	8127.8	8099.9	8304.6	8416.3	8374.4	8276.7	8295.3	8062.7	7648.6	7606.8	7118.2
47.5°	7704.5	7667.2	7783.5	8058.0	8220.9	8313.9	8500.0	8439.5	8104.6	8067.3	7569.5
50°	6811.2	6862.4	7295.0	7662.6	7983.6	8304.6	8672.2	8844.3	8607.0	8569.8	8053.4
52.5°	5820.2	5871.4	6322.7	7169.4	7695.1	8234.8	8797.8	9249.1	9151.4	9109.5	8569.8
55°	5099.1	5210.7	5722.5	6336.6	7285.7	8016.2	8872.2	9663.1	9737.6	9700.4	9132.8
57.5°	4382.6	4466.3	4852.5	5396.8	6727.4	7634.7	8867.6	10049.3	10351.7	10314.5	9705.0
60°	3540.5	3647.5	3954.6	4540.8	5983.0	7178.7	8737.3	10351.7	10942.6	10914.6	10258.6
62.5°	2963.6	2996.2	3214.8	3722.0	5024.6	6601.8	8444.2	10514.5	11477.6	11459.0	10756.5
65°	2386.7	2391.4	2591.4	3014.8	4098.8	5885.3	7946.4	10454.0	11882.4	11891.7	11114.7
67.5°	1842.4	1865.6	2047.1	2368.1	3256.7	4954.9	7234.6	10044.6	11887.0	11910.3	10910.0
70°	1274.8	1293.4	1567.9	1879.6	2517.0	3949.9	6271.5	8960.6	10910.0	10928.6	9779.4
72.5°	897.9	907.2	1200.3	1502.7	1968.0	2977.6	4731.5	7411.3	9300.2	9314.2	8225.5
75°	670.0	679.3	846.7	1139.8	1507.4	2061.0	3233.5	5676.0	7430.0	7430.0	6494.8
77.5°	474.5	479.2	549.0	786.3	1004.9	1391.1	1944.7	3717.3	5452.7	5462.0	4731.5
80°	321.0	325.7	358.2	530.4	628.1	753.7	1056.1	1949.4	3438.2	3452.1	3005.5
82.5°	167.5	176.8	200.1	269.8	316.4	418.7	544.3	991.0	1902.9	1940.1	1805.1
85°	65.1	65.1	74.4	88.4	116.3	162.8	251.2	376.8	860.7	888.6	795.6
87.5°	23.3	23.3	27.9	27.9	32.6	37.2	41.9	55.8	97.7	97.7	93.0
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°	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9	5061.9
2.5°	5015.3	5015.3	4992.1	5001.4	4996.7	4987.4	4978.1	4992.1	4978.1	4945.6	4940.9
5°	5024.6	5015.3	4978.1	4973.5	4959.5	4940.9	4917.6	4926.9	4903.7	4875.8	4871.1
7.5°	5029.3	5010.7	4959.5	4940.9	4913.0	4875.8	4838.5	4838.5	4806.0	4778.1	4773.4
10°	5020.0	4996.7	4926.9	4889.7	4838.5	4782.7	4731.5	4717.6	4680.4	4647.8	4647.8
12.5°	5024.6	4992.1	4903.7	4843.2	4773.4	4703.6	4638.5	4619.9	4587.3	4554.7	4550.1
15°	5052.6	5006.0	4894.4	4815.3	4712.9	4633.8	4564.1	4550.1	4522.2	4498.9	4498.9
17.5°	5080.5	5020.0	4880.4	4768.8	4643.1	4554.7	4489.6	4489.6	4471.0	4457.0	4457.0
20°	5094.4	5024.6	4852.5	4703.6	4559.4	4466.3	4405.9	4415.2	4410.5	4405.9	4405.9
22.5°	5127.0	5033.9	4829.2	4643.1	4471.0	4373.3	4317.5	4331.4	4326.8	4326.8	4331.4
25°	5178.2	5057.2	4810.6	4587.3	4387.3	4280.3	4219.8	4229.1	4229.1	4229.1	4229.1
27.5°	5248.0	5103.7	4806.0	4536.1	4303.5	4182.6	4108.1	4108.1	4089.5	4094.2	4098.8
30°	5355.0	5192.1	4815.3	4489.6	4215.1	4061.6	3973.2	3959.2	3954.6	3963.9	3968.5
32.5°	5485.2	5313.1	4871.1	4457.0	4122.1	3926.7	3815.0	3810.4	3796.4	3796.4	3796.4
35°	5648.1	5429.4	4922.3	4452.4	4029.0	3782.4	3661.5	3647.5	3615.0	3601.0	3601.0
37.5°	5857.4	5610.9	4982.8	4419.8	3949.9	3642.9	3498.6	3452.1	3414.9	3410.2	3410.2
40°	6113.3	5815.6	5071.2	4382.6	3866.2	3498.6	3307.9	3228.8	3233.5	3252.1	3252.1
42.5°	6415.7	6066.8	5182.8	4364.0	3745.2	3349.8	3084.6	2991.5	3024.1	3042.7	3047.4
45°	6769.3	6364.5	5308.4	4340.7	3633.6	3182.3	2847.3	2731.0	2744.9	2749.6	2754.2
47.5°	7178.7	6694.9	5438.7	4322.1	3507.9	2972.9	2586.8	2433.2	2428.6	2400.7	2410.0
50°	7606.8	7043.8	5573.6	4289.6	3354.4	2726.3	2312.3	2130.8	2093.6	2051.7	2056.4
52.5°	8062.7	7402.0	5699.2	4238.4	3163.7	2475.1	2051.7	1856.3	1781.9	1735.4	1744.7
55°	8565.2	7769.6	5820.2	4159.3	2963.6	2223.9	1819.1	1619.1	1526.0	1488.8	1493.4
57.5°	9025.7	8123.2	5908.6	4061.6	2744.9	1995.9	1614.4	1419.0	1358.5	1353.9	1358.5
60°	9472.4	8420.9	5945.8	3926.7	2521.6	1786.5	1423.6	1274.8	1232.9	1256.2	1260.8
62.5°	9849.2	8611.7	5927.2	3745.2	2293.7	1586.5	1270.1	1163.1	1135.2	1181.7	1186.4
65°	10067.9	8672.2	5796.9	3484.7	2047.1	1391.1	1125.9	1009.6	995.6	1023.5	1037.5
67.5°	9779.4	8295.3	5443.4	3126.4	1772.6	1209.6	986.3	893.3	870.0	893.3	893.3
70°	8667.5	7188.0	4605.9	2558.8	1470.2	1032.8	856.1	790.9	772.3	790.9	786.3
72.5°	7220.6	5978.4	3628.9	1995.9	1158.5	870.0	744.4	683.9	665.3	646.7	637.4
75°	5601.5	4540.8	2633.3	1465.5	874.7	697.9	623.4	567.6	521.1	539.7	530.4
77.5°	4103.5	3186.9	1865.6	1014.2	628.1	539.7	488.5	446.6	414.1	451.3	446.6
80°	2642.6	2061.0	1246.9	679.3	432.7	376.8	358.2	335.0	367.5	479.2	488.5
82.5°	1614.4	1307.3	744.4	442.0	283.8	251.2	232.6	232.6	376.8	414.1	418.7
85°	721.1	693.2	404.8	228.0	158.2	144.2	130.3	167.5	153.5	111.7	116.3
87.5°	116.3	121.0	88.4	79.1	60.5	60.5	46.5	32.6	23.3	14.0	14.0
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)