

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: P836487

Luminaire Tested: **ARCH3-190-740-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-740-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26029 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.4
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



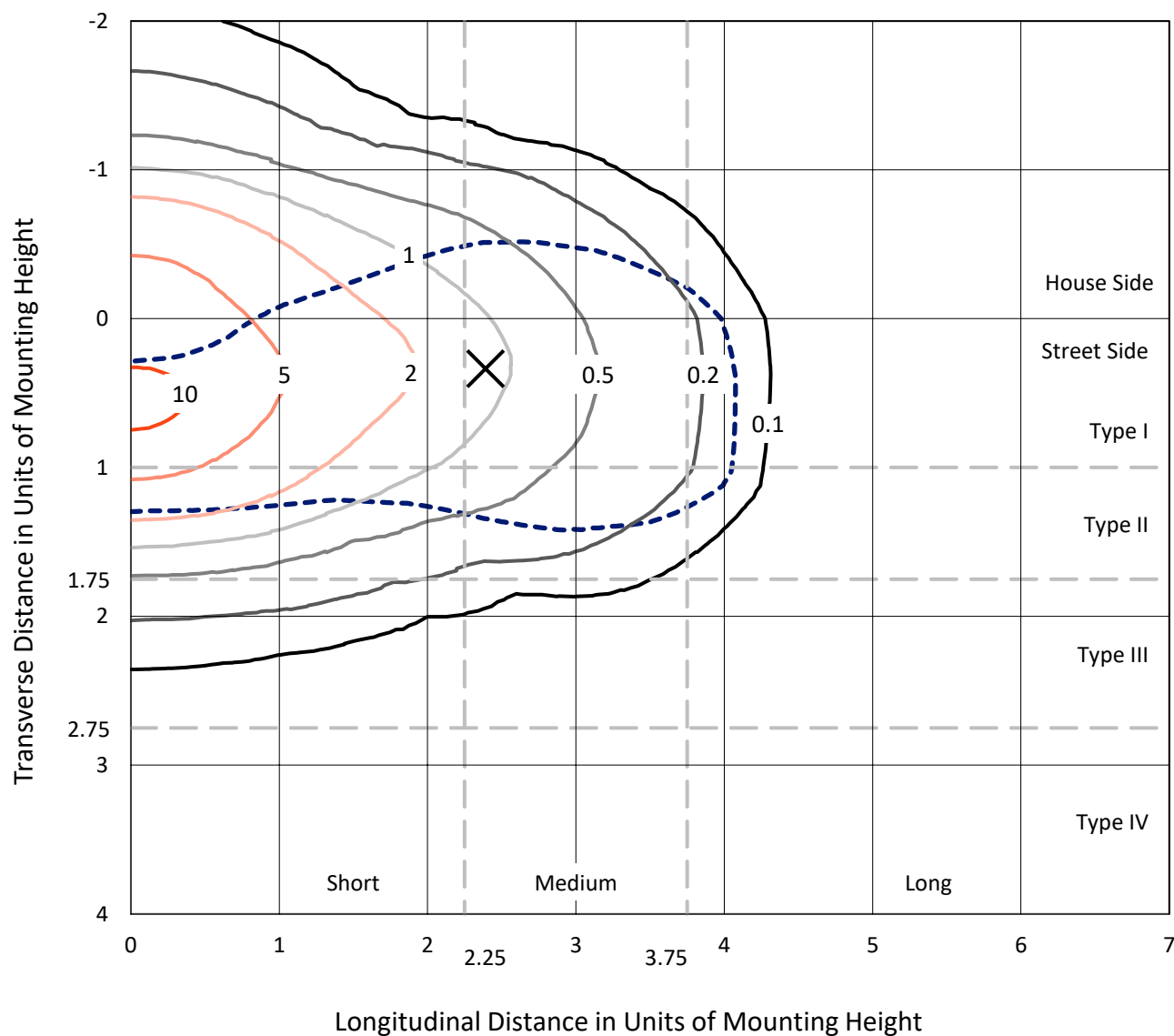
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

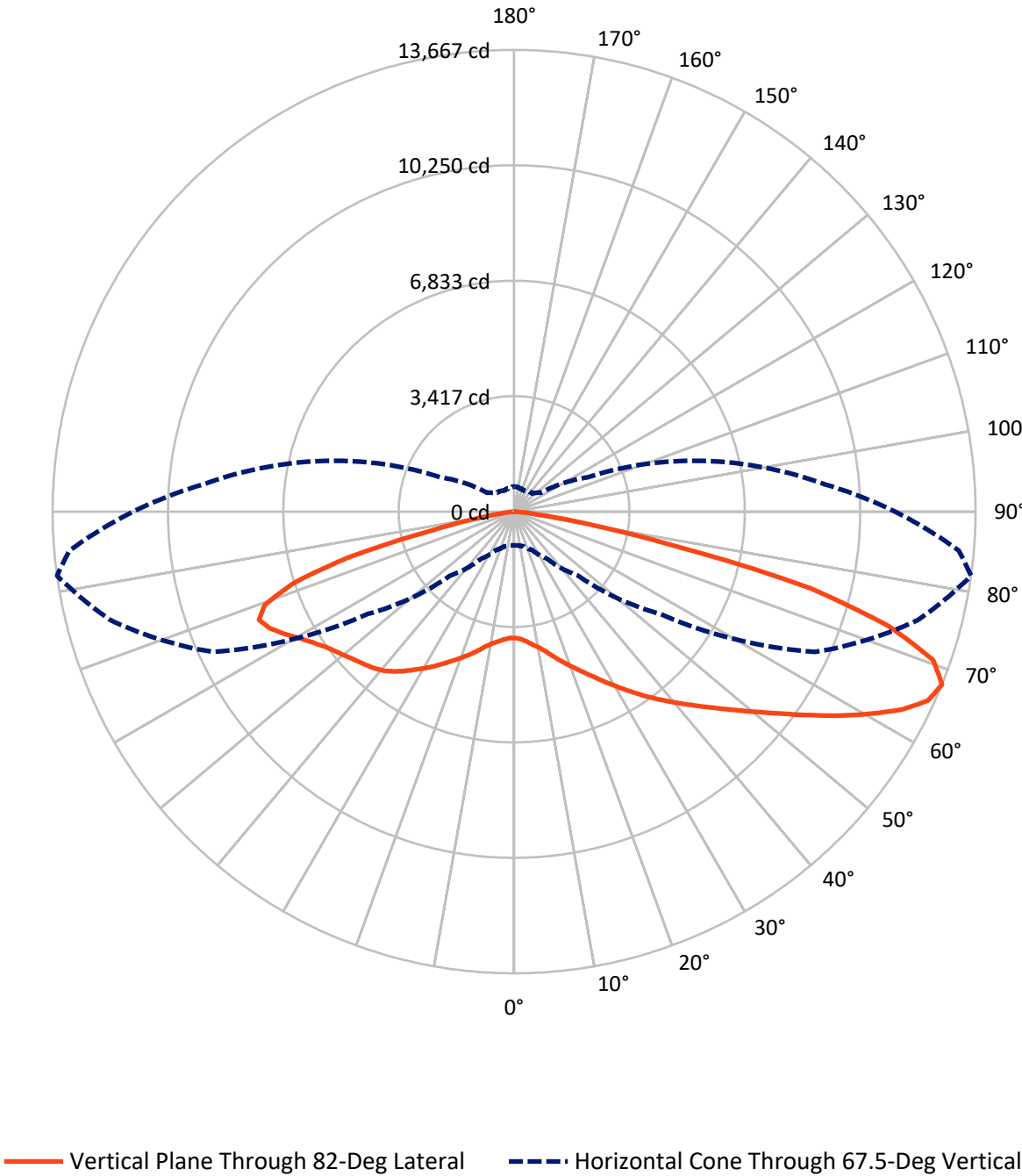
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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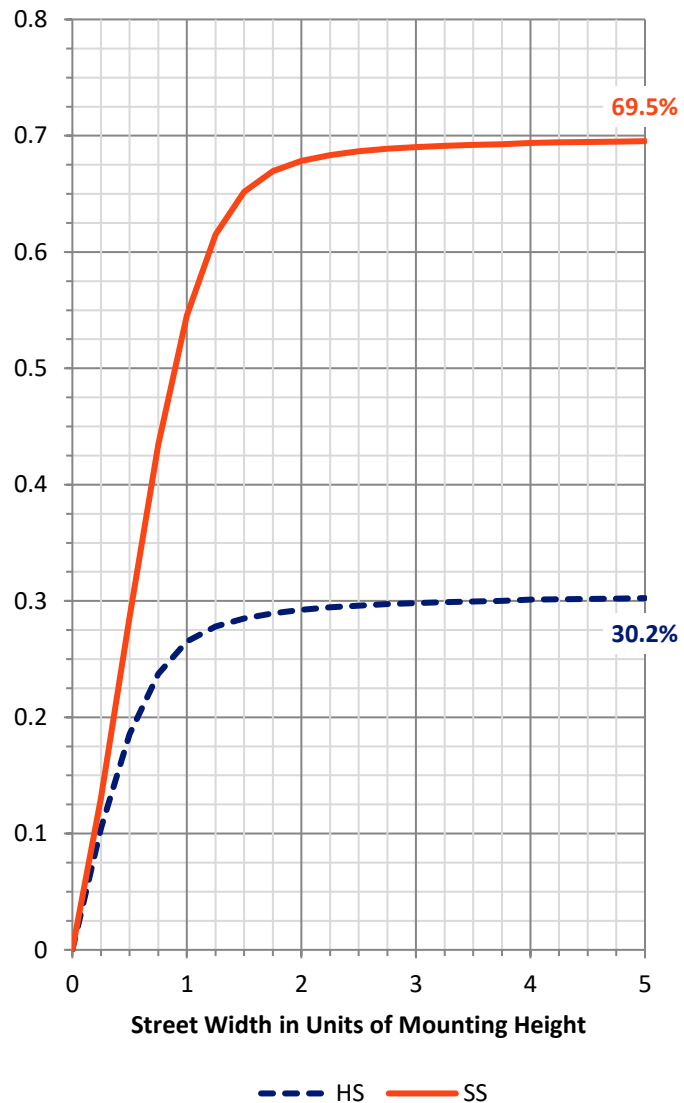
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7926.9	0.0	7926.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	18102.1	0.0	18102.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	26029.0	0.0	26029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.7	1.5
10°-20°	1392.8	5.4
20°-30°	2799.3	10.8
30°-40°	4397.3	16.9
40°-50°	5356.8	20.6
50°-60°	5061.5	19.4
60°-70°	4179.6	16.1
70°-80°	2276.0	8.7
80°-90°	178.9	0.7
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°	26029.0	100.0
0°-180°	26029.0	100.0

Coefficient of Utilization



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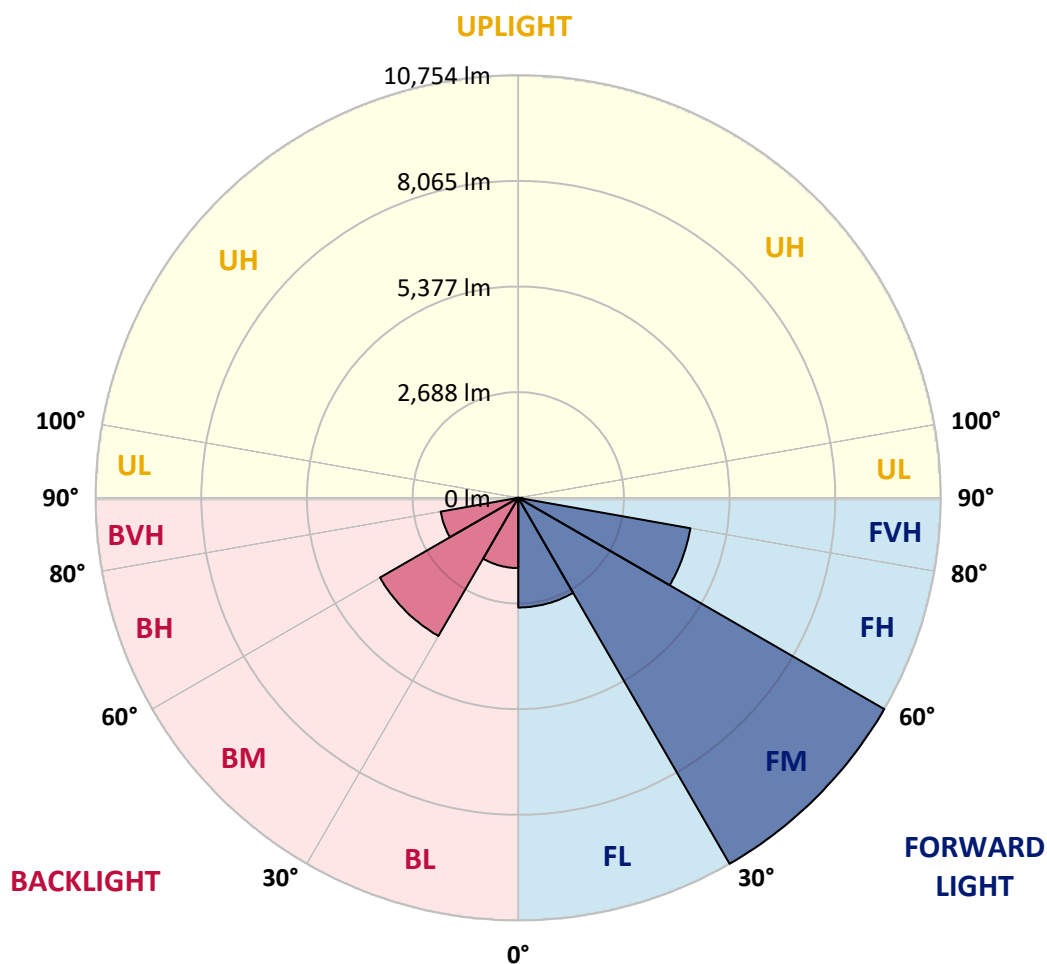
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2791.3	10.7			
FM	(30°-60°)	10753.7	41.3			
FH	(60°-80°)	4449.3	17.1			G2/5000
FVH	(80°-90°)	107.9	0.4			G2/225
BL	(0°-30°)	1787.6	6.9	B3/2500		
BM	(30°-60°)	4061.9	15.6	B3/5000		
BH	(60°-80°)	2006.3	7.7	B3/2500		G3/2500
BVH	(80°-90°)	71.1	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7
2.5°	3911.7	3911.7	3942.0	3942.0	3915.5	3873.9	3862.6	3817.2	3775.7	3775.7	3779.4
5°	4285.9	4282.1	4304.8	4274.6	4210.3	4127.2	4070.5	3972.2	3889.1	3862.6	3858.8
7.5°	4743.2	4739.4	4750.8	4701.6	4580.7	4444.6	4331.2	4172.5	4036.5	3979.8	3964.6
10°	5253.4	5249.7	5238.3	5155.2	4992.7	4781.0	4610.9	4391.7	4187.6	4096.9	4078.0
12.5°	5839.2	5831.7	5805.2	5684.3	5461.3	5189.2	4943.5	4660.1	4387.9	4263.2	4221.6
15°	6493.1	6481.8	6432.6	6285.2	5986.6	5642.7	5325.2	4962.4	4629.8	4467.3	4410.6
17.5°	7181.0	7181.0	7105.4	6886.2	6553.6	6126.5	5733.4	5272.3	4883.0	4682.7	4614.7
20°	7880.2	7876.4	7781.9	7517.3	7124.3	6632.9	6134.0	5627.6	5143.8	4901.9	4818.8
22.5°	8617.1	8609.6	8492.4	8190.1	7721.4	7165.8	6583.8	5979.1	5431.1	5140.1	5034.2
25°	9463.7	9452.4	9308.8	8938.4	8382.8	7755.4	7090.2	6391.0	5759.9	5404.6	5279.9
27.5°	10363.3	10348.1	10178.1	9747.2	9138.7	8382.8	7649.6	6867.3	6122.7	5699.4	5559.6
30°	11164.5	11153.2	10968.0	10525.8	9826.6	9006.4	8182.5	7343.5	6504.4	6013.1	5839.2
32.5°	11769.2	11769.2	11602.9	11168.3	10442.6	9603.6	8719.2	7793.2	6901.3	6349.5	6145.4
35°	12135.8	12147.2	12003.5	11655.8	10971.7	10166.7	9274.8	8322.3	7324.6	6708.5	6489.3
37.5°	12188.7	12226.5	12143.4	11909.0	11338.3	10635.4	9819.0	8832.6	7763.0	7071.4	6825.7
40°	11943.1	11969.5	11973.3	11882.6	11489.5	10971.7	10299.0	9373.0	8227.9	7453.1	7169.6
42.5°	11451.7	11470.6	11504.6	11531.1	11379.9	11119.1	10665.6	9875.7	8723.0	7842.4	7509.8
45°	10816.8	10813.0	10869.7	10983.1	10975.5	11036.0	10869.7	10333.0	9237.0	8284.6	7887.7
47.5°	9868.1	9849.2	10049.6	10306.6	10435.1	10718.5	10873.5	10692.1	9796.3	8772.1	8318.6
50°	8382.8	8363.9	8802.3	9407.1	9785.0	10215.9	10665.6	10907.5	10382.1	9320.1	8787.2
52.5°	6576.2	6557.3	7112.9	8171.2	8995.1	9622.5	10246.1	10956.6	10937.7	9932.4	9316.3
55°	4890.6	4875.5	5416.0	6561.1	7895.3	8934.6	9732.1	10828.1	11459.3	10635.4	9958.9
57.5°	3446.9	3439.3	3908.0	4856.6	6481.8	8095.6	9237.0	10578.7	11939.3	11398.8	10684.5
60°	2418.8	2407.5	2747.7	3480.9	4901.9	6829.5	8745.6	10246.1	12298.3	12150.9	11455.5
62.5°	1628.9	1621.4	1863.3	2475.5	3480.9	5257.2	8001.1	10023.1	12502.4	12906.8	12234.1
65°	1235.9	1232.1	1341.7	1678.1	2464.2	3775.7	6818.1	9996.6	12528.9	13473.7	12895.5
67.5°	997.8	1001.6	1062.0	1254.8	1704.5	2683.4	5287.5	9830.3	12389.0	13666.5	13216.7
70°	816.4	816.4	842.8	971.3	1258.6	1810.4	3692.5	9074.5	11999.8	13163.8	12835.0
72.5°	623.6	627.4	710.5	786.1	948.6	1269.9	2365.9	7509.8	11081.3	11606.7	11357.2
75°	495.1	491.3	540.5	646.3	737.0	907.1	1451.3	5385.7	9429.7	9070.7	8911.9
77.5°	355.3	351.5	389.3	480.0	559.4	642.5	865.5	2717.4	5128.7	4713.0	4595.8
80°	241.9	234.3	268.3	332.6	370.4	377.9	423.3	1043.1	2237.4	2108.9	2082.5
82.5°	124.7	124.7	143.6	189.0	192.8	196.5	189.0	336.4	740.8	691.6	661.4
85°	49.1	49.1	52.9	64.3	64.3	68.0	68.0	86.9	79.4	75.6	71.8
87.5°	3.8	3.8	7.6	7.6	11.3	11.3	11.3	15.1	18.9	18.9	18.9
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°	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7	3741.7
2.5°	3771.9	3756.8	3707.6	3696.3	3688.7	3677.4	3681.2	3654.7	3643.4	3647.2	3632.1
5°	3839.9	3813.5	3753.0	3726.5	3719.0	3707.6	3719.0	3700.1	3681.2	3688.7	3681.2
7.5°	3934.4	3896.6	3821.0	3794.6	3790.8	3779.4	3794.6	3779.4	3764.3	3771.9	3756.8
10°	4032.7	3983.5	3900.4	3873.9	3873.9	3870.2	3885.3	3862.6	3847.5	3851.3	3843.7
12.5°	4176.3	4112.0	4021.3	3998.7	3987.3	3998.7	4002.4	3972.2	3945.7	3949.5	3938.2
15°	4350.1	4278.3	4180.1	4146.1	4138.5	4134.7	4119.6	4081.8	4047.8	4044.0	4032.7
17.5°	4539.1	4448.4	4331.2	4297.2	4263.2	4251.9	4214.1	4165.0	4112.0	4112.0	4096.9
20°	4720.5	4618.5	4478.6	4429.5	4380.4	4335.0	4270.8	4191.4	4123.4	4112.0	4096.9
22.5°	4917.1	4796.1	4633.6	4561.8	4474.9	4384.2	4274.6	4168.7	4081.8	4062.9	4051.6
25°	5136.3	4985.1	4792.3	4686.5	4546.7	4406.8	4244.3	4108.3	4006.2	3976.0	3968.4
27.5°	5378.2	5196.7	4962.4	4807.5	4603.4	4384.2	4176.3	4013.8	3889.1	3851.3	3839.9
30°	5623.8	5408.4	5117.4	4890.6	4603.4	4312.4	4051.6	3862.6	3719.0	3666.1	3658.5
32.5°	5869.5	5627.6	5257.2	4936.0	4558.0	4191.4	3889.1	3666.1	3503.5	3439.3	3454.4
35°	6164.3	5869.5	5385.7	4954.9	4482.4	4044.0	3703.9	3443.1	3276.8	3220.1	3231.4
37.5°	6470.4	6111.4	5487.8	4939.7	4376.6	3877.7	3496.0	3242.8	3034.9	2936.6	2948.0
40°	6735.0	6330.6	5559.6	4886.8	4240.5	3688.7	3291.9	2959.3	2672.1	2577.6	2566.2
42.5°	6984.4	6493.1	5597.4	4807.5	4085.6	3469.5	3000.9	2573.8	2286.6	2169.4	2173.2
45°	7245.2	6651.8	5582.2	4701.6	3892.8	3212.5	2626.7	2195.9	1942.6	1836.8	1840.6
47.5°	7543.8	6821.9	5567.1	4588.3	3658.5	2879.9	2267.7	1863.3	1644.1	1568.5	1560.9
50°	7861.3	7010.9	5548.2	4448.4	3397.7	2509.6	1912.4	1553.4	1368.2	1319.0	1307.7
52.5°	8220.3	7215.0	5536.9	4282.1	3084.0	2116.5	1594.9	1281.2	1156.5	1122.5	1118.7
55°	8651.2	7453.1	5552.0	4081.8	2706.1	1746.1	1326.6	1103.6	1020.5	1001.6	997.8
57.5°	9176.5	7759.2	5597.4	3847.5	2309.2	1424.9	1130.1	994.0	941.1	926.0	926.0
60°	9747.2	8106.9	5680.5	3582.9	1912.4	1175.4	1001.6	907.1	884.4	903.3	903.3
62.5°	10363.3	8515.1	5827.9	3261.7	1542.0	994.0	899.5	835.3	820.1	857.9	861.7
65°	10933.9	8911.9	5922.4	2876.2	1224.5	861.7	820.1	763.4	771.0	808.8	805.0
67.5°	11285.4	9240.8	5790.1	2392.4	971.3	763.4	737.0	687.9	706.8	737.0	740.8
70°	11070.0	9055.6	5136.3	1806.6	759.7	665.2	646.3	616.1	631.2	669.0	684.1
72.5°	10015.5	8110.7	3994.9	1220.8	612.3	559.4	566.9	551.8	570.7	604.7	638.7
75°	8129.6	6130.3	2679.6	782.3	483.8	476.2	487.5	476.2	483.8	517.8	536.7
77.5°	4244.3	2989.5	1334.1	487.5	359.0	370.4	389.3	393.1	415.7	423.3	430.9
80°	1980.4	1345.5	555.6	272.1	238.1	260.8	298.6	302.4	309.9	321.3	325.0
82.5°	646.3	404.4	257.0	147.4	136.1	147.4	192.8	230.5	234.3	257.0	257.0
85°	68.0	41.6	56.7	60.5	52.9	64.3	86.9	83.1	37.8	22.7	22.7
87.5°	18.9	15.1	18.9	18.9	15.1	15.1	11.3	3.8	0.0	0.0	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)