

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: P841515

Luminaire Tested: **ARCH4-190-727-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-190-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1530mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28846 lumens
Efficiency: N/A
Efficacy: 151.8 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

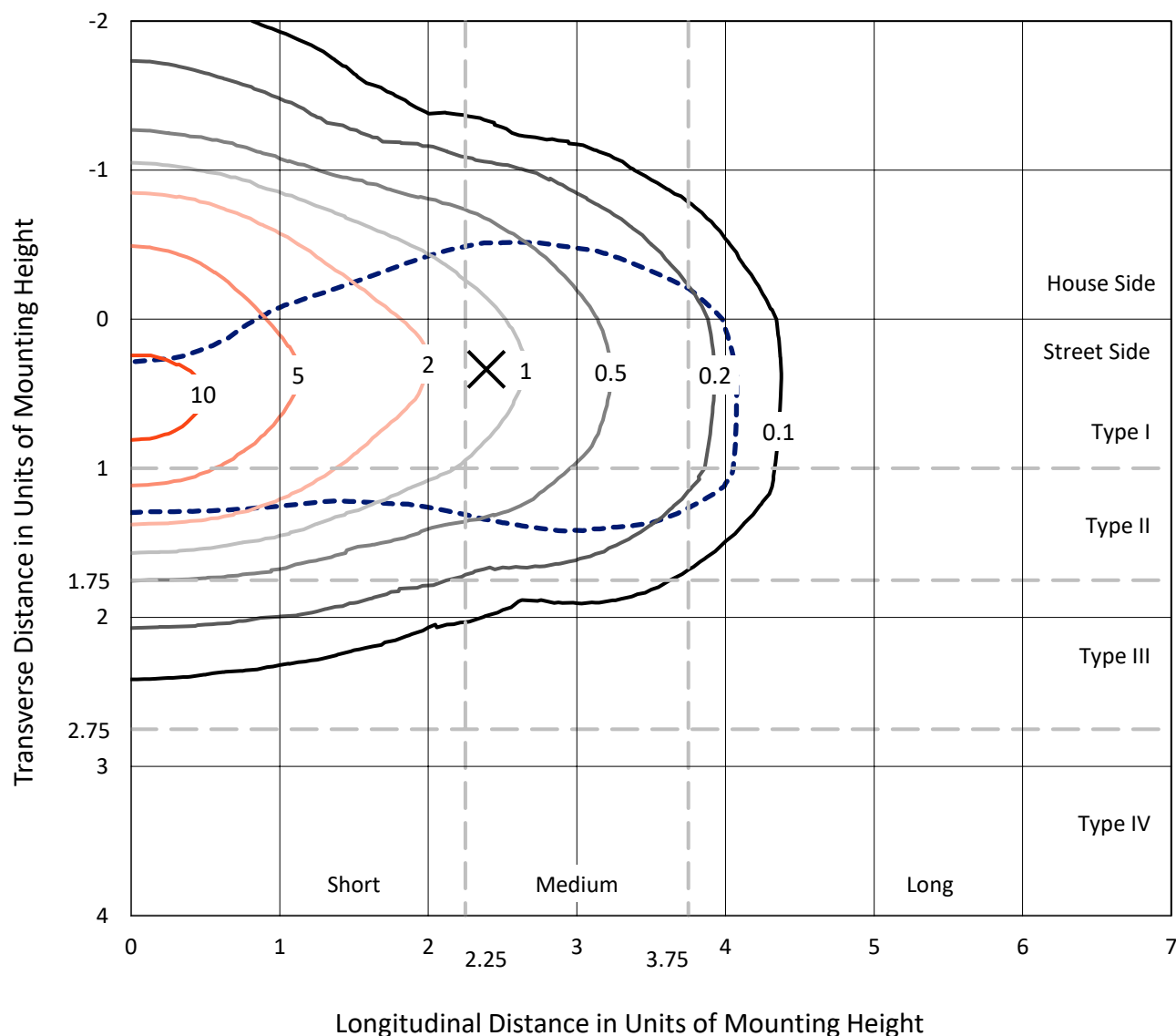
Input Watts (W): 190
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

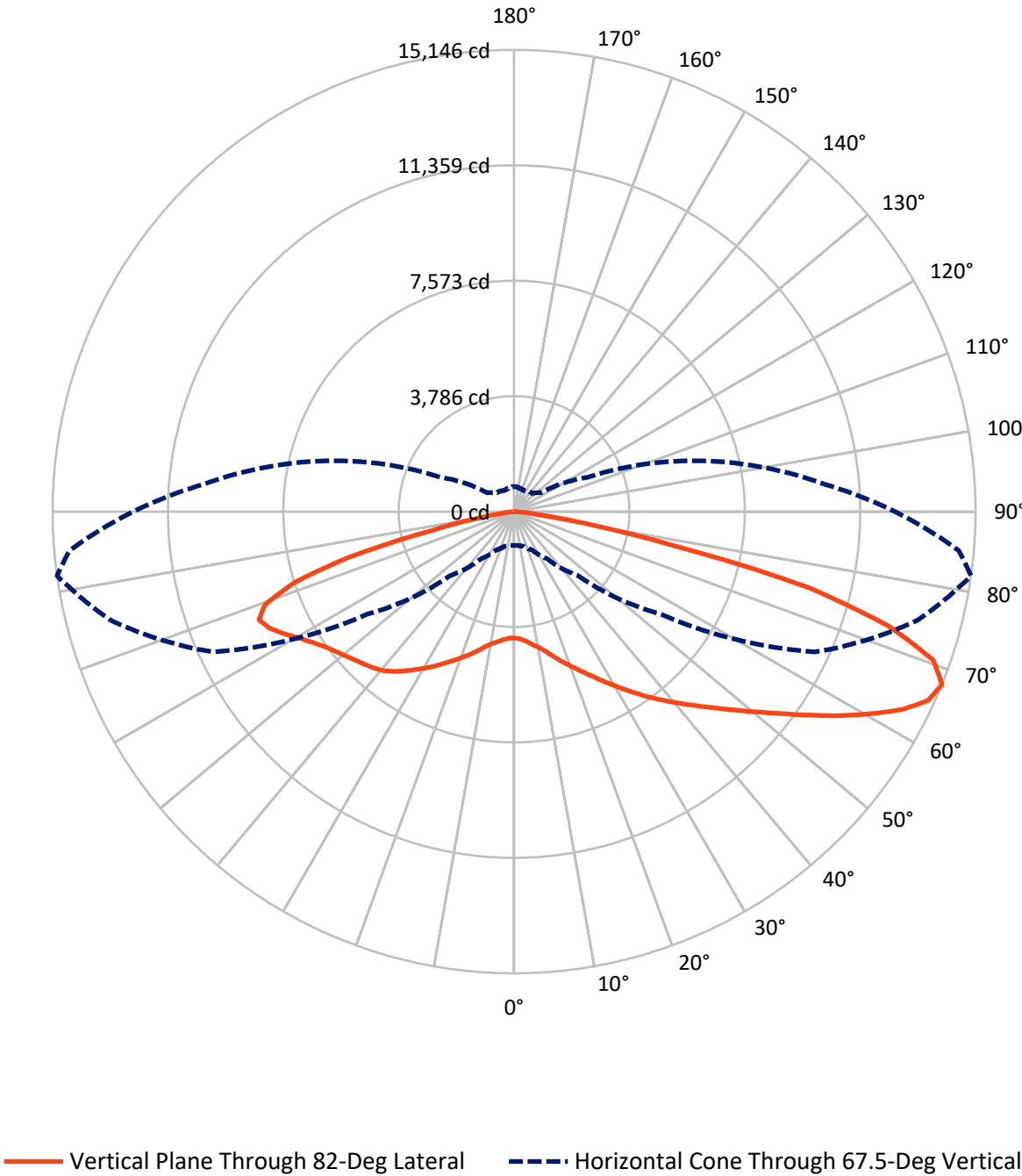
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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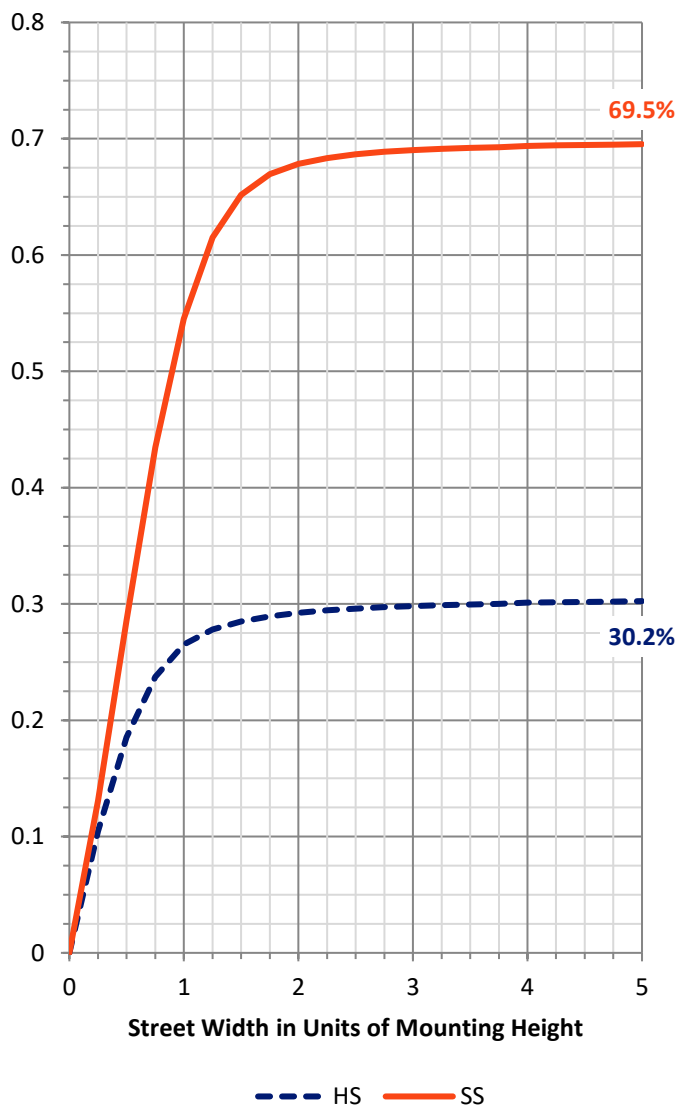
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8784.8	0.0	8784.8
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	20061.2	0.0	20061.2
	% Fixture	69.5	0.0	69.5
Total	Lumens	28846.0	0.0	28846.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	1.5
10°-20°	1543.6	5.4
20°-30°	3102.3	10.8
30°-40°	4873.2	16.9
40°-50°	5936.5	20.6
50°-60°	5609.3	19.4
60°-70°	4632.0	16.1
70°-80°	2522.3	8.7
80°-90°	198.3	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°	28846.0	100.0
0°-180°	28846.0	100.0

Coefficient of Utilization



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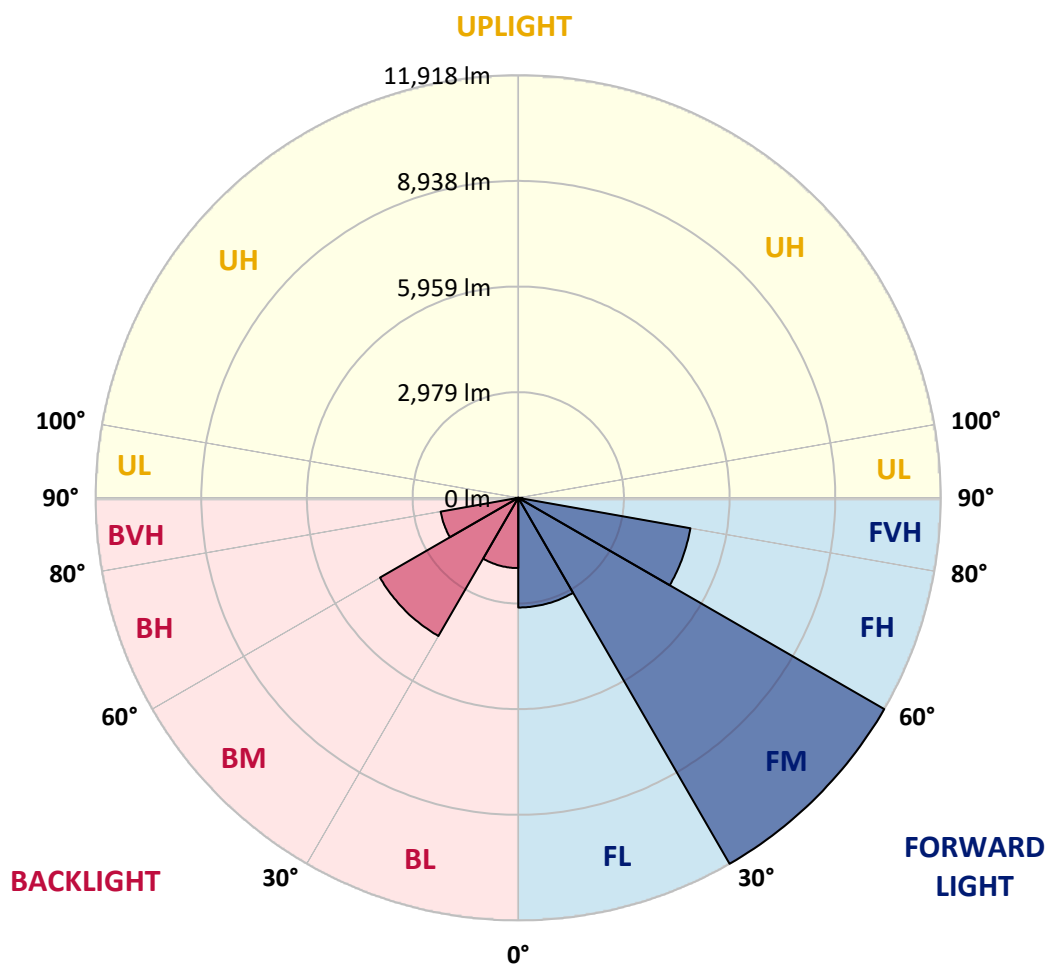
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3093.3	10.7			
FM	(30°-60°)	11917.5	41.3			
FH	(60°-80°)	4930.8	17.1			G2/5000
FVH	(80°-90°)	119.5	0.4			G2/225
BL	(0°-30°)	1981.0	6.9	B3/2500		
BM	(30°-60°)	4501.5	15.6	B3/5000		
BH	(60°-80°)	2223.5	7.7	B3/2500		G3/2500
BVH	(80°-90°)	78.8	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°	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6
2.5°	4335.1	4335.1	4368.6	4368.6	4339.3	4293.2	4280.6	4230.4	4184.3	4184.3	4188.5
5°	4749.7	4745.6	4770.7	4737.2	4666.0	4573.8	4511.0	4402.1	4309.9	4280.6	4276.4
7.5°	5256.5	5252.4	5264.9	5210.5	5076.4	4925.7	4800.0	4624.1	4473.3	4410.5	4393.7
10°	5822.0	5817.8	5805.2	5713.1	5533.0	5298.4	5109.9	4867.0	4640.8	4540.3	4519.4
12.5°	6471.2	6462.8	6433.5	6299.5	6052.4	5750.8	5478.5	5164.4	4862.8	4724.6	4678.5
15°	7195.8	7183.2	7128.8	6965.4	6634.6	6253.4	5901.6	5499.5	5130.9	4950.8	4888.0
17.5°	7958.1	7958.1	7874.3	7631.4	7262.8	6789.5	6353.9	5842.9	5411.5	5189.5	5114.1
20°	8733.0	8728.8	8624.1	8330.9	7895.3	7350.8	6797.9	6236.7	5700.5	5432.5	5340.3
22.5°	9549.7	9541.4	9411.5	9076.4	8557.1	7941.4	7296.3	6626.2	6018.8	5696.3	5579.1
25°	10488.0	10475.4	10316.2	9905.8	9290.1	8594.8	7857.6	7082.7	6383.2	5989.5	5851.3
27.5°	11484.8	11468.1	11279.6	10802.1	10127.8	9290.1	8477.5	7610.5	6785.3	6316.2	6161.3
30°	12372.8	12360.2	12155.0	11664.9	10890.1	9981.2	9068.1	8138.2	7208.4	6663.9	6471.2
32.5°	13042.9	13042.9	12858.6	12377.0	11572.8	10642.9	9662.8	8636.7	7648.2	7036.7	6810.5
35°	13449.2	13461.8	13302.6	12917.3	12159.2	11267.0	10278.5	9223.0	8117.3	7434.6	7191.6
37.5°	13507.9	13549.7	13457.6	13197.9	12565.4	11786.4	10881.7	9788.5	8603.1	7836.7	7564.4
40°	13235.6	13264.9	13269.1	13168.6	12733.0	12159.2	11413.6	10387.4	9118.3	8259.7	7945.6
42.5°	12691.1	12712.0	12749.7	12779.1	12611.5	12322.5	11819.9	10944.5	9667.0	8691.1	8322.5
45°	11987.4	11983.2	12046.1	12171.7	12163.4	12230.4	12046.1	11451.3	10236.7	9181.2	8741.4
47.5°	10936.1	10915.2	11137.2	11422.0	11564.4	11878.5	12050.3	11849.2	10856.5	9721.5	9218.8
50°	9290.1	9269.1	9755.0	10425.1	10844.0	11321.5	11819.9	12088.0	11505.8	10328.8	9738.2
52.5°	7288.0	7267.0	7882.7	9055.5	9968.6	10663.9	11355.0	12142.4	12121.5	11007.3	10324.6
55°	5419.9	5403.1	6002.1	7271.2	8749.7	9901.6	10785.3	12000.0	12699.5	11786.4	11036.7
57.5°	3819.9	3811.5	4330.9	5382.2	7183.2	8971.7	10236.7	11723.6	13231.4	12632.5	11840.8
60°	2680.6	2668.1	3045.0	3857.6	5432.5	7568.6	9692.1	11355.0	13629.3	13466.0	12695.3
62.5°	1805.2	1796.9	2064.9	2743.5	3857.6	5826.2	8867.0	11107.9	13855.5	14303.7	13558.1
65°	1369.6	1365.4	1486.9	1859.7	2730.9	4184.3	7556.0	11078.5	13884.8	14931.9	14291.1
67.5°	1105.8	1109.9	1177.0	1390.6	1889.0	2973.8	5859.7	10894.2	13729.8	15145.6	14647.1
70°	904.7	904.7	934.0	1076.4	1394.8	2006.3	4092.1	10056.5	13298.4	14588.5	14224.1
72.5°	691.1	695.3	787.4	871.2	1051.3	1407.3	2622.0	8322.5	12280.6	12862.8	12586.4
75°	548.7	544.5	599.0	716.2	816.8	1005.2	1608.4	5968.6	10450.3	10052.4	9876.4
77.5°	393.7	389.5	431.4	531.9	619.9	712.0	959.2	3011.5	5683.8	5223.0	5093.2
80°	268.1	259.7	297.4	368.6	410.5	418.8	469.1	1156.0	2479.6	2337.2	2307.9
82.5°	138.2	138.2	159.2	209.4	213.6	217.8	209.4	372.8	820.9	766.5	733.0
85°	54.5	54.5	58.6	71.2	71.2	75.4	75.4	96.3	88.0	83.8	79.6
87.5°	4.2	4.2	8.4	8.4	12.6	12.6	12.6	16.8	20.9	20.9	20.9
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°	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6	4146.6
2.5°	4180.1	4163.4	4108.9	4096.3	4088.0	4075.4	4079.6	4050.3	4037.7	4041.9	4025.1
5°	4255.5	4226.2	4159.2	4129.8	4121.5	4108.9	4121.5	4100.5	4079.6	4088.0	4079.6
7.5°	4360.2	4318.3	4234.6	4205.2	4201.0	4188.5	4205.2	4188.5	4171.7	4180.1	4163.4
10°	4469.1	4414.7	4322.5	4293.2	4293.2	4289.0	4305.8	4280.6	4263.9	4268.1	4259.7
12.5°	4628.3	4557.1	4456.5	4431.4	4418.8	4431.4	4435.6	4402.1	4372.8	4377.0	4364.4
15°	4820.9	4741.4	4632.5	4594.8	4586.4	4582.2	4565.4	4523.6	4485.9	4481.7	4469.1
17.5°	5030.4	4929.8	4800.0	4762.3	4724.6	4712.0	4670.2	4615.7	4557.1	4557.1	4540.3
20°	5231.4	5118.3	4963.4	4908.9	4854.5	4804.2	4733.0	4645.0	4569.6	4557.1	4540.3
22.5°	5449.2	5315.2	5135.1	5055.5	4959.2	4858.6	4737.2	4619.9	4523.6	4502.6	4490.1
25°	5692.1	5524.6	5311.0	5193.7	5038.7	4883.8	4703.7	4552.9	4439.8	4406.3	4397.9
27.5°	5960.2	5759.2	5499.5	5327.7	5101.6	4858.6	4628.3	4448.2	4309.9	4268.1	4255.5
30°	6232.5	5993.7	5671.2	5419.9	5101.6	4779.1	4490.1	4280.6	4121.5	4062.8	4054.5
32.5°	6504.7	6236.7	5826.2	5470.2	5051.3	4645.0	4309.9	4062.8	3882.7	3811.5	3828.3
35°	6831.4	6504.7	5968.6	5491.1	4967.5	4481.7	4104.7	3815.7	3631.4	3568.6	3581.2
37.5°	7170.7	6772.8	6081.7	5474.3	4850.3	4297.4	3874.3	3593.7	3363.4	3254.5	3267.0
40°	7463.9	7015.7	6161.3	5415.7	4699.5	4088.0	3648.2	3279.6	2961.3	2856.5	2844.0
42.5°	7740.3	7195.8	6203.1	5327.7	4527.7	3845.0	3325.7	2852.4	2534.0	2404.2	2408.4
45°	8029.3	7371.7	6186.4	5210.5	4314.1	3560.2	2911.0	2433.5	2152.9	2035.6	2039.8
47.5°	8360.2	7560.2	6169.6	5084.8	4054.5	3191.6	2513.1	2064.9	1822.0	1738.2	1729.8
50°	8712.0	7769.6	6148.7	4929.8	3765.4	2781.2	2119.4	1721.5	1516.2	1461.8	1449.2
52.5°	9109.9	7995.8	6136.1	4745.6	3417.8	2345.6	1767.5	1419.9	1281.7	1244.0	1239.8
55°	9587.4	8259.7	6152.9	4523.6	2999.0	1935.1	1470.2	1223.0	1130.9	1109.9	1105.8
57.5°	10169.6	8599.0	6203.1	4263.9	2559.2	1579.1	1252.4	1101.6	1042.9	1026.2	1026.2
60°	10802.1	8984.3	6295.3	3970.7	2119.4	1302.6	1109.9	1005.2	980.1	1001.0	1001.0
62.5°	11484.8	9436.7	6458.6	3614.7	1708.9	1101.6	996.9	925.7	908.9	950.8	955.0
65°	12117.3	9876.4	6563.4	3187.4	1357.1	955.0	908.9	846.1	854.5	896.3	892.1
67.5°	12506.8	10240.8	6416.8	2651.3	1076.4	846.1	816.8	762.3	783.2	816.8	820.9
70°	12268.1	10035.6	5692.1	2002.1	841.9	737.2	716.2	682.7	699.5	741.4	758.1
72.5°	11099.5	8988.5	4427.2	1352.9	678.5	619.9	628.3	611.5	632.5	670.2	707.9
75°	9009.4	6793.7	2969.6	867.0	536.1	527.7	540.3	527.7	536.1	573.8	594.8
77.5°	4703.7	3313.1	1478.5	540.3	397.9	410.5	431.4	435.6	460.7	469.1	477.5
80°	2194.8	1491.1	615.7	301.6	263.9	289.0	330.9	335.1	343.5	356.0	360.2
82.5°	716.2	448.2	284.8	163.4	150.8	163.4	213.6	255.5	259.7	284.8	284.8
85°	75.4	46.1	62.8	67.0	58.6	71.2	96.3	92.1	41.9	25.1	25.1
87.5°	20.9	16.8	20.9	20.9	16.8	16.8	12.6	4.2	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)