

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: P842028

Luminaire Tested: **ARCH4-260-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842028
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: ARCH4-260-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1010mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37926 lumens
Efficiency: N/A
Efficacy: 146.3 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): 259.2
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



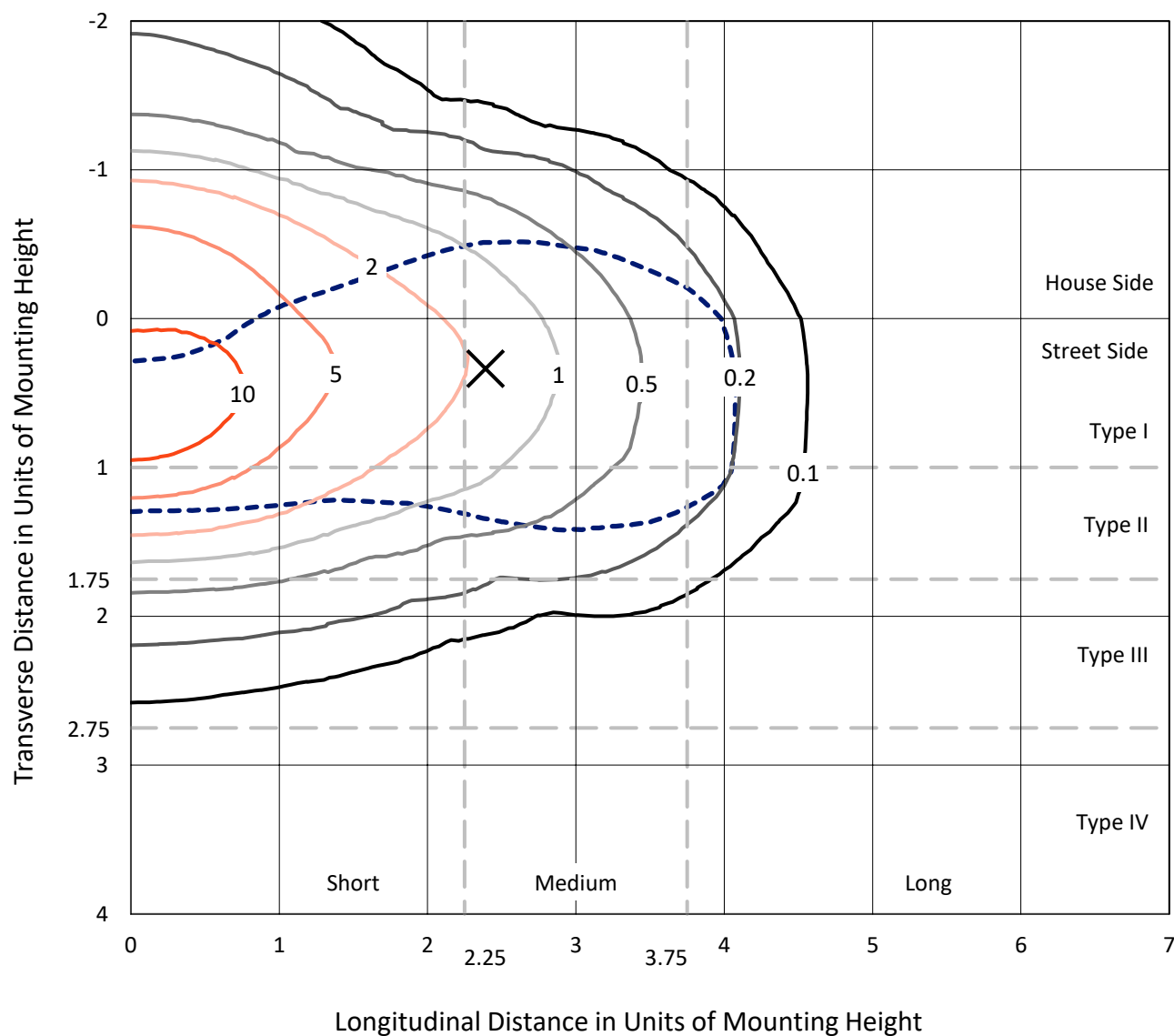
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

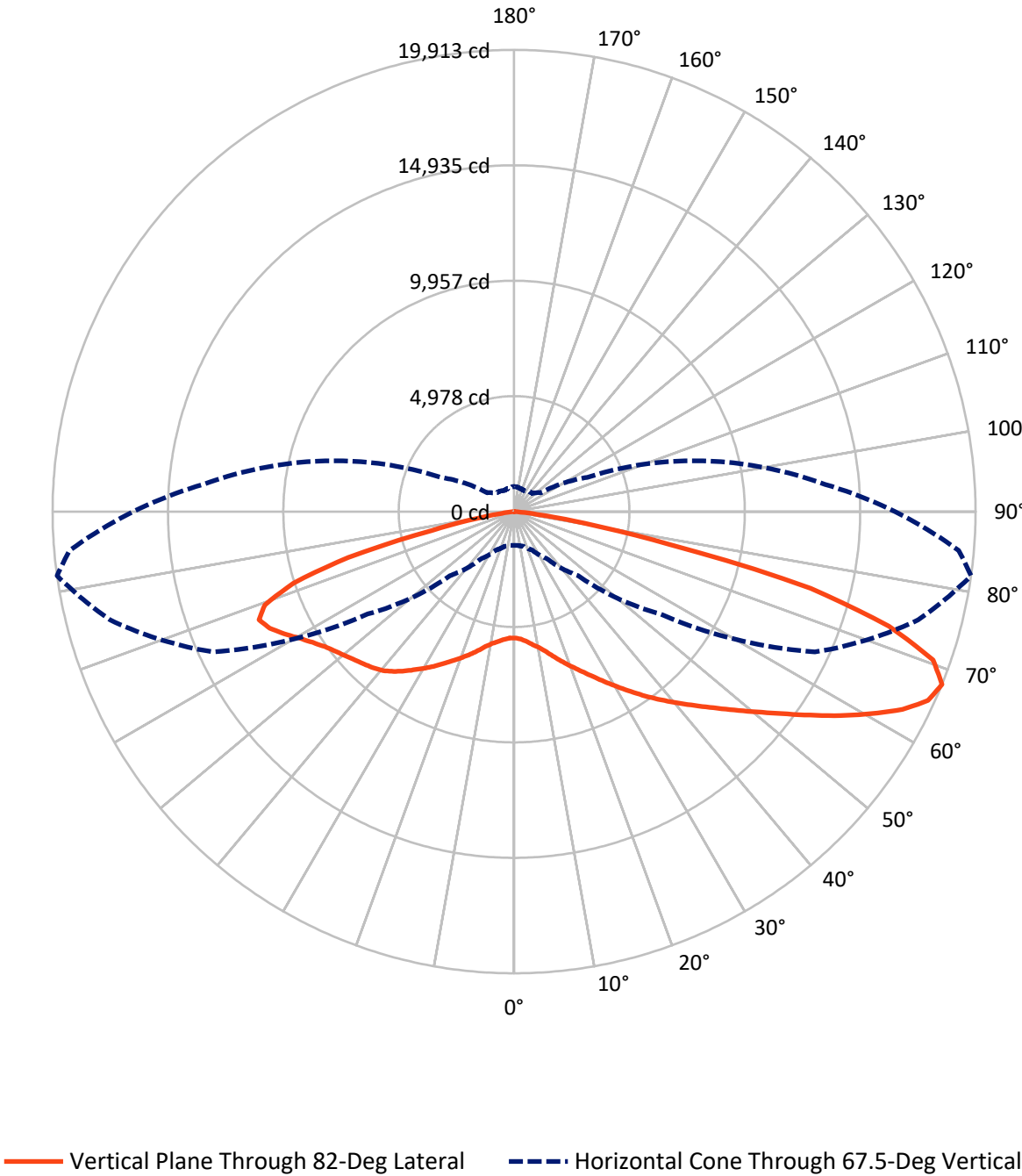
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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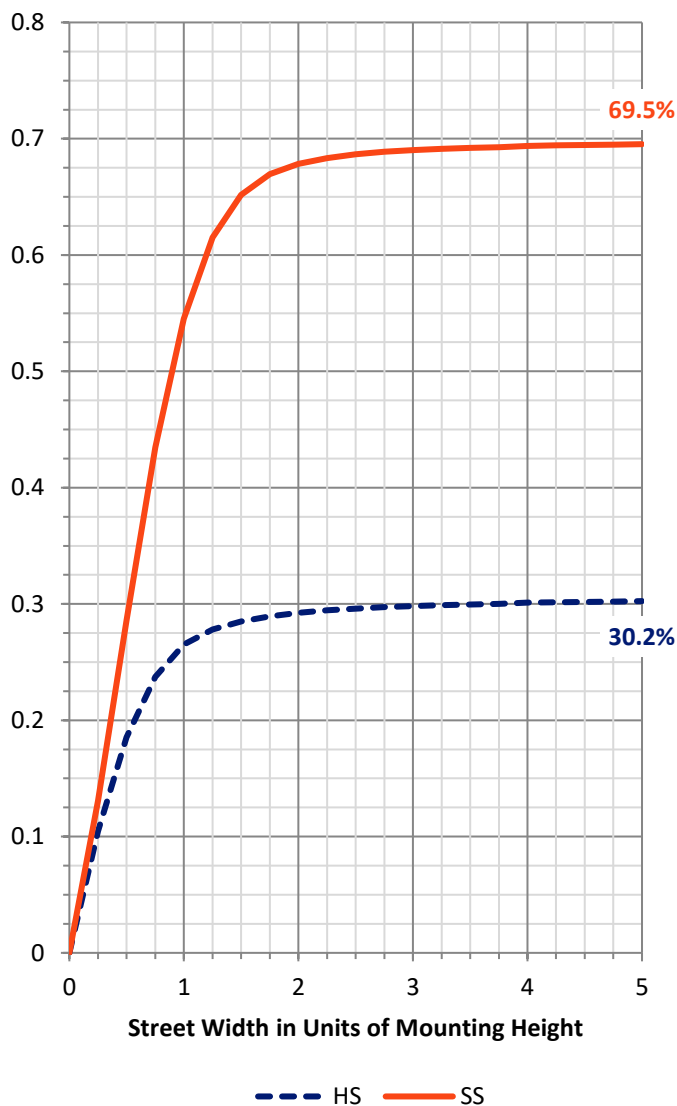
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11550.0	0.0	11550.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	26376.0	0.0	26376.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	37926.0	0.0	37926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.4	1.5
10°-20°	2029.5	5.4
20°-30°	4078.8	10.8
30°-40°	6407.2	16.9
40°-50°	7805.2	20.6
50°-60°	7374.9	19.4
60°-70°	6090.0	16.1
70°-80°	3316.3	8.7
80°-90°	260.7	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°	37926.0	100.0
0°-180°	37926.0	100.0

Coefficient of Utilization



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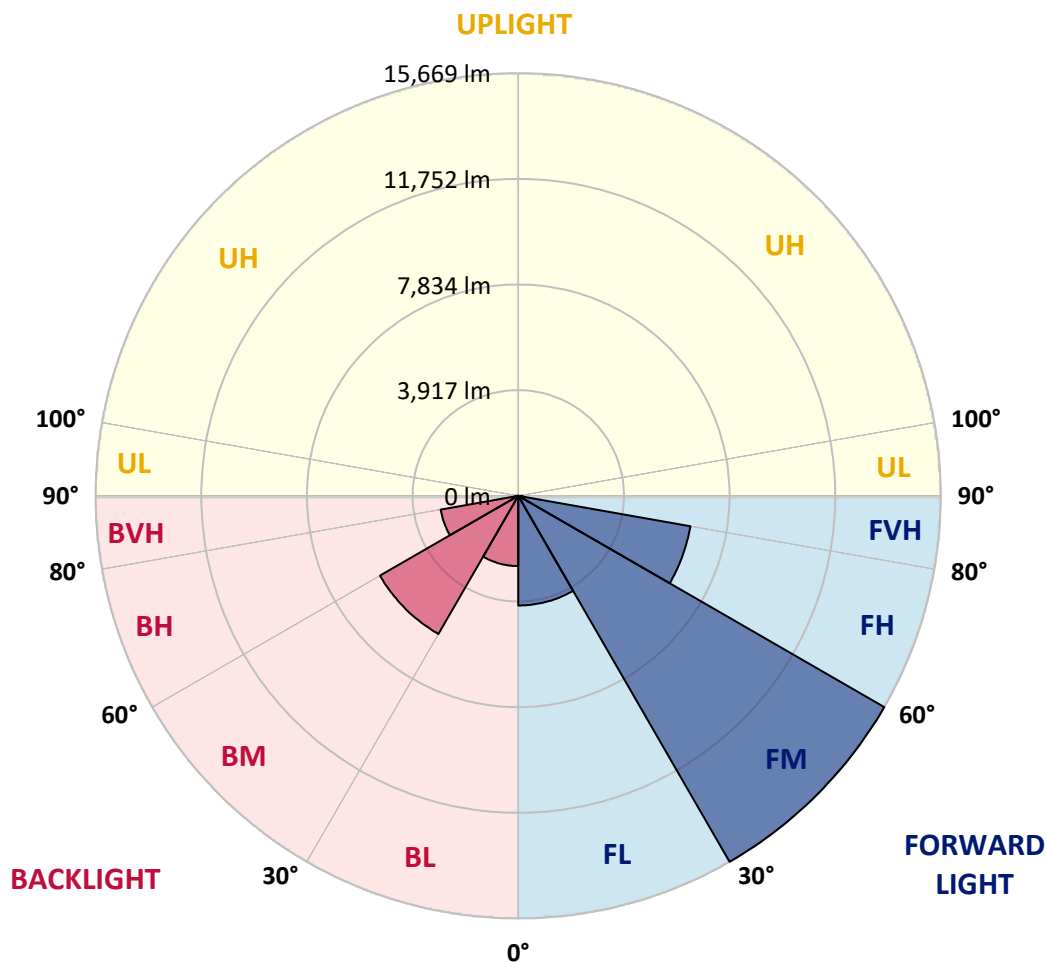
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4067.1	10.7			
FM	(30°-60°)	15668.8	41.3			
FH	(60°-80°)	6482.9	17.1			G3/7500
FVH	(80°-90°)	157.2	0.4			G2/225
BL	(0°-30°)	2604.6	6.9	B4/5000		
BM	(30°-60°)	5918.5	15.6	B4/8500		
BH	(60°-80°)	2923.4	7.7	B4/5000		G4/5000
BVH	(80°-90°)	103.6	0.3			G2/225
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°	82°	85°
0°	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8
2.5°	5699.7	5699.7	5743.7	5743.7	5705.2	5644.6	5628.1	5562.0	5501.4	5501.4	5506.9
5°	6244.8	6239.3	6272.4	6228.3	6134.7	6013.5	5930.9	5787.8	5666.6	5628.1	5622.6
7.5°	6911.2	6905.7	6922.2	6850.6	6674.4	6476.1	6310.9	6079.6	5881.4	5798.8	5776.8
10°	7654.6	7649.1	7632.6	7511.4	7274.6	6966.2	6718.4	6399.0	6101.7	5969.5	5942.0
12.5°	8508.2	8497.2	8458.6	8282.4	7957.5	7561.0	7203.0	6790.0	6393.5	6211.8	6151.2
15°	9460.9	9444.4	9372.8	9158.0	8722.9	8221.8	7759.2	7230.6	6746.0	6509.2	6426.6
17.5°	10463.1	10463.1	10353.0	10033.6	9549.0	8926.7	8354.0	7682.1	7114.9	6823.1	6723.9
20°	11481.9	11476.4	11338.7	10953.2	10380.5	9664.6	8937.7	8199.8	7494.9	7142.5	7021.3
22.5°	12555.8	12544.7	12374.0	11933.5	11250.6	10441.1	9593.0	8711.9	7913.4	7489.4	7335.2
25°	13789.3	13772.8	13563.5	13023.8	12214.3	11300.2	10331.0	9312.2	8392.5	7874.9	7693.2
27.5°	15100.0	15077.9	14830.1	14202.3	13315.7	12214.3	11146.0	10006.1	8921.2	8304.4	8100.7
30°	16267.4	16250.9	15981.1	15336.7	14318.0	13123.0	11922.5	10699.9	9477.4	8761.5	8508.2
32.5°	17148.5	17148.5	16906.2	16272.9	15215.6	13993.1	12704.4	11355.3	10055.6	9251.6	8954.2
35°	17682.7	17699.2	17490.0	16983.3	15986.6	14813.6	13514.0	12126.2	10672.4	9774.8	9455.4
37.5°	17759.8	17814.9	17693.7	17352.3	16520.7	15496.5	14307.0	12869.7	11311.2	10303.4	9945.5
40°	17401.8	17440.4	17445.9	17313.7	16741.0	15986.6	15006.3	13657.1	11988.5	10859.6	10446.6
42.5°	16685.9	16713.5	16763.0	16801.6	16581.3	16201.3	15540.5	14389.6	12710.0	11426.8	10942.2
45°	15760.8	15755.3	15837.9	16003.1	15992.1	16080.2	15837.9	15055.9	13458.9	12071.2	11492.9
47.5°	14378.5	14351.0	14642.9	15017.3	15204.6	15617.6	15843.4	15579.1	14273.9	12781.5	12120.7
50°	12214.3	12186.8	12825.6	13706.7	14257.4	14885.2	15540.5	15892.9	15127.5	13580.0	12803.6
52.5°	9582.0	9554.5	10364.0	11905.9	13106.5	14020.6	14929.2	15964.5	15937.0	14472.2	13574.5
55°	7125.9	7103.9	7891.4	9560.0	11503.9	13018.3	14180.3	15777.3	16697.0	15496.5	14510.7
57.5°	5022.3	5011.3	5694.1	7076.4	9444.4	11795.8	13458.9	15413.8	17396.3	16608.8	15568.0
60°	3524.4	3507.9	4003.5	5071.9	7142.5	9951.0	12743.0	14929.2	17919.5	17704.7	16691.5
62.5°	2373.5	2362.5	2714.9	3607.0	5071.9	7660.1	11658.1	14604.3	18216.9	18806.1	17825.9
65°	1800.8	1795.3	1955.0	2445.1	3590.5	5501.4	9934.5	14565.8	18255.4	19632.1	18789.6
67.5°	1453.8	1459.3	1547.4	1828.3	2483.6	3909.9	7704.2	14323.5	18051.7	19913.0	19257.7
70°	1189.5	1189.5	1228.0	1415.3	1833.8	2637.8	5380.3	13222.1	17484.4	19180.6	18701.5
72.5°	908.6	914.1	1035.3	1145.4	1382.2	1850.3	3447.3	10942.2	16146.3	16911.7	16548.3
75°	721.4	715.9	787.5	941.7	1073.8	1321.7	2114.7	7847.3	13739.7	13216.6	12985.3
77.5°	517.6	512.1	567.2	699.4	815.0	936.2	1261.1	3959.5	7472.9	6867.1	6696.4
80°	352.4	341.4	391.0	484.6	539.7	550.7	616.8	1519.9	3260.1	3072.9	3034.3
82.5°	181.7	181.7	209.3	275.3	280.9	286.4	275.3	490.1	1079.4	1007.8	963.7
85°	71.6	71.6	77.1	93.6	93.6	99.1	99.1	126.7	115.6	110.1	104.6
87.5°	5.5	5.5	11.0	11.0	16.5	16.5	16.5	22.0	27.5	27.5	27.5
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°	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8	5451.8
2.5°	5495.9	5473.9	5402.3	5385.8	5374.7	5358.2	5363.7	5325.2	5308.7	5314.2	5292.1
5°	5595.0	5556.5	5468.4	5429.8	5418.8	5402.3	5418.8	5391.3	5363.7	5374.7	5363.7
7.5°	5732.7	5677.6	5567.5	5528.9	5523.4	5506.9	5528.9	5506.9	5484.9	5495.9	5473.9
10°	5875.9	5804.3	5683.1	5644.6	5644.6	5639.1	5661.1	5628.1	5606.0	5611.5	5600.5
12.5°	6085.1	5991.5	5859.4	5826.3	5809.8	5826.3	5831.8	5787.8	5749.2	5754.7	5738.2
15°	6338.5	6233.8	6090.6	6041.1	6030.1	6024.6	6002.5	5947.5	5897.9	5892.4	5875.9
17.5°	6613.8	6481.6	6310.9	6261.4	6211.8	6195.3	6140.2	6068.6	5991.5	5991.5	5969.5
20°	6878.1	6729.4	6525.7	6454.1	6382.5	6316.4	6222.8	6107.2	6008.0	5991.5	5969.5
22.5°	7164.5	6988.3	6751.5	6646.8	6520.2	6388.0	6228.3	6074.1	5947.5	5919.9	5903.4
25°	7483.9	7263.6	6982.8	6828.6	6624.8	6421.1	6184.3	5986.0	5837.3	5793.3	5782.3
27.5°	7836.3	7572.0	7230.6	7004.8	6707.4	6388.0	6085.1	5848.3	5666.6	5611.5	5595.0
30°	8194.3	7880.4	7456.4	7125.9	6707.4	6283.4	5903.4	5628.1	5418.8	5341.7	5330.7
32.5°	8552.2	8199.8	7660.1	7192.0	6641.3	6107.2	5666.6	5341.7	5104.9	5011.3	5033.3
35°	8981.8	8552.2	7847.3	7219.6	6531.2	5892.4	5396.8	5016.8	4774.5	4691.9	4708.4
37.5°	9427.8	8904.7	7996.0	7197.5	6377.0	5650.1	5093.9	4724.9	4422.1	4278.9	4295.4
40°	9813.3	9224.1	8100.7	7120.4	6178.8	5374.7	4796.5	4311.9	3893.4	3755.7	3739.2
42.5°	10176.8	9460.9	8155.7	7004.8	5953.0	5055.3	4372.5	3750.2	3331.7	3161.0	3166.5
45°	10556.8	9692.2	8133.7	6850.6	5672.1	4680.9	3827.3	3199.5	2830.6	2676.4	2681.9
47.5°	10991.8	9940.0	8111.7	6685.4	5330.7	4196.3	3304.1	2714.9	2395.5	2285.4	2274.4
50°	11454.4	10215.3	8084.1	6481.6	4950.7	3656.6	2786.5	2263.3	1993.5	1921.9	1905.4
52.5°	11977.5	10512.7	8067.6	6239.3	4493.6	3083.9	2323.9	1866.8	1685.1	1635.6	1630.0
55°	12605.3	10859.6	8089.7	5947.5	3942.9	2544.2	1932.9	1608.0	1486.9	1459.3	1453.8
57.5°	13370.8	11305.7	8155.7	5606.0	3364.7	2076.1	1646.6	1448.3	1371.2	1349.2	1349.2
60°	14202.3	11812.3	8276.9	5220.6	2786.5	1712.6	1459.3	1321.7	1288.6	1316.2	1316.2
62.5°	15100.0	12407.1	8491.7	4752.5	2246.8	1448.3	1310.6	1217.0	1195.0	1250.1	1255.6
65°	15931.5	12985.3	8629.3	4190.8	1784.2	1255.6	1195.0	1112.4	1123.4	1178.5	1173.0
67.5°	16443.6	13464.4	8436.6	3485.9	1415.3	1112.4	1073.8	1002.3	1029.8	1073.8	1079.4
70°	16129.7	13194.6	7483.9	2632.3	1106.9	969.2	941.7	897.6	919.7	974.7	996.8
72.5°	14593.3	11817.8	5820.8	1778.7	892.1	815.0	826.0	804.0	831.5	881.1	930.7
75°	11845.4	8932.2	3904.4	1139.9	704.9	693.9	710.4	693.9	704.9	754.4	782.0
77.5°	6184.3	4356.0	1943.9	710.4	523.2	539.7	567.2	572.7	605.8	616.8	627.8
80°	2885.6	1960.5	809.5	396.5	346.9	380.0	435.0	440.6	451.6	468.1	473.6
82.5°	941.7	589.2	374.5	214.8	198.2	214.8	280.9	335.9	341.4	374.5	374.5
85°	99.1	60.6	82.6	88.1	77.1	93.6	126.7	121.2	55.1	33.0	33.0
87.5°	27.5	22.0	27.5	27.5	22.0	22.0	16.5	5.5	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)