

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: P835988

Luminaire Tested: **ARCH3-120-740-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-120-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13123 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

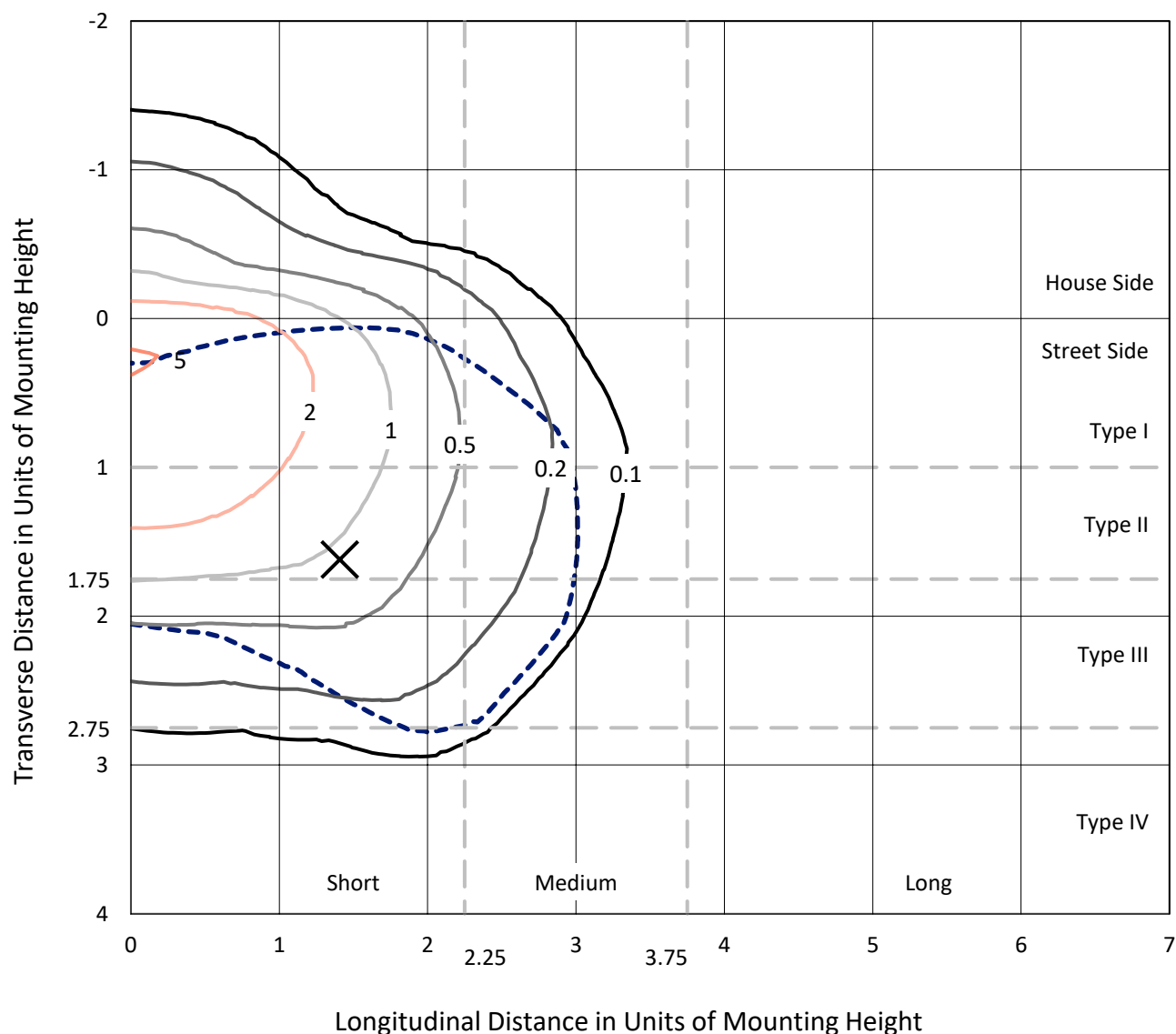
Input Watts (W): 122.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

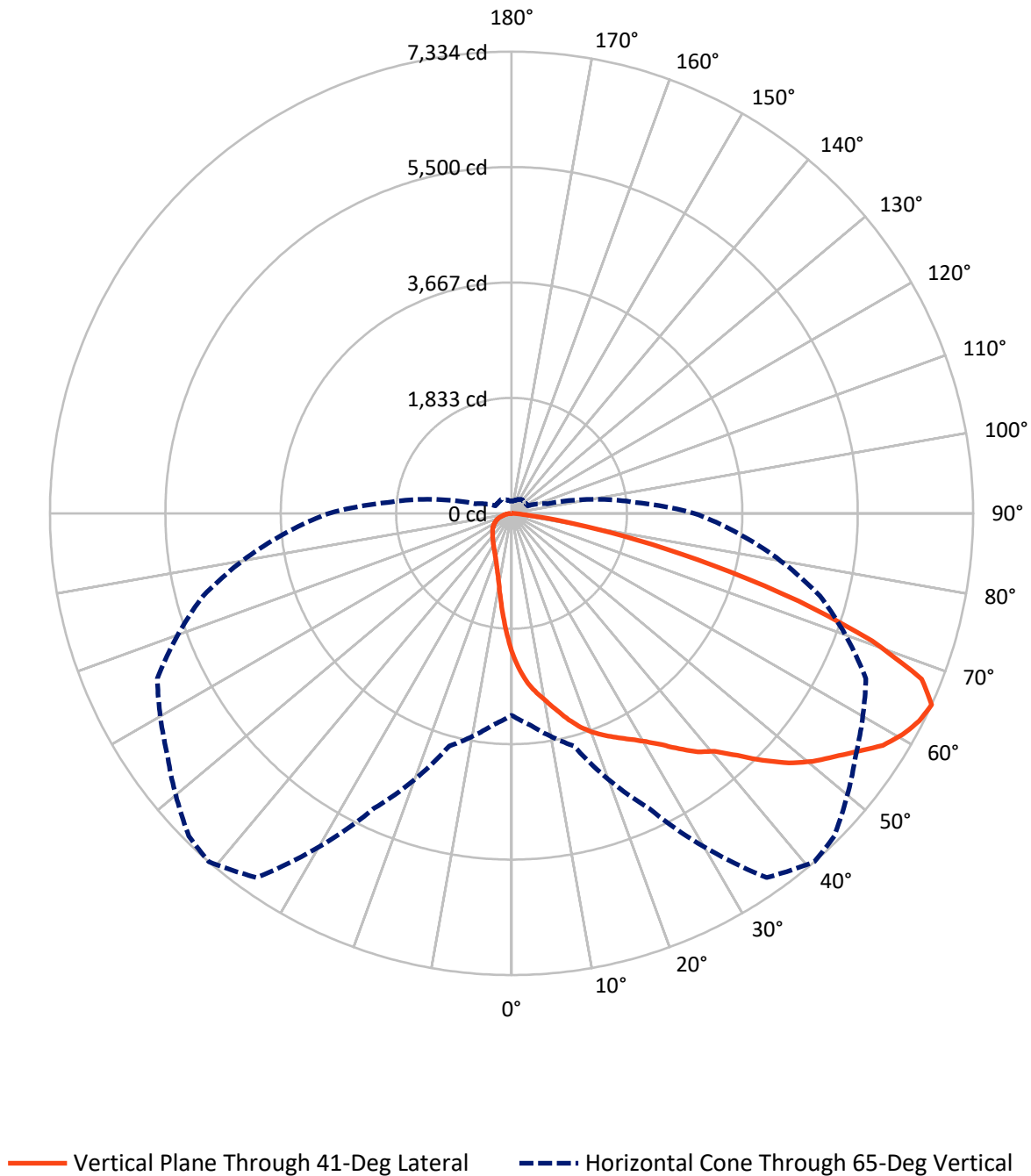
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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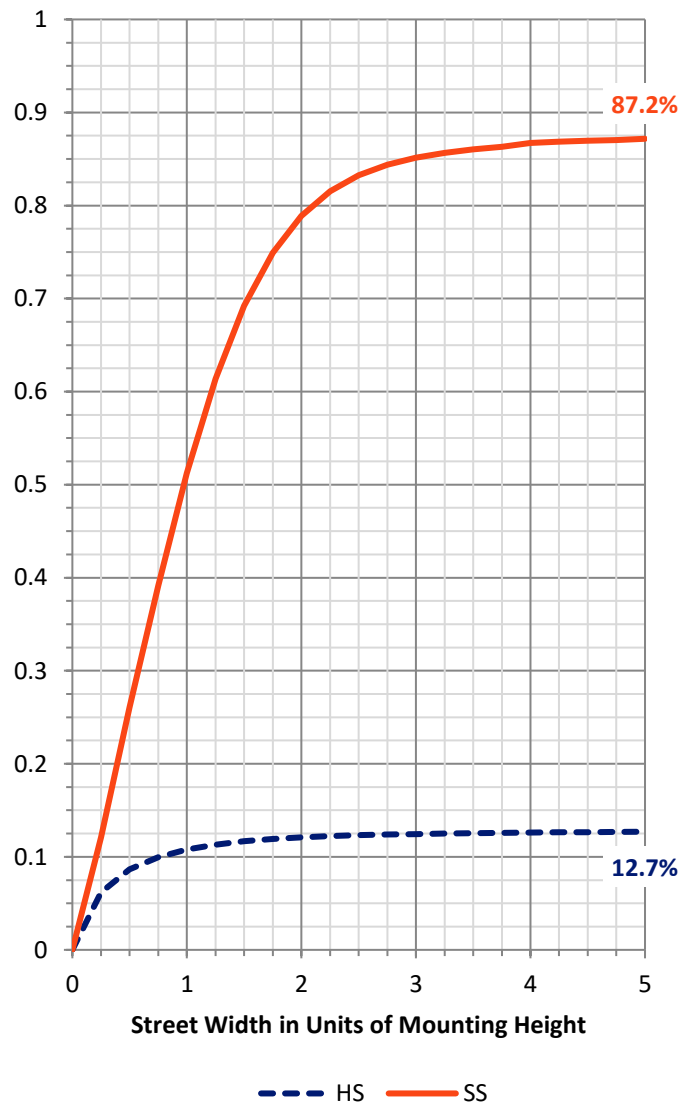
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1684.8	0.0	1684.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	11438.2	0.0	11438.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	13123.0	0.0	13123.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	1.6
10°-20°	624.7	4.8
20°-30°	1074.8	8.2
30°-40°	1630.1	12.4
40°-50°	2388.1	18.2
50°-60°	3015.6	23.0
60°-70°	2827.7	21.5
70°-80°	1260.3	9.6
80°-90°	93.4	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°	13123.0	100.0
0°-180°	13123.0	100.0

Coefficient of Utilization



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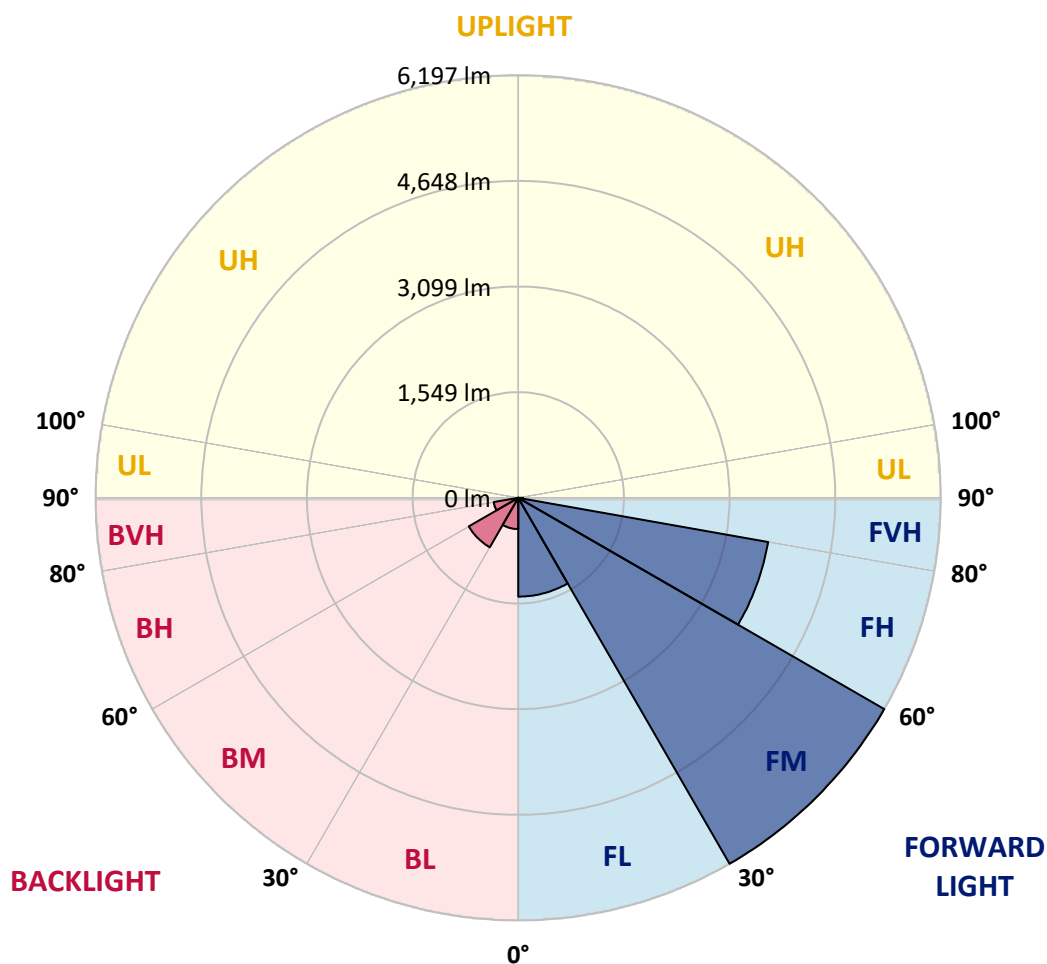
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1449.3	11.0			
FM	(30°-60°)	6197.2	47.2			
FH	(60°-80°)	3722.0	28.4			G2/5000
FVH	(80°-90°)	69.7	0.5			G1/100
BL	(0°-30°)	458.6	3.5	B1/500		
BM	(30°-60°)	836.6	6.4	B1/1000		
BH	(60°-80°)	366.0	2.8	B1/500		G1/500
BVH	(80°-90°)	23.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2579.3	2571.0	2565.4	2535.0	2535.0	2493.5	2496.2	2457.5	2410.4	2335.7	2255.5
5°	2822.8	2811.7	2797.9	2767.4	2756.4	2714.9	2709.3	2654.0	2573.7	2443.6	2299.7
7.5°	3035.9	3024.8	3005.4	2961.2	2930.7	2880.9	2867.1	2795.1	2706.6	2546.0	2344.0
10°	3229.6	3221.3	3196.4	3141.0	3099.5	3038.6	3013.7	2916.9	2806.2	2629.1	2380.0
12.5°	3426.1	3415.0	3381.8	3334.8	3284.9	3213.0	3182.6	3058.0	2916.9	2720.4	2432.6
15°	3608.7	3592.1	3567.2	3517.4	3473.1	3403.9	3370.7	3224.1	3052.5	2822.8	2501.8
17.5°	3727.7	3713.9	3691.8	3664.1	3628.1	3575.5	3542.3	3398.4	3188.1	2922.4	2573.7
20°	3799.7	3794.2	3785.9	3769.3	3752.6	3716.7	3691.8	3556.2	3334.8	3019.3	2642.9
22.5°	3855.0	3849.5	3846.7	3846.7	3849.5	3835.7	3819.1	3702.8	3475.9	3121.7	2706.6
25°	3940.8	3938.1	3932.5	3927.0	3946.4	3949.1	3943.6	3863.3	3653.0	3257.3	2786.8
27.5°	4059.8	4051.5	4040.5	4034.9	4054.3	4068.1	4079.2	4023.9	3841.2	3395.6	2878.1
30°	4242.5	4217.6	4189.9	4170.5	4184.4	4206.5	4231.4	4198.2	4034.9	3567.2	2972.2
32.5°	4458.3	4427.9	4364.3	4328.3	4364.3	4380.9	4400.2	4383.6	4236.9	3752.6	3066.3
35°	4721.3	4685.3	4618.9	4566.3	4629.9	4593.9	4585.6	4569.0	4427.9	3935.3	3171.5
37.5°	5158.5	5105.9	5000.8	4884.5	4884.5	4807.0	4776.6	4726.8	4599.5	4098.6	3273.9
40°	5664.9	5595.8	5460.2	5288.6	5130.8	4970.3	4950.9	4915.0	4801.5	4286.8	3390.1
42.5°	6221.2	6088.4	5900.2	5692.6	5438.0	5255.4	5211.1	5108.7	4998.0	4477.7	3506.3
45°	6838.3	6561.6	6287.6	6182.5	5761.8	5595.8	5512.7	5327.3	5202.8	4677.0	3628.1
47.5°	6938.0	6722.1	6539.5	6522.9	6063.5	5925.1	5831.0	5565.3	5424.2	4890.1	3755.4
50°	6882.6	6752.6	6771.9	6705.5	6284.9	6193.5	6121.6	5819.9	5642.8	5094.9	3871.6
52.5°	6650.2	6722.1	6832.8	6711.0	6495.2	6420.5	6384.5	6093.9	5847.6	5283.0	3976.8
55°	6373.4	6423.2	6661.2	6810.7	6738.7	6672.3	6639.1	6412.2	6049.6	5440.8	4073.7
57.5°	5969.4	5947.2	6210.1	6794.1	6993.3	6954.6	6918.6	6724.9	6237.8	5554.2	4134.6
60°	5363.3	5316.3	5648.3	6462.0	7076.3	7137.2	7120.6	6932.4	6381.7	5551.5	4109.6
62.5°	4314.4	4430.7	4890.1	5919.6	7112.3	7267.3	7236.9	6949.0	6428.8	5391.0	3951.9
65°	3207.5	3373.5	3824.6	5172.3	7062.5	7333.7	7250.7	6677.8	6210.1	5072.7	3606.0
67.5°	2310.8	2457.5	2786.8	4256.3	6583.7	7029.3	6932.4	6235.0	5706.5	4621.6	3127.2
70°	1580.2	1685.4	1909.5	3099.5	5620.7	6077.3	6016.4	5573.6	4912.2	4084.7	2540.5
72.5°	1115.3	1159.6	1303.5	2045.1	4270.2	4768.3	4696.3	4585.6	3946.4	3395.6	1976.0
75°	835.8	863.4	940.9	1322.8	2880.9	3304.3	3237.9	3301.6	2947.3	2571.0	1439.1
77.5°	315.5	343.2	534.1	844.1	1704.7	2028.5	1962.1	2000.9	1638.3	1297.9	716.8
80°	85.8	91.3	177.1	401.3	774.9	1010.1	918.8	788.7	608.8	597.8	379.1
82.5°	36.0	41.5	80.3	215.9	276.7	276.7	232.5	287.8	232.5	279.5	182.7
85°	13.8	16.6	19.4	55.3	36.0	38.7	41.5	55.3	47.0	58.1	41.5
87.5°	0.0	0.0	0.0	2.8	2.8	5.5	2.8	5.5	8.3	8.3	8.3
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°	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1	2236.1
2.5°	2222.3	2191.8	2147.5	2075.6	2000.9	1959.3	1906.8	1898.5	1843.1	1837.6	1815.4
5°	2236.1	2172.4	2059.0	1920.6	1785.0	1679.8	1602.3	1560.8	1480.6	1480.6	1458.4
7.5°	2247.2	2147.5	1964.9	1760.1	1574.7	1433.5	1328.4	1284.1	1212.1	1206.6	1190.0
10°	2249.9	2117.1	1862.5	1596.8	1369.9	1226.0	1123.6	1073.8	1010.1	1004.6	993.5
12.5°	2272.1	2100.5	1771.2	1455.7	1223.2	1068.2	968.6	927.1	877.3	871.7	860.7
15°	2308.0	2100.5	1693.7	1336.7	1093.1	949.2	863.4	824.7	788.7	783.2	777.7
17.5°	2344.0	2095.0	1616.2	1226.0	985.2	855.1	780.4	750.0	722.3	719.5	714.0
20°	2377.2	2092.2	1538.7	1131.9	902.2	777.7	719.5	691.9	669.7	669.7	667.0
22.5°	2410.4	2086.6	1464.0	1043.3	830.2	719.5	669.7	639.3	622.7	622.7	619.9
25°	2460.3	2086.6	1394.8	968.6	772.1	675.3	625.4	603.3	589.5	586.7	586.7
27.5°	2518.4	2103.3	1333.9	902.2	722.3	631.0	592.2	570.1	553.5	548.0	550.7
30°	2582.0	2117.1	1278.6	844.1	675.3	597.8	556.3	534.1	517.5	512.0	514.7
32.5°	2645.7	2133.7	1228.7	791.5	628.2	567.3	525.8	500.9	484.3	481.5	481.5
35°	2714.9	2150.3	1178.9	747.2	589.5	536.9	498.1	470.5	459.4	453.9	456.6
37.5°	2784.0	2178.0	1131.9	705.7	561.8	509.2	473.2	445.6	437.3	434.5	434.5
40°	2867.1	2219.5	1112.5	678.0	536.9	484.3	453.9	426.2	417.9	417.9	417.9
42.5°	2936.3	2252.7	1095.9	647.6	517.5	462.2	434.5	412.3	406.8	404.0	406.8
45°	3005.4	2283.1	1073.8	619.9	492.6	440.0	417.9	395.7	390.2	390.2	390.2
47.5°	3074.6	2299.7	1043.3	592.2	470.5	420.7	401.3	381.9	376.4	376.4	376.4
50°	3130.0	2313.6	999.0	561.8	445.6	404.0	384.7	365.3	359.8	359.8	359.8
52.5°	3185.3	2316.3	952.0	525.8	420.7	384.7	368.1	348.7	343.2	340.4	340.4
55°	3235.1	2313.6	896.7	484.3	393.0	362.5	348.7	332.1	321.0	310.0	315.5
57.5°	3271.1	2310.8	833.0	442.8	365.3	340.4	334.9	312.7	290.6	262.9	268.4
60°	3257.3	2280.4	763.8	390.2	334.9	318.3	318.3	287.8	249.1	235.2	238.0
62.5°	3168.7	2194.6	691.9	334.9	304.4	296.1	293.3	260.1	229.7	215.9	218.6
65°	2903.0	1978.7	586.7	285.0	274.0	271.2	271.2	240.8	213.1	196.5	199.3
67.5°	2499.0	1660.5	478.8	240.8	243.5	249.1	249.1	221.4	193.7	177.1	179.9
70°	2003.6	1297.9	381.9	207.6	210.3	218.6	224.2	199.3	174.3	157.7	157.7
72.5°	1508.3	985.2	307.2	174.3	188.2	188.2	196.5	177.1	152.2	135.6	138.4
75°	1093.1	705.7	243.5	146.7	163.3	160.5	160.5	149.4	130.1	119.0	119.0
77.5°	517.5	370.8	193.7	105.2	127.3	124.5	127.3	119.0	110.7	99.6	102.4
80°	254.6	182.7	124.5	74.7	88.6	91.3	99.6	94.1	91.3	83.0	83.0
82.5°	121.8	72.0	58.1	52.6	60.9	63.7	69.2	69.2	72.0	66.4	66.4
85°	33.2	19.4	24.9	33.2	38.7	41.5	47.0	49.8	49.8	47.0	49.8
87.5°	8.3	8.3	11.1	16.6	19.4	22.1	24.9	24.9	11.1	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)