

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: P840969

Luminaire Tested: **ARCH4-110-740-U-T3-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-740-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13580 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112.6
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



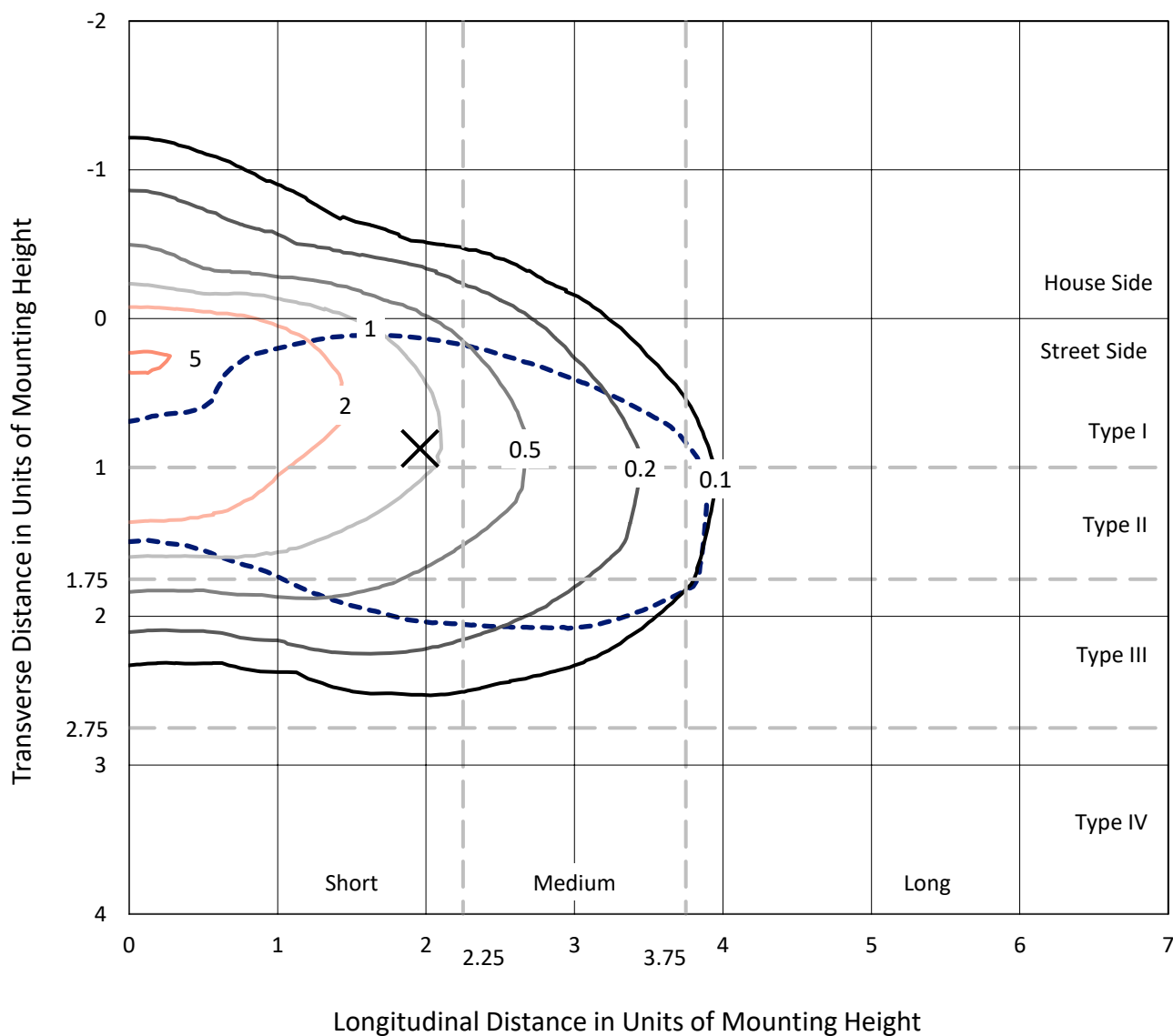
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

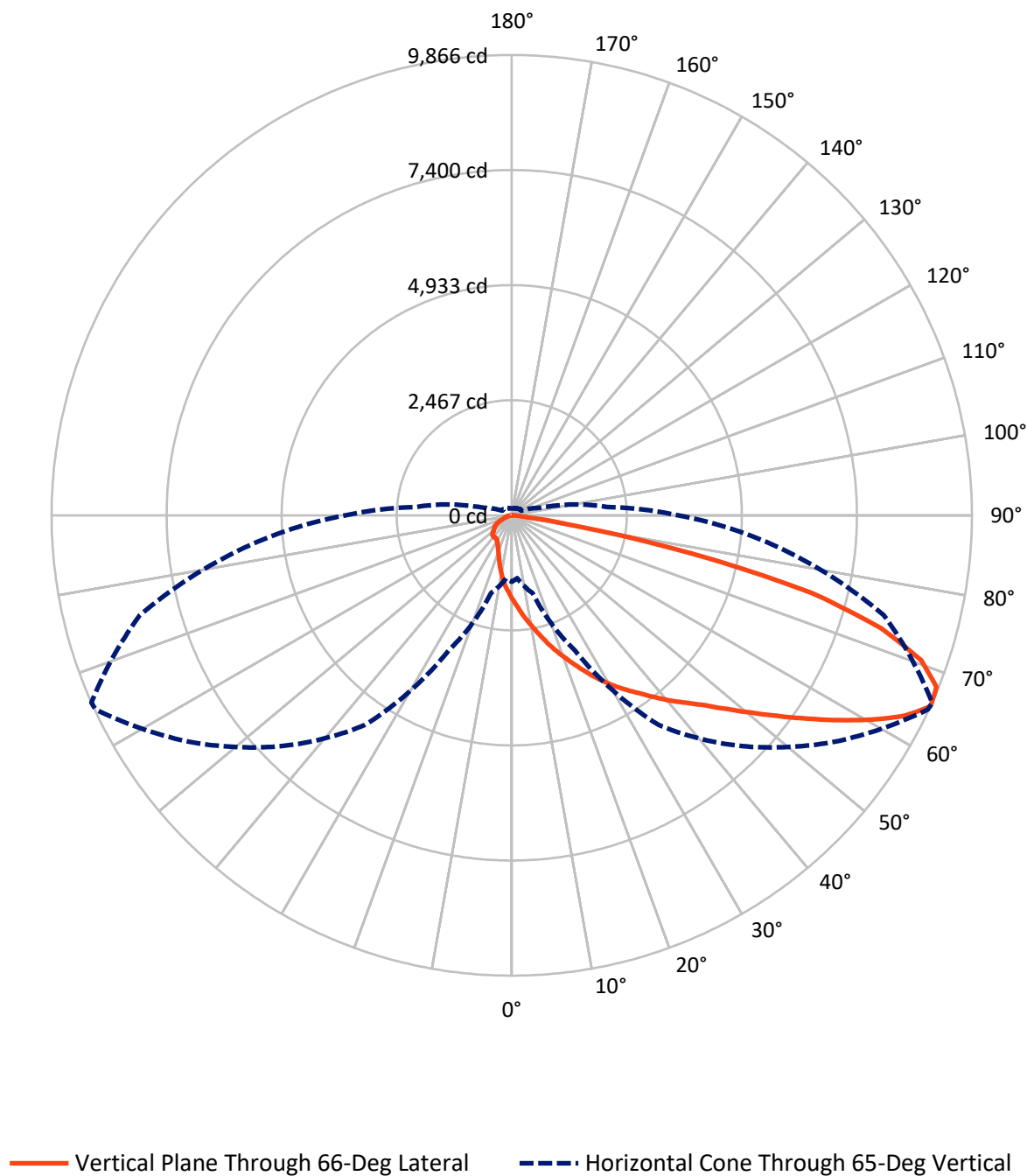


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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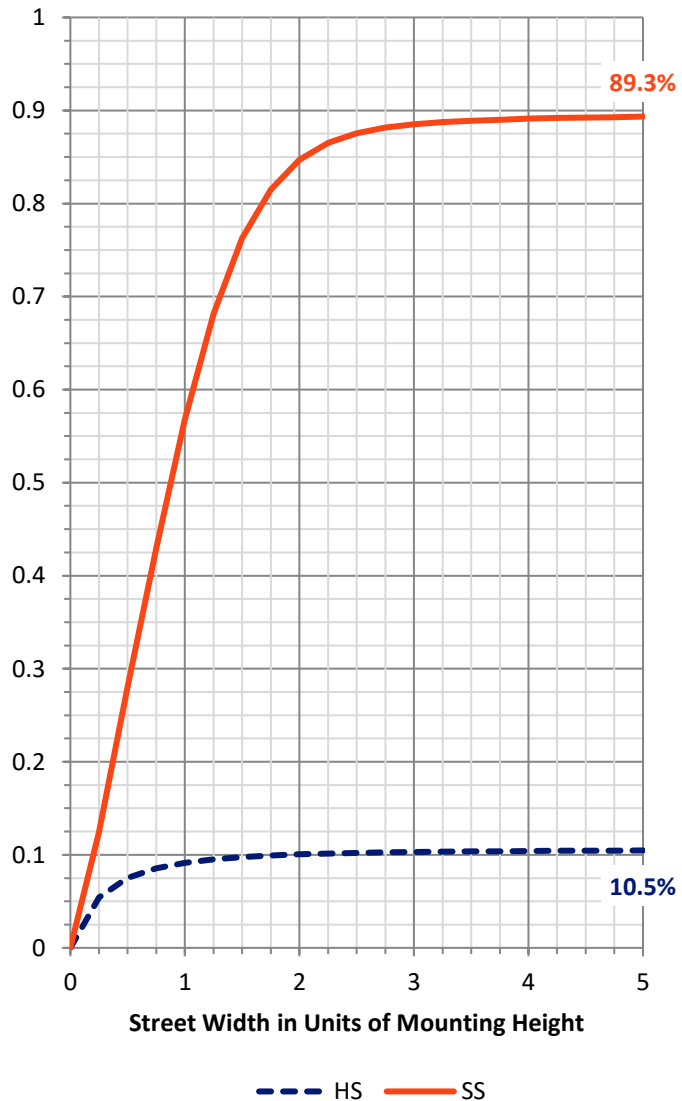
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.4	0.0	1436.4
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	12143.6	0.0	12143.6
	% Fixture	89.4	0.0	89.4
Total	Lumens	13580.0	0.0	13580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	1.3
10°-20°	578.2	4.3
20°-30°	1046.1	7.7
30°-40°	1635.8	12.0
40°-50°	2481.4	18.3
50°-60°	3152.8	23.2
60°-70°	2945.9	21.7
70°-80°	1464.1	10.8
80°-90°	98.4	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°	13580.0	100.0
0°-180°	13580.0	100.0

Coefficient of Utilization



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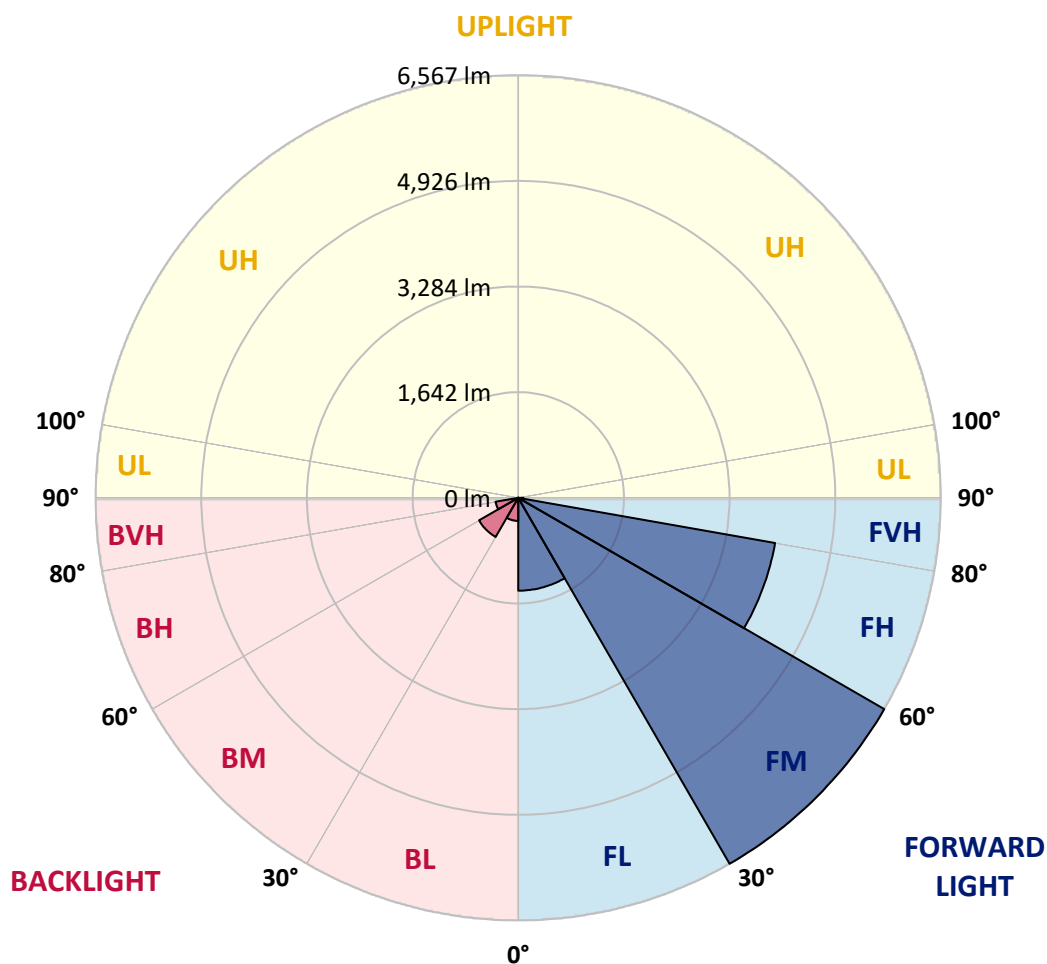
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1442.9	10.6			
FM	(30°-60°)	6567.4	48.4			
FH	(60°-80°)	4052.3	29.8			G2/5000
FVH	(80°-90°)	81.0	0.6			G1/100
BL	(0°-30°)	358.7	2.6	B1/500		
BM	(30°-60°)	702.5	5.2	B1/1000		
BH	(60°-80°)	357.7	2.6	B1/500		G1/500
BVH	(80°-90°)	17.4	0.1			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°	45°	55°	65°	66°	75°	85°
0°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	2099.2	2116.2	2124.8	2127.6	2062.1	2033.6	2005.2	1939.7	1925.4	1888.4	1840.0
5°	2469.4	2492.2	2486.5	2475.1	2395.4	2304.2	2230.2	2107.7	2087.8	1999.5	1891.2
7.5°	2834.0	2853.9	2848.2	2805.5	2717.2	2589.0	2466.6	2287.1	2258.7	2116.2	1942.5
10°	3138.8	3155.8	3153.0	3110.3	3004.9	2848.2	2700.1	2460.9	2426.7	2224.5	1985.2
12.5°	3389.4	3412.2	3409.3	3380.9	3286.9	3116.0	2947.9	2660.3	2617.5	2355.5	2045.0
15°	3585.9	3614.4	3614.4	3603.0	3537.5	3395.1	3204.3	2879.6	2828.3	2506.4	2119.1
17.5°	3705.6	3728.3	3748.3	3768.2	3722.6	3614.4	3440.7	3098.9	3044.8	2654.6	2196.0
20°	3768.2	3791.0	3805.2	3848.0	3856.5	3802.4	3665.7	3315.3	3258.4	2822.6	2284.3
22.5°	3870.8	3890.7	3893.5	3930.6	3947.7	3961.9	3876.5	3529.0	3483.4	3007.7	2384.0
25°	4041.7	4064.4	4055.9	4073.0	4075.8	4092.9	4084.4	3773.9	3728.3	3218.5	2503.6
27.5°	4261.0	4289.4	4283.8	4266.7	4241.0	4226.8	4263.8	4021.7	3979.0	3429.3	2626.1
30°	4497.4	4531.5	4523.0	4488.8	4420.5	4360.7	4411.9	4255.3	4215.4	3645.7	2762.8
32.5°	4736.6	4776.5	4773.6	4716.7	4599.9	4497.4	4574.3	4474.6	4446.1	3879.3	2910.9
35°	4893.3	4944.5	4938.8	4904.7	4753.7	4665.4	4759.4	4699.6	4679.7	4164.1	3124.5
37.5°	5146.8	5200.9	5152.5	5067.0	4893.3	4847.7	4961.6	4953.1	4938.8	4466.0	3349.5
40°	5762.0	5841.7	5713.6	5363.2	5078.4	5038.5	5200.9	5235.1	5220.8	4765.1	3551.8
42.5°	6405.7	6525.3	6325.9	5841.7	5414.5	5269.2	5462.9	5511.3	5494.3	5021.4	3734.0
45°	6795.9	6847.2	6647.8	6271.8	6009.8	5548.4	5742.0	5821.8	5807.6	5329.1	3967.6
47.5°	7114.9	7095.0	6867.1	6613.6	6662.0	5941.4	6058.2	6214.9	6203.5	5668.0	4223.9
50°	7183.3	7137.7	7046.5	6887.0	7015.2	6340.2	6391.4	6662.0	6650.6	6044.0	4483.1
52.5°	6701.9	6642.1	6889.9	7023.8	6981.0	6630.7	6758.9	7151.9	7146.2	6451.3	4730.9
55°	5499.9	5451.5	6118.0	6810.1	6944.0	6835.8	7166.2	7661.8	7693.1	6884.2	4955.9
57.5°	4326.5	4275.2	4930.3	6274.7	6807.3	7023.8	7641.8	8245.7	8285.5	7354.2	5169.6
60°	3449.2	3372.3	3873.6	5431.6	6550.9	7169.0	8100.4	8886.5	8892.2	7784.2	5300.6
62.5°	2344.1	2258.7	2814.1	4363.5	6120.9	7191.8	8453.6	9439.1	9461.8	8106.1	5323.4
65°	1424.1	1352.9	1728.9	3187.2	5485.7	6998.1	8459.3	9846.4	9866.3	8254.2	5186.6
67.5°	826.0	797.5	988.3	1985.2	4431.9	6476.9	8103.2	9783.7	9820.7	8191.5	4876.2
70°	481.4	478.5	549.7	982.6	3127.4	5443.0	7308.6	9256.8	9310.9	7864.0	4400.5
72.5°	353.2	358.9	387.4	526.9	1811.5	3919.2	6189.2	8197.2	8279.8	7223.1	3722.6
75°	279.1	282.0	307.6	358.9	951.3	2215.9	4636.9	6579.4	6644.9	6081.0	2908.1
77.5°	207.9	213.6	233.6	253.5	441.5	1016.8	2609.0	4053.0	3944.8	3338.1	1404.2
80°	151.0	165.2	173.7	182.3	233.6	393.1	783.3	1412.7	1401.3	1458.3	663.6
82.5°	96.8	108.2	116.8	122.5	139.6	188.0	233.6	316.2	341.8	566.8	264.9
85°	42.7	48.4	54.1	65.5	59.8	65.5	96.8	62.7	54.1	85.4	48.4
87.5°	0.0	0.0	8.5	14.2	11.4	5.7	17.1	11.4	8.5	8.5	8.5
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°	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2	1797.2
2.5°	1814.3	1783.0	1717.5	1654.8	1617.8	1569.4	1526.7	1486.8	1483.9	1472.5	1452.6
5°	1837.1	1777.3	1654.8	1538.0	1449.8	1355.8	1276.0	1213.3	1190.6	1173.5	1150.7
7.5°	1859.9	1765.9	1583.6	1412.7	1273.2	1142.1	1048.2	962.7	937.1	914.3	900.0
10°	1868.4	1746.0	1501.0	1273.2	1090.9	951.3	851.6	789.0	766.2	754.8	746.2
12.5°	1894.1	1734.6	1424.1	1142.1	931.4	803.2	732.0	695.0	686.4	677.9	669.3
15°	1928.3	1734.6	1347.2	1014.0	806.1	703.5	660.8	635.2	629.5	626.6	620.9
17.5°	1965.3	1734.6	1273.2	905.7	714.9	638.0	606.7	592.4	589.6	586.7	583.9
20°	2016.6	1737.4	1193.4	811.7	649.4	589.6	564.0	546.9	544.0	541.2	541.2
22.5°	2067.8	1743.1	1116.5	740.5	606.7	552.6	521.2	504.1	498.4	498.4	498.4
25°	2133.3	1760.2	1045.3	680.7	569.6	518.4	478.5	464.3	461.4	461.4	458.6
27.5°	2210.2	1780.1	982.6	635.2	532.6	478.5	438.6	424.4	418.7	418.7	415.8
30°	2292.8	1800.1	931.4	601.0	495.6	438.6	401.6	384.5	378.8	381.7	378.8
32.5°	2384.0	1828.6	891.5	578.2	461.4	404.4	370.3	350.3	347.5	347.5	344.6
35°	2537.8	1908.3	885.8	566.8	432.9	378.8	344.6	324.7	321.9	321.9	319.0
37.5°	2703.0	1999.5	911.4	561.1	410.1	356.0	324.7	304.8	301.9	301.9	301.9
40°	2842.5	2067.8	939.9	561.1	395.9	336.1	307.6	290.5	290.5	290.5	290.5
42.5°	2936.5	2073.5	934.2	561.1	384.5	321.9	296.2	279.1	279.1	282.0	279.1
45°	3076.1	2102.0	911.4	552.6	376.0	310.5	284.8	270.6	267.7	270.6	270.6
47.5°	3241.3	2153.3	888.7	518.4	373.1	299.1	276.3	259.2	256.3	259.2	256.3
50°	3397.9	2198.8	877.3	472.8	367.4	287.7	264.9	247.8	244.9	247.8	244.9
52.5°	3529.0	2218.8	857.3	441.5	353.2	276.3	253.5	236.4	230.7	233.6	233.6
55°	3634.4	2213.1	828.8	415.8	327.5	264.9	239.3	225.0	216.5	216.5	213.6
57.5°	3731.2	2215.9	803.2	390.2	299.1	247.8	227.9	210.8	199.4	196.5	193.7
60°	3768.2	2201.7	757.6	356.0	270.6	233.6	213.6	193.7	182.3	179.4	176.6
62.5°	3717.0	2150.4	697.8	296.2	244.9	216.5	199.4	179.4	168.0	165.2	162.3
65°	3571.7	2053.6	606.7	233.6	222.2	196.5	182.3	168.0	153.8	148.1	145.3
67.5°	3323.9	1914.0	492.7	188.0	196.5	179.4	170.9	153.8	136.7	131.0	128.2
70°	2970.7	1728.9	370.3	159.5	173.7	159.5	153.8	136.7	122.5	116.8	113.9
72.5°	2475.1	1429.8	259.2	136.7	151.0	139.6	133.9	122.5	108.2	99.7	99.7
75°	1871.3	1025.4	170.9	116.8	125.3	119.6	111.1	102.5	94.0	88.3	85.4
77.5°	806.1	398.8	105.4	88.3	102.5	99.7	88.3	82.6	79.8	74.1	74.1
80°	347.5	162.3	65.5	65.5	74.1	71.2	68.4	62.7	62.7	59.8	57.0
82.5°	128.2	65.5	39.9	48.4	54.1	48.4	48.4	48.4	48.4	45.6	45.6
85°	31.3	19.9	19.9	28.5	31.3	28.5	31.3	28.5	28.5	28.5	25.6
87.5°	8.5	8.5	11.4	11.4	11.4	11.4	11.4	8.5	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)