

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: P1211416

Luminaire Tested: **ARCH4-270-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211416
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-270-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1045mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

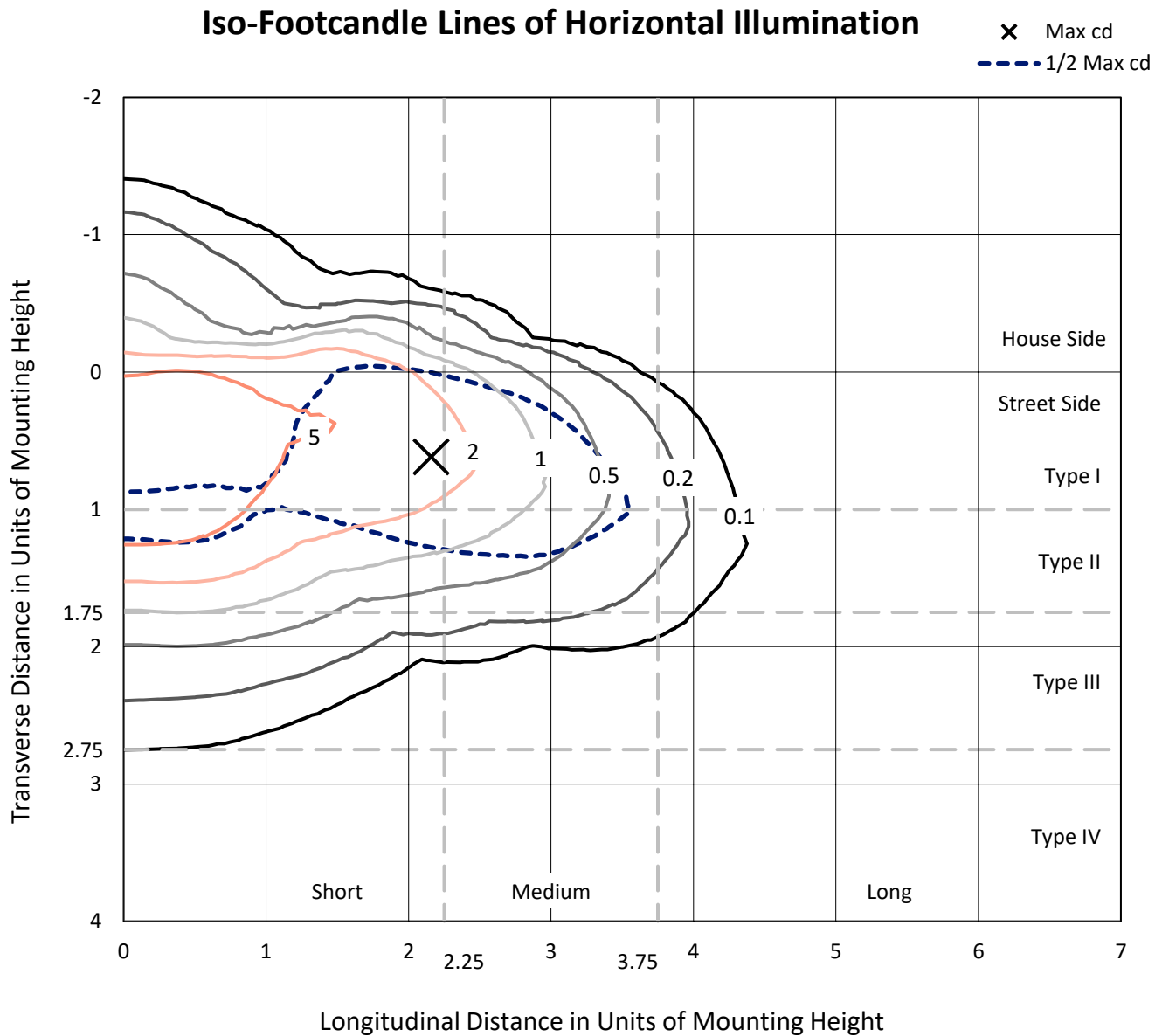
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25768 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 269
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

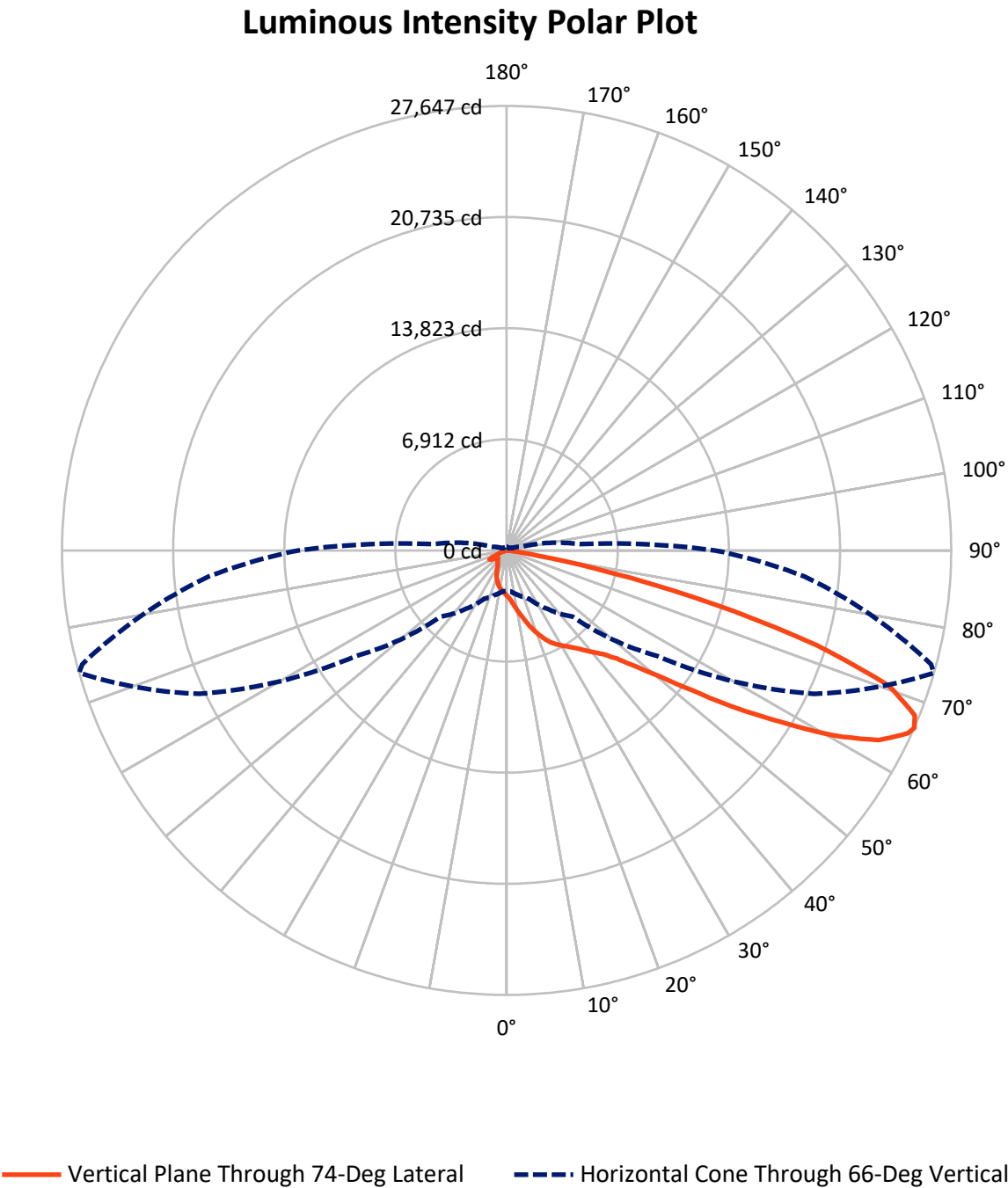


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Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Short - N/A

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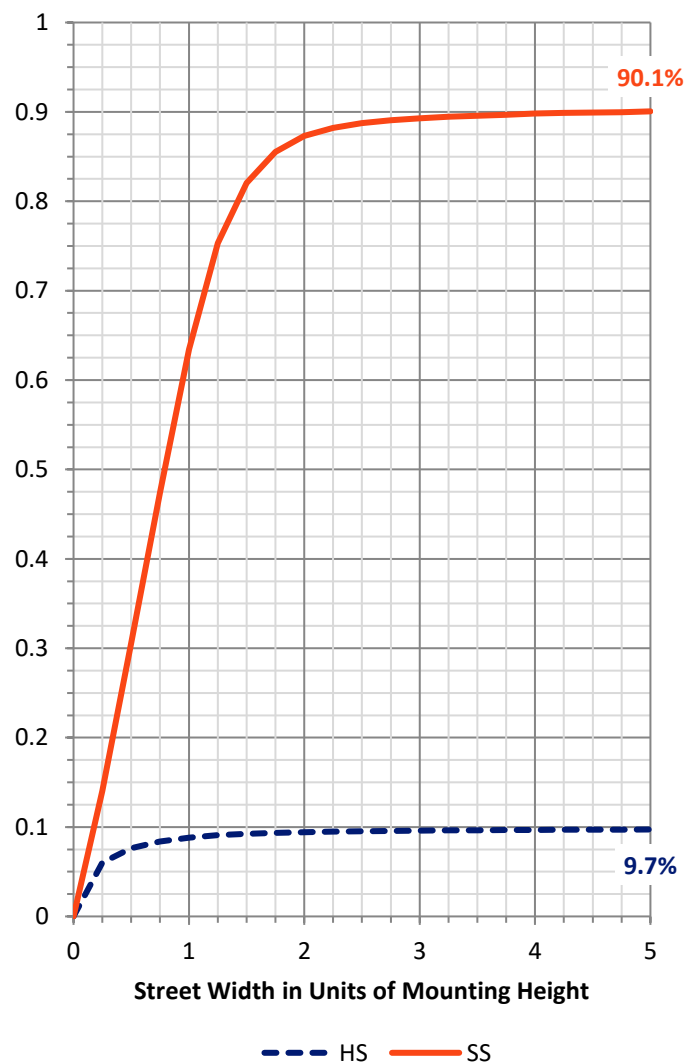
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2526.1	0.0	2526.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	23241.9	0.0	23241.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	25768.0	0.0	25768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	1.1
10°-20°	880.2	3.4
20°-30°	1679.7	6.5
30°-40°	2944.1	11.4
40°-50°	5048.4	19.6
50°-60°	6565.9	25.5
60°-70°	5943.7	23.1
70°-80°	2293.4	8.9
80°-90°	138.0	0.5
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°	25768.0	100.0
0°-180°	25768.0	100.0

Coefficient of Utilization



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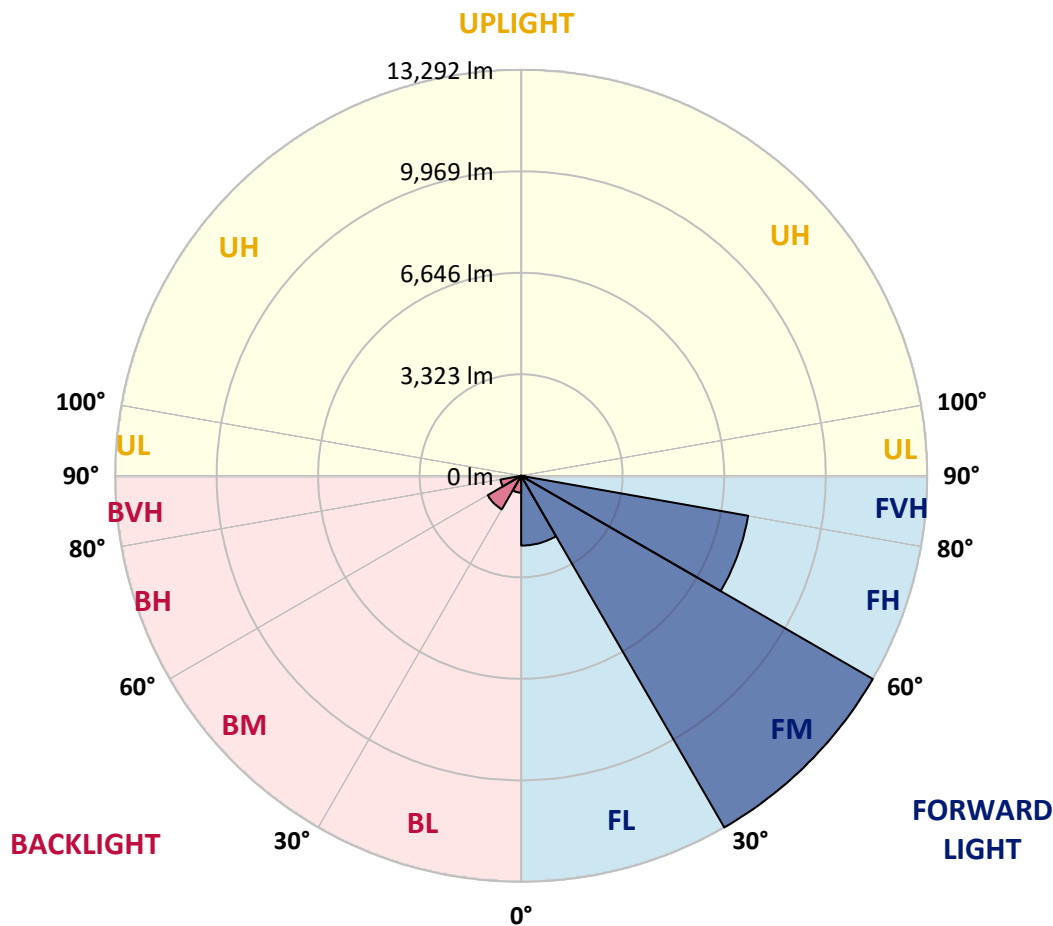
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2283.4	8.9			
FM	(30°-60°)	13292.4	51.6			
FH	(60°-80°)	7546.6	29.3			G4/12000
FVH	(80°-90°)	119.5	0.5			G2/225
BL	(0°-30°)	551.0	2.1	B2/1000		
BM	(30°-60°)	1266.0	4.9	B2/2500		
BH	(60°-80°)	690.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	18.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	3377.2	3349.5	3298.6	3293.9	3252.3	3201.4	3113.5	3021.0	2956.2	2947.0	2868.3
5°	4043.4	4029.5	3978.6	3946.2	3867.6	3747.3	3543.8	3340.2	3169.0	3150.5	2974.7
7.5°	4219.2	4228.5	4237.7	4270.1	4242.3	4186.8	4034.1	3747.3	3479.0	3437.4	3132.0
10°	4247.0	4237.7	4237.7	4279.3	4358.0	4436.6	4418.1	4172.9	3826.0	3775.1	3349.5
12.5°	4547.7	4561.5	4529.2	4510.7	4496.8	4538.4	4677.2	4570.8	4191.4	4149.8	3613.2
15°	4936.3	4931.7	4885.4	4885.4	4843.8	4774.4	4862.3	4940.9	4630.9	4580.1	3913.9
17.5°	5218.5	5237.0	5232.4	5260.1	5246.2	5153.7	5107.5	5269.4	5084.3	5019.6	4256.2
20°	5445.2	5496.1	5514.6	5602.5	5644.1	5579.3	5459.1	5560.8	5519.2	5459.1	4603.2
22.5°	5685.7	5727.4	5759.8	5912.4	6028.1	6014.2	5861.5	5838.4	5940.2	5884.7	4945.5
25°	5926.3	5944.8	6042.0	6227.0	6412.1	6458.3	6301.0	6120.6	6319.5	6268.7	5250.9
27.5°	6190.0	6199.3	6314.9	6541.6	6800.7	6897.8	6772.9	6439.8	6611.0	6611.0	5528.4
30°	6671.1	6763.7	6809.9	7013.5	7240.2	7374.3	7226.3	6777.6	6870.1	6911.7	5819.9
32.5°	7707.4	7721.3	7707.4	7795.3	7841.6	7920.3	7749.1	7156.9	7133.8	7180.0	6106.7
35°	9289.6	9234.1	9086.1	8956.5	8688.2	8540.2	8318.1	7642.7	7457.6	7522.4	6388.9
37.5°	11209.6	11130.9	10793.2	10395.3	9821.7	9229.5	8951.9	8234.8	7869.4	7952.6	6694.3
40°	13041.6	12990.7	12588.2	12097.8	11117.0	10103.9	9516.3	8734.5	8327.4	8359.8	7004.2
42.5°	14549.8	14540.5	14202.8	13689.3	12430.9	11047.6	10182.5	9224.9	8808.5	8859.4	7328.1
45°	15692.5	15604.6	15354.7	14984.6	13703.1	12028.4	10987.5	9969.7	9581.1	9641.2	7813.8
47.5°	15692.5	15706.3	15868.3	15831.3	14591.4	12949.1	11866.5	10908.9	10723.8	10779.3	8614.2
50°	14415.6	14545.1	15266.8	15872.9	15054.0	13666.1	12814.9	12083.9	12273.6	12356.9	10011.3
52.5°	11889.6	12107.1	13360.8	14744.1	14711.7	14027.0	13795.7	13578.2	14429.5	14577.5	12074.7
55°	9035.2	9178.6	10811.7	12629.8	13222.0	13730.9	14651.5	15475.0	17283.9	17251.5	14170.4
57.5°	6749.8	6884.0	8290.4	10307.4	11089.3	12449.4	15091.0	17644.8	20115.2	20240.1	16136.6
60°	4964.0	5065.8	6264.0	7920.3	9049.1	10487.9	14915.2	19782.1	23376.8	23233.4	17871.5
62.5°	3673.3	3728.8	4593.9	5671.9	7170.8	8544.8	13809.6	21244.0	25981.4	25689.9	18838.4
65°	2840.6	2859.1	3307.8	3881.5	5213.9	6643.4	12162.6	21466.1	27420.2	27110.2	18819.9
66°	2530.6	2544.5	2872.9	3317.1	4436.6	5815.3	11440.9	21109.9	27646.9	27318.4	18588.5
67.5°	2123.5	2114.2	2308.5	2600.0	3330.9	4487.5	10159.4	20069.0	27378.5	27212.0	17848.3
70°	1572.9	1577.6	1674.7	1744.1	1947.7	2484.3	7337.3	17408.8	25231.9	25222.7	15817.4
72.5°	1165.8	1179.7	1253.7	1267.6	1216.7	1346.3	4228.5	13846.6	20184.6	20189.2	11824.9
75°	874.4	897.5	920.6	929.9	883.6	851.2	1910.7	9317.4	13277.5	13180.4	6694.3
77.5°	666.2	675.4	693.9	680.1	670.8	587.5	795.7	4543.0	6555.5	5972.6	2169.7
80°	485.8	485.8	504.3	485.8	481.1	421.0	434.9	1457.3	1924.5	1600.7	467.3
82.5°	305.3	300.7	314.6	310.0	300.7	268.3	254.4	407.1	444.1	397.9	226.7
85°	171.2	166.5	161.9	157.3	143.4	120.3	138.8	152.7	203.6	208.2	161.9
87.5°	60.1	60.1	55.5	50.9	41.6	41.6	50.9	50.9	74.0	74.0	83.3
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°	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8	2812.8
2.5°	2831.3	2780.4	2706.4	2609.2	2539.8	2470.5	2396.4	2354.8	2294.7	2280.8	2299.3
5°	2882.2	2789.7	2604.6	2401.1	2225.3	2068.0	1919.9	1832.0	1744.1	1711.7	1725.6
7.5°	2988.6	2831.3	2516.7	2188.2	1896.8	1660.8	1485.0	1383.3	1304.6	1272.2	1281.5
10°	3145.9	2905.3	2433.4	1947.7	1572.9	1323.1	1175.1	1110.3	1064.1	1045.5	1050.2
12.5°	3335.6	3011.7	2327.0	1707.1	1295.4	1077.9	1008.5	994.7	985.4	976.2	980.8
15°	3548.4	3104.3	2202.1	1471.2	1077.9	957.6	934.5	929.9	925.3	925.3	925.3
17.5°	3770.4	3187.5	2063.3	1249.1	939.1	883.6	869.7	869.7	869.7	874.4	874.4
20°	3978.6	3252.3	1901.4	1050.2	860.5	814.2	805.0	805.0	809.6	814.2	814.2
22.5°	4182.2	3280.1	1711.7	911.4	795.7	754.1	740.2	740.2	740.2	744.8	744.8
25°	4358.0	3280.1	1522.1	823.5	740.2	698.6	680.1	675.4	680.1	680.1	680.1
27.5°	4506.0	3266.2	1337.0	763.3	684.7	643.1	624.6	619.9	629.2	633.8	633.8
30°	4663.3	3247.7	1189.0	707.8	638.4	596.8	578.3	578.3	592.2	610.7	610.7
32.5°	4816.0	3261.6	1073.3	661.6	592.2	559.8	541.3	545.9	573.7	601.4	601.4
35°	4977.9	3289.3	1003.9	629.2	559.8	527.4	513.5	527.4	555.2	582.9	582.9
37.5°	5139.8	3321.7	962.3	601.4	532.0	499.6	490.4	508.9	541.3	569.0	573.7
40°	5311.0	3349.5	916.0	573.7	513.5	476.5	471.9	490.4	532.0	559.8	564.4
42.5°	5523.8	3405.0	860.5	550.5	495.0	448.8	453.4	467.3	508.9	550.5	555.2
45°	5940.2	3580.8	805.0	527.4	471.9	434.9	425.6	434.9	481.1	527.4	536.7
47.5°	6722.0	3978.6	744.8	504.3	448.8	425.6	388.6	397.9	439.5	490.4	495.0
50°	8221.0	4825.2	712.5	481.1	430.2	393.2	351.6	351.6	384.0	430.2	430.2
52.5°	10557.3	6342.7	731.0	462.6	407.1	360.9	319.2	314.6	333.1	365.5	365.5
55°	13078.6	8008.2	800.4	444.1	379.4	342.3	296.1	273.0	286.8	305.3	305.3
57.5°	15077.2	8845.5	990.0	434.9	347.0	328.5	268.3	235.9	249.8	268.3	268.3
60°	15956.2	8355.1	1202.8	444.1	323.8	305.3	240.6	208.2	231.3	249.8	254.4
62.5°	15243.7	6879.3	1290.7	421.0	291.5	273.0	235.9	194.3	222.1	235.9	240.6
65°	13703.1	5227.7	1008.5	365.5	268.3	235.9	212.8	185.1	208.2	222.1	222.1
66°	12972.2	4556.9	860.5	337.7	259.1	222.1	203.6	185.1	203.6	212.8	217.4
67.5°	11838.7	3594.6	638.4	296.1	240.6	203.6	189.7	175.8	194.3	203.6	203.6
70°	9257.3	2142.0	384.0	231.3	208.2	180.4	171.2	161.9	175.8	180.4	180.4
72.5°	5796.8	1017.8	245.2	171.2	175.8	171.2	143.4	152.7	157.3	161.9	161.9
75°	2808.2	402.5	166.5	124.9	143.4	161.9	115.7	134.2	138.8	148.0	143.4
77.5°	781.8	194.3	106.4	92.5	124.9	124.9	87.9	106.4	124.9	157.3	143.4
80°	226.7	124.9	69.4	69.4	87.9	87.9	60.1	74.0	83.3	92.5	97.2
82.5°	157.3	83.3	46.3	50.9	50.9	55.5	37.0	37.0	46.3	46.3	50.9
85°	124.9	37.0	27.8	32.4	23.1	27.8	18.5	18.5	23.1	18.5	18.5
87.5°	50.9	18.5	18.5	18.5	13.9	13.9	9.3	4.6	4.6	4.6	4.6
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)