

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: P1211223

Luminaire Tested: **ARCH4-210-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211223
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27421 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 213.1
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



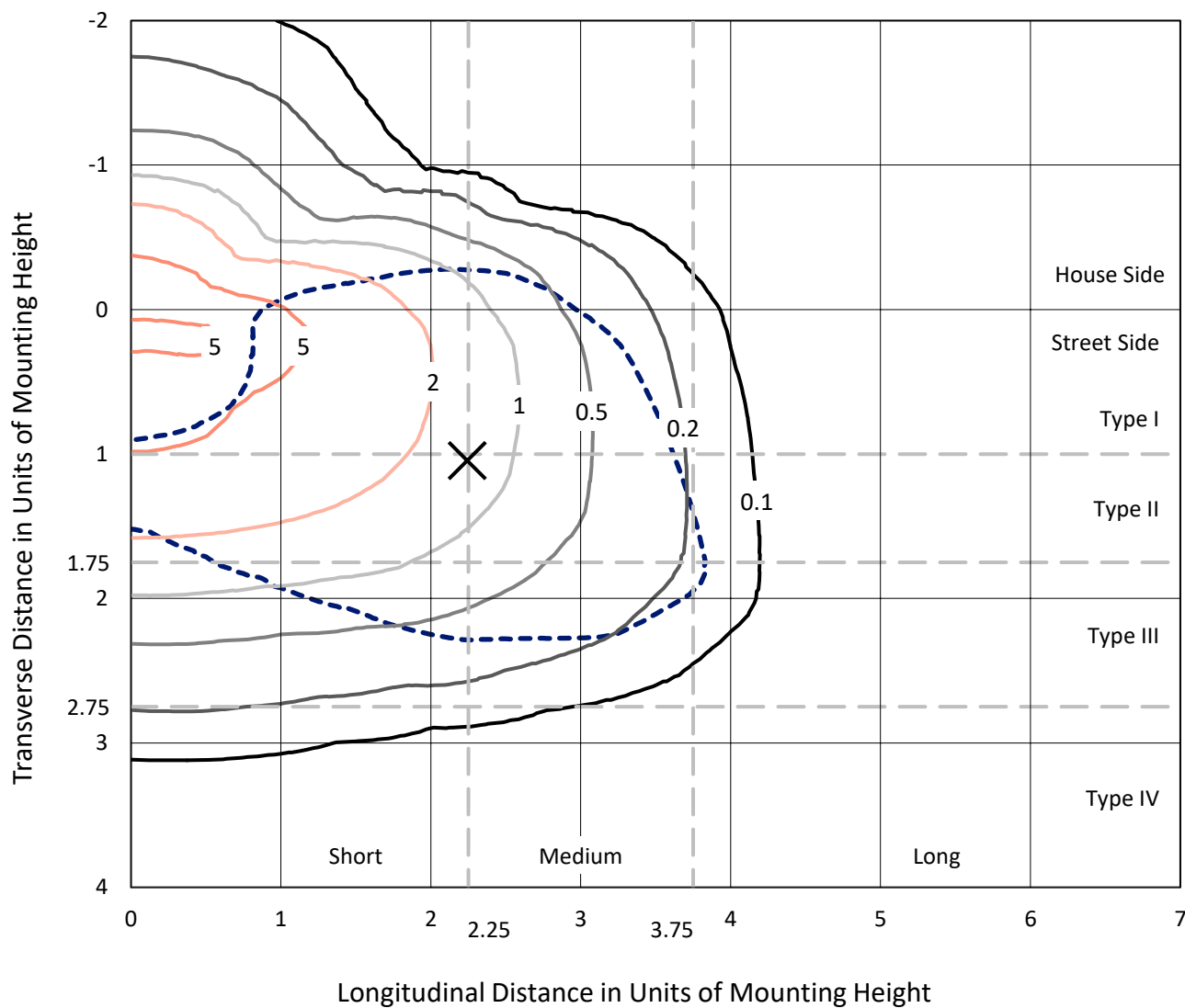
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

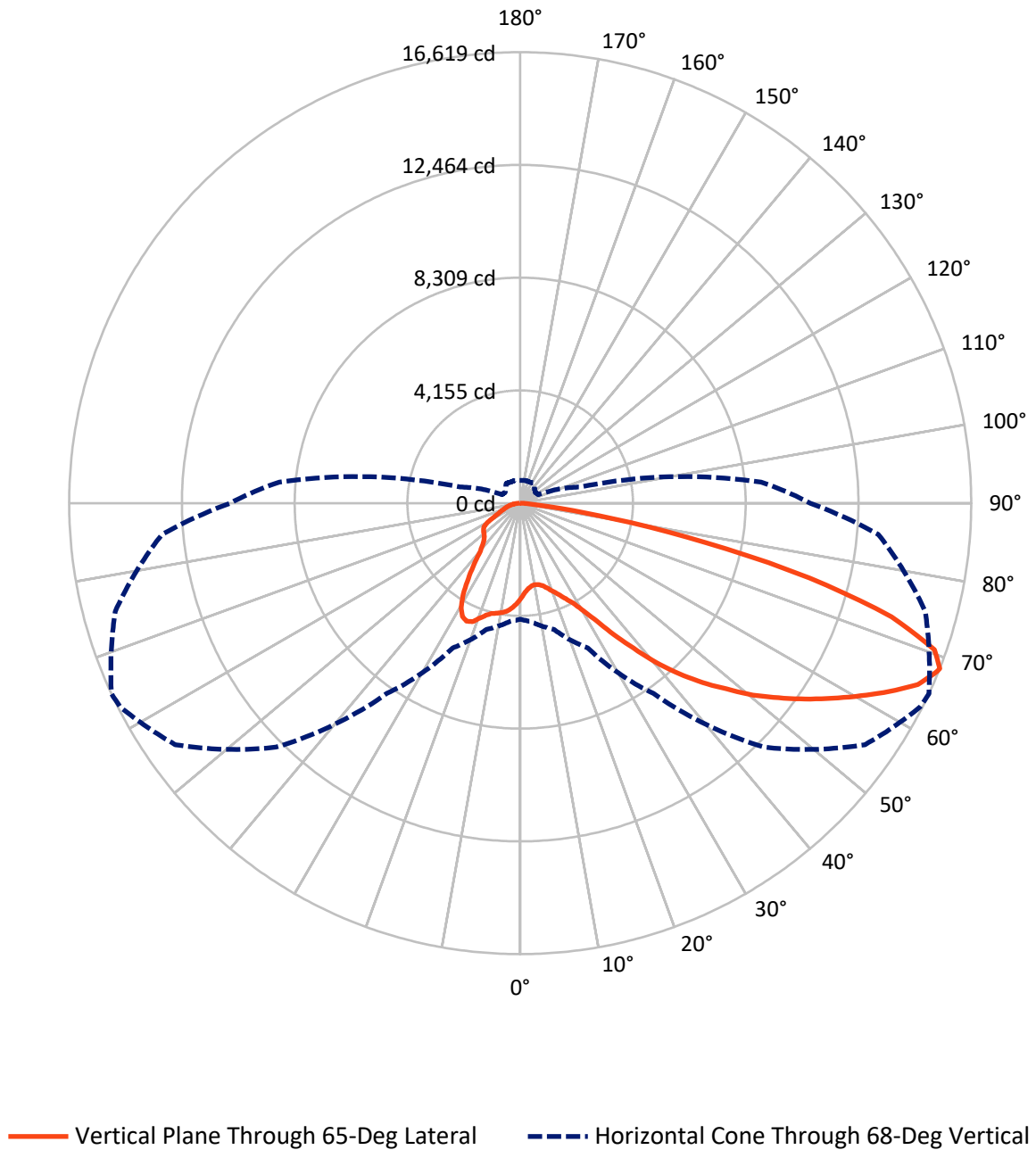


Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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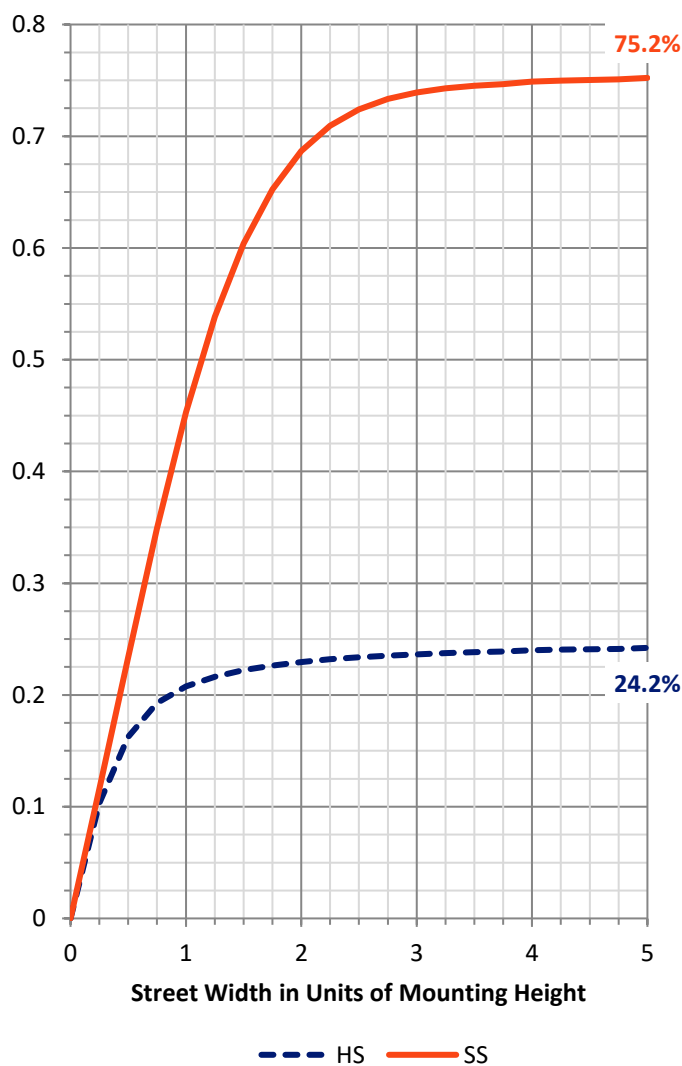
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6722.8	0.0	6722.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	20698.2	0.0	20698.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	27421.0	0.0	27421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.9	1.2
10°-20°	1090.4	4.0
20°-30°	1973.5	7.2
30°-40°	3104.5	11.3
40°-50°	4623.8	16.9
50°-60°	6065.5	22.1
60°-70°	6633.1	24.2
70°-80°	3282.2	12.0
80°-90°	313.1	1.1
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°	27421.0	100.0
0°-180°	27421.0	100.0

Coefficient of Utilization



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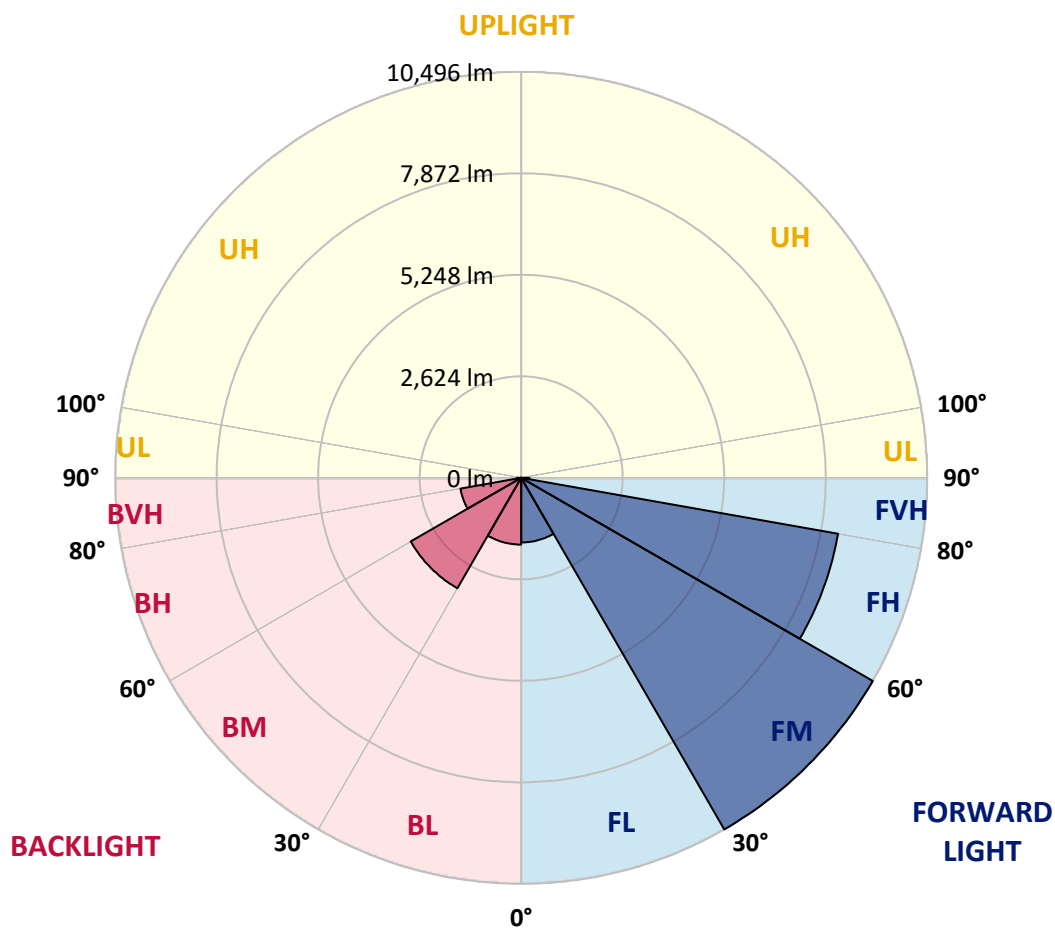
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1671.6	6.1			
FM	(30°-60°)	10496.4	38.3			
FH	(60°-80°)	8319.6	30.3			G4/12000
FVH	(80°-90°)	210.6	0.8			G2/225
BL	(0°-30°)	1727.1	6.3	B3/2500		
BM	(30°-60°)	3297.5	12.0	B3/5000		
BH	(60°-80°)	1595.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	102.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1
2.5°	3058.5	3051.5	3069.2	3086.8	3125.7	3171.7	3235.3	3288.4	3295.5	3394.5	3472.2
5°	2878.2	2867.6	2885.3	2906.5	2924.2	2980.8	3047.9	3125.7	3157.6	3302.5	3468.7
7.5°	2895.9	2892.4	2899.4	2892.4	2892.4	2917.1	2963.1	3040.9	3076.2	3249.5	3486.4
10°	2998.4	3005.5	3009.0	2987.8	2966.6	2956.0	2970.2	3023.2	3047.9	3253.0	3564.2
12.5°	3168.2	3178.8	3182.3	3143.4	3115.1	3069.2	3044.4	3065.6	3083.3	3288.4	3673.8
15°	3398.0	3405.1	3380.3	3355.6	3284.8	3228.3	3168.2	3150.5	3157.6	3362.6	3797.5
17.5°	3666.7	3656.1	3656.1	3596.0	3504.1	3415.7	3316.7	3302.5	3302.5	3482.9	3974.3
20°	3960.2	3970.8	3939.0	3857.7	3765.7	3627.8	3528.8	3465.2	3472.2	3620.8	4190.0
22.5°	4384.5	4402.2	4317.3	4200.6	4059.2	3900.1	3758.7	3656.1	3659.6	3801.1	4412.8
25°	4840.6	4847.7	4794.7	4639.1	4448.2	4221.9	4034.5	3903.6	3900.1	4002.6	4699.2
27.5°	5307.4	5339.2	5233.1	5084.6	4907.8	4624.9	4377.4	4200.6	4172.4	4310.3	5056.3
30°	5788.3	5827.2	5724.6	5579.6	5360.4	5120.0	4826.5	4621.4	4603.7	4787.6	5533.7
32.5°	6272.7	6283.3	6202.0	6081.7	5883.7	5657.4	5420.5	5194.2	5176.5	5477.1	6152.5
35°	6668.7	6700.5	6643.9	6615.7	6470.7	6262.1	6032.2	5901.4	5947.4	6332.8	6955.1
37.5°	7146.0	7177.9	7114.2	7107.1	7061.2	6880.8	6721.7	6732.3	6778.3	7301.6	7800.2
40°	7835.5	7870.9	7708.2	7637.5	7637.5	7460.7	7407.7	7658.7	7718.9	8256.3	8680.6
42.5°	8419.0	8475.5	8380.1	8334.1	8196.2	8072.4	8136.1	8489.7	8592.2	9168.6	9447.9
45°	8701.8	8744.3	8857.4	8991.8	8857.4	8641.7	8882.2	9281.7	9426.7	10010.1	10215.2
47.5°	8853.9	8892.8	9023.6	9384.3	9476.2	9295.9	9635.3	10133.9	10232.9	10844.6	10947.1
50°	8875.1	8998.8	9168.6	9529.2	9950.0	9974.8	10392.0	11000.2	11116.8	11664.9	11590.7
52.5°	8701.8	8751.3	9101.4	9709.6	10176.3	10600.6	11215.9	11831.1	11916.0	12435.7	12159.9
55°	8419.0	8489.7	8839.7	9667.1	10395.5	11194.6	12053.9	12647.9	12743.4	13185.3	12686.8
57.5°	8164.4	8199.7	8574.5	9543.4	10614.8	11788.7	12799.9	13500.0	13563.7	13843.0	13075.7
60°	7881.5	7920.4	8295.2	9278.2	10777.4	12237.7	13577.8	14359.3	14415.8	14536.1	13528.3
62.5°	7149.6	7252.1	7722.4	8839.7	10735.0	12750.4	14408.8	15207.9	15278.6	15147.8	13885.5
65°	5805.9	5950.9	6527.3	7846.1	10339.0	13082.8	15087.7	15989.3	16109.5	15607.4	13980.9
67.5°	4508.3	4610.8	5074.0	6226.7	8949.3	12916.6	15526.1	16526.8	16562.1	15533.2	13450.5
68°	4274.9	4377.4	4819.4	5887.3	8563.9	12718.6	15515.5	16540.9	16618.7	15451.9	13245.5
70°	3270.7	3387.4	3808.2	4663.8	6902.1	11459.8	14868.4	16201.5	16190.9	14468.9	11972.5
72.5°	2043.7	2110.9	2400.9	2941.9	4564.8	8719.5	12619.6	14288.5	14316.8	11795.7	9182.7
75°	1297.7	1297.7	1283.5	1425.0	2340.8	4967.9	9380.7	11000.2	11021.4	8259.8	5788.3
77.5°	1128.0	1096.1	944.1	799.1	933.5	1930.6	5551.4	7103.6	6986.9	4448.2	2747.4
80°	951.2	898.1	774.4	643.5	601.1	604.6	2132.1	3606.6	3451.0	1601.8	912.3
82.5°	686.0	640.0	583.4	505.6	463.2	360.7	445.5	1043.1	1018.3	463.2	297.0
85°	371.3	335.9	328.8	332.4	279.3	222.8	187.4	229.8	229.8	201.5	169.7
87.5°	130.8	95.5	113.1	127.3	109.6	91.9	74.3	88.4	91.9	88.4	81.3
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°	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1	3504.1
2.5°	3518.2	3553.6	3638.4	3712.7	3765.7	3811.7	3836.4	3847.1	3871.8	3875.3	3868.3
5°	3546.5	3638.4	3765.7	3875.3	3935.4	3960.2	3967.3	3970.8	3960.2	3967.3	3960.2
7.5°	3620.8	3737.4	3917.8	4013.2	4023.8	3985.0	3988.5	3974.3	3988.5	4002.6	4002.6
10°	3733.9	3882.4	4052.1	4087.5	4041.5	4020.3	4062.7	4147.6	4175.9	4214.8	4214.8
12.5°	3882.4	4059.2	4179.4	4147.6	4105.2	4175.9	4299.6	4384.5	4412.8	4426.9	4416.3
15°	4052.1	4243.1	4303.2	4197.1	4274.9	4426.9	4469.4	4419.9	4349.1	4317.3	4335.0
17.5°	4267.8	4426.9	4391.6	4320.9	4497.7	4518.9	4381.0	4221.9	4108.7	4066.3	4094.6
20°	4494.1	4632.0	4469.4	4501.2	4610.8	4384.5	4122.9	3917.8	3818.8	3801.1	3829.4
22.5°	4734.6	4823.0	4547.2	4709.8	4547.2	4087.5	3772.8	3666.7	3642.0	3670.3	3695.0
25°	5006.8	4996.2	4681.5	4773.5	4310.3	3723.3	3535.9	3528.8	3528.8	3546.5	3581.9
27.5°	5314.4	5148.3	4815.9	4688.6	3900.1	3422.7	3387.4	3390.9	3380.3	3383.9	3401.5
30°	5671.6	5353.3	4964.4	4409.3	3440.4	3196.4	3182.3	3171.7	3146.9	3139.9	3146.9
32.5°	6120.6	5569.0	5116.4	3949.6	3037.3	2963.1	2956.0	2899.4	2839.3	2832.3	2857.0
35°	6689.9	5961.5	5194.2	3373.2	2705.0	2701.4	2676.7	2588.3	2510.5	2510.5	2492.8
37.5°	7340.5	6467.1	5226.1	2811.0	2429.2	2446.8	2376.1	2263.0	2202.9	2167.5	2178.1
40°	8005.3	7043.5	5222.5	2319.5	2188.7	2192.3	2139.2	2001.3	1852.8	1764.4	1785.6
42.5°	8645.3	7566.8	5130.6	2057.9	1994.2	1983.6	1941.2	1753.8	1630.0	1559.3	1562.9
45°	9158.0	8107.8	4989.1	1902.3	1817.4	1835.1	1739.7	1626.5	1513.4	1449.7	1446.2
47.5°	9670.7	8518.0	4762.8	1806.8	1686.6	1654.8	1615.9	1538.1	1453.3	1382.5	1386.1
50°	10137.4	8868.0	4550.7	1743.2	1566.4	1485.1	1492.1	1446.2	1371.9	1308.3	1304.7
52.5°	10466.2	9097.9	4434.0	1707.8	1421.4	1333.0	1357.8	1333.0	1262.3	1216.3	1212.8
55°	10795.1	9274.6	4472.9	1661.9	1262.3	1191.6	1234.0	1227.0	1188.1	1173.9	1177.5
57.5°	11060.3	9409.0	4610.8	1577.0	1110.3	1067.8	1138.6	1117.3	1089.1	1092.6	1092.6
60°	11318.4	9582.3	4773.5	1382.5	979.4	983.0	1050.2	1011.3	993.6	1025.4	1028.9
62.5°	11587.1	9769.7	4639.1	1099.7	866.3	891.0	968.8	937.0	944.1	990.1	1004.2
65°	11555.3	9752.0	3779.9	901.7	767.3	816.8	933.5	922.9	926.4	944.1	951.2
67.5°	10904.7	9129.7	2598.9	767.3	696.6	756.7	905.2	862.8	866.3	855.7	859.2
68°	10685.5	8910.5	2291.3	746.1	682.4	742.5	891.0	852.2	855.7	845.1	841.5
70°	9490.3	7630.5	1449.7	657.7	632.9	703.6	820.3	806.2	802.6	795.6	795.6
72.5°	7234.4	5632.7	763.8	569.3	576.4	643.5	731.9	760.2	742.5	746.1	767.3
75°	4791.1	3387.4	530.4	488.0	505.6	551.6	650.6	707.2	689.5	700.1	689.5
77.5°	2535.2	1824.5	424.3	413.7	413.7	445.5	537.5	625.9	625.9	618.8	608.2
80°	830.9	643.5	339.4	325.3	332.4	350.1	431.4	512.7	523.3	509.2	502.1
82.5°	279.3	297.0	254.6	236.9	244.0	258.1	325.3	392.5	396.0	367.7	360.7
85°	173.3	198.0	159.1	155.6	155.6	159.1	198.0	215.7	198.0	176.8	183.9
87.5°	81.3	99.0	74.3	63.6	53.0	46.0	35.4	14.1	14.1	7.1	7.1
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)