

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: P836318

Luminaire Tested: **ARCH3-170-727-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-727-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

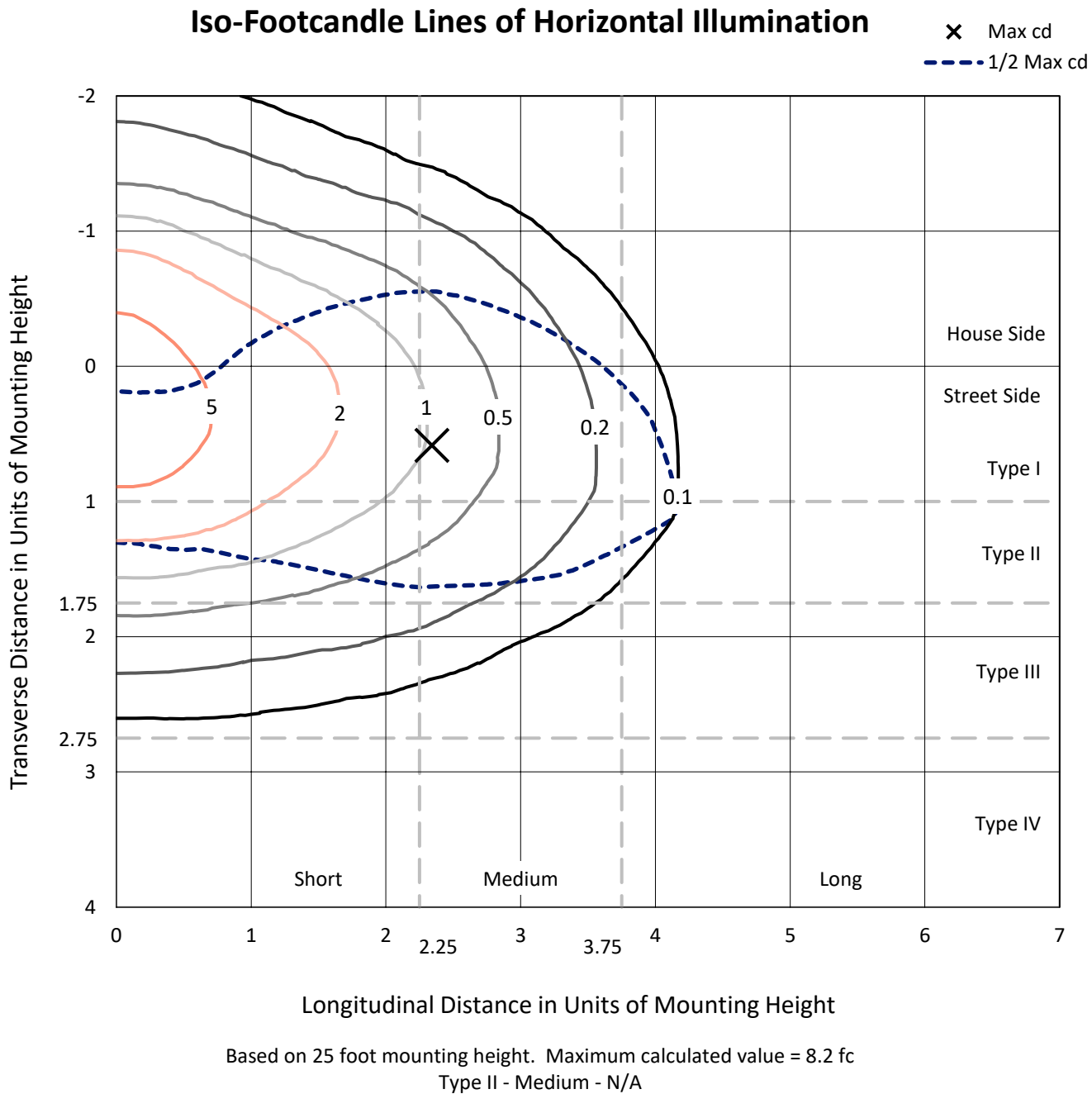
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22450 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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

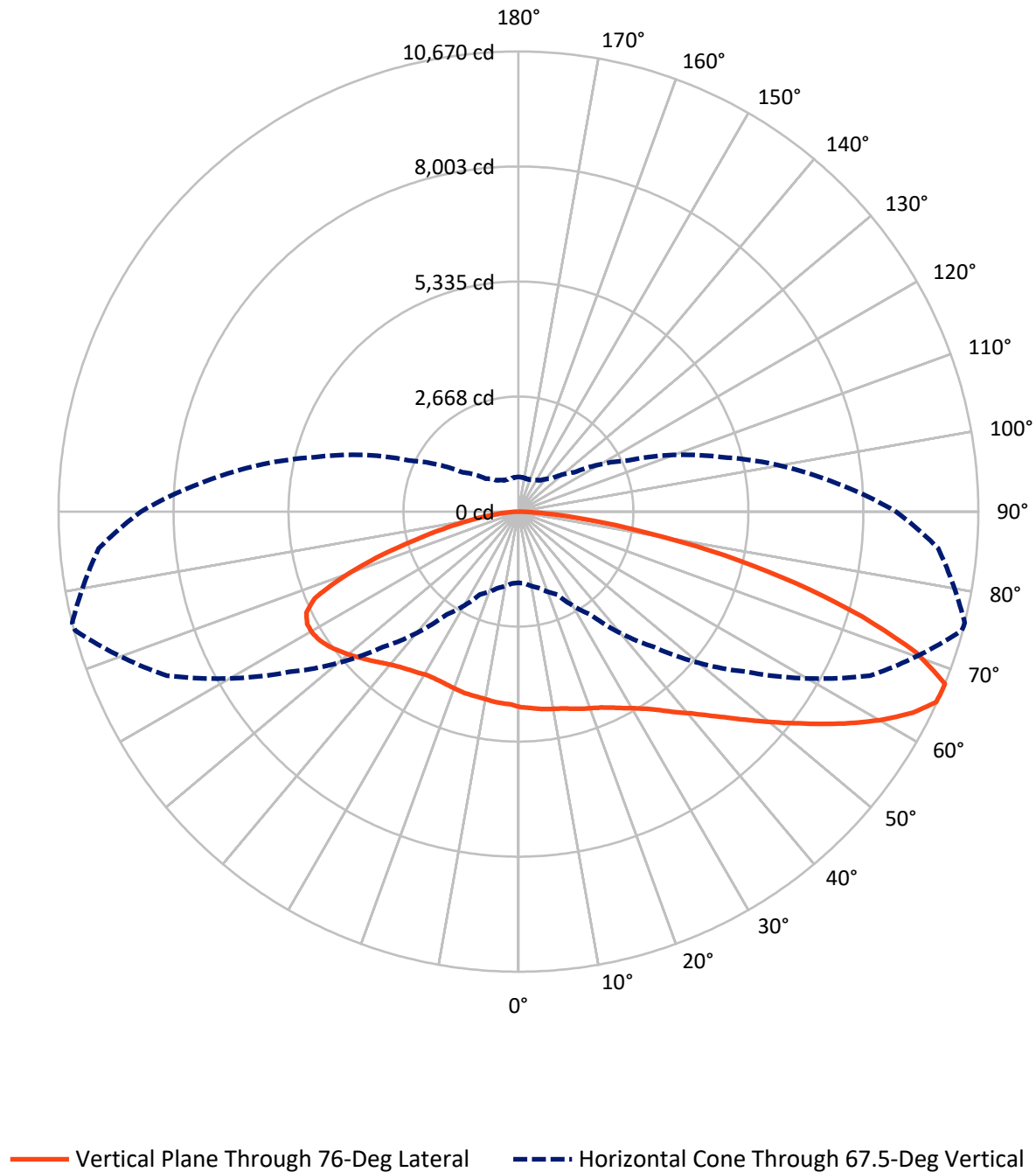


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Luminous Intensity Polar Plot



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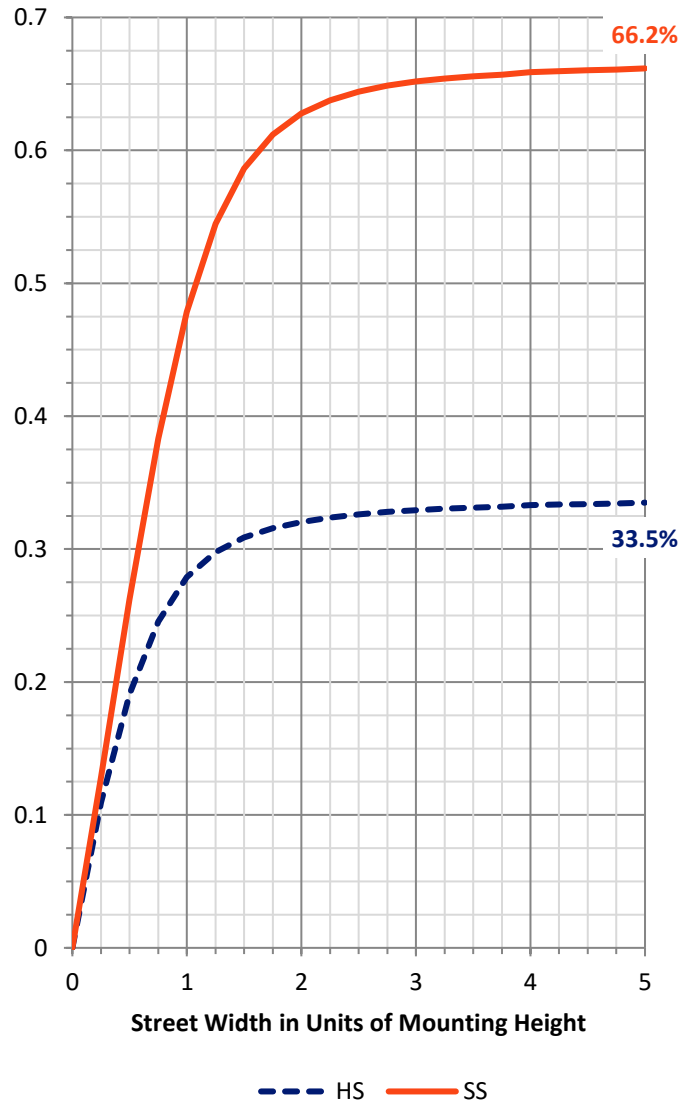
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7586.0	0.0	7586.0
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	14864.0	0.0	14864.0
	% Fixture	66.2	0.0	66.2
Total	Lumens	22450.0	0.0	22450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	1.9
10°-20°	1336.9	6.0
20°-30°	2271.4	10.1
30°-40°	3231.9	14.4
40°-50°	4081.7	18.2
50°-60°	4419.2	19.7
60°-70°	4110.4	18.3
70°-80°	2207.6	9.8
80°-90°	353.7	1.6
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°	22450.0	100.0
0°-180°	22450.0	100.0

Coefficient of Utilization



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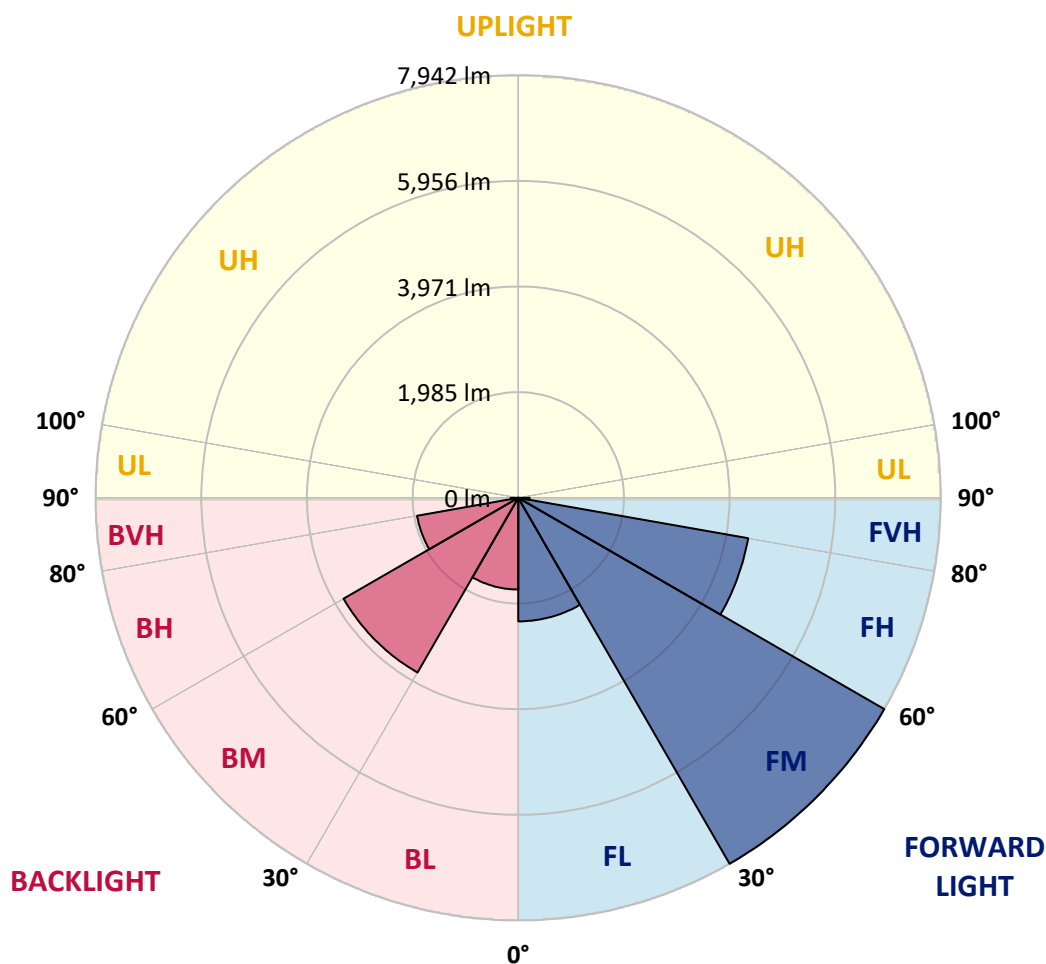
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2321.6	10.3			
FM	(30°-60°)	7942.0	35.4			
FH	(60°-80°)	4386.5	19.5			G2/5000
FVH	(80°-90°)	214.0	1.0			G2/225
BL	(0°-30°)	1723.9	7.7	B3/2500		
BM	(30°-60°)	3790.8	16.9	B3/5000		
BH	(60°-80°)	1931.5	8.6	B3/2500		G3/2500
BVH	(80°-90°)	139.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9
2.5°	4672.4	4664.1	4630.7	4634.9	4634.9	4630.7	4580.7	4559.9	4559.9	4555.7	4509.8
5°	4839.1	4826.6	4789.1	4780.8	4764.1	4743.3	4664.1	4618.2	4597.4	4593.2	4530.7
7.5°	5035.0	5018.3	4972.5	4947.5	4905.8	4851.6	4751.6	4680.7	4630.7	4626.5	4539.0
10°	5230.9	5214.2	5160.1	5114.2	5055.9	4968.3	4839.1	4734.9	4655.7	4647.4	4543.2
12.5°	5464.3	5447.7	5381.0	5322.6	5235.1	5118.4	4947.5	4805.8	4697.4	4684.9	4555.7
15°	5710.2	5685.2	5618.5	5551.9	5443.5	5293.4	5089.2	4901.6	4764.1	4743.3	4593.2
17.5°	5914.5	5881.1	5826.9	5760.3	5639.4	5464.3	5230.9	4997.5	4826.6	4809.9	4630.7
20°	6089.5	6064.5	6006.2	5943.7	5814.4	5622.7	5364.3	5093.4	4885.0	4864.1	4659.9
22.5°	6256.3	6222.9	6189.6	6143.7	6002.0	5789.4	5518.5	5210.1	4960.0	4935.0	4697.4
25°	6448.0	6410.5	6398.0	6373.0	6206.2	5989.5	5706.1	5356.0	5064.2	5035.0	4764.1
27.5°	6685.6	6643.9	6618.9	6618.9	6418.8	6193.7	5906.1	5526.8	5185.1	5160.1	4847.5
30°	6935.7	6885.6	6848.1	6848.1	6623.0	6398.0	6102.0	5697.7	5322.6	5293.4	4955.8
32.5°	7156.6	7106.5	7064.9	7060.7	6827.3	6602.2	6306.3	5885.3	5489.3	5451.8	5089.2
35°	7327.5	7281.6	7244.1	7252.4	7031.5	6810.6	6535.5	6135.4	5697.7	5656.1	5264.3
37.5°	7431.7	7415.0	7394.1	7423.3	7219.1	7010.7	6773.1	6377.1	5935.3	5897.8	5481.0
40°	7485.8	7473.3	7556.7	7594.2	7377.5	7189.9	7010.7	6627.2	6193.7	6152.1	5731.1
42.5°	7565.0	7669.2	7702.6	7694.2	7494.2	7327.5	7227.4	6898.1	6498.0	6460.5	6031.2
45°	7281.6	7256.6	7440.0	7540.0	7502.5	7415.0	7431.7	7223.2	6852.3	6814.8	6377.1
47.5°	6902.3	6869.0	6973.2	7219.1	7365.0	7448.3	7615.0	7560.9	7260.8	7227.4	6781.4
50°	6102.0	6147.9	6535.5	6864.8	7152.4	7440.0	7769.3	7923.5	7710.9	7677.6	7214.9
52.5°	5214.2	5260.1	5664.4	6423.0	6894.0	7377.5	7881.8	8286.1	8198.6	8161.1	7677.6
55°	4568.2	4668.2	5126.7	5676.9	6527.2	7181.6	7948.5	8657.1	8723.8	8690.4	8181.9
57.5°	3926.3	4001.3	4347.3	4835.0	6027.0	6839.8	7944.3	9003.0	9273.9	9240.6	8694.6
60°	3171.9	3267.8	3542.9	4068.0	5360.1	6431.3	7827.6	9273.9	9803.3	9778.3	9190.6
62.5°	2655.1	2684.2	2880.1	3334.4	4501.5	5914.5	7565.0	9419.8	10282.6	10265.9	9636.6
65°	2138.2	2142.4	2321.6	2700.9	3672.1	5272.6	7119.0	9365.6	10645.2	10653.6	9957.5
67.5°	1650.6	1671.4	1833.9	2121.5	2917.6	4439.0	6481.3	8998.8	10649.4	10670.2	9774.1
70°	1142.0	1158.7	1404.6	1683.9	2254.9	3538.7	5618.5	8027.7	9774.1	9790.8	8761.3
72.5°	804.4	812.8	1075.4	1346.3	1763.1	2667.6	4238.9	6639.7	8332.0	8344.5	7369.1
75°	600.2	608.5	758.6	1021.2	1350.5	1846.5	2896.8	5085.0	6656.4	6656.4	5818.6
77.5°	425.1	429.3	491.8	704.4	900.3	1246.3	1742.2	3330.3	4885.0	4893.3	4238.9
80°	287.6	291.8	320.9	475.2	562.7	675.2	946.1	1746.4	3080.2	3092.7	2692.6
82.5°	150.1	158.4	179.2	241.7	283.4	375.1	487.7	887.8	1704.7	1738.1	1617.2
85°	58.4	58.4	66.7	79.2	104.2	145.9	225.1	337.6	771.1	796.1	712.7
87.5°	20.8	20.8	25.0	25.0	29.2	33.3	37.5	50.0	87.5	87.5	83.4
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°	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9	4534.9
2.5°	4493.2	4493.2	4472.3	4480.7	4476.5	4468.2	4459.8	4472.3	4459.8	4430.6	4426.5
5°	4501.5	4493.2	4459.8	4455.7	4443.2	4426.5	4405.6	4414.0	4393.1	4368.1	4364.0
7.5°	4505.7	4489.0	4443.2	4426.5	4401.5	4368.1	4334.8	4334.8	4305.6	4280.6	4276.4
10°	4497.3	4476.5	4414.0	4380.6	4334.8	4284.8	4238.9	4226.4	4193.1	4163.9	4163.9
12.5°	4501.5	4472.3	4393.1	4339.0	4276.4	4213.9	4155.6	4138.9	4109.7	4080.5	4076.4
15°	4526.5	4484.8	4384.8	4313.9	4222.2	4151.4	4088.9	4076.4	4051.4	4030.5	4030.5
17.5°	4551.5	4497.3	4372.3	4272.3	4159.7	4080.5	4022.2	4022.2	4005.5	3993.0	3993.0
20°	4564.0	4501.5	4347.3	4213.9	4084.7	4001.3	3947.2	3955.5	3951.3	3947.2	3947.2
22.5°	4593.2	4509.8	4326.4	4159.7	4005.5	3918.0	3868.0	3880.5	3876.3	3876.3	3880.5
25°	4639.1	4530.7	4309.8	4109.7	3930.5	3834.6	3780.4	3788.8	3788.8	3788.8	3788.8
27.5°	4701.6	4572.4	4305.6	4063.9	3855.5	3747.1	3680.4	3680.4	3663.7	3667.9	3672.1
30°	4797.4	4651.6	4313.9	4022.2	3776.3	3638.7	3559.5	3547.0	3542.9	3551.2	3555.4
32.5°	4914.1	4759.9	4364.0	3993.0	3692.9	3517.8	3417.8	3413.6	3401.1	3401.1	3401.1
35°	5060.0	4864.1	4409.8	3988.8	3609.5	3388.6	3280.3	3267.8	3238.6	3226.1	3226.1
37.5°	5247.6	5026.7	4464.0	3959.7	3538.7	3263.6	3134.4	3092.7	3059.4	3055.2	3055.2
40°	5476.8	5210.1	4543.2	3926.3	3463.7	3134.4	2963.5	2892.6	2896.8	2913.5	2913.5
42.5°	5747.8	5435.2	4643.2	3909.6	3355.3	3001.0	2763.4	2680.1	2709.2	2725.9	2730.1
45°	6064.5	5701.9	4755.8	3888.8	3255.3	2851.0	2550.9	2446.7	2459.2	2463.3	2467.5
47.5°	6431.3	5997.8	4872.5	3872.1	3142.7	2663.4	2317.4	2179.9	2175.7	2150.7	2159.1
50°	6814.8	6310.4	4993.3	3843.0	3005.2	2442.5	2071.5	1909.0	1875.6	1838.1	1842.3
52.5°	7223.2	6631.4	5105.9	3797.1	2834.3	2217.4	1838.1	1663.1	1596.4	1554.7	1563.0
55°	7673.4	6960.7	5214.2	3726.2	2655.1	1992.3	1629.7	1450.5	1367.1	1333.8	1337.9
57.5°	8086.0	7277.4	5293.4	3638.7	2459.2	1788.1	1446.3	1271.3	1217.1	1212.9	1217.1
60°	8486.2	7544.2	5326.8	3517.8	2259.1	1600.5	1275.4	1142.0	1104.5	1125.4	1129.5
62.5°	8823.8	7715.1	5310.1	3355.3	2054.9	1421.3	1137.9	1042.0	1017.0	1058.7	1062.9
65°	9019.7	7769.3	5193.4	3121.9	1833.9	1246.3	1008.7	904.5	892.0	917.0	929.5
67.5°	8761.3	7431.7	4876.6	2800.9	1588.0	1083.7	883.6	800.3	779.4	800.3	800.3
70°	7765.1	6439.7	4126.4	2292.4	1317.1	925.3	766.9	708.6	691.9	708.6	704.4
72.5°	6468.8	5356.0	3251.1	1788.1	1037.8	779.4	666.9	612.7	596.0	579.4	571.0
75°	5018.3	4068.0	2359.1	1312.9	783.6	625.2	558.5	508.5	466.8	483.5	475.2
77.5°	3676.2	2855.1	1671.4	908.6	562.7	483.5	437.6	400.1	371.0	404.3	400.1
80°	2367.5	1846.5	1117.0	608.5	387.6	337.6	320.9	300.1	329.3	429.3	437.6
82.5°	1446.3	1171.2	666.9	396.0	254.3	225.1	208.4	208.4	337.6	371.0	375.1
85°	646.0	621.0	362.6	204.2	141.7	129.2	116.7	150.1	137.5	100.0	104.2
87.5°	104.2	108.4	79.2	70.9	54.2	54.2	41.7	29.2	20.8	12.5	12.5
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)