

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: P836463

Luminaire Tested: **ARCH3-190-727-U-T3-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-190-727-U-T3-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1440mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16386 lumens
Efficiency: N/A
Efficacy: 86.5 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): 189.4
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

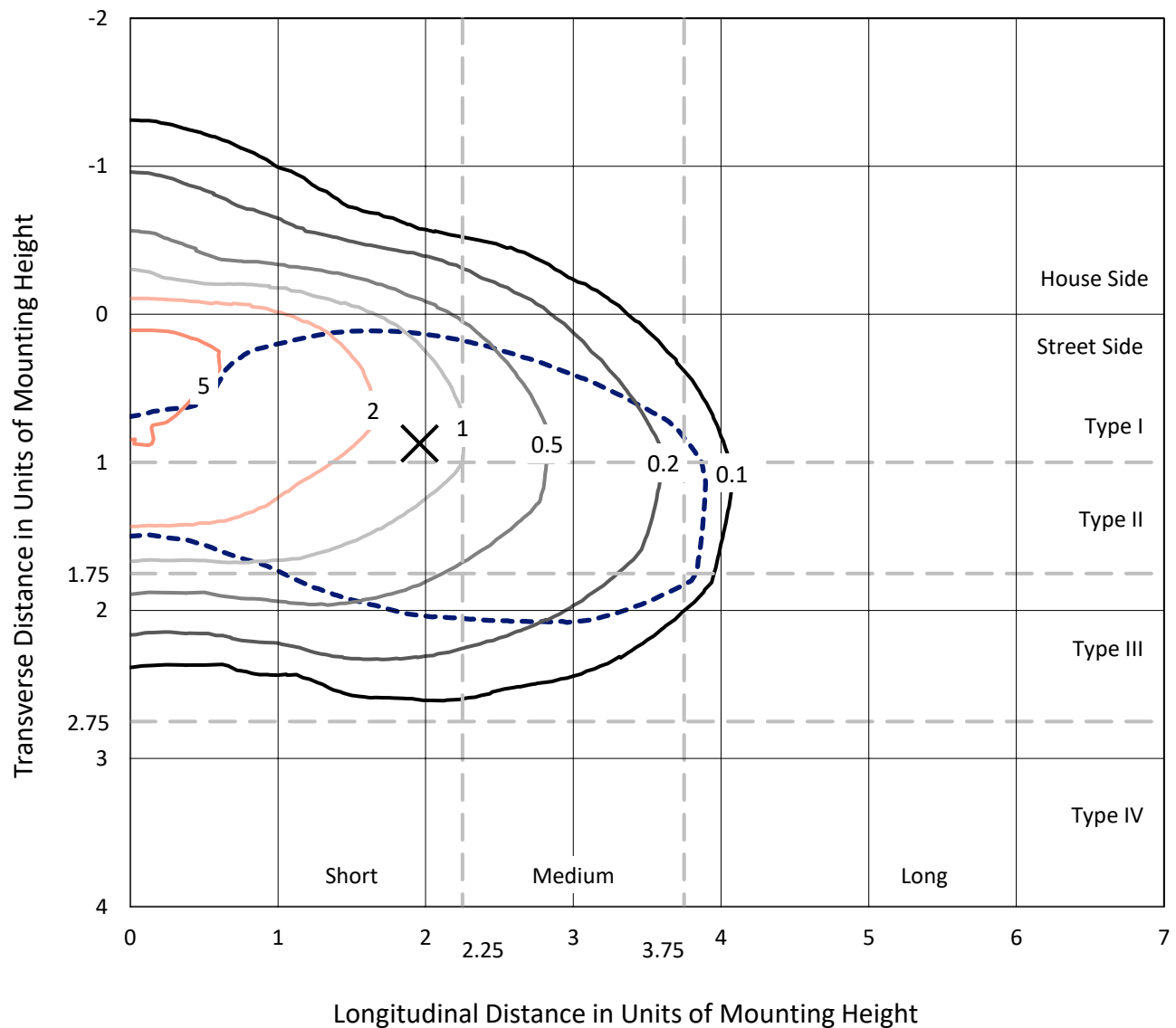


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

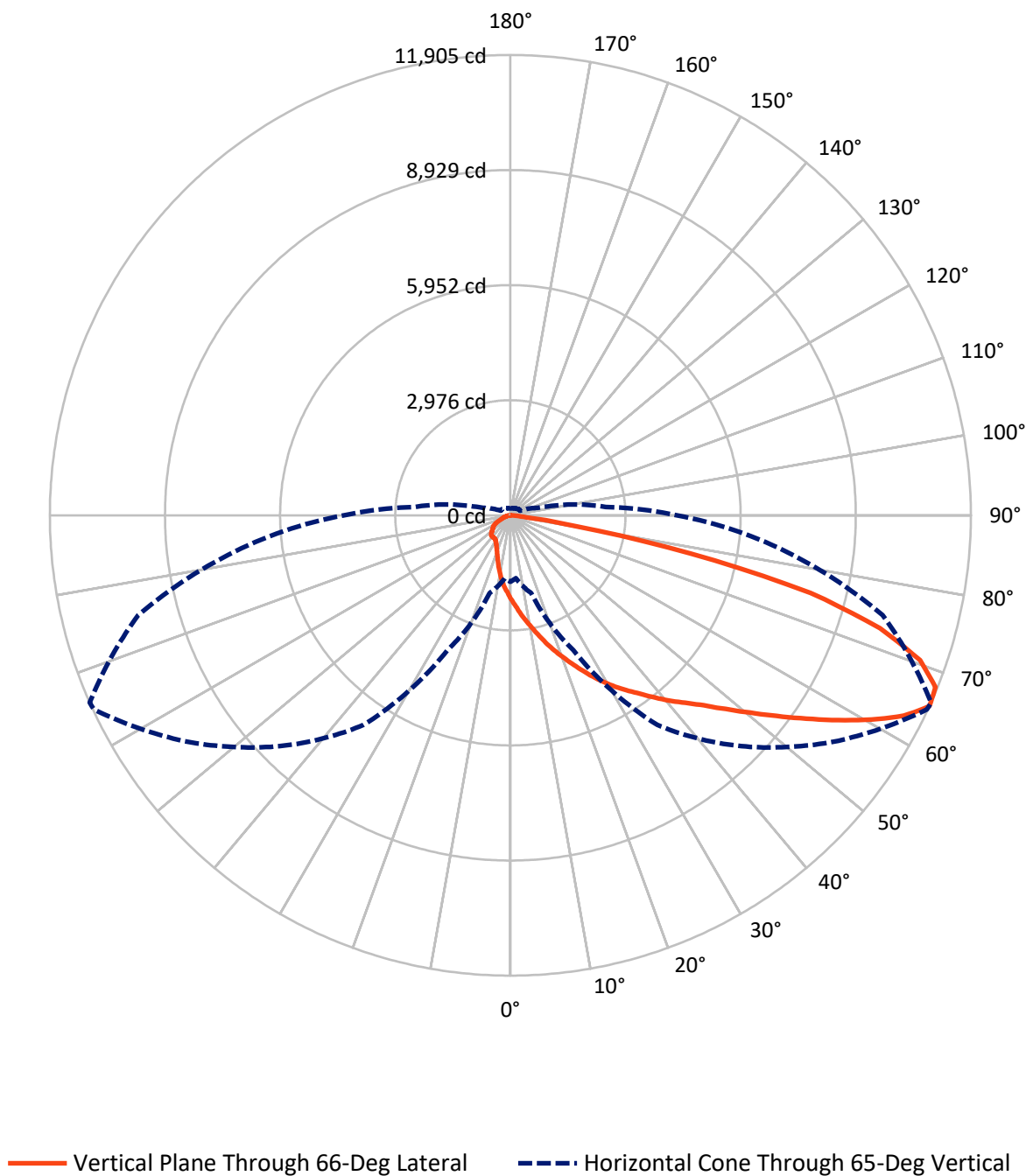


Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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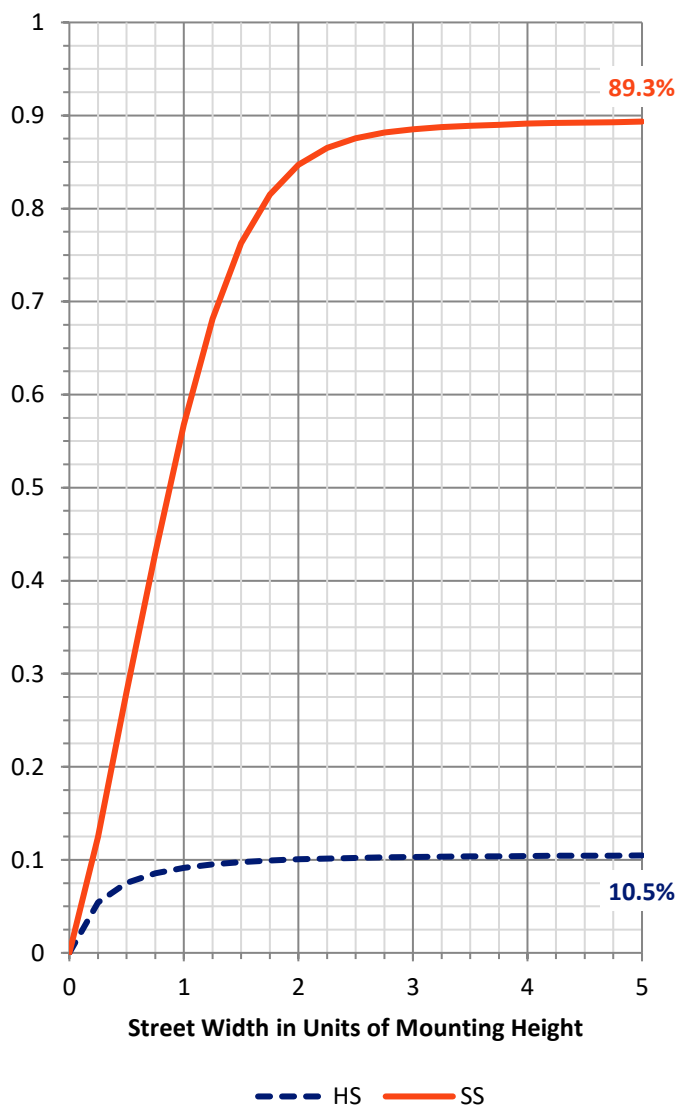
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.2	0.0	1733.2
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	14652.8	0.0	14652.8
	% Fixture	89.4	0.0	89.4
Total	Lumens	16386.0	0.0	16386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.0	1.3
10°-20°	697.6	4.3
20°-30°	1262.2	7.7
30°-40°	1973.8	12.0
40°-50°	2994.2	18.3
50°-60°	3804.2	23.2
60°-70°	3554.6	21.7
70°-80°	1766.6	10.8
80°-90°	118.7	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°	16386.0	100.0
0°-180°	16386.0	100.0

Coefficient of Utilization



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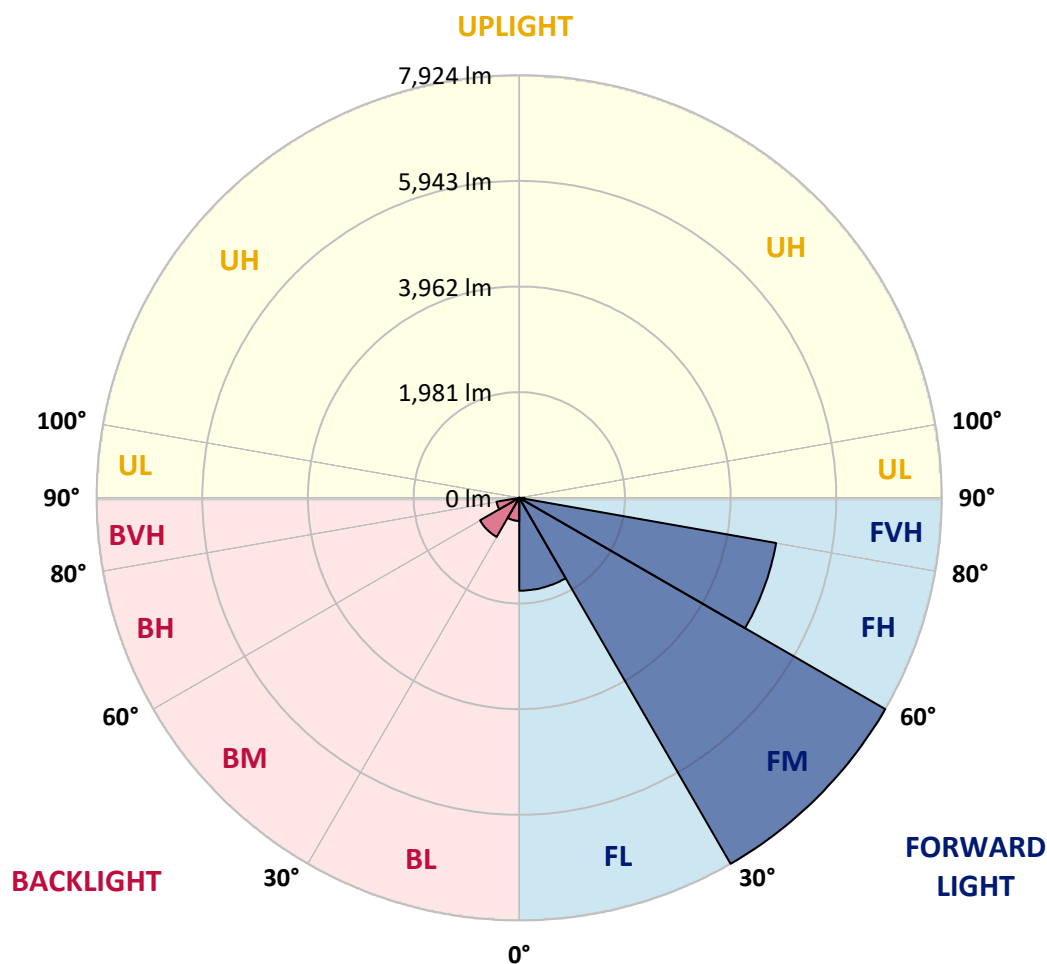
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1741.0	10.6			
FM	(30°-60°)	7924.5	48.4			
FH	(60°-80°)	4889.6	29.8			G2/5000
FVH	(80°-90°)	97.7	0.6			G1/100
BL	(0°-30°)	432.9	2.6	B1/500		
BM	(30°-60°)	847.7	5.2	B1/1000		
BH	(60°-80°)	431.6	2.6	B1/500		G1/500
BVH	(80°-90°)	21.0	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°	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6
2.5°	2532.9	2553.5	2563.8	2567.3	2488.2	2453.8	2419.5	2340.4	2323.3	2278.6	2220.1
5°	2979.7	3007.2	3000.3	2986.5	2890.3	2780.3	2691.0	2543.2	2519.1	2412.6	2282.0
7.5°	3419.6	3443.6	3436.8	3385.2	3278.7	3124.0	2976.2	2759.7	2725.4	2553.5	2343.9
10°	3787.3	3807.9	3804.5	3752.9	3625.8	3436.8	3258.1	2969.4	2928.1	2684.1	2395.4
12.5°	4089.7	4117.2	4113.8	4079.4	3966.0	3759.8	3557.0	3209.9	3158.4	2842.2	2467.6
15°	4326.9	4361.3	4361.3	4347.5	4268.5	4096.6	3866.4	3474.6	3412.7	3024.4	2557.0
17.5°	4471.2	4498.7	4522.8	4546.8	4491.8	4361.3	4151.6	3739.2	3673.9	3203.1	2649.7
20°	4546.8	4574.3	4591.5	4643.1	4653.4	4588.1	4423.1	4000.4	3931.7	3405.8	2756.3
22.5°	4670.6	4694.6	4698.1	4742.7	4763.4	4780.5	4677.4	4258.1	4203.2	3629.2	2876.6
25°	4876.8	4904.3	4893.9	4914.6	4918.0	4938.6	4928.3	4553.7	4498.7	3883.5	3020.9
27.5°	5141.4	5175.8	5168.9	5148.3	5117.3	5100.2	5144.8	4852.7	4801.2	4137.9	3168.7
30°	5426.6	5467.9	5457.6	5416.3	5333.9	5261.7	5323.5	5134.5	5086.4	4399.1	3333.7
32.5°	5715.3	5763.5	5760.0	5691.3	5550.4	5426.6	5519.4	5399.2	5364.8	4680.9	3512.4
35°	5904.4	5966.2	5959.3	5918.1	5736.0	5629.4	5742.8	5670.7	5646.6	5024.5	3770.1
37.5°	6210.2	6275.5	6217.1	6114.0	5904.4	5849.4	5986.8	5976.5	5959.3	5388.8	4041.6
40°	6952.6	7048.8	6894.1	6471.4	6127.7	6079.6	6275.5	6316.8	6299.6	5749.7	4285.6
42.5°	7729.3	7873.6	7633.0	7048.8	6533.3	6358.0	6591.7	6650.1	6629.5	6059.0	4505.6
45°	8200.1	8262.0	8021.4	7567.8	7251.6	6694.8	6928.5	7024.7	7007.6	6430.2	4787.4
47.5°	8585.0	8561.0	8286.0	7980.2	8038.6	7169.1	7310.0	7499.0	7485.3	6839.2	5096.7
50°	8667.5	8612.5	8502.6	8310.1	8464.7	7650.2	7712.1	8038.6	8024.8	7292.8	5409.5
52.5°	8086.7	8014.5	8313.5	8475.1	8423.5	8000.8	8155.4	8629.7	8622.8	7784.3	5708.5
55°	6636.4	6578.0	7382.2	8217.3	8378.8	8248.2	8646.9	9244.9	9282.7	8306.7	5980.0
57.5°	5220.4	5158.6	5949.0	7571.2	8213.9	8475.1	9220.8	9949.4	9997.5	8873.7	6237.7
60°	4161.9	4069.1	4674.0	6553.9	7904.6	8650.3	9774.2	10722.7	10729.6	9392.7	6395.8
62.5°	2828.5	2725.4	3395.5	5265.1	7385.6	8677.8	10200.3	11389.4	11416.9	9781.0	6423.3
65°	1718.4	1632.5	2086.1	3845.7	6619.2	8444.1	10207.2	11880.9	11904.9	9959.7	6258.3
67.5°	996.7	962.3	1192.6	2395.4	5347.6	7815.2	9777.6	11805.3	11850.0	9884.1	5883.7
70°	580.8	577.4	663.3	1185.7	3773.6	6567.7	8818.7	11169.5	11234.8	9488.9	5309.8
72.5°	426.2	433.0	467.4	635.8	2185.8	4729.0	7468.1	9891.0	9990.7	8715.6	4491.8
75°	336.8	340.2	371.2	433.0	1147.9	2673.8	5595.0	7938.9	8018.0	7337.5	3508.9
77.5°	250.9	257.8	281.8	305.9	532.7	1226.9	3148.1	4890.5	4759.9	4027.9	1694.3
80°	182.1	199.3	209.6	220.0	281.8	474.3	945.1	1704.6	1690.9	1759.6	800.8
82.5°	116.8	130.6	140.9	147.8	168.4	226.8	281.8	381.5	412.4	683.9	319.6
85°	51.6	58.4	65.3	79.0	72.2	79.0	116.8	75.6	65.3	103.1	58.4
87.5°	0.0	0.0	10.3	17.2	13.7	6.9	20.6	13.7	10.3	10.3	10.3
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°	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6	2168.6
2.5°	2189.2	2151.4	2072.4	1996.8	1952.1	1893.7	1842.1	1794.0	1790.6	1776.8	1752.7
5°	2216.7	2144.5	1996.8	1855.9	1749.3	1635.9	1539.7	1464.1	1436.6	1415.9	1388.5
7.5°	2244.2	2130.8	1910.8	1704.6	1536.2	1378.1	1264.7	1161.6	1130.7	1103.2	1086.0
10°	2254.5	2106.7	1811.2	1536.2	1316.3	1147.9	1027.6	952.0	924.5	910.7	900.4
12.5°	2285.4	2093.0	1718.4	1378.1	1123.8	969.2	883.2	838.6	828.3	817.9	807.6
15°	2326.7	2093.0	1625.6	1223.5	972.6	848.9	797.3	766.4	759.5	756.1	749.2
17.5°	2371.4	2093.0	1536.2	1092.9	862.6	769.8	732.0	714.8	711.4	708.0	704.5
20°	2433.2	2096.4	1440.0	979.5	783.6	711.4	680.5	659.9	656.4	653.0	653.0
22.5°	2495.1	2103.3	1347.2	893.6	732.0	666.7	628.9	608.3	601.4	601.4	601.4
25°	2574.1	2123.9	1261.3	821.4	687.4	625.5	577.4	560.2	556.8	556.8	553.3
27.5°	2666.9	2148.0	1185.7	766.4	642.7	577.4	529.3	512.1	505.2	505.2	501.8
30°	2766.6	2172.0	1123.8	725.2	598.0	529.3	484.6	464.0	457.1	460.5	457.1
32.5°	2876.6	2206.4	1075.7	697.7	556.8	488.0	446.8	422.7	419.3	419.3	415.8
35°	3062.2	2302.6	1068.8	683.9	522.4	457.1	415.8	391.8	388.4	388.4	384.9
37.5°	3261.5	2412.6	1099.8	677.0	494.9	429.6	391.8	367.7	364.3	364.3	364.3
40°	3429.9	2495.1	1134.1	677.0	477.7	405.5	371.2	350.5	350.5	350.5	350.5
42.5°	3543.3	2502.0	1127.3	677.0	464.0	388.4	357.4	336.8	336.8	340.2	336.8
45°	3711.7	2536.3	1099.8	666.7	453.7	374.6	343.7	326.5	323.1	326.5	326.5
47.5°	3911.0	2598.2	1072.3	625.5	450.2	360.9	333.4	312.7	309.3	312.7	309.3
50°	4100.1	2653.2	1058.5	570.5	443.3	347.1	319.6	299.0	295.6	299.0	295.6
52.5°	4258.1	2677.2	1034.5	532.7	426.2	333.4	305.9	285.3	278.4	281.8	281.8
55°	4385.3	2670.4	1000.1	501.8	395.2	319.6	288.7	271.5	261.2	261.2	257.8
57.5°	4502.2	2673.8	969.2	470.8	360.9	299.0	274.9	254.3	240.6	237.1	233.7
60°	4546.8	2656.6	914.2	429.6	326.5	281.8	257.8	233.7	220.0	216.5	213.1
62.5°	4485.0	2594.8	842.0	357.4	295.6	261.2	240.6	216.5	202.8	199.3	195.9
65°	4309.7	2477.9	732.0	281.8	268.1	237.1	220.0	202.8	185.6	178.7	175.3
67.5°	4010.7	2309.5	594.6	226.8	237.1	216.5	206.2	185.6	165.0	158.1	154.7
70°	3584.5	2086.1	446.8	192.5	209.6	192.5	185.6	165.0	147.8	140.9	137.5
72.5°	2986.5	1725.3	312.7	165.0	182.1	168.4	161.5	147.8	130.6	120.3	120.3
75°	2258.0	1237.2	206.2	140.9	151.2	144.3	134.0	123.7	113.4	106.5	103.1
77.5°	972.6	481.1	127.2	106.5	123.7	120.3	106.5	99.7	96.2	89.4	89.4
80°	419.3	195.9	79.0	79.0	89.4	85.9	82.5	75.6	75.6	72.2	68.7
82.5°	154.7	79.0	48.1	58.4	65.3	58.4	58.4	58.4	58.4	55.0	55.0
85°	37.8	24.1	24.1	34.4	37.8	34.4	37.8	34.4	34.4	34.4	30.9
87.5°	10.3	10.3	13.7	13.7	13.7	13.7	13.7	10.3	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)