

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: P841115

Luminaire Tested: **ARCH4-130-740-U-T4W-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15991 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

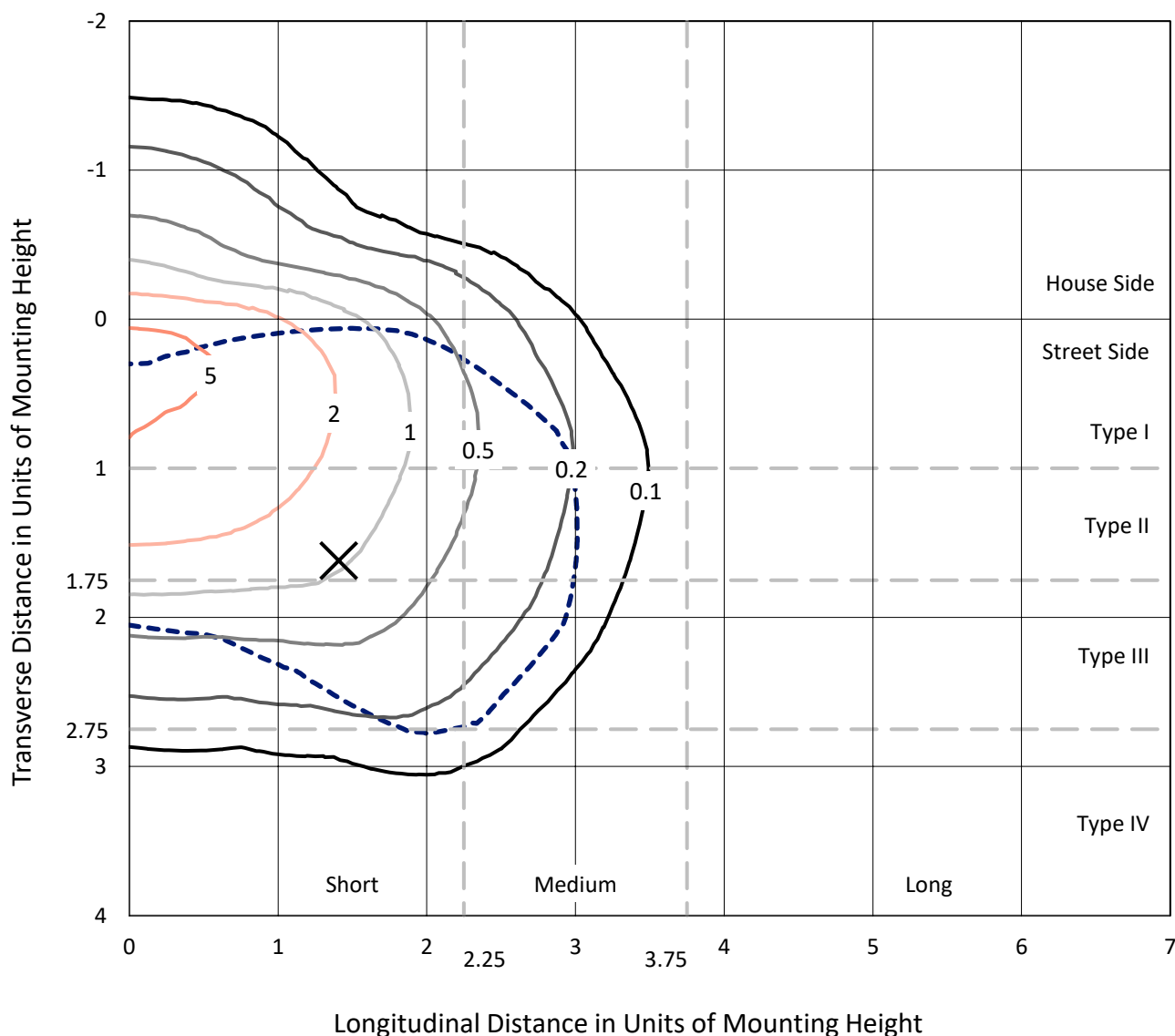
Input Watts (W): 132
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

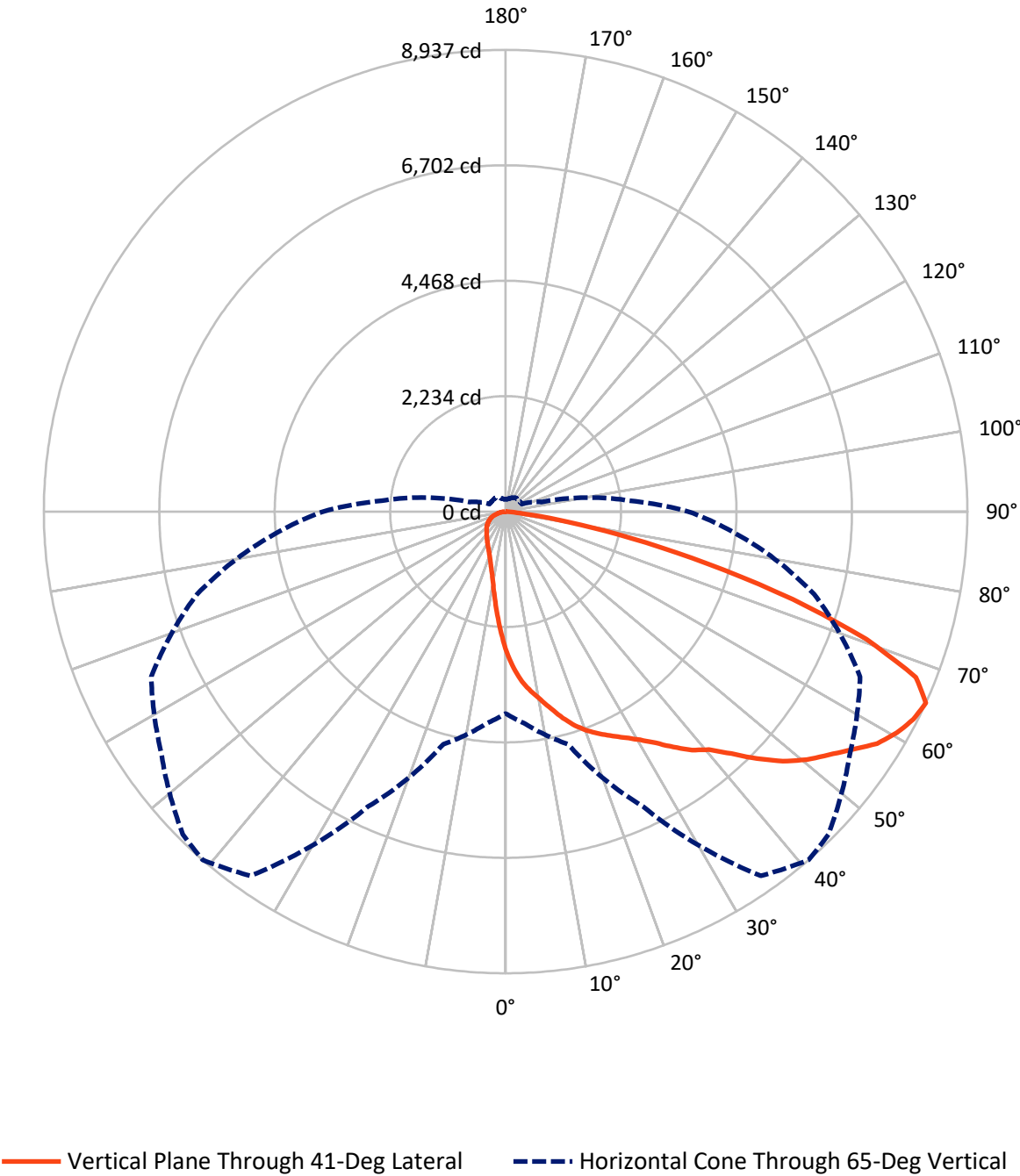
× Max cd
 - - - 1/2 Max cd



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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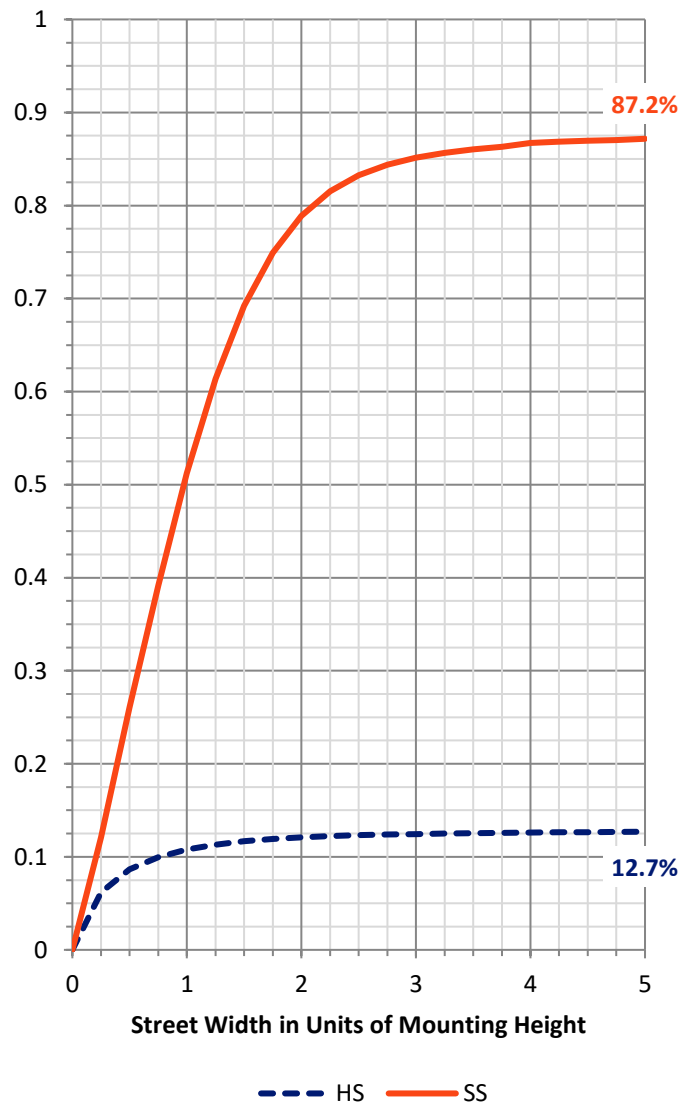
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2053.0	0.0	2053.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	13938.0	0.0	13938.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	15991.0	0.0	15991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.9	1.6
10°-20°	761.3	4.8
20°-30°	1309.7	8.2
30°-40°	1986.3	12.4
40°-50°	2910.0	18.2
50°-60°	3674.7	23.0
60°-70°	3445.7	21.5
70°-80°	1535.7	9.6
80°-90°	113.8	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°	15991.0	100.0
0°-180°	15991.0	100.0

Coefficient of Utilization



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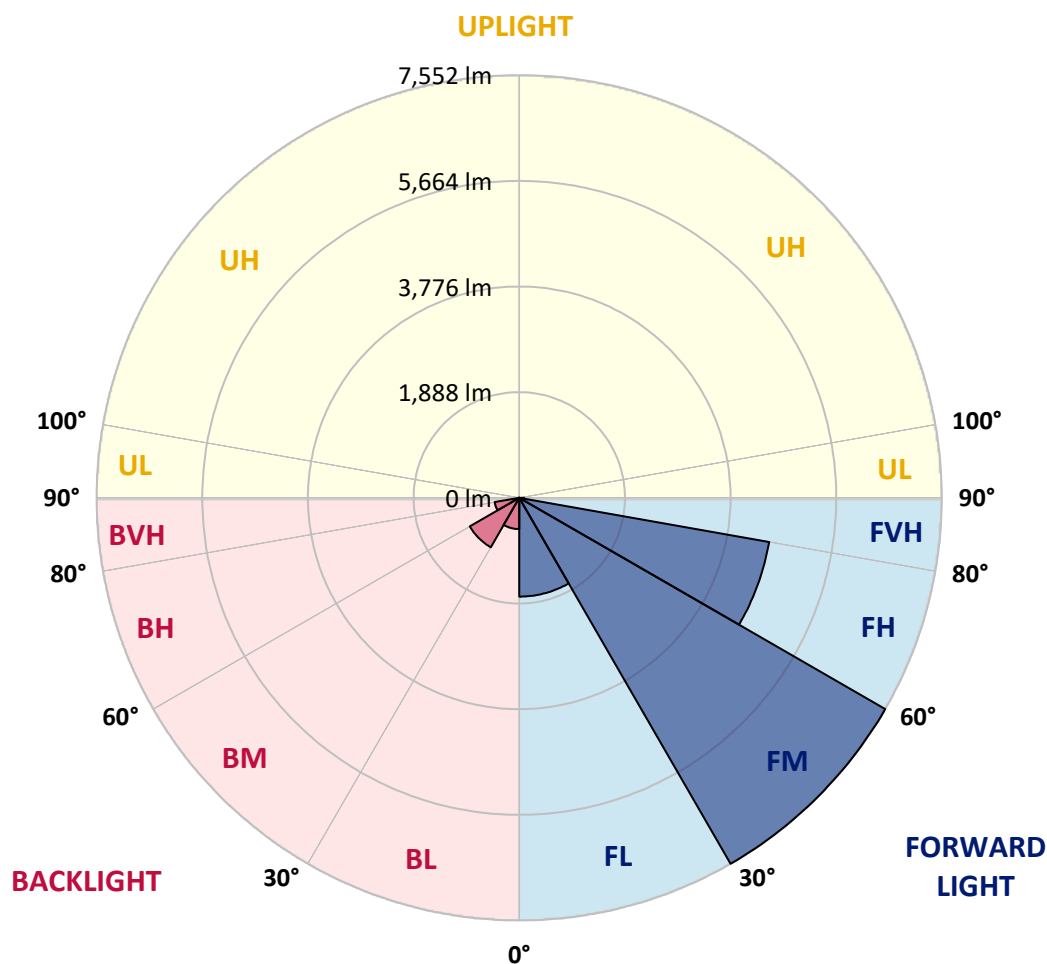
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1766.0	11.0			
FM	(30°-60°)	7551.6	47.2			
FH	(60°-80°)	4535.5	28.4			G2/5000
FVH	(80°-90°)	85.0	0.5			G1/100
BL	(0°-30°)	558.8	3.5	B2/1000		
BM	(30°-60°)	1019.4	6.4	B2/2500		
BH	(60°-80°)	446.0	2.8	B1/500		G1/500
BVH	(80°-90°)	28.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8
2.5°	3142.9	3132.8	3126.1	3089.0	3089.0	3038.4	3041.8	2994.6	2937.2	2846.2	2748.4
5°	3439.7	3426.2	3409.4	3372.3	3358.8	3308.2	3301.4	3234.0	3136.2	2977.7	2802.3
7.5°	3699.4	3685.9	3662.3	3608.3	3571.2	3510.5	3493.7	3406.0	3298.1	3102.5	2856.3
10°	3935.4	3925.3	3895.0	3827.5	3776.9	3702.7	3672.4	3554.4	3419.5	3203.6	2900.1
12.5°	4174.9	4161.4	4120.9	4063.6	4002.9	3915.2	3878.1	3726.3	3554.4	3314.9	2964.2
15°	4397.4	4377.2	4346.8	4286.1	4232.2	4147.9	4107.4	3928.7	3719.6	3439.7	3048.5
17.5°	4542.4	4525.6	4498.6	4464.9	4421.0	4357.0	4316.5	4141.1	3884.8	3561.1	3136.2
20°	4630.1	4623.4	4613.2	4593.0	4572.8	4528.9	4498.6	4333.3	4063.6	3679.1	3220.5
22.5°	4697.6	4690.8	4687.4	4687.4	4690.8	4673.9	4653.7	4512.1	4235.6	3803.9	3298.1
25°	4802.1	4798.7	4792.0	4785.2	4808.8	4812.2	4805.5	4707.7	4451.4	3969.1	3395.9
27.5°	4947.1	4937.0	4923.5	4916.7	4940.4	4957.2	4970.7	4903.3	4680.7	4137.8	3507.1
30°	5169.7	5139.3	5105.6	5082.0	5098.9	5125.8	5156.2	5115.7	4916.7	4346.8	3621.8
32.5°	5432.7	5395.6	5318.0	5274.2	5318.0	5338.3	5361.9	5341.7	5162.9	4572.8	3736.5
35°	5753.1	5709.2	5628.3	5564.2	5641.8	5597.9	5587.8	5567.6	5395.6	4795.3	3864.6
37.5°	6285.9	6221.8	6093.7	5952.0	5952.0	5857.6	5820.5	5759.8	5604.7	4994.3	3989.4
40°	6903.0	6818.7	6653.5	6444.4	6252.2	6056.6	6033.0	5989.1	5850.9	5223.6	4131.0
42.5°	7580.8	7419.0	7189.6	6936.7	6626.5	6403.9	6350.0	6225.2	6090.3	5456.3	4272.6
45°	8332.8	7995.6	7661.8	7533.6	7021.0	6818.7	6717.5	6491.6	6339.8	5699.1	4421.0
47.5°	8454.2	8191.2	7968.6	7948.4	7388.6	7220.0	7105.3	6781.6	6609.6	5958.8	4576.2
50°	8386.8	8228.3	8251.9	8171.0	7658.4	7547.1	7459.4	7091.9	6876.0	6208.3	4717.8
52.5°	8103.5	8191.2	8326.1	8177.7	7914.7	7823.6	7779.8	7425.7	7125.6	6437.6	4845.9
55°	7766.3	7827.0	8117.0	8299.1	8211.4	8130.5	8090.0	7813.5	7371.8	6629.9	4964.0
57.5°	7274.0	7247.0	7567.3	8278.9	8521.7	8474.5	8430.6	8194.6	7601.1	6768.1	5038.2
60°	6535.4	6478.1	6882.8	7874.2	8622.9	8697.0	8676.8	8447.5	7776.4	6764.7	5007.8
62.5°	5257.3	5399.0	5958.8	7213.3	8666.7	8855.5	8818.4	8467.7	7833.8	6569.2	4815.6
65°	3908.4	4110.8	4660.5	6302.7	8606.0	8936.5	8835.3	8137.3	7567.3	6181.3	4394.0
67.5°	2815.8	2994.6	3395.9	5186.5	8022.6	8565.5	8447.5	7597.7	6953.6	5631.7	3810.6
70°	1925.6	2053.7	2326.9	3776.9	6849.1	7405.5	7331.3	6791.7	5985.8	4977.4	3095.7
72.5°	1359.0	1413.0	1588.3	2492.1	5203.4	5810.4	5722.7	5587.8	4808.8	4137.8	2407.8
75°	1018.4	1052.1	1146.6	1611.9	3510.5	4026.5	3945.5	4023.1	3591.5	3132.8	1753.6
77.5°	384.4	418.2	650.8	1028.5	2077.3	2471.9	2390.9	2438.1	1996.4	1581.6	873.4
80°	104.5	111.3	215.8	489.0	944.2	1230.9	1119.6	961.1	741.9	728.4	462.0
82.5°	43.8	50.6	97.8	263.0	337.2	337.2	283.3	350.7	283.3	340.6	222.6
85°	16.9	20.2	23.6	67.4	43.8	47.2	50.6	67.4	57.3	70.8	50.6
87.5°	0.0	0.0	0.0	3.4	3.4	6.7	3.4	6.7	10.1	10.1	10.1
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°	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8	2724.8
2.5°	2707.9	2670.8	2616.9	2529.2	2438.1	2387.6	2323.5	2313.4	2245.9	2239.2	2212.2
5°	2724.8	2647.2	2509.0	2340.3	2175.1	2047.0	1952.5	1902.0	1804.2	1804.2	1777.2
7.5°	2738.3	2616.9	2394.3	2144.8	1918.8	1746.8	1618.7	1564.7	1477.0	1470.3	1450.1
10°	2741.6	2579.8	2269.5	1945.8	1669.3	1493.9	1369.1	1308.4	1230.9	1224.1	1210.6
12.5°	2768.6	2559.5	2158.2	1773.8	1490.5	1301.7	1180.3	1129.7	1069.0	1062.3	1048.8
15°	2812.5	2559.5	2063.8	1628.8	1332.0	1156.7	1052.1	1004.9	961.1	954.3	947.6
17.5°	2856.3	2552.8	1969.4	1493.9	1200.5	1042.0	951.0	913.9	880.2	876.8	870.0
20°	2896.8	2549.4	1875.0	1379.3	1099.4	947.6	876.8	843.1	816.1	816.1	812.7
22.5°	2937.2	2542.7	1783.9	1271.3	1011.7	876.8	816.1	779.0	758.8	758.8	755.4
25°	2997.9	2542.7	1699.6	1180.3	940.9	822.8	762.1	735.2	718.3	714.9	714.9
27.5°	3068.8	2562.9	1625.4	1099.4	880.2	768.9	721.7	694.7	674.5	667.7	671.1
30°	3146.3	2579.8	1558.0	1028.5	822.8	728.4	677.8	650.8	630.6	623.9	627.2
32.5°	3223.9	2600.0	1497.3	964.5	765.5	691.3	640.7	610.4	590.1	586.8	586.8
35°	3308.2	2620.2	1436.6	910.5	718.3	654.2	607.0	573.3	559.8	553.0	556.4
37.5°	3392.5	2654.0	1379.3	859.9	684.6	620.5	576.7	542.9	532.8	529.4	529.4
40°	3493.7	2704.5	1355.6	826.2	654.2	590.1	553.0	519.3	509.2	509.2	509.2
42.5°	3578.0	2745.0	1335.4	789.1	630.6	563.2	529.4	502.5	495.7	492.3	495.7
45°	3662.3	2782.1	1308.4	755.4	600.3	536.2	509.2	482.2	475.5	475.5	475.5
47.5°	3746.6	2802.3	1271.3	721.7	573.3	512.6	489.0	465.4	458.6	458.6	458.6
50°	3814.0	2819.2	1217.4	684.6	542.9	492.3	468.7	445.1	438.4	438.4	438.4
52.5°	3881.5	2822.6	1160.1	640.7	512.6	468.7	448.5	424.9	418.2	414.8	414.8
55°	3942.2	2819.2	1092.6	590.1	478.9	441.8	424.9	404.7	391.2	377.7	384.4
57.5°	3986.0	2815.8	1015.0	539.6	445.1	414.8	408.0	381.1	354.1	320.4	327.1
60°	3969.1	2778.7	930.7	475.5	408.0	387.8	387.8	350.7	303.5	286.6	290.0
62.5°	3861.2	2674.2	843.1	408.0	370.9	360.8	357.5	317.0	279.9	263.0	266.4
65°	3537.5	2411.2	714.9	347.3	333.9	330.5	330.5	293.4	259.7	239.4	242.8
67.5°	3045.1	2023.4	583.4	293.4	296.8	303.5	303.5	269.8	236.1	215.8	219.2
70°	2441.5	1581.6	465.4	252.9	256.3	266.4	273.2	242.8	212.5	192.2	192.2
72.5°	1837.9	1200.5	374.3	212.5	229.3	229.3	239.4	215.8	185.5	165.2	168.6
75°	1332.0	859.9	296.8	178.7	199.0	195.6	195.6	182.1	158.5	145.0	145.0
77.5°	630.6	451.9	236.1	128.1	155.1	151.8	155.1	145.0	134.9	121.4	124.8
80°	310.2	222.6	151.8	91.1	107.9	111.3	121.4	114.7	111.3	101.2	101.2
82.5°	148.4	87.7	70.8	64.1	74.2	77.6	84.3	84.3	87.7	80.9	80.9
85°	40.5	23.6	30.4	40.5	47.2	50.6	57.3	60.7	60.7	57.3	60.7
87.5°	10.1	10.1	13.5	20.2	23.6	27.0	30.4	30.4	13.5	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)