

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: P836857

Luminaire Tested: **ARCH3-80-750-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9465 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 81.9
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

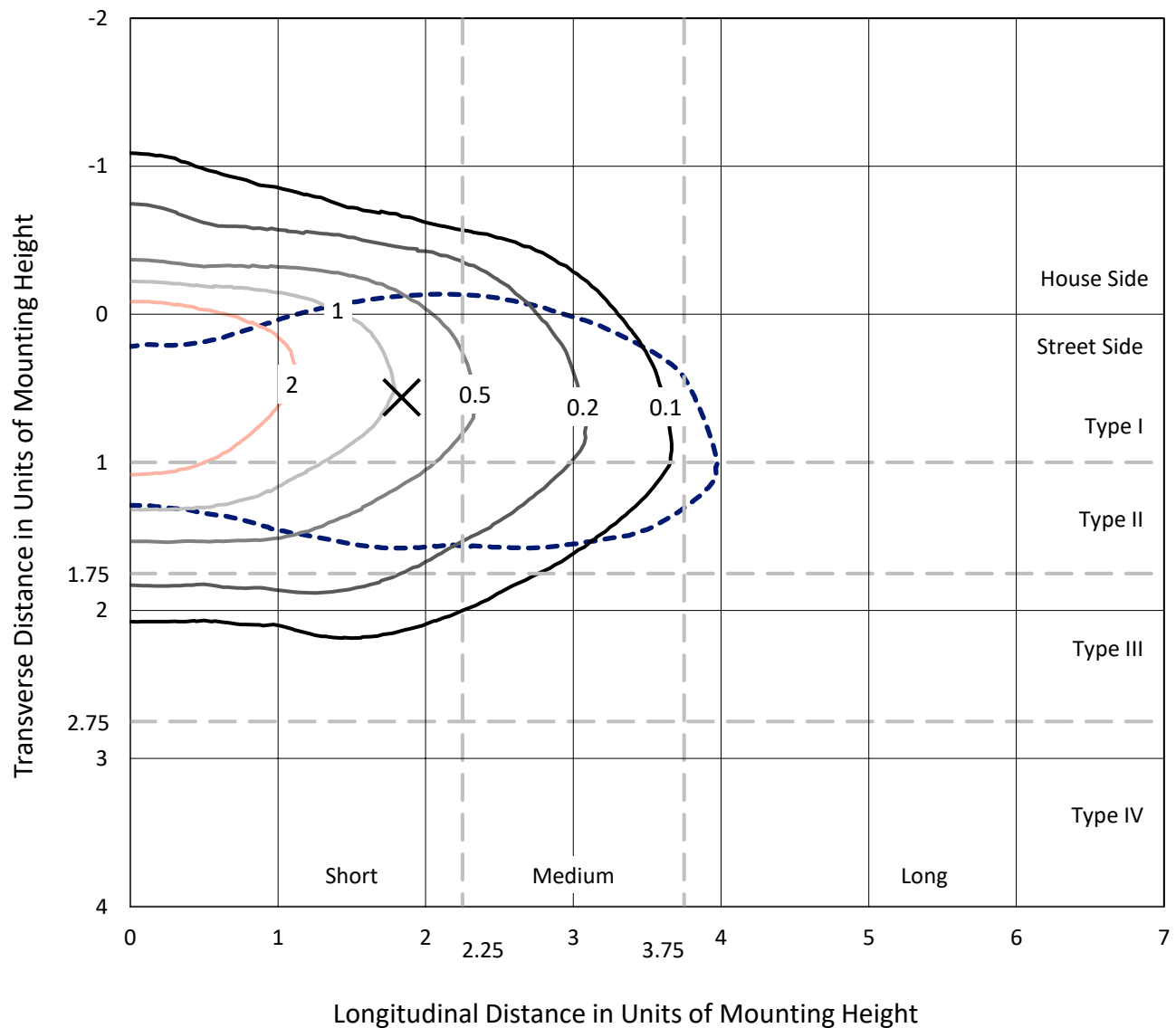


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Iso-Footcandle Lines of Horizontal Illumination

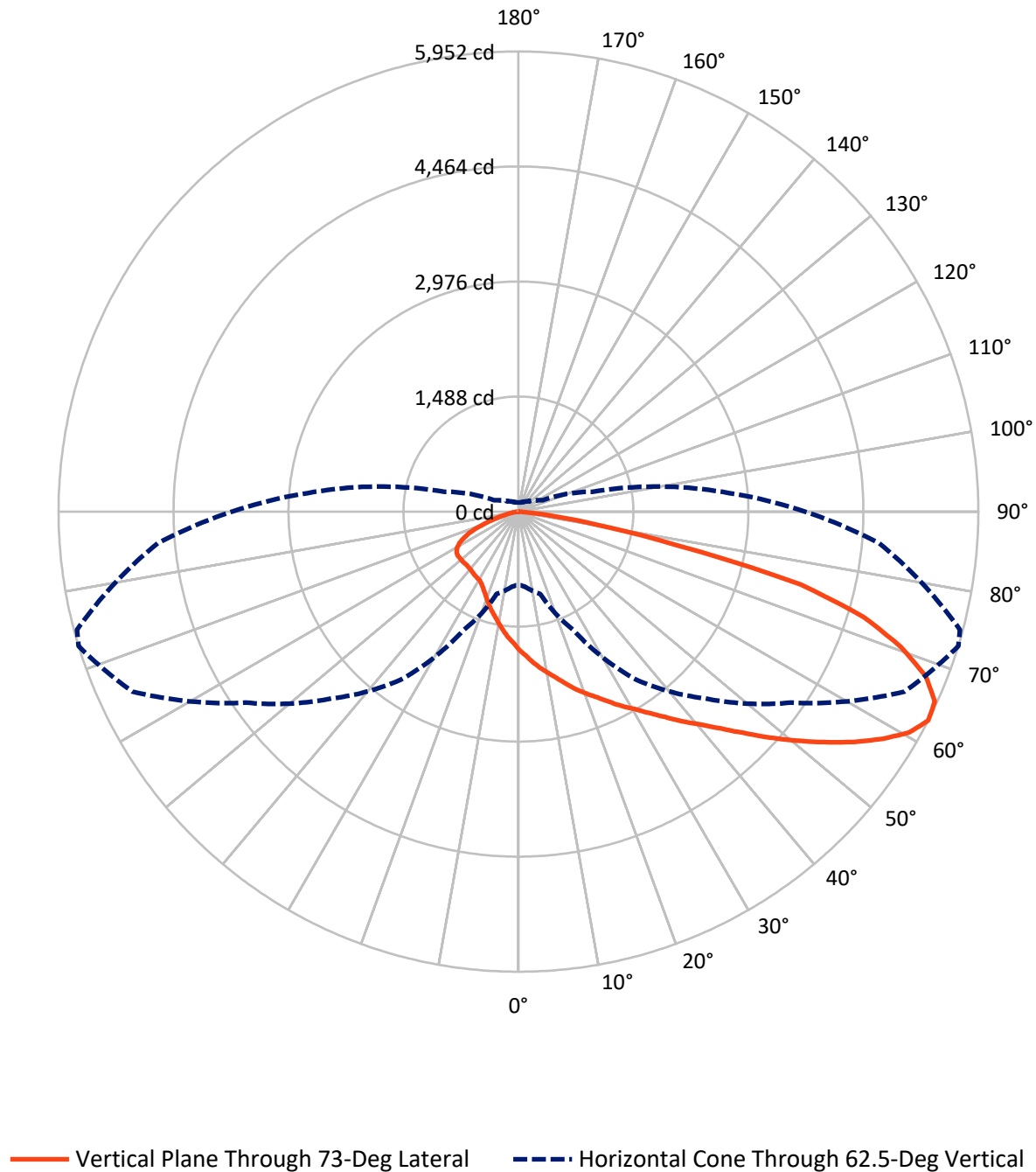
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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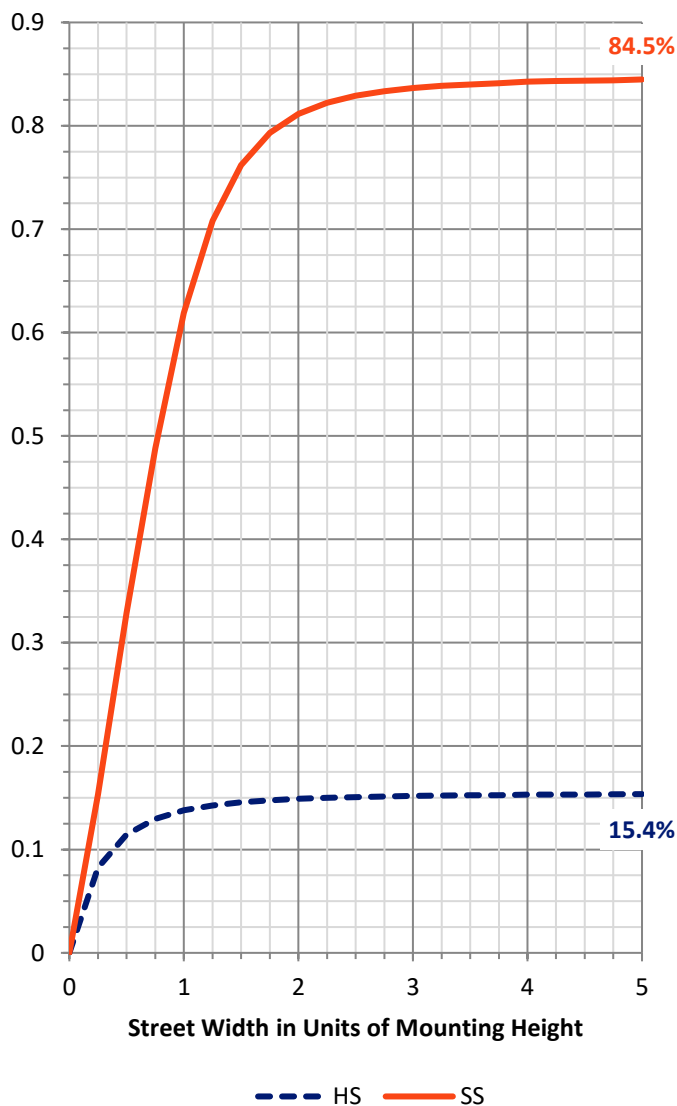
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.2	0.0	1467.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7997.8	0.0	7997.8
	% Fixture	84.5	0.0	84.5
Total	Lumens	9465.0	0.0	9465.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.8
10°-20°	522.5	5.5
20°-30°	869.6	9.2
30°-40°	1312.2	13.9
40°-50°	1834.0	19.4
50°-60°	2025.8	21.4
60°-70°	1764.7	18.6
70°-80°	891.5	9.4
80°-90°	71.5	0.8
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°	9465.0	100.0
0°-180°	9465.0	100.0

Coefficient of Utilization



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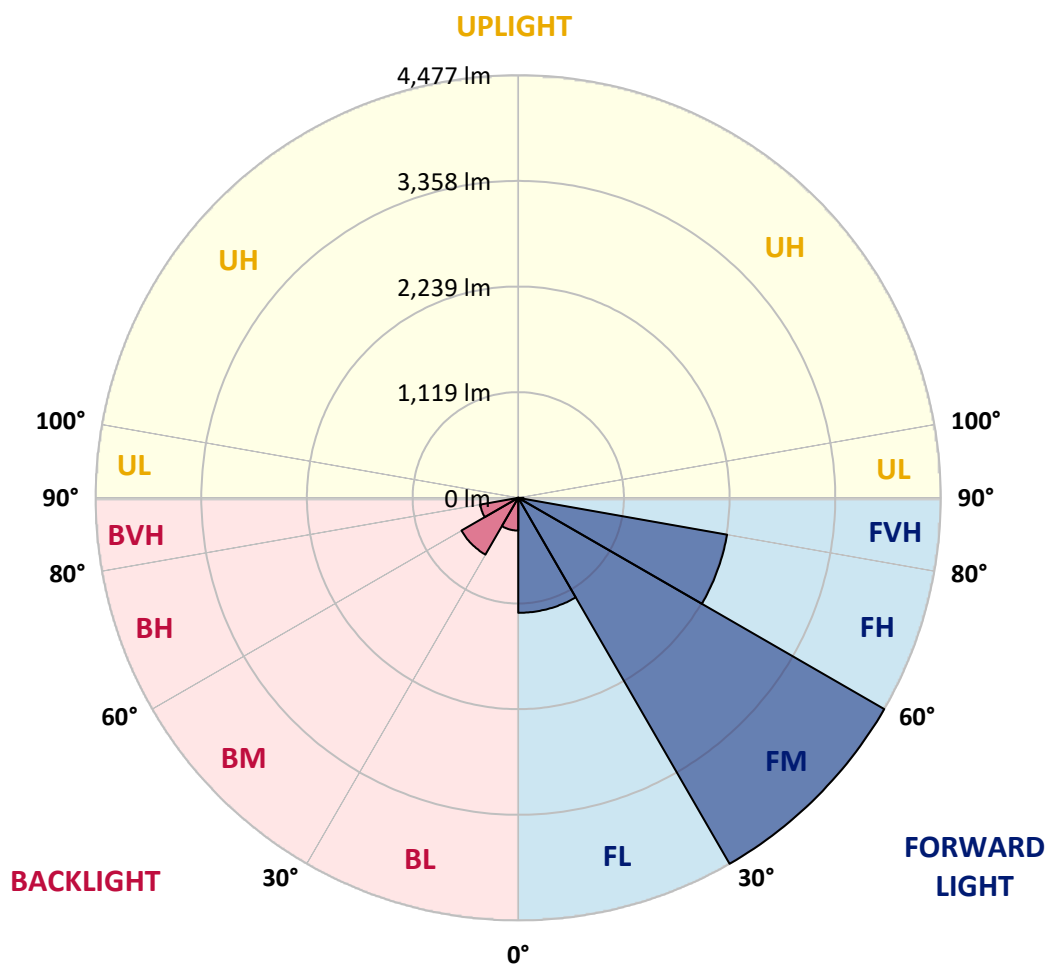
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1218.4	12.9			
FM	(30°-60°)	4477.3	47.3			
FH	(60°-80°)	2246.7	23.7			G2/5000
FVH	(80°-90°)	55.4	0.6			G1/100
BL	(0°-30°)	346.8	3.7	B1/500		
BM	(30°-60°)	694.7	7.3	B1/1000		
BH	(60°-80°)	409.5	4.3	B1/500		G1/500
BVH	(80°-90°)	16.2	0.2			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2
2.5°	2039.7	2062.4	2050.0	2058.3	2017.0	1990.2	1959.3	1899.5	1866.5	1862.3	1823.2
5°	2338.8	2363.5	2342.9	2336.7	2264.5	2202.6	2132.5	2027.3	1957.2	1944.8	1858.2
7.5°	2637.8	2660.5	2635.7	2617.2	2520.2	2410.9	2307.8	2153.1	2043.8	2023.2	1887.1
10°	2848.2	2868.8	2850.2	2831.7	2730.6	2619.2	2472.8	2270.7	2122.2	2089.2	1905.6
12.5°	3007.0	3019.3	3011.1	2994.6	2899.7	2780.1	2639.9	2402.7	2210.9	2169.6	1934.5
15°	3136.9	3157.5	3147.2	3134.8	3044.1	2924.5	2790.4	2540.9	2314.0	2262.4	1977.8
17.5°	3223.5	3238.0	3240.0	3240.0	3159.6	3042.0	2912.1	2666.7	2417.1	2351.1	2019.1
20°	3262.7	3279.2	3289.5	3306.0	3240.0	3139.0	3007.0	2773.9	2514.1	2439.8	2058.3
22.5°	3281.3	3295.7	3322.5	3359.6	3306.0	3221.5	3099.8	2872.9	2611.0	2532.6	2103.6
25°	3295.7	3314.3	3353.4	3423.6	3386.4	3314.3	3209.1	2986.3	2726.5	2646.0	2169.6
27.5°	3334.9	3357.6	3394.7	3479.3	3433.9	3398.8	3324.6	3108.0	2848.2	2765.7	2250.1
30°	3471.0	3489.6	3487.5	3541.1	3485.4	3475.1	3423.6	3225.6	2965.7	2883.2	2344.9
32.5°	3718.5	3737.1	3691.7	3671.1	3549.4	3551.4	3530.8	3351.4	3106.0	3021.4	2454.2
35°	3984.5	4005.2	3945.4	3910.3	3706.1	3646.3	3656.6	3508.1	3262.7	3178.1	2590.4
37.5°	4221.7	4246.5	4194.9	4143.3	3937.1	3798.9	3796.9	3683.4	3442.1	3355.5	2740.9
40°	4351.6	4380.5	4411.5	4382.6	4166.0	4013.4	3947.4	3862.9	3619.5	3530.8	2903.8
42.5°	4413.5	4494.0	4549.6	4531.1	4353.7	4199.0	4120.7	4050.5	3836.0	3749.4	3097.7
45°	4240.3	4242.3	4359.9	4461.0	4428.0	4324.8	4310.4	4260.9	4083.5	4001.0	3316.3
47.5°	4023.7	4007.2	4089.7	4269.1	4362.0	4388.8	4473.3	4494.0	4366.1	4283.6	3539.1
50°	3504.0	3514.3	3782.4	4040.2	4221.7	4395.0	4588.8	4733.2	4656.9	4578.5	3774.2
52.5°	2850.2	2875.0	3182.3	3749.4	4036.1	4333.1	4656.9	4972.4	4953.9	4879.6	4009.3
55°	2285.1	2324.3	2650.2	3264.8	3798.9	4194.9	4685.8	5191.0	5261.2	5193.1	4240.3
57.5°	1746.8	1788.1	2062.4	2693.5	3495.8	3970.1	4665.1	5382.8	5547.8	5504.5	4452.7
60°	1315.8	1357.1	1532.4	2184.1	3116.3	3718.5	4562.0	5508.6	5805.6	5760.3	4607.4
62.5°	942.5	975.5	1105.4	1699.4	2654.3	3419.4	4308.3	5510.7	5952.1	5914.9	4681.6
65°	678.5	678.5	783.7	1212.7	2221.2	3060.6	3924.7	5257.0	5921.1	5910.8	4630.1
67.5°	488.8	492.9	577.5	847.6	1771.6	2625.4	3427.7	4805.4	5681.9	5733.4	4444.5
70°	346.5	356.8	396.0	591.9	1338.5	2072.7	2895.6	4213.5	5250.8	5341.6	4085.6
72.5°	268.1	274.3	301.1	412.5	977.6	1540.6	2307.8	3553.5	4675.4	4778.6	3596.8
75°	206.2	212.4	233.1	303.2	701.2	1080.7	1639.6	2757.4	3770.1	3953.6	2889.4
77.5°	150.6	158.8	173.2	220.7	408.4	686.8	994.1	1550.9	2081.0	2167.6	1513.8
80°	70.1	80.4	101.1	142.3	220.7	323.8	352.7	598.1	1000.3	1045.6	820.8
82.5°	39.2	49.5	57.7	86.6	111.4	115.5	119.6	150.6	377.4	416.6	344.4
85°	18.6	24.7	26.8	37.1	37.1	33.0	39.2	28.9	61.9	74.2	72.2
87.5°	0.0	2.1	4.1	10.3	8.2	6.2	6.2	6.2	6.2	8.2	6.2
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°	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2	1792.2
2.5°	1804.6	1777.8	1715.9	1662.3	1627.2	1596.3	1555.0	1536.5	1503.5	1509.7	1491.1
5°	1814.9	1765.4	1656.1	1555.0	1480.8	1414.8	1342.6	1301.4	1256.0	1251.9	1237.4
7.5°	1821.1	1744.8	1588.0	1445.7	1332.3	1231.2	1134.3	1080.7	1025.0	1012.6	1000.3
10°	1814.9	1713.8	1517.9	1332.3	1181.8	1055.9	946.6	878.6	820.8	806.4	794.0
12.5°	1821.1	1697.3	1451.9	1227.1	1047.7	905.4	781.6	711.5	657.9	643.5	635.2
15°	1835.5	1687.0	1396.2	1132.3	928.1	769.3	647.6	587.8	544.5	530.0	525.9
17.5°	1847.9	1676.7	1336.4	1039.4	808.5	649.7	544.5	495.0	457.9	443.4	439.3
20°	1864.4	1662.3	1276.6	950.8	703.3	554.8	462.0	418.7	389.8	379.5	377.4
22.5°	1878.8	1652.0	1220.9	862.1	606.3	478.5	400.1	365.0	344.4	334.1	334.1
25°	1916.0	1656.1	1173.5	779.6	534.2	418.7	352.7	325.9	309.4	303.2	303.2
27.5°	1959.3	1672.6	1136.4	709.5	472.3	373.3	319.7	297.0	288.7	280.5	282.5
30°	2021.1	1705.6	1111.6	651.7	426.9	338.2	292.9	276.4	268.1	266.0	266.0
32.5°	2099.5	1759.2	1109.6	614.6	393.9	311.4	274.3	259.9	255.7	253.7	253.7
35°	2192.3	1806.7	1097.2	598.1	373.3	292.9	259.9	249.5	247.5	247.5	247.5
37.5°	2303.7	1885.0	1088.9	575.4	363.0	282.5	249.5	241.3	241.3	241.3	241.3
40°	2419.2	1949.0	1076.6	554.8	358.9	276.4	243.4	233.1	233.1	233.1	233.1
42.5°	2557.4	2041.8	1072.4	544.5	352.7	272.2	235.1	222.7	224.8	224.8	226.9
45°	2724.4	2146.9	1070.4	534.2	350.6	268.1	226.9	212.4	214.5	212.4	212.4
47.5°	2893.5	2268.6	1076.6	528.0	348.5	264.0	220.7	202.1	202.1	200.1	200.1
50°	3070.9	2380.0	1080.7	521.8	344.4	255.7	210.4	193.9	189.7	185.6	187.7
52.5°	3238.0	2483.1	1082.8	511.5	332.0	243.4	202.1	183.6	177.4	171.2	173.2
55°	3405.0	2582.1	1086.9	499.1	315.5	231.0	191.8	173.2	165.0	156.7	156.7
57.5°	3555.6	2668.7	1076.6	468.2	297.0	218.6	181.5	160.9	148.5	140.2	140.2
60°	3658.7	2730.6	1045.6	422.8	272.2	204.2	171.2	148.5	134.1	127.9	127.9
62.5°	3708.2	2740.9	989.9	348.5	241.3	189.7	158.8	136.1	123.7	119.6	119.6
65°	3660.7	2695.5	903.3	261.9	208.3	173.2	146.4	125.8	113.4	103.1	103.1
67.5°	3495.8	2567.7	783.7	198.0	177.4	156.7	134.1	115.5	101.1	92.8	92.8
70°	3163.7	2301.6	606.3	158.8	150.6	136.1	121.7	103.1	90.7	80.4	80.4
72.5°	2728.5	1951.0	426.9	127.9	127.9	115.5	103.1	90.7	78.4	70.1	70.1
75°	2093.3	1443.7	286.7	103.1	105.2	96.9	84.6	74.2	66.0	59.8	59.8
77.5°	1142.6	713.6	175.3	76.3	78.4	74.2	66.0	59.8	55.7	49.5	49.5
80°	554.8	313.5	101.1	53.6	55.7	53.6	49.5	43.3	43.3	39.2	39.2
82.5°	233.1	117.6	53.6	37.1	37.1	33.0	30.9	30.9	30.9	28.9	28.9
85°	57.7	22.7	22.7	20.6	20.6	20.6	18.6	18.6	18.6	14.4	16.5
87.5°	8.2	8.2	8.2	8.2	8.2	8.2	6.2	2.1	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)