

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: P836713

Luminaire Tested: **ARCH3-60-750-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836713
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: ARCH3-60-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 505mA 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: 7518 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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



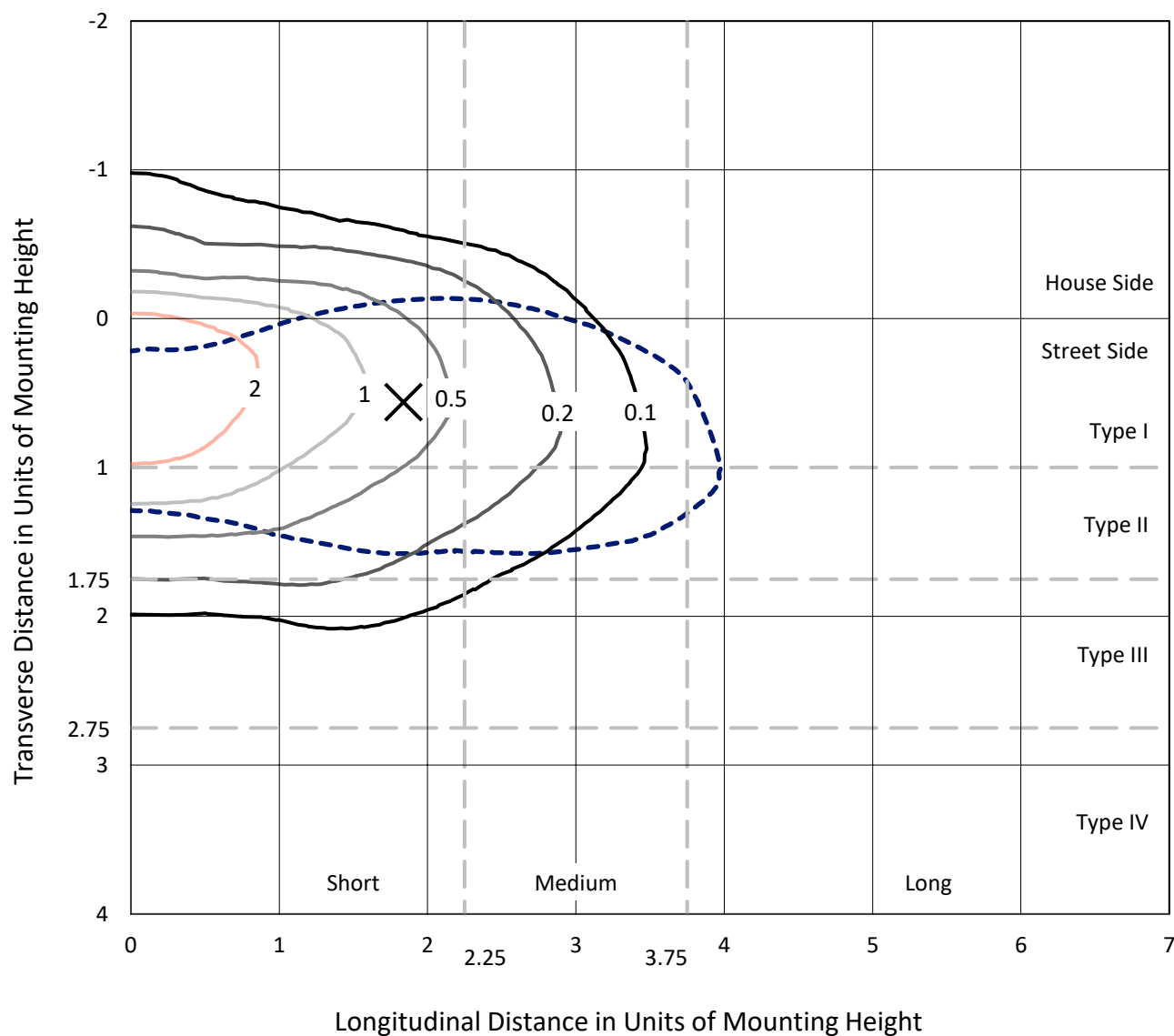
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

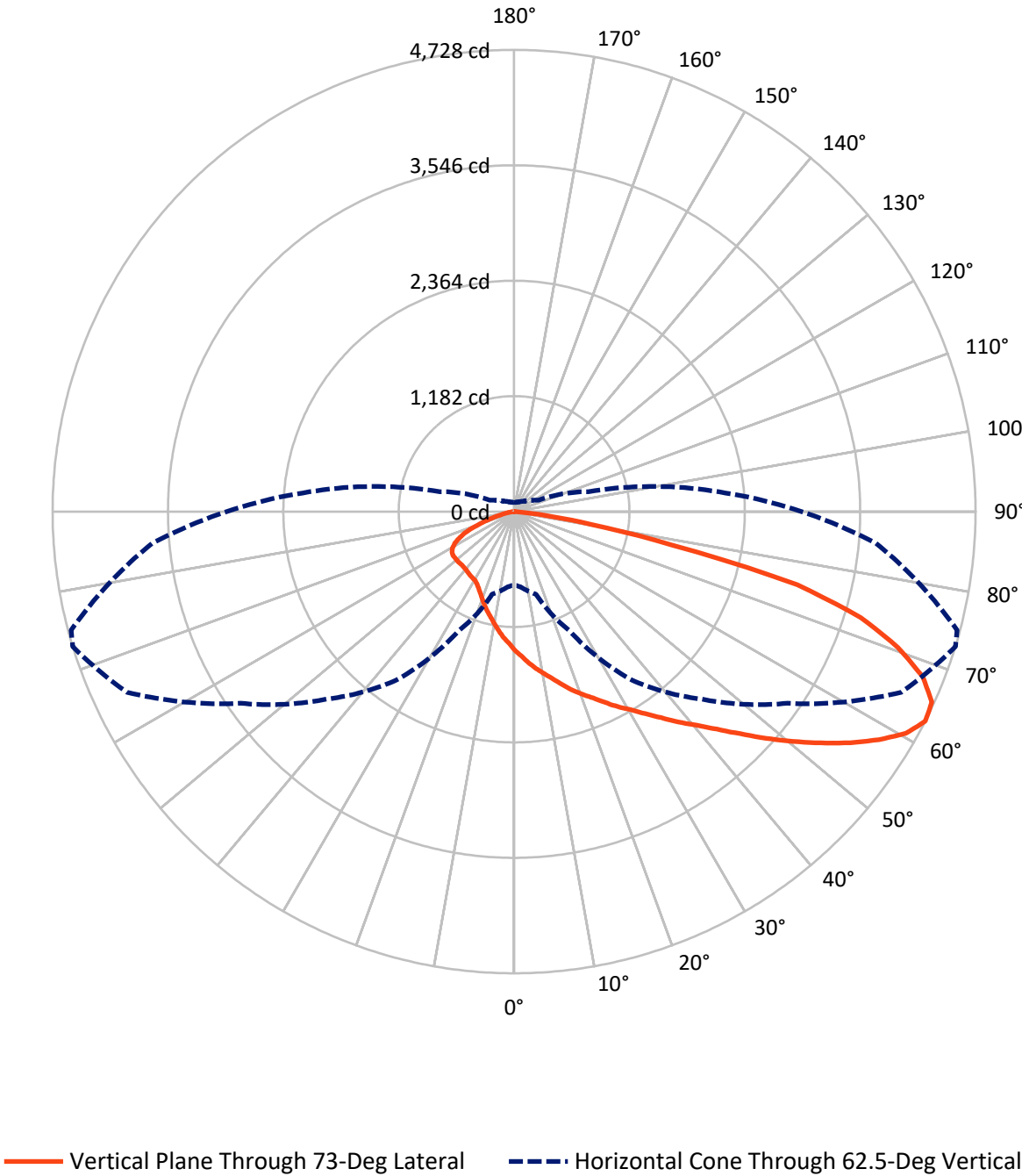


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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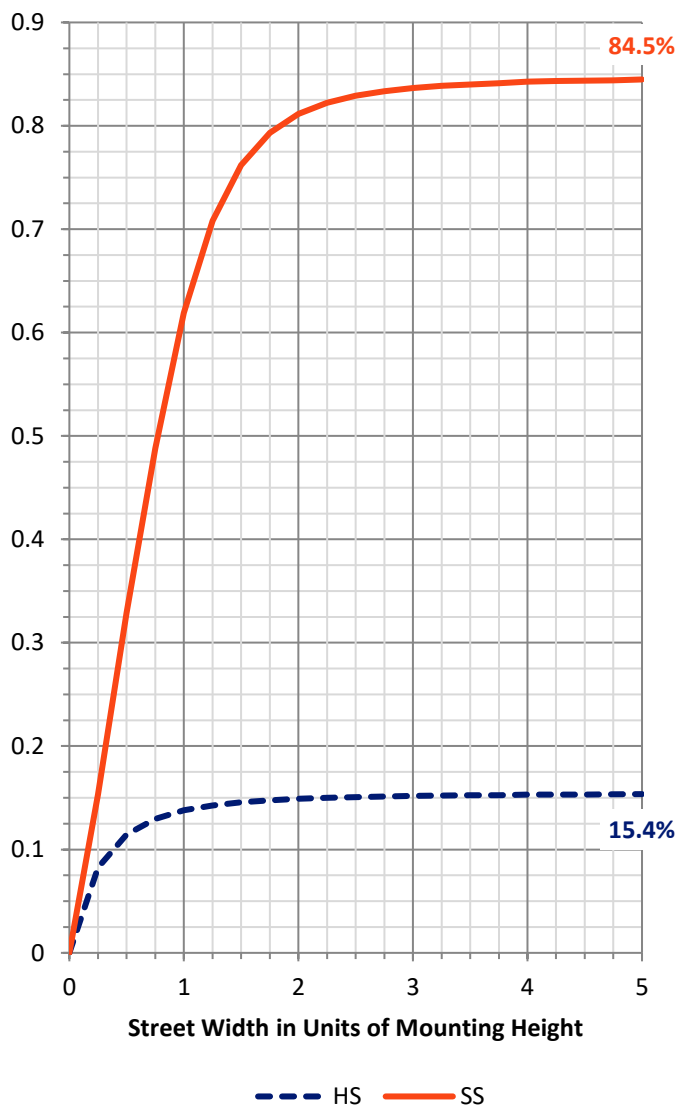
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1165.4	0.0	1165.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6352.6	0.0	6352.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	7518.0	0.0	7518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.5	1.8
10°-20°	415.0	5.5
20°-30°	690.7	9.2
30°-40°	1042.2	13.9
40°-50°	1456.8	19.4
50°-60°	1609.1	21.4
60°-70°	1401.7	18.6
70°-80°	708.1	9.4
80°-90°	56.8	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°	7518.0	100.0
0°-180°	7518.0	100.0

Coefficient of Utilization



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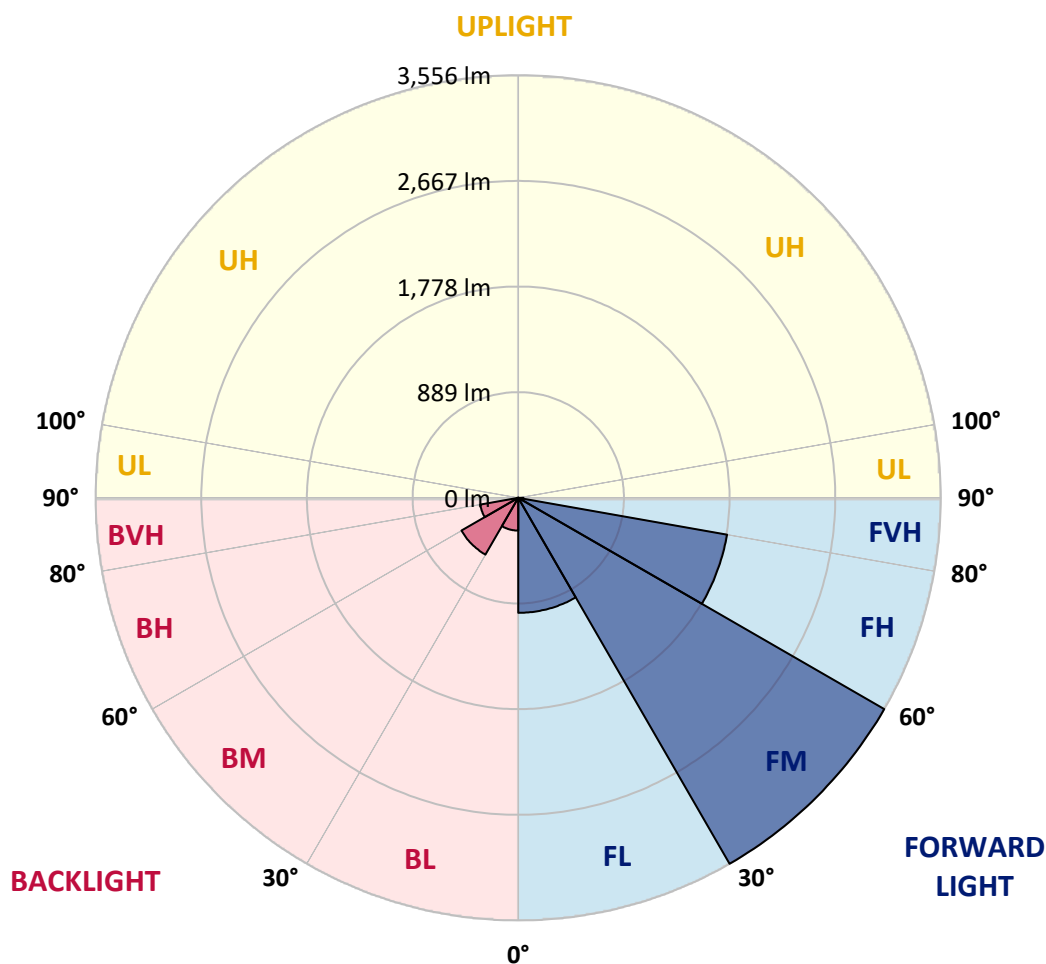
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	967.8	12.9			
FM	(30°-60°)	3556.3	47.3			
FH	(60°-80°)	1784.5	23.7			G1/1800
FVH	(80°-90°)	44.0	0.6			G1/100
BL	(0°-30°)	275.5	3.7	B1/500		
BM	(30°-60°)	551.8	7.3	B1/1000		
BH	(60°-80°)	325.3	4.3	B1/500		G1/500
BVH	(80°-90°)	12.9	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1620.1	1638.1	1628.3	1634.9	1602.1	1580.8	1556.2	1508.7	1482.5	1479.2	1448.1
5°	1857.7	1877.3	1860.9	1856.0	1798.7	1749.5	1693.8	1610.3	1554.6	1544.8	1476.0
7.5°	2095.2	2113.2	2093.6	2078.8	2001.8	1915.0	1833.1	1710.2	1623.4	1607.0	1498.9
10°	2262.3	2278.7	2263.9	2249.2	2168.9	2080.4	1964.1	1803.6	1685.7	1659.4	1513.6
12.5°	2388.4	2398.2	2391.7	2378.6	2303.2	2208.2	2096.8	1908.4	1756.1	1723.3	1536.6
15°	2491.6	2508.0	2499.8	2490.0	2417.9	2322.9	2216.4	2018.2	1838.0	1797.0	1571.0
17.5°	2560.4	2571.9	2573.5	2573.5	2509.6	2416.3	2313.1	2118.1	1919.9	1867.5	1603.7
20°	2591.5	2604.7	2612.8	2625.9	2573.5	2493.3	2388.4	2203.3	1996.9	1937.9	1634.9
22.5°	2606.3	2617.8	2639.1	2668.5	2625.9	2558.8	2462.1	2281.9	2073.9	2011.6	1670.9
25°	2617.8	2632.5	2663.6	2719.3	2689.8	2632.5	2549.0	2372.0	2165.6	2101.7	1723.3
27.5°	2648.9	2666.9	2696.4	2763.6	2727.5	2699.7	2640.7	2468.7	2262.3	2196.8	1787.2
30°	2757.0	2771.7	2770.1	2812.7	2768.5	2760.3	2719.3	2562.1	2355.7	2290.1	1862.6
32.5°	2953.6	2968.3	2932.3	2915.9	2819.2	2820.9	2804.5	2662.0	2467.0	2399.9	1949.4
35°	3164.9	3181.3	3133.8	3105.9	2943.7	2896.2	2904.4	2786.5	2591.5	2524.4	2057.5
37.5°	3353.3	3372.9	3332.0	3291.0	3127.2	3017.5	3015.8	2925.7	2734.1	2665.3	2177.1
40°	3456.5	3479.4	3504.0	3481.1	3309.1	3187.8	3135.4	3068.2	2874.9	2804.5	2306.5
42.5°	3505.6	3569.5	3613.8	3599.0	3458.1	3335.3	3273.0	3217.3	3047.0	2978.2	2460.5
45°	3368.0	3369.7	3463.0	3543.3	3517.1	3435.2	3423.7	3384.4	3243.5	3178.0	2634.1
47.5°	3196.0	3182.9	3248.4	3391.0	3464.7	3486.0	3553.1	3569.5	3468.0	3402.4	2811.1
50°	2783.2	2791.4	3004.4	3209.1	3353.3	3490.9	3644.9	3759.5	3698.9	3636.7	2997.8
52.5°	2263.9	2283.6	2527.7	2978.2	3205.9	3441.7	3698.9	3949.6	3934.8	3875.9	3184.6
55°	1815.1	1846.2	2105.0	2593.2	3017.5	3332.0	3721.9	4123.2	4178.9	4124.9	3368.0
57.5°	1387.5	1420.3	1638.1	2139.4	2776.7	3153.4	3705.5	4275.6	4406.6	4372.2	3536.8
60°	1045.1	1077.9	1217.1	1734.8	2475.2	2953.6	3623.6	4375.5	4611.4	4575.3	3659.6
62.5°	748.6	774.8	878.0	1349.8	2108.3	2716.0	3422.1	4377.1	4727.7	4698.2	3718.6
65°	539.0	539.0	622.5	963.2	1764.3	2431.0	3117.4	4175.6	4703.1	4694.9	3677.6
67.5°	388.2	391.5	458.7	673.3	1407.2	2085.4	2722.6	3816.9	4513.1	4554.0	3530.2
70°	275.2	283.4	314.5	470.1	1063.2	1646.3	2300.0	3346.7	4170.7	4242.8	3245.2
72.5°	213.0	217.9	239.2	327.6	776.5	1223.7	1833.1	2822.5	3713.7	3795.6	2856.9
75°	163.8	168.7	185.1	240.8	557.0	858.4	1302.3	2190.2	2994.5	3140.3	2295.0
77.5°	119.6	126.1	137.6	175.3	324.4	545.5	789.6	1231.9	1652.9	1721.7	1202.4
80°	55.7	63.9	80.3	113.0	175.3	257.2	280.1	475.1	794.5	830.5	652.0
82.5°	31.1	39.3	45.9	68.8	88.5	91.7	95.0	119.6	299.8	330.9	273.6
85°	14.7	19.7	21.3	29.5	29.5	26.2	31.1	22.9	49.1	59.0	57.3
87.5°	0.0	1.6	3.3	8.2	6.6	4.9	4.9	4.9	4.9	6.6	4.9
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°	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1433.4	1412.1	1362.9	1320.3	1292.5	1267.9	1235.2	1220.4	1194.2	1199.1	1184.4
5°	1441.6	1402.3	1315.4	1235.2	1176.2	1123.8	1066.4	1033.7	997.6	994.4	982.9
7.5°	1446.5	1385.9	1261.4	1148.3	1058.2	978.0	901.0	858.4	814.2	804.3	794.5
10°	1441.6	1361.3	1205.7	1058.2	938.7	838.7	751.9	697.9	652.0	640.5	630.7
12.5°	1446.5	1348.2	1153.3	974.7	832.2	719.1	620.9	565.2	522.6	511.1	504.5
15°	1458.0	1340.0	1109.0	899.3	737.2	611.0	514.4	466.9	432.5	421.0	417.7
17.5°	1467.8	1331.8	1061.5	825.6	642.2	516.0	432.5	393.2	363.7	352.2	348.9
20°	1480.9	1320.3	1014.0	755.2	558.6	440.7	366.9	332.5	309.6	301.4	299.8
22.5°	1492.4	1312.2	969.8	684.7	481.6	380.0	317.8	290.0	273.6	265.4	265.4
25°	1521.8	1315.4	932.1	619.2	424.3	332.5	280.1	258.8	245.7	240.8	240.8
27.5°	1556.2	1328.5	902.6	563.5	375.1	296.5	253.9	235.9	229.3	222.8	224.4
30°	1605.4	1354.7	883.0	517.7	339.1	268.7	232.6	219.5	213.0	211.3	211.3
32.5°	1667.6	1397.3	881.3	488.2	312.9	247.4	217.9	206.4	203.1	201.5	201.5
35°	1741.3	1435.0	871.5	475.1	296.5	232.6	206.4	198.2	196.6	196.6	196.6
37.5°	1829.8	1497.3	864.9	457.0	288.3	224.4	198.2	191.7	191.7	191.7	191.7
40°	1921.5	1548.0	855.1	440.7	285.0	219.5	193.3	185.1	185.1	185.1	185.1
42.5°	2031.3	1621.8	851.8	432.5	280.1	216.2	186.7	176.9	178.6	178.6	180.2
45°	2164.0	1705.3	850.2	424.3	278.5	213.0	180.2	168.7	170.4	168.7	168.7
47.5°	2298.3	1802.0	855.1	419.4	276.8	209.7	175.3	160.5	160.5	158.9	158.9
50°	2439.2	1890.4	858.4	414.5	273.6	203.1	167.1	154.0	150.7	147.4	149.1
52.5°	2571.9	1972.3	860.0	406.3	263.7	193.3	160.5	145.8	140.9	136.0	137.6
55°	2704.6	2051.0	863.3	396.4	250.6	183.5	152.3	137.6	131.1	124.5	124.5
57.5°	2824.2	2119.8	855.1	371.9	235.9	173.6	144.2	127.8	117.9	111.4	111.4
60°	2906.1	2168.9	830.5	335.8	216.2	162.2	136.0	117.9	106.5	101.6	101.6
62.5°	2945.4	2177.1	786.3	276.8	191.7	150.7	126.1	108.1	98.3	95.0	95.0
65°	2907.7	2141.1	717.5	208.0	165.5	137.6	116.3	99.9	90.1	81.9	81.9
67.5°	2776.7	2039.5	622.5	157.3	140.9	124.5	106.5	91.7	80.3	73.7	73.7
70°	2512.9	1828.2	481.6	126.1	119.6	108.1	96.7	81.9	72.1	63.9	63.9
72.5°	2167.3	1549.7	339.1	101.6	101.6	91.7	81.9	72.1	62.2	55.7	55.7
75°	1662.7	1146.7	227.7	81.9	83.5	77.0	67.2	59.0	52.4	47.5	47.5
77.5°	907.5	566.8	139.2	60.6	62.2	59.0	52.4	47.5	44.2	39.3	39.3
80°	440.7	249.0	80.3	42.6	44.2	42.6	39.3	34.4	34.4	31.1	31.1
82.5°	185.1	93.4	42.6	29.5	29.5	26.2	24.6	24.6	24.6	22.9	22.9
85°	45.9	18.0	18.0	16.4	16.4	16.4	14.7	14.7	14.7	11.5	13.1
87.5°	6.6	6.6	6.6	6.6	6.6	6.6	4.9	1.6	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)