

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: P835899

Luminaire Tested: **ARCH3-110-730-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16590 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 111.9
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



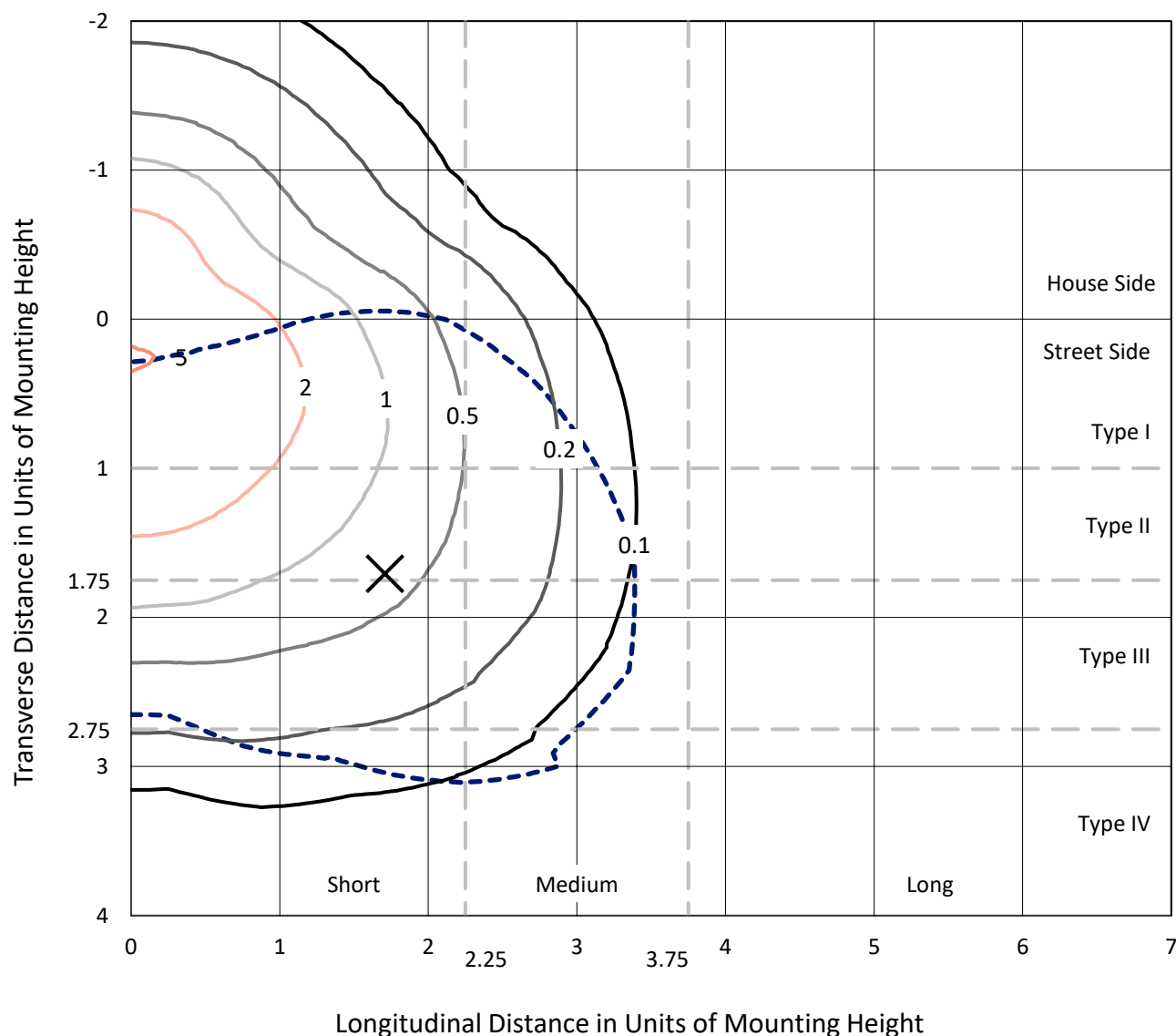
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

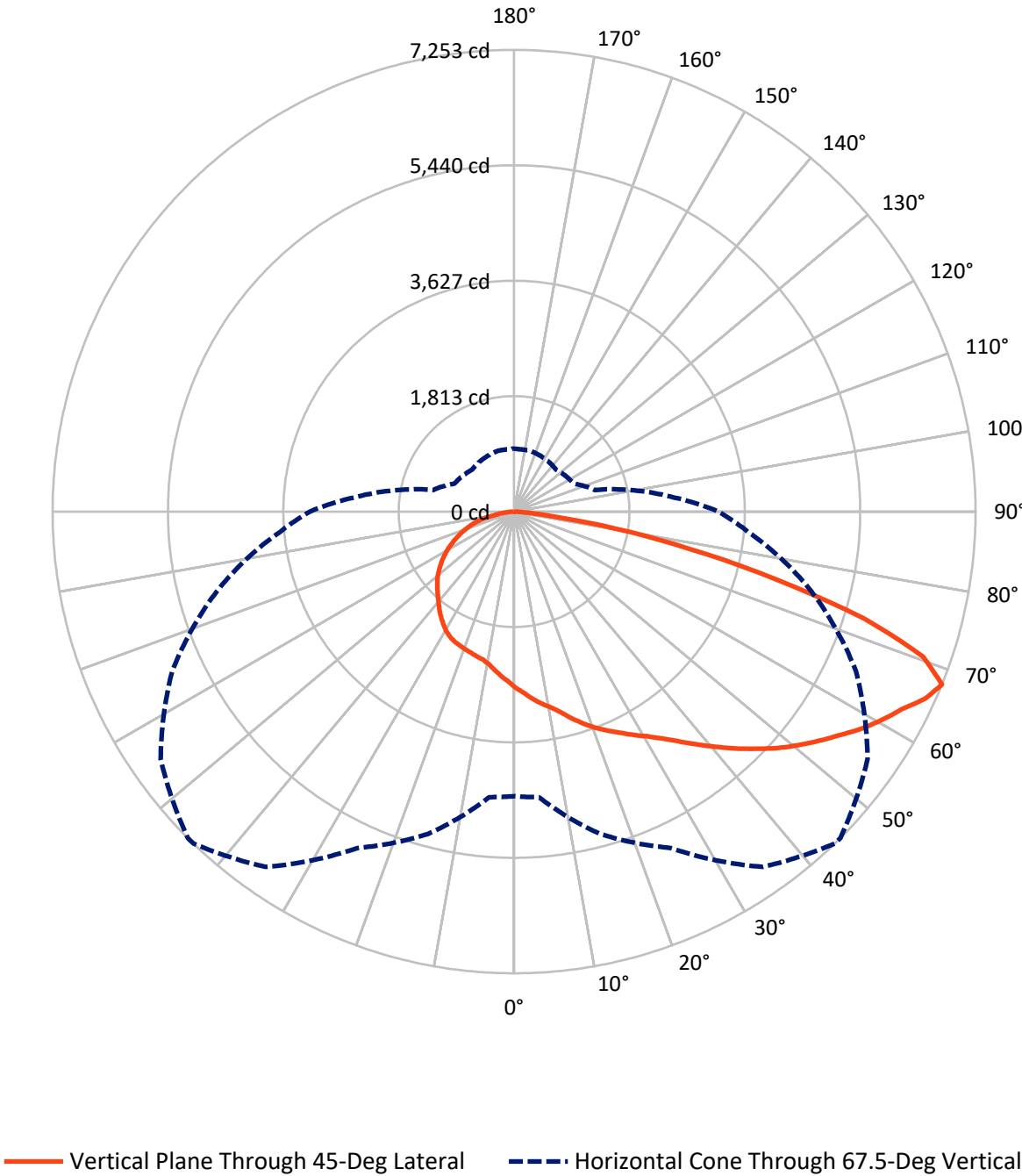


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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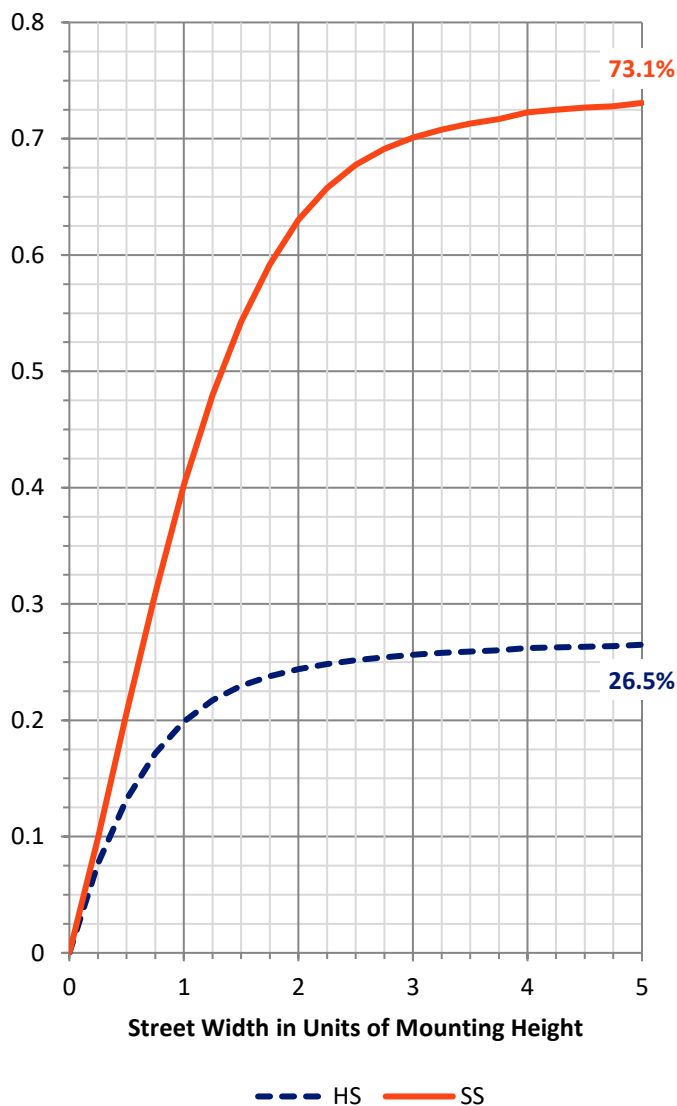
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4432.0	0.0	4432.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	12158.0	0.0	12158.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	16590.0	0.0	16590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.9	1.6
10°-20°	818.4	4.9
20°-30°	1412.6	8.5
30°-40°	2083.1	12.6
40°-50°	2822.2	17.0
50°-60°	3449.3	20.8
60°-70°	3557.5	21.4
70°-80°	1948.5	11.7
80°-90°	233.5	1.4
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°	16590.0	100.0
0°-180°	16590.0	100.0

Coefficient of Utilization



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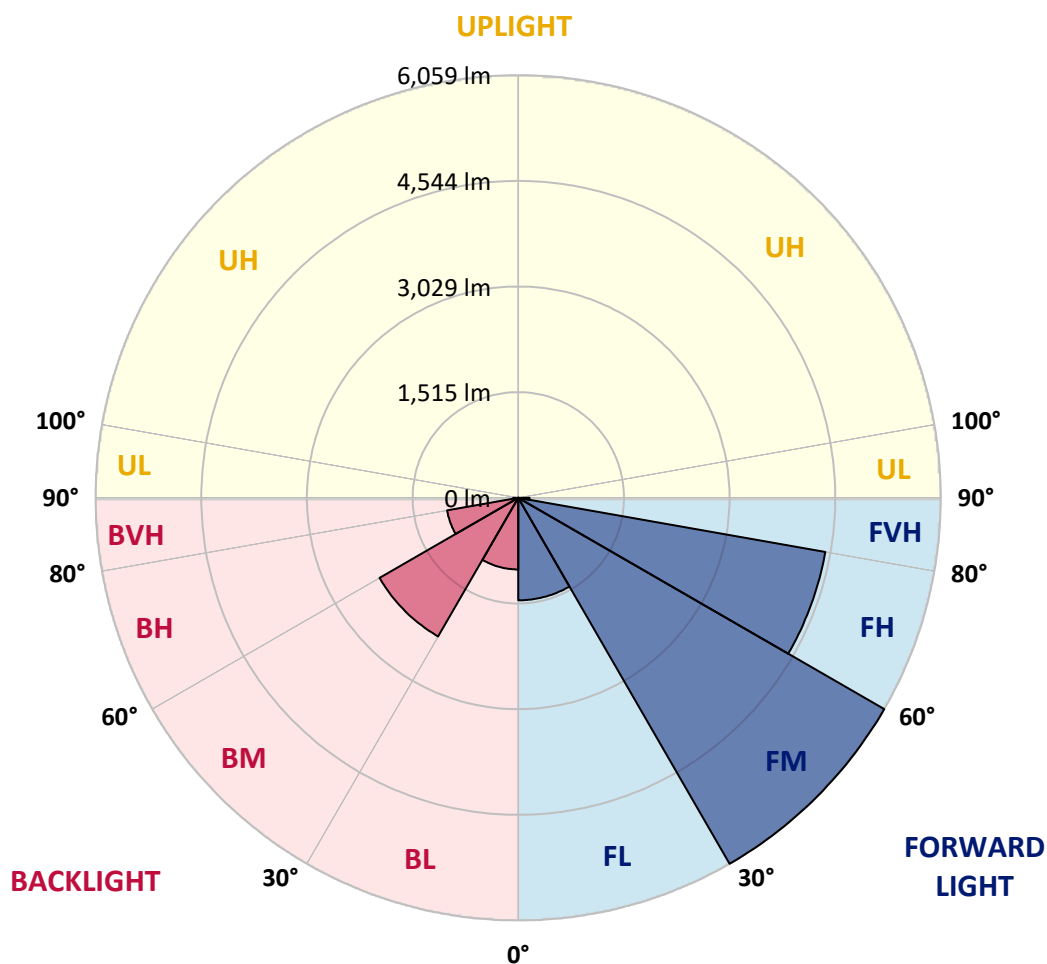
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1468.7	8.9			
FM	(30°-60°)	6058.8	36.5			
FH	(60°-80°)	4469.6	26.9			G2/5000
FVH	(80°-90°)	160.9	1.0			G2/225
BL	(0°-30°)	1027.2	6.2	B3/2500		
BM	(30°-60°)	2295.7	13.8	B2/2500		
BH	(60°-80°)	1036.5	6.2	B3/2500		G3/2500
BVH	(80°-90°)	72.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9
2.5°	2888.1	2885.6	2890.6	2872.9	2850.2	2847.7	2847.7	2832.5	2814.9	2779.5	2751.8
5°	3024.4	3019.4	3021.9	2996.6	2966.3	2951.2	2948.7	2915.8	2875.5	2819.9	2769.4
7.5°	3150.6	3145.6	3143.1	3115.3	3069.8	3044.6	3042.1	2994.1	2946.1	2860.3	2787.1
10°	3269.3	3264.2	3259.2	3221.3	3165.8	3127.9	3122.9	3062.3	3001.7	2895.6	2802.2
12.5°	3420.8	3410.7	3405.6	3360.2	3279.4	3239.0	3231.4	3150.6	3074.9	2946.1	2832.5
15°	3579.8	3572.2	3564.7	3521.7	3430.9	3377.8	3365.2	3264.2	3160.7	3011.8	2878.0
17.5°	3698.5	3690.9	3690.9	3653.0	3569.7	3509.1	3499.0	3377.8	3249.1	3072.4	2913.3
20°	3771.7	3764.1	3771.7	3748.9	3685.8	3635.3	3625.2	3491.4	3337.4	3127.9	2943.6
22.5°	3824.7	3817.1	3829.7	3819.6	3774.2	3743.9	3736.3	3605.0	3428.3	3186.0	2973.9
25°	3918.1	3918.1	3918.1	3900.4	3857.5	3847.4	3847.4	3733.8	3544.5	3261.7	3019.4
27.5°	4104.9	4094.8	4082.2	4031.7	3958.5	3956.0	3971.1	3865.1	3678.3	3360.2	3074.9
30°	4380.1	4375.0	4327.1	4221.0	4097.3	4084.7	4094.8	4006.4	3822.2	3463.7	3138.0
32.5°	4736.0	4718.4	4619.9	4460.9	4284.1	4226.1	4246.3	4152.9	3973.6	3569.7	3198.6
35°	4988.5	4993.5	4922.9	4779.0	4569.4	4415.4	4430.6	4317.0	4137.7	3688.4	3274.3
37.5°	5278.8	5296.5	5190.5	5081.9	4887.5	4625.0	4640.1	4486.1	4301.8	3837.3	3355.1
40°	5680.2	5644.9	5465.6	5336.9	5122.3	4844.6	4857.2	4675.5	4491.2	3978.7	3448.5
42.5°	6016.0	5952.9	5735.8	5571.7	5314.2	5076.9	5089.5	4879.9	4683.0	4135.2	3552.0
45°	6498.2	6324.0	6010.9	5930.1	5511.1	5304.1	5316.7	5097.0	4885.0	4301.8	3663.1
47.5°	6778.4	6500.7	6301.3	6258.3	5728.2	5538.8	5554.0	5326.8	5102.1	4491.2	3779.2
50°	6760.7	6581.5	6523.4	6417.4	5920.0	5758.5	5773.6	5564.1	5321.7	4678.0	3890.3
52.5°	6644.6	6677.4	6647.1	6470.4	6111.9	5970.5	5988.2	5798.9	5546.4	4852.2	3993.8
55°	6823.8	6846.6	6788.5	6556.2	6324.0	6182.6	6202.8	6046.3	5768.6	5006.2	4082.2
57.5°	7038.4	6957.6	6899.6	6707.7	6543.6	6412.3	6435.1	6298.7	5960.4	5129.9	4150.3
60°	7028.3	6859.2	6917.2	6717.8	6692.6	6624.4	6644.6	6505.7	6106.9	5220.8	4178.1
62.5°	6510.8	6419.9	6712.8	6644.6	6813.7	6813.7	6839.0	6632.0	6195.2	5258.6	4163.0
65°	5612.1	5617.1	6132.1	6414.9	6957.6	7073.8	7094.0	6710.2	6144.7	5147.5	4021.6
67.5°	4471.0	4503.8	5243.5	5831.7	6813.7	7250.5	7253.0	6780.9	5927.6	4834.5	3693.4
70°	3271.8	3297.1	4170.5	4885.0	6134.6	6859.2	6818.8	6581.5	5455.5	4289.2	3180.9
72.5°	2211.5	2234.2	3133.0	3751.5	5033.9	5841.8	5753.4	5816.5	4650.2	3524.3	2557.4
75°	1487.0	1514.7	2229.2	2683.6	3703.5	4435.6	4238.7	4405.3	3597.5	2668.4	1865.6
77.5°	936.6	954.3	1416.3	1759.6	2529.6	3019.4	2822.4	2825.0	2072.6	1436.5	1002.2
80°	595.8	600.8	858.3	1014.9	1464.2	1815.1	1605.6	1305.2	934.1	762.4	598.3
82.5°	345.9	338.3	512.5	573.1	696.8	689.2	570.5	540.3	409.0	381.2	305.5
85°	138.8	128.8	224.7	209.5	212.1	224.7	166.6	166.6	133.8	103.5	75.7
87.5°	27.8	27.8	30.3	27.8	27.8	30.3	22.7	22.7	20.2	20.2	20.2
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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CATALOG NUMBER: ARCH3-110-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9	2766.9
2.5°	2746.7	2741.7	2729.0	2696.2	2678.5	2668.4	2653.3	2648.2	2645.7	2648.2	2655.8
5°	2754.3	2736.6	2701.3	2648.2	2612.9	2590.2	2564.9	2554.8	2547.3	2547.3	2554.8
7.5°	2759.3	2731.6	2671.0	2592.7	2542.2	2506.9	2476.6	2464.0	2461.4	2469.0	2471.5
10°	2761.8	2721.5	2635.6	2537.2	2471.5	2426.1	2395.8	2388.2	2395.8	2410.9	2413.5
12.5°	2779.5	2724.0	2615.4	2499.3	2421.0	2375.6	2352.9	2352.9	2373.1	2400.8	2403.4
15°	2809.8	2741.7	2605.3	2469.0	2388.2	2347.8	2340.2	2352.9	2383.2	2426.1	2431.1
17.5°	2832.5	2751.8	2582.6	2428.6	2345.3	2320.1	2332.7	2363.0	2405.9	2464.0	2469.0
20°	2847.7	2751.8	2549.8	2380.6	2302.4	2297.3	2332.7	2380.6	2426.1	2494.2	2501.8
22.5°	2862.8	2746.7	2511.9	2322.6	2254.4	2269.6	2335.2	2395.8	2441.2	2514.4	2527.1
25°	2890.6	2754.3	2474.1	2264.5	2203.9	2246.8	2332.7	2405.9	2453.9	2529.6	2549.8
27.5°	2928.5	2771.9	2446.3	2211.5	2153.4	2211.5	2315.0	2403.4	2453.9	2527.1	2549.8
30°	2968.9	2792.1	2413.5	2153.4	2095.4	2161.0	2277.1	2375.6	2433.7	2501.8	2529.6
32.5°	3011.8	2814.9	2385.7	2090.3	2024.7	2092.8	2221.6	2332.7	2395.8	2458.9	2489.2
35°	3069.8	2855.3	2370.5	2039.8	1961.6	2022.2	2150.9	2277.1	2345.3	2403.4	2438.7
37.5°	3140.5	2905.7	2363.0	1989.3	1893.4	1943.9	2075.2	2209.0	2282.2	2330.2	2363.0
40°	3221.3	2968.9	2360.4	1941.4	1825.2	1863.1	1996.9	2130.7	2201.4	2239.3	2267.0
42.5°	3312.2	3039.5	2355.4	1893.4	1757.1	1787.4	1921.2	2052.5	2113.0	2145.9	2171.1
45°	3408.1	3110.2	2345.3	1835.3	1683.9	1719.2	1842.9	1959.0	2022.2	2049.9	2077.7
47.5°	3504.1	3180.9	2325.1	1769.7	1618.2	1651.1	1759.6	1860.6	1911.1	1936.3	1964.1
50°	3597.5	3244.0	2277.1	1694.0	1550.1	1580.4	1663.7	1731.8	1769.7	1789.9	1817.7
52.5°	3680.8	3287.0	2209.0	1605.6	1481.9	1497.1	1552.6	1610.7	1641.0	1643.5	1668.7
55°	3751.5	3309.7	2110.5	1514.7	1408.7	1411.2	1441.5	1487.0	1499.6	1489.5	1507.2
57.5°	3791.9	3297.1	2002.0	1421.3	1333.0	1322.9	1345.6	1368.3	1370.8	1345.6	1363.3
60°	3802.0	3239.0	1860.6	1327.9	1257.2	1229.5	1237.0	1232.0	1226.9	1216.8	1232.0
62.5°	3751.5	3115.3	1704.1	1237.0	1176.4	1133.5	1131.0	1128.5	1136.0	1138.6	1141.1
65°	3567.2	2883.0	1517.2	1143.6	1090.6	1032.5	1030.0	1060.3	1070.4	1055.3	1060.3
67.5°	3211.2	2527.1	1312.8	1035.1	982.0	931.6	951.8	969.4	987.1	982.0	987.1
70°	2706.3	2075.2	1125.9	913.9	863.4	835.6	858.3	873.5	876.0	871.0	876.0
72.5°	2128.2	1620.8	951.8	790.2	744.7	732.1	759.9	772.5	795.2	805.3	807.9
75°	1537.4	1196.6	780.1	656.4	618.5	618.5	643.8	666.5	686.7	674.1	666.5
77.5°	858.3	714.4	560.4	451.9	459.5	494.8	504.9	530.2	550.4	547.8	542.8
80°	520.1	446.8	378.7	292.8	290.3	318.1	383.7	426.6	436.7	414.0	411.5
82.5°	270.1	234.8	202.0	164.1	181.8	212.1	222.2	267.6	295.4	285.3	297.9
85°	68.2	65.6	73.2	75.7	93.4	103.5	113.6	133.8	88.4	42.9	42.9
87.5°	20.2	20.2	25.2	25.2	32.8	40.4	37.9	37.9	20.2	2.5	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)