

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: P836862

Luminaire Tested: **ARCH3-80-750-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836862
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: ARCH3-80-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13421 lumens
Efficiency: N/A
Efficacy: 163.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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



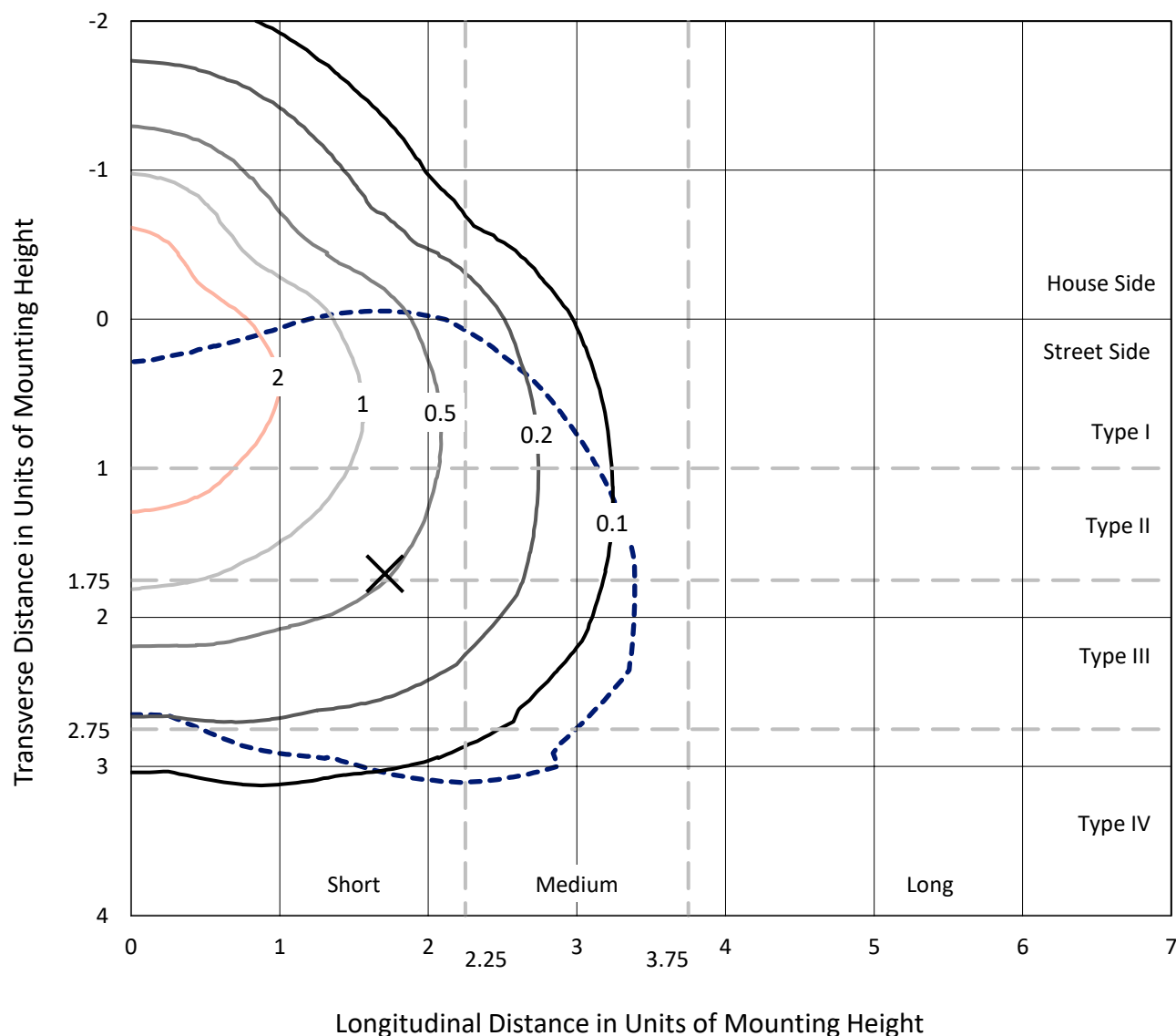
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

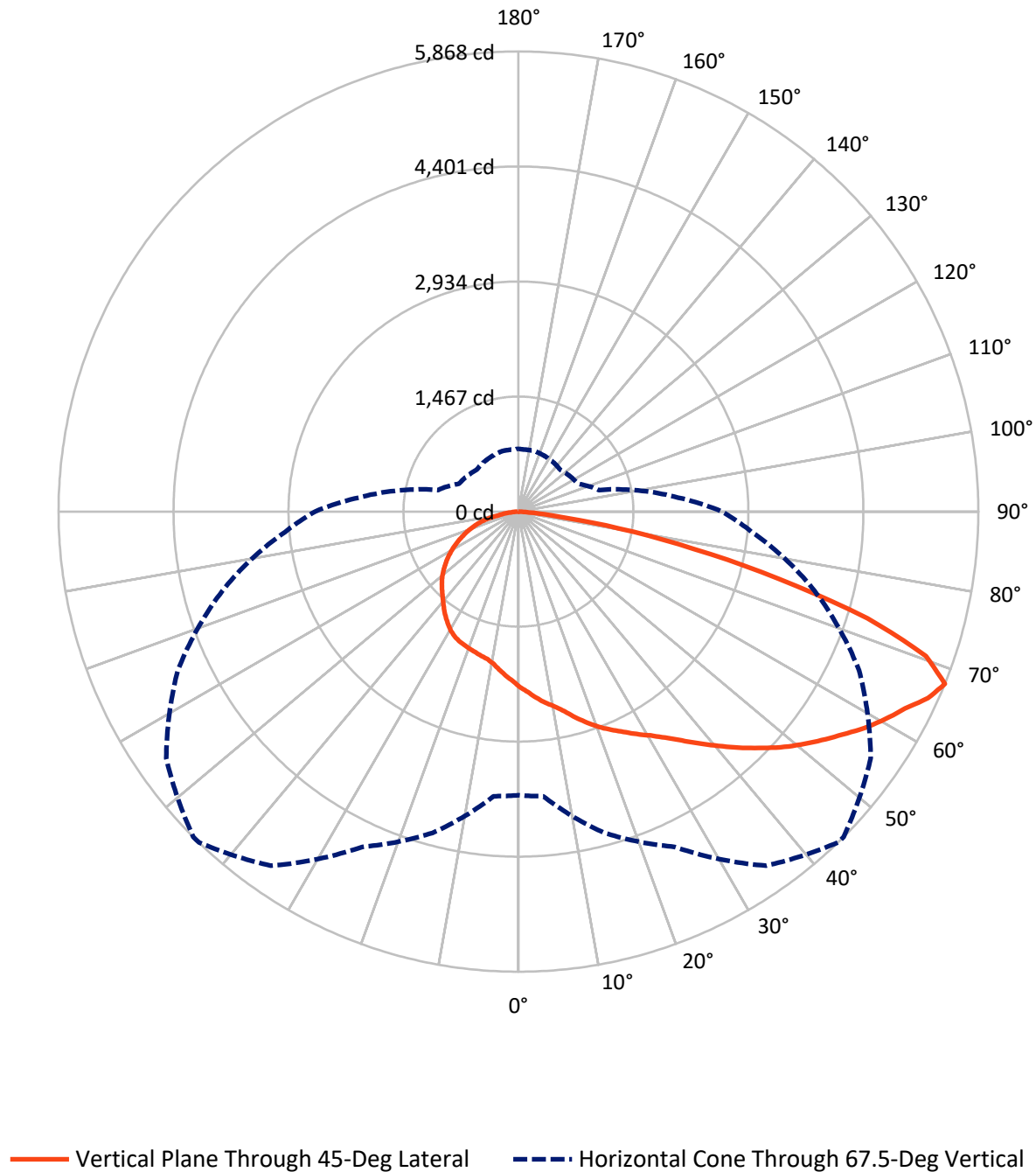


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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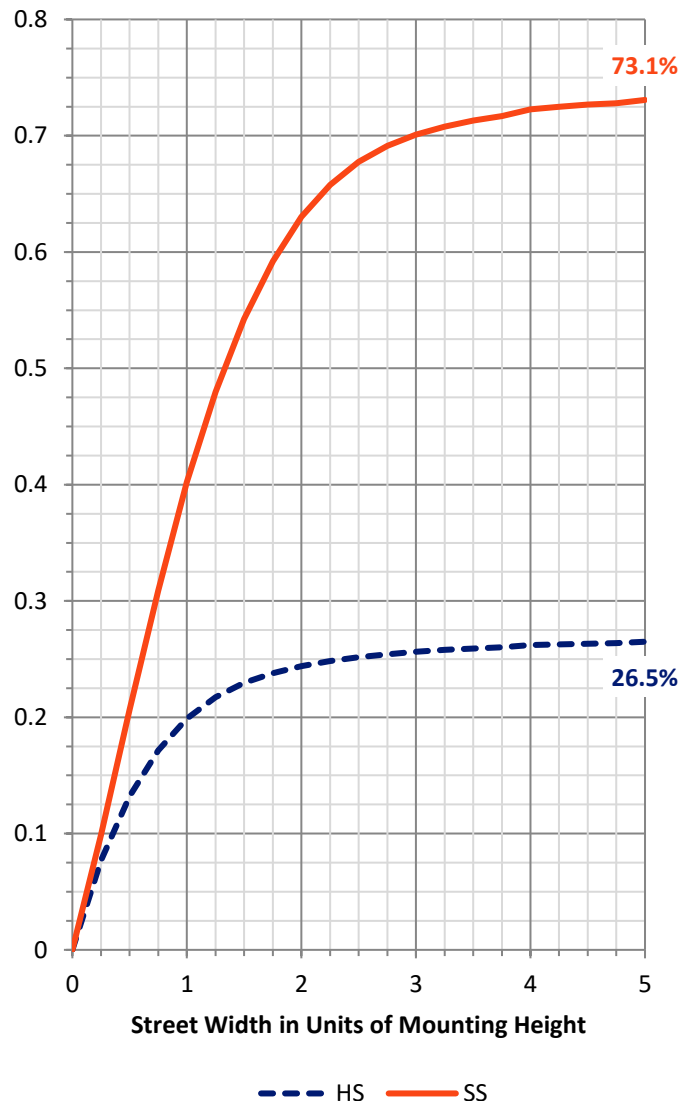
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3585.4	0.0	3585.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9835.6	0.0	9835.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	13421.0	0.0	13421.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.3	1.6
10°-20°	662.0	4.9
20°-30°	1142.8	8.5
30°-40°	1685.2	12.6
40°-50°	2283.1	17.0
50°-60°	2790.4	20.8
60°-70°	2878.0	21.4
70°-80°	1576.3	11.7
80°-90°	188.9	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°	13421.0	100.0
0°-180°	13421.0	100.0

Coefficient of Utilization



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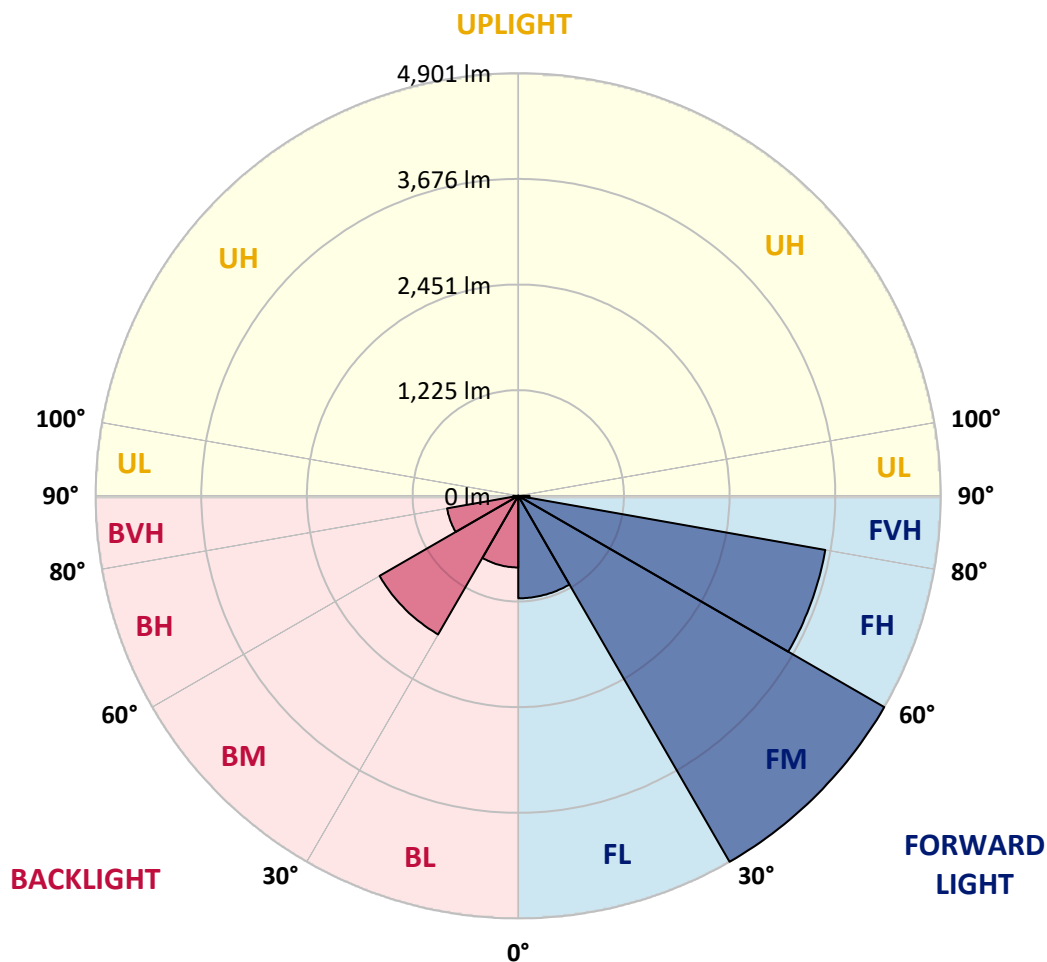
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1188.1	8.9			
FM	(30°-60°)	4901.5	36.5			
FH	(60°-80°)	3615.8	26.9			G2/5000
FVH	(80°-90°)	130.2	1.0			G2/225
BL	(0°-30°)	831.0	6.2	B2/1000		
BM	(30°-60°)	1857.2	13.8	B2/2500		
BH	(60°-80°)	838.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	58.8	0.4			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4
2.5°	2336.4	2334.4	2338.4	2324.1	2305.8	2303.7	2303.7	2291.5	2277.2	2248.6	2226.1
5°	2446.7	2442.6	2444.6	2424.2	2399.7	2387.5	2385.4	2358.9	2326.2	2281.3	2240.4
7.5°	2548.8	2544.7	2542.7	2520.2	2483.4	2463.0	2461.0	2422.2	2383.4	2313.9	2254.7
10°	2644.8	2640.7	2636.6	2606.0	2561.1	2530.4	2526.3	2477.3	2428.3	2342.5	2267.0
12.5°	2767.3	2759.2	2755.1	2718.3	2653.0	2620.3	2614.2	2548.8	2487.5	2383.4	2291.5
15°	2896.0	2889.9	2883.7	2849.0	2775.5	2732.6	2722.4	2640.7	2557.0	2436.5	2328.2
17.5°	2992.0	2985.9	2985.9	2955.2	2887.8	2838.8	2830.6	2732.6	2628.4	2485.5	2356.8
20°	3051.2	3045.1	3051.2	3032.8	2981.8	2940.9	2932.8	2824.5	2699.9	2530.4	2381.3
22.5°	3094.1	3088.0	3098.2	3090.0	3053.2	3028.7	3022.6	2916.4	2773.5	2577.4	2405.8
25°	3169.7	3169.7	3169.7	3155.4	3120.6	3112.5	3112.5	3020.6	2867.4	2638.7	2442.6
27.5°	3320.8	3312.6	3302.4	3261.6	3202.3	3200.3	3212.5	3126.8	2975.6	2718.3	2487.5
30°	3543.4	3539.3	3500.5	3414.7	3314.7	3304.5	3312.6	3241.1	3092.1	2802.0	2538.6
32.5°	3831.4	3817.1	3737.4	3608.8	3465.8	3418.8	3435.2	3359.6	3214.6	2887.8	2587.6
35°	4035.6	4039.7	3982.5	3866.1	3696.6	3572.0	3584.2	3492.3	3347.3	2983.8	2648.9
37.5°	4270.5	4284.8	4199.0	4111.2	3953.9	3741.5	3753.8	3629.2	3480.1	3104.3	2714.2
40°	4595.2	4566.6	4421.6	4317.4	4143.8	3919.2	3929.4	3782.4	3633.3	3218.7	2789.8
42.5°	4866.8	4815.8	4640.1	4507.4	4299.1	4107.1	4117.3	3947.8	3788.5	3345.3	2873.5
45°	5256.9	5116.0	4862.7	4797.4	4458.4	4290.9	4301.1	4123.4	3951.9	3480.1	2963.4
47.5°	5483.6	5258.9	5097.6	5062.9	4634.0	4480.8	4493.1	4309.3	4127.5	3633.3	3057.3
50°	5469.3	5324.3	5277.3	5191.5	4789.2	4658.5	4670.8	4501.2	4305.2	3784.4	3147.2
52.5°	5375.4	5401.9	5377.4	5234.4	4944.4	4830.1	4844.4	4691.2	4486.9	3925.3	3230.9
55°	5520.4	5538.7	5491.8	5303.9	5116.0	5001.6	5017.9	4891.3	4666.7	4049.9	3302.4
57.5°	5694.0	5628.6	5581.6	5426.4	5293.7	5187.5	5205.8	5095.6	4821.9	4150.0	3357.6
60°	5685.8	5548.9	5595.9	5434.6	5414.2	5359.0	5375.4	5263.0	4940.3	4223.5	3380.0
62.5°	5267.1	5193.6	5430.5	5375.4	5512.2	5512.2	5532.6	5365.1	5011.8	4254.1	3367.8
65°	4540.0	4544.1	4960.8	5189.5	5628.6	5722.5	5738.9	5428.5	4971.0	4164.3	3253.4
67.5°	3616.9	3643.5	4241.9	4717.7	5512.2	5865.5	5867.5	5485.6	4795.3	3911.0	2987.9
70°	2646.8	2667.3	3373.9	3951.9	4962.8	5548.9	5516.3	5324.3	4413.4	3469.9	2573.3
72.5°	1789.1	1807.4	2534.5	3034.9	4072.4	4725.9	4654.4	4705.5	3761.9	2851.1	2068.9
75°	1202.9	1225.4	1803.4	2171.0	2996.1	3588.3	3429.0	3563.8	2910.3	2158.7	1509.3
77.5°	757.7	772.0	1145.7	1423.5	2046.4	2442.6	2283.3	2285.3	1676.7	1162.1	810.8
80°	482.0	486.1	694.4	821.0	1184.5	1468.4	1298.9	1055.9	755.7	616.8	484.0
82.5°	279.8	273.7	414.6	463.6	563.7	557.5	461.6	437.1	330.9	308.4	247.1
85°	112.3	104.2	181.8	169.5	171.6	181.8	134.8	134.8	108.2	83.7	61.3
87.5°	22.5	22.5	24.5	22.5	22.5	24.5	18.4	18.4	16.3	16.3	16.3
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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CATALOG NUMBER: ARCH3-80-750-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4	2238.4
2.5°	2222.0	2217.9	2207.7	2181.2	2166.9	2158.7	2146.5	2142.4	2140.3	2142.4	2148.5
5°	2228.2	2213.9	2185.3	2142.4	2113.8	2095.4	2075.0	2066.8	2060.7	2060.7	2066.8
7.5°	2232.2	2209.8	2160.8	2097.4	2056.6	2028.0	2003.5	1993.3	1991.2	1997.4	1999.4
10°	2234.3	2201.6	2132.2	2052.5	1999.4	1962.7	1938.1	1932.0	1938.1	1950.4	1952.4
12.5°	2248.6	2203.6	2115.8	2021.9	1958.6	1921.8	1903.4	1903.4	1919.8	1942.2	1944.3
15°	2273.1	2217.9	2107.7	1997.4	1932.0	1899.3	1893.2	1903.4	1927.9	1962.7	1966.7
17.5°	2291.5	2226.1	2089.3	1964.7	1897.3	1876.9	1887.1	1911.6	1946.3	1993.3	1997.4
20°	2303.7	2226.1	2062.7	1925.9	1862.6	1858.5	1887.1	1925.9	1962.7	2017.8	2023.9
22.5°	2316.0	2222.0	2032.1	1878.9	1823.8	1836.0	1889.1	1938.1	1974.9	2034.1	2044.3
25°	2338.4	2228.2	2001.5	1831.9	1782.9	1817.7	1887.1	1946.3	1985.1	2046.4	2062.7
27.5°	2369.1	2242.5	1979.0	1789.1	1742.1	1789.1	1872.8	1944.3	1985.1	2044.3	2062.7
30°	2401.8	2258.8	1952.4	1742.1	1695.1	1748.2	1842.2	1921.8	1968.8	2023.9	2046.4
32.5°	2436.5	2277.2	1930.0	1691.0	1637.9	1693.1	1797.2	1887.1	1938.1	1989.2	2013.7
35°	2483.4	2309.8	1917.7	1650.2	1586.9	1635.9	1740.0	1842.2	1897.3	1944.3	1972.9
37.5°	2540.6	2350.7	1911.6	1609.3	1531.7	1572.6	1678.8	1787.0	1846.2	1885.0	1911.6
40°	2606.0	2401.8	1909.6	1570.5	1476.6	1507.2	1615.5	1723.7	1780.9	1811.5	1834.0
42.5°	2679.5	2458.9	1905.5	1531.7	1421.4	1446.0	1554.2	1660.4	1709.4	1736.0	1756.4
45°	2757.1	2516.1	1897.3	1484.8	1362.2	1390.8	1490.9	1584.8	1635.9	1658.4	1680.8
47.5°	2834.7	2573.3	1881.0	1431.7	1309.1	1335.7	1423.5	1505.2	1546.0	1566.4	1588.9
50°	2910.3	2624.4	1842.2	1370.4	1254.0	1278.5	1345.9	1401.0	1431.7	1448.0	1470.5
52.5°	2977.7	2659.1	1787.0	1298.9	1198.8	1211.1	1256.0	1303.0	1327.5	1329.5	1350.0
55°	3034.9	2677.5	1707.4	1225.4	1139.6	1141.6	1166.2	1202.9	1213.1	1205.0	1219.3
57.5°	3067.5	2667.3	1619.5	1149.8	1078.3	1070.2	1088.5	1106.9	1109.0	1088.5	1102.8
60°	3075.7	2620.3	1505.2	1074.3	1017.1	994.6	1000.7	996.6	992.6	984.4	996.6
62.5°	3034.9	2520.2	1378.6	1000.7	951.7	917.0	915.0	912.9	919.0	921.1	923.1
65°	2885.8	2332.3	1227.4	925.2	882.3	835.3	833.3	857.8	865.9	853.7	857.8
67.5°	2597.8	2044.3	1062.0	837.3	794.5	753.6	769.9	784.2	798.5	794.5	798.5
70°	2189.4	1678.8	910.9	739.3	698.5	676.0	694.4	706.6	708.7	704.6	708.7
72.5°	1721.7	1311.2	769.9	639.2	602.5	592.3	614.7	624.9	643.3	651.5	653.5
75°	1243.8	968.1	631.1	531.0	500.4	500.4	520.8	539.2	555.5	545.3	539.2
77.5°	694.4	578.0	453.4	365.6	371.7	400.3	408.5	428.9	445.2	443.2	439.1
80°	420.7	361.5	306.3	236.9	234.9	257.3	310.4	345.1	353.3	334.9	332.9
82.5°	218.5	189.9	163.4	132.7	147.0	171.6	179.7	216.5	238.9	230.8	241.0
85°	55.1	53.1	59.2	61.3	75.6	83.7	91.9	108.2	71.5	34.7	34.7
87.5°	16.3	16.3	20.4	20.4	26.5	32.7	30.6	30.6	16.3	2.0	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)