

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: P1210859

Luminaire Tested: **ARCH3-90-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14865 lumens
Efficiency: N/A
Efficacy: 159.7 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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

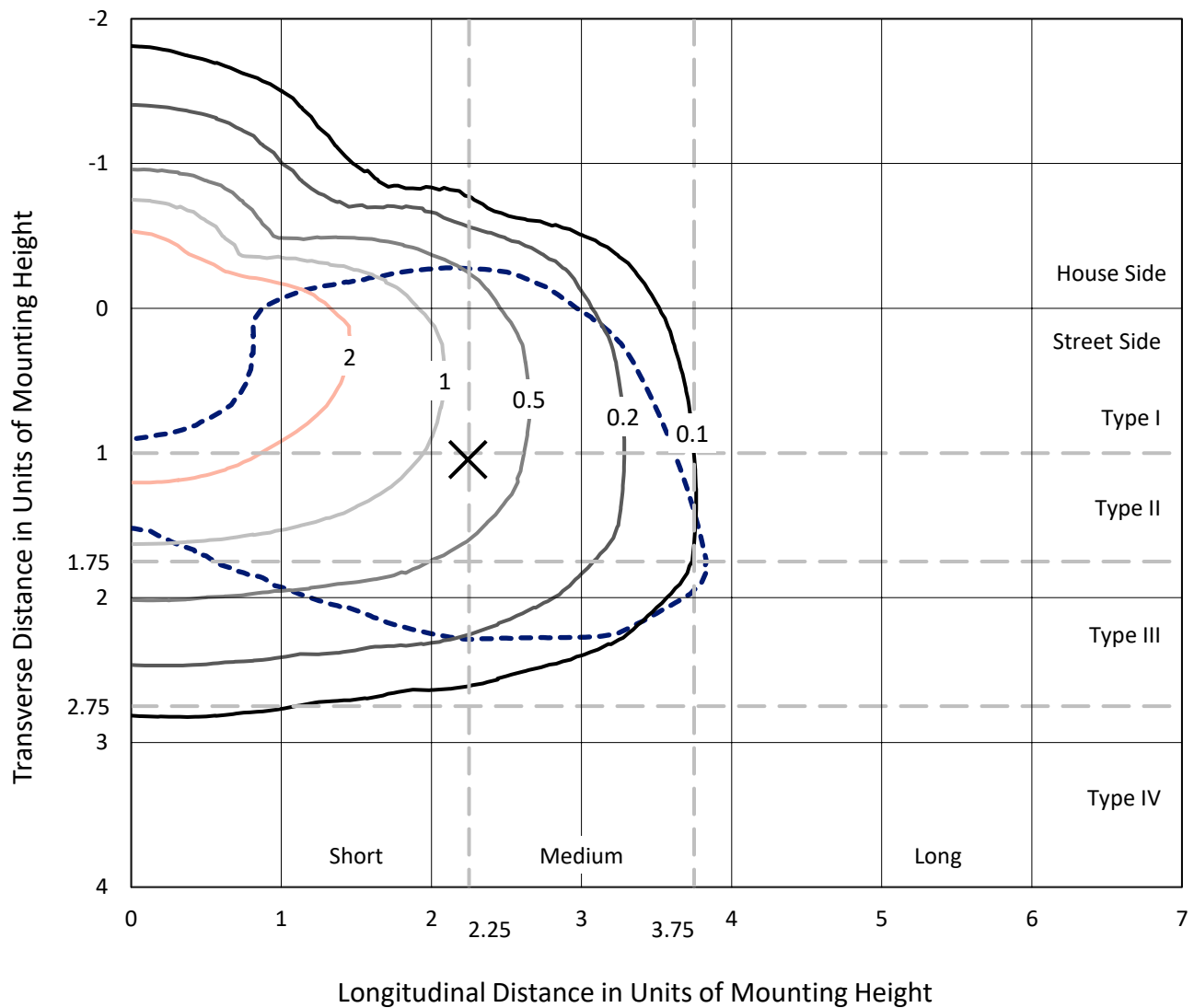


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Iso-Footcandle Lines of Horizontal Illumination

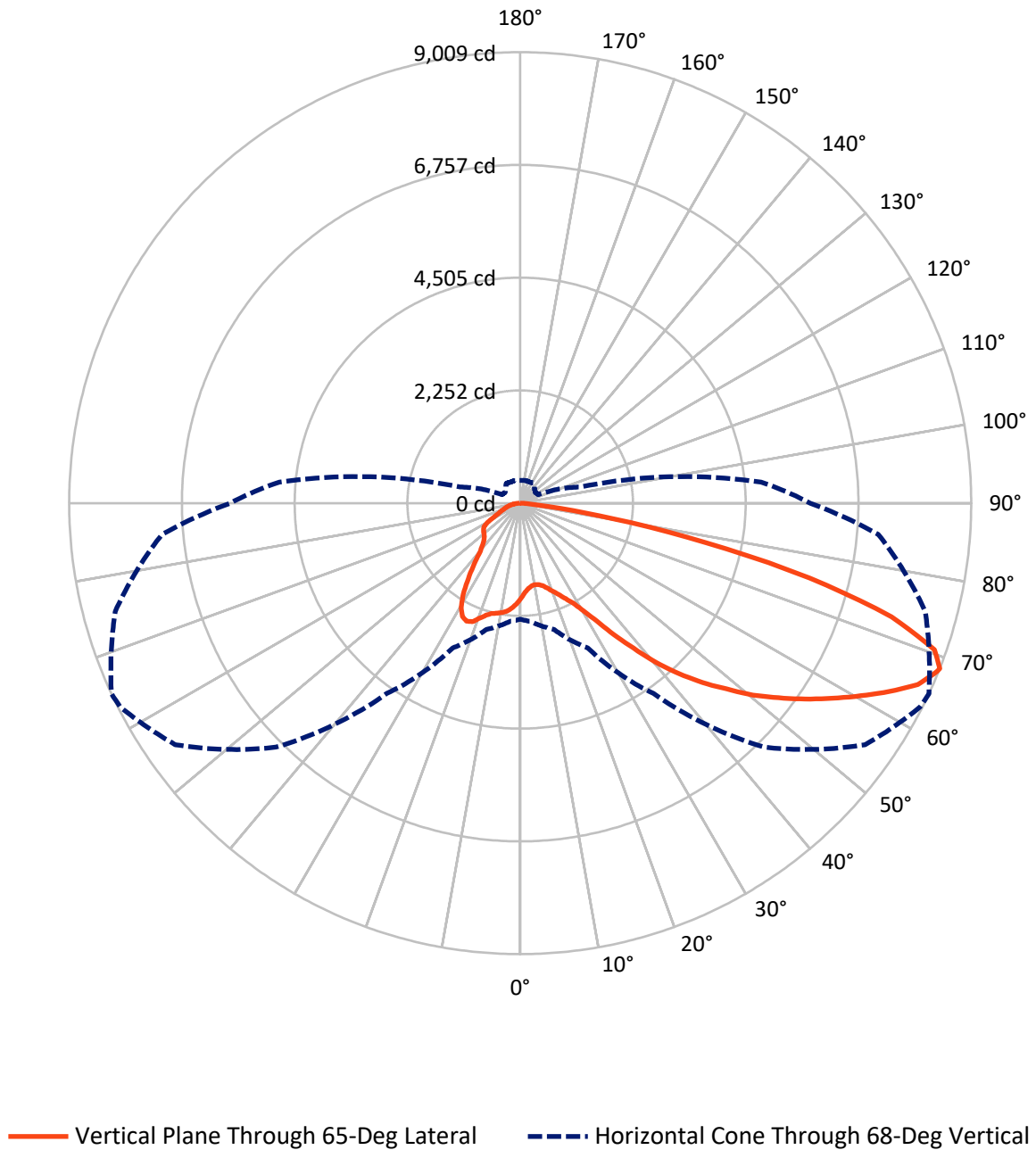
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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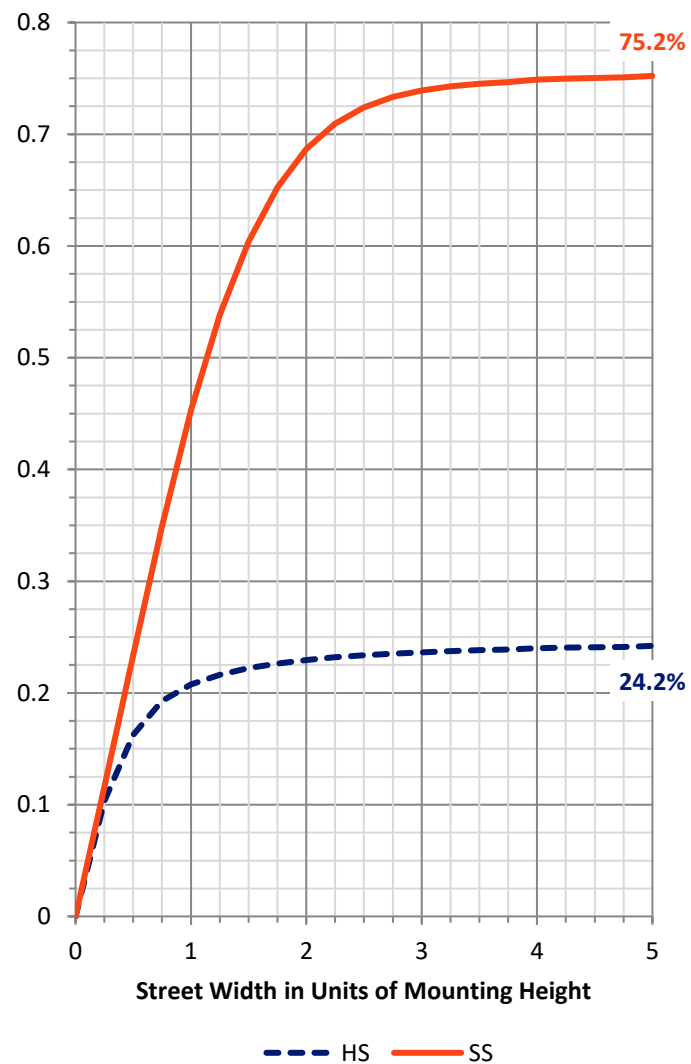
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3644.5	0.0	3644.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	11220.5	0.0	11220.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	14865.0	0.0	14865.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	1.2
10°-20°	591.1	4.0
20°-30°	1069.8	7.2
30°-40°	1683.0	11.3
40°-50°	2506.6	16.9
50°-60°	3288.1	22.1
60°-70°	3595.8	24.2
70°-80°	1779.3	12.0
80°-90°	169.7	1.1
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°	14865.0	100.0
0°-180°	14865.0	100.0

Coefficient of Utilization



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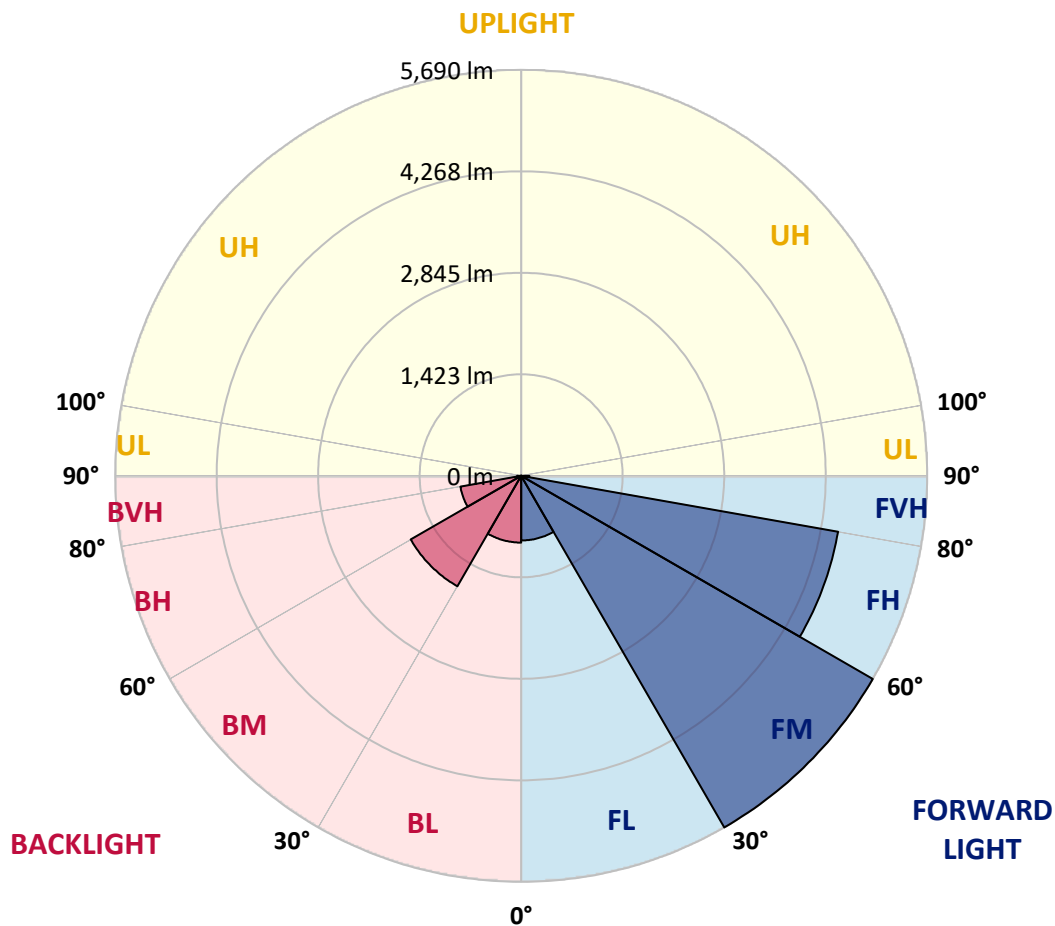
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	906.2	6.1			
FM	(30°-60°)	5690.1	38.3			
FH	(60°-80°)	4510.1	30.3			G2/5000
FVH	(80°-90°)	114.2	0.8			G2/225
BL	(0°-30°)	936.3	6.3	B2/1000		
BM	(30°-60°)	1787.6	12.0	B2/2500		
BH	(60°-80°)	865.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	55.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6
2.5°	1658.0	1654.2	1663.8	1673.4	1694.5	1719.4	1753.9	1782.6	1786.5	1840.1	1882.3
5°	1560.3	1554.5	1564.1	1575.6	1585.2	1615.9	1652.3	1694.5	1711.7	1790.3	1880.4
7.5°	1569.9	1568.0	1571.8	1568.0	1568.0	1581.4	1606.3	1648.5	1667.6	1761.6	1890.0
10°	1625.5	1629.3	1631.2	1619.7	1608.2	1602.5	1610.1	1638.9	1652.3	1763.5	1932.2
12.5°	1717.5	1723.2	1725.1	1704.1	1688.7	1663.8	1650.4	1661.9	1671.5	1782.6	1991.6
15°	1842.1	1845.9	1832.5	1819.1	1780.7	1750.1	1717.5	1707.9	1711.7	1822.9	2058.7
17.5°	1987.7	1982.0	1982.0	1949.4	1899.6	1851.6	1798.0	1790.3	1790.3	1888.1	2154.5
20°	2146.8	2152.6	2135.3	2091.2	2041.4	1966.7	1913.0	1878.5	1882.3	1962.8	2271.4
22.5°	2376.9	2386.4	2340.4	2277.2	2200.5	2114.2	2037.6	1982.0	1983.9	2060.6	2392.2
25°	2624.1	2628.0	2599.2	2514.9	2411.4	2288.7	2187.1	2116.2	2114.2	2169.8	2547.5
27.5°	2877.1	2894.4	2836.9	2756.4	2660.5	2507.2	2373.0	2277.2	2261.8	2336.6	2741.0
30°	3137.8	3158.9	3103.3	3024.7	2905.9	2775.6	2616.5	2505.3	2495.7	2595.4	2999.8
32.5°	3400.4	3406.2	3362.1	3296.9	3189.6	3066.9	2938.5	2815.8	2806.2	2969.2	3335.3
35°	3615.1	3632.4	3601.7	3586.4	3507.8	3394.7	3270.1	3199.2	3224.1	3433.0	3770.4
37.5°	3873.9	3891.1	3856.6	3852.8	3827.9	3730.1	3643.9	3649.6	3674.5	3958.2	4228.5
40°	4247.7	4266.8	4178.7	4140.3	4140.3	4044.5	4015.7	4151.8	4184.4	4475.8	4705.8
42.5°	4563.9	4594.6	4542.9	4517.9	4443.2	4376.1	4410.6	4602.3	4657.9	4970.3	5121.7
45°	4717.3	4740.3	4801.6	4874.5	4801.6	4684.7	4815.0	5031.6	5110.2	5426.5	5537.7
47.5°	4799.7	4820.8	4891.7	5087.2	5137.1	5039.3	5223.3	5493.6	5547.3	5878.9	5934.5
50°	4811.2	4878.3	4970.3	5165.8	5393.9	5407.3	5633.5	5963.2	6026.5	6323.6	6283.3
52.5°	4717.3	4744.1	4933.9	5263.6	5516.6	5746.6	6080.1	6413.7	6459.7	6741.4	6591.9
55°	4563.9	4602.3	4792.0	5240.6	5635.4	6068.6	6534.4	6856.5	6908.2	7147.8	6877.5
57.5°	4425.9	4445.1	4648.3	5173.5	5754.3	6390.7	6938.9	7318.4	7352.9	7504.3	7088.4
60°	4272.6	4293.7	4496.9	5029.7	5842.5	6634.1	7360.6	7784.2	7814.9	7880.0	7333.7
62.5°	3875.8	3931.4	4186.3	4792.0	5819.5	6912.0	7811.0	8244.2	8282.6	8211.6	7527.3
65°	3147.4	3226.0	3538.4	4253.4	5604.8	7092.2	8179.1	8667.8	8733.0	8460.8	7579.1
67.5°	2443.9	2499.5	2750.6	3375.5	4851.5	7002.1	8416.7	8959.2	8978.4	8420.6	7291.6
68°	2317.4	2373.0	2612.6	3191.5	4642.5	6894.8	8411.0	8966.9	9009.0	8376.5	7180.4
70°	1773.1	1836.3	2064.4	2528.3	3741.6	6212.4	8060.2	8782.9	8777.1	7843.6	6490.3
72.5°	1107.9	1144.3	1301.5	1594.8	2474.6	4726.9	6841.1	7745.9	7761.2	6394.5	4978.0
75°	703.5	703.5	695.8	772.5	1268.9	2693.1	5085.3	5963.2	5974.7	4477.7	3137.8
77.5°	611.5	594.2	511.8	433.2	506.0	1046.6	3009.4	3850.9	3787.6	2411.4	1489.4
80°	515.6	486.9	419.8	348.9	325.9	327.8	1155.8	1955.2	1870.8	868.3	494.5
82.5°	371.9	346.9	316.3	274.1	251.1	195.5	241.5	565.5	552.0	251.1	161.0
85°	201.3	182.1	178.3	180.2	151.4	120.8	101.6	124.6	124.6	109.3	92.0
87.5°	70.9	51.8	61.3	69.0	59.4	49.8	40.3	47.9	49.8	47.9	44.1
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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CATALOG NUMBER: ARCH3-90-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6	1899.6
2.5°	1907.2	1926.4	1972.4	2012.7	2041.4	2066.3	2079.7	2085.5	2098.9	2100.8	2097.0
5°	1922.6	1972.4	2041.4	2100.8	2133.4	2146.8	2150.7	2152.6	2146.8	2150.7	2146.8
7.5°	1962.8	2026.1	2123.8	2175.6	2181.3	2160.3	2162.2	2154.5	2162.2	2169.8	2169.8
10°	2024.2	2104.7	2196.7	2215.8	2190.9	2179.4	2202.4	2248.4	2263.8	2284.8	2284.8
12.5°	2104.7	2200.5	2265.7	2248.4	2225.4	2263.8	2330.9	2376.9	2392.2	2399.9	2394.1
15°	2196.7	2300.2	2332.8	2275.3	2317.4	2399.9	2422.9	2396.0	2357.7	2340.4	2350.0
17.5°	2313.6	2399.9	2380.7	2342.4	2438.2	2449.7	2374.9	2288.7	2227.3	2204.3	2219.7
20°	2436.3	2511.0	2422.9	2440.1	2499.5	2376.9	2235.0	2123.8	2070.2	2060.6	2075.9
22.5°	2566.6	2614.5	2465.0	2553.2	2465.0	2215.8	2045.2	1987.7	1974.3	1989.7	2003.1
25°	2714.2	2708.5	2537.9	2587.7	2336.6	2018.4	1916.8	1913.0	1913.0	1922.6	1941.7
27.5°	2881.0	2790.9	2610.7	2541.7	2114.2	1855.5	1836.3	1838.2	1832.5	1834.4	1844.0
30°	3074.6	2902.1	2691.2	2390.3	1865.1	1732.8	1725.1	1719.4	1706.0	1702.1	1706.0
32.5°	3318.0	3019.0	2773.6	2141.1	1646.5	1606.3	1602.5	1571.8	1539.2	1535.4	1548.8
35°	3626.6	3231.8	2815.8	1828.6	1466.4	1464.4	1451.0	1403.1	1360.9	1360.9	1351.4
37.5°	3979.3	3505.9	2833.1	1523.9	1316.9	1326.4	1288.1	1226.8	1194.2	1175.0	1180.8
40°	4339.7	3818.3	2831.1	1257.4	1186.5	1188.4	1159.7	1084.9	1004.4	956.5	968.0
42.5°	4686.6	4102.0	2781.3	1115.6	1081.1	1075.3	1052.3	950.7	883.7	845.3	847.2
45°	4964.6	4395.3	2704.6	1031.2	985.2	994.8	943.1	881.7	820.4	785.9	784.0
47.5°	5242.5	4617.6	2582.0	979.5	914.3	897.1	876.0	833.8	787.8	749.5	751.4
50°	5495.5	4807.4	2466.9	945.0	849.2	805.1	808.9	784.0	743.7	709.2	707.3
52.5°	5673.8	4932.0	2403.7	925.8	770.6	722.6	736.1	722.6	684.3	659.4	657.5
55°	5852.0	5027.8	2424.8	900.9	684.3	646.0	669.0	665.1	644.1	636.4	638.3
57.5°	5995.8	5100.7	2499.5	854.9	601.9	578.9	617.2	605.7	590.4	592.3	592.3
60°	6135.7	5194.6	2587.7	749.5	531.0	532.9	569.3	548.2	538.6	555.9	557.8
62.5°	6281.4	5296.2	2514.9	596.1	469.6	483.0	525.2	508.0	511.8	536.7	544.4
65°	6264.2	5286.6	2049.1	488.8	415.9	442.8	506.0	500.3	502.2	511.8	515.6
67.5°	5911.5	4949.2	1408.9	415.9	377.6	410.2	490.7	467.7	469.6	463.9	465.8
68°	5792.6	4830.4	1242.1	404.4	369.9	402.5	483.0	462.0	463.9	458.1	456.2
70°	5144.7	4136.5	785.9	356.5	343.1	381.4	444.7	437.0	435.1	431.3	431.3
72.5°	3921.8	3053.5	414.0	308.6	312.4	348.9	396.8	412.1	402.5	404.4	415.9
75°	2597.3	1836.3	287.5	264.5	274.1	299.0	352.7	383.4	373.8	379.5	373.8
77.5°	1374.4	989.1	230.0	224.3	224.3	241.5	291.4	339.3	339.3	335.4	329.7
80°	450.5	348.9	184.0	176.3	180.2	189.8	233.9	277.9	283.7	276.0	272.2
82.5°	151.4	161.0	138.0	128.4	132.3	139.9	176.3	212.8	214.7	199.3	195.5
85°	93.9	107.3	86.3	84.3	84.3	86.3	107.3	116.9	107.3	95.8	99.7
87.5°	44.1	53.7	40.3	34.5	28.8	24.9	19.2	7.7	7.7	3.8	3.8
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)