

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: P1210999

Luminaire Tested: **ARCH4-140-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210999
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: ARCH4-140-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1155mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19761 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.3
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

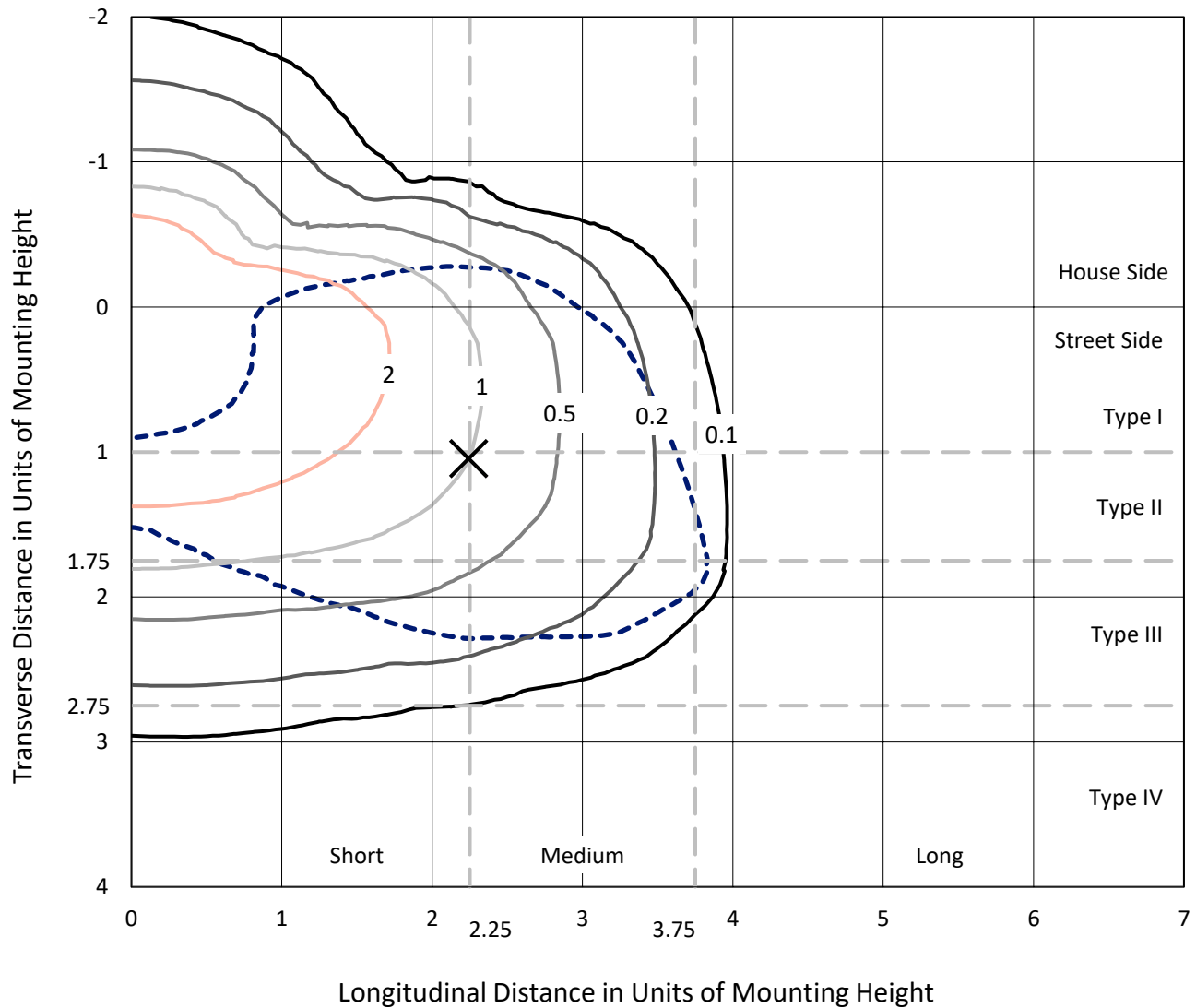


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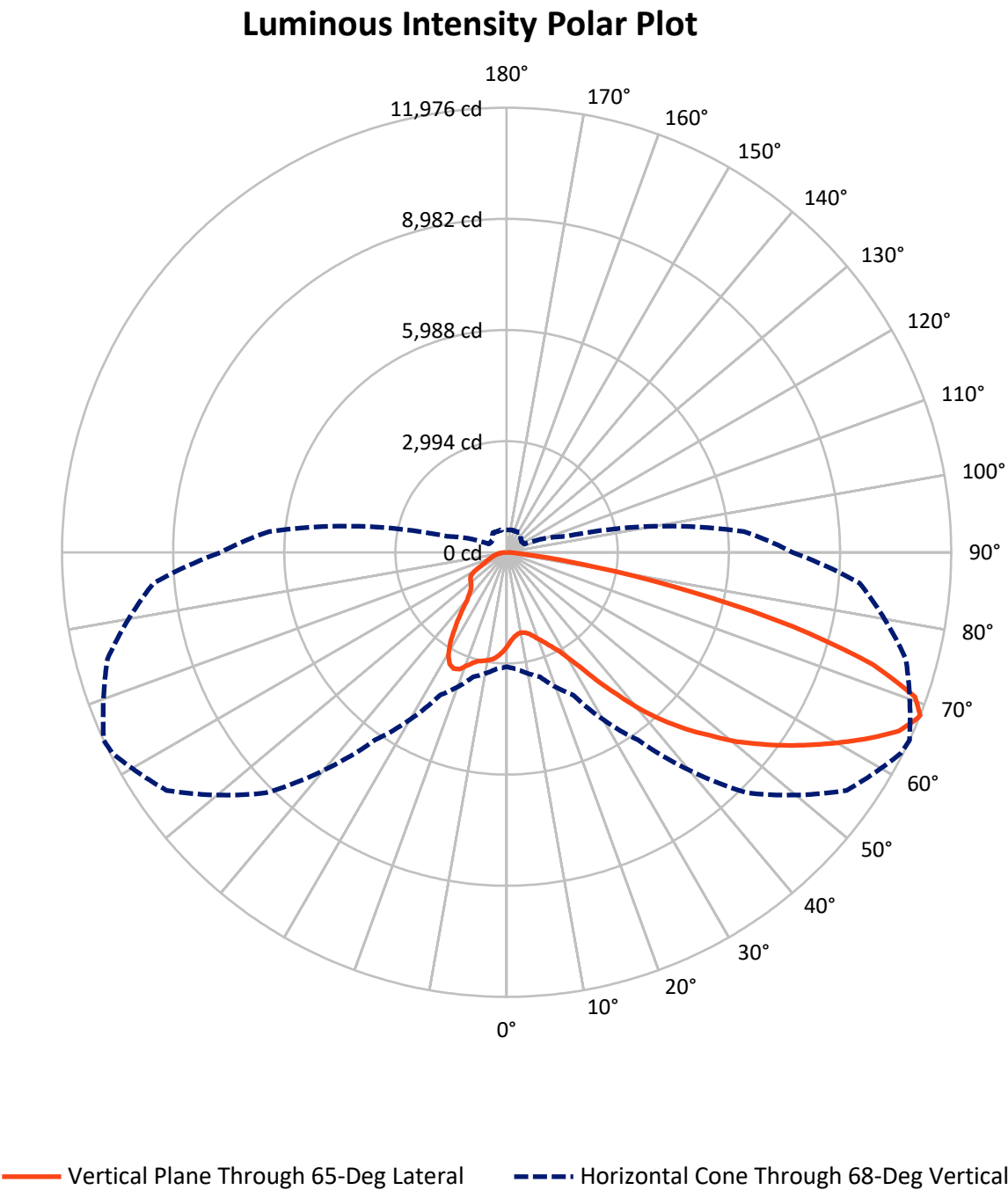
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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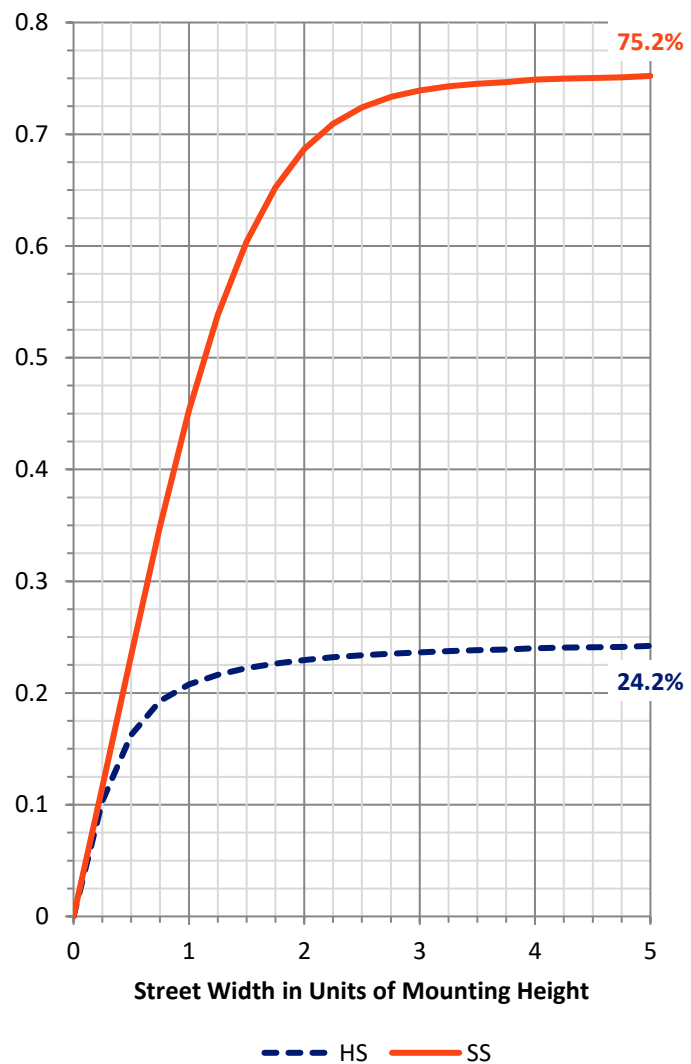
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4844.8	0.0	4844.8
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	14916.2	0.0	14916.2
	% Fixture	75.5	0.0	75.5
Total	Lumens	19761.0	0.0	19761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.3	1.2
10°-20°	785.8	4.0
20°-30°	1422.2	7.2
30°-40°	2237.3	11.3
40°-50°	3332.2	16.9
50°-60°	4371.1	22.1
60°-70°	4780.1	24.2
70°-80°	2365.3	12.0
80°-90°	225.6	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°	19761.0	100.0
0°-180°	19761.0	100.0

Coefficient of Utilization



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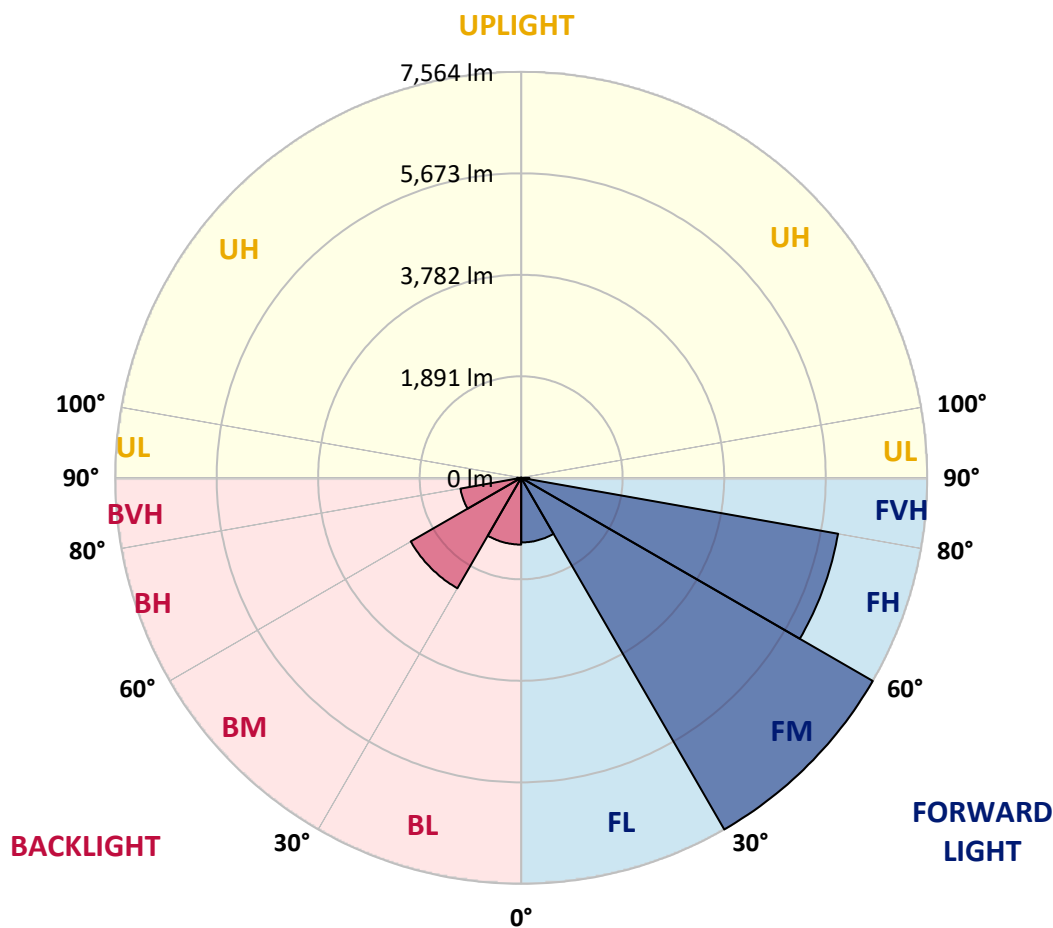
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1204.7	6.1			
FM	(30°-60°)	7564.2	38.3			
FH	(60°-80°)	5995.5	30.3			G3/7500
FVH	(80°-90°)	151.7	0.8			G2/225
BL	(0°-30°)	1244.7	6.3	B3/2500		
BM	(30°-60°)	2376.3	12.0	B2/2500		
BH	(60°-80°)	1149.9	5.8	B3/2500		G3/2500
BVH	(80°-90°)	73.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2
2.5°	2204.1	2199.1	2211.8	2224.5	2252.6	2285.7	2331.6	2369.8	2374.9	2446.2	2502.3
5°	2074.2	2066.5	2079.3	2094.6	2107.3	2148.1	2196.5	2252.6	2275.5	2380.0	2499.7
7.5°	2086.9	2084.4	2089.5	2084.4	2084.4	2102.2	2135.3	2191.4	2216.9	2341.7	2512.5
10°	2160.8	2165.9	2168.5	2153.2	2137.9	2130.3	2140.4	2178.7	2196.5	2344.3	2568.5
12.5°	2283.1	2290.8	2293.3	2265.3	2244.9	2211.8	2194.0	2209.2	2222.0	2369.8	2647.5
15°	2448.8	2453.9	2436.0	2418.2	2367.2	2326.5	2283.1	2270.4	2275.5	2423.3	2736.7
17.5°	2642.4	2634.8	2634.8	2591.5	2525.2	2461.5	2390.2	2380.0	2380.0	2509.9	2864.1
20°	2853.9	2861.6	2838.6	2780.0	2713.8	2614.4	2543.1	2497.2	2502.3	2609.3	3019.6
22.5°	3159.7	3172.4	3111.3	3027.2	2925.3	2810.6	2708.7	2634.8	2637.3	2739.3	3180.1
25°	3488.4	3493.5	3455.3	3343.2	3205.6	3042.5	2907.4	2813.2	2810.6	2884.5	3386.5
27.5°	3824.8	3847.7	3771.3	3664.2	3536.8	3333.0	3154.6	3027.2	3006.8	3106.2	3643.9
30°	4171.3	4199.3	4125.5	4021.0	3863.0	3689.7	3478.2	3330.4	3317.7	3450.2	3987.9
32.5°	4520.4	4528.1	4469.5	4382.8	4240.1	4077.0	3906.3	3743.2	3730.5	3947.1	4433.8
35°	4805.8	4828.7	4788.0	4767.6	4663.1	4512.8	4347.1	4252.9	4286.0	4563.7	5012.2
37.5°	5149.8	5172.7	5126.9	5121.8	5088.7	4958.7	4844.0	4851.7	4884.8	5261.9	5621.2
40°	5646.7	5672.2	5555.0	5504.0	5504.0	5376.6	5338.4	5519.3	5562.6	5949.9	6255.7
42.5°	6067.1	6107.9	6039.1	6006.0	5906.6	5817.4	5863.3	6118.1	6192.0	6607.3	6808.7
45°	6271.0	6301.6	6383.1	6479.9	6383.1	6227.7	6400.9	6688.9	6793.4	7213.8	7361.6
47.5°	6380.6	6408.6	6502.9	6762.8	6829.0	6699.1	6943.7	7303.0	7374.3	7815.2	7889.1
50°	6395.9	6485.0	6607.3	6867.3	7170.5	7188.3	7489.0	7927.3	8011.4	8406.3	8352.8
52.5°	6271.0	6306.7	6558.9	6997.2	7333.6	7639.4	8082.7	8526.1	8587.3	8961.8	8763.1
55°	6067.1	6118.1	6370.4	6966.6	7491.6	8067.4	8686.6	9114.7	9183.5	9502.0	9142.8
57.5°	5883.7	5909.2	6179.3	6877.5	7649.5	8495.5	9224.3	9728.8	9774.7	9976.0	9423.1
60°	5679.8	5707.9	5978.0	6686.3	7766.8	8819.1	9784.9	10348.0	10388.8	10475.4	9749.2
62.5°	5152.4	5226.3	5565.2	6370.4	7736.2	9188.6	10383.7	10959.6	11010.6	10916.3	10006.6
65°	4184.1	4288.5	4703.9	5654.3	7450.8	9428.2	10873.0	11522.7	11609.4	11247.5	10075.4
67.5°	3248.9	3322.8	3656.6	4487.3	6449.4	9308.4	11188.9	11910.0	11935.5	11194.0	9693.2
68°	3080.7	3154.6	3473.1	4242.7	6171.6	9165.7	11181.3	11920.2	11976.3	11135.4	9545.4
70°	2357.0	2441.1	2744.4	3361.0	4974.0	8258.6	10715.0	11675.6	11668.0	10427.0	8628.0
72.5°	1472.8	1521.2	1730.2	2120.1	3289.7	6283.7	9094.3	10297.1	10317.5	8500.6	6617.5
75°	935.2	935.2	925.0	1026.9	1686.9	3580.1	6760.2	7927.3	7942.6	5952.5	4171.3
77.5°	812.9	789.9	680.4	575.9	672.7	1391.3	4000.6	5119.2	5035.1	3205.6	1979.9
80°	685.5	647.2	558.0	463.8	433.2	435.7	1536.5	2599.1	2487.0	1154.3	657.4
82.5°	494.3	461.2	420.4	364.4	333.8	259.9	321.1	751.7	733.9	333.8	214.0
85°	267.6	242.1	237.0	239.5	201.3	160.5	135.1	165.6	165.6	145.2	122.3
87.5°	94.3	68.8	81.5	91.7	79.0	66.3	53.5	63.7	66.3	63.7	58.6
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°	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2	2525.2
2.5°	2535.4	2560.9	2622.0	2675.6	2713.8	2746.9	2764.7	2772.4	2790.2	2792.8	2787.7
5°	2555.8	2622.0	2713.8	2792.8	2836.1	2853.9	2859.0	2861.6	2853.9	2859.0	2853.9
7.5°	2609.3	2693.4	2823.3	2892.1	2899.8	2871.8	2874.3	2864.1	2874.3	2884.5	2884.5
10°	2690.8	2797.9	2920.2	2945.7	2912.5	2897.2	2927.8	2989.0	3009.4	3037.4	3037.4
12.5°	2797.9	2925.3	3011.9	2989.0	2958.4	3009.4	3098.5	3159.7	3180.1	3190.3	3182.6
15°	2920.2	3057.8	3101.1	3024.7	3080.7	3190.3	3220.9	3185.2	3134.2	3111.3	3124.0
17.5°	3075.6	3190.3	3164.8	3113.8	3241.2	3256.5	3157.2	3042.5	2960.9	2930.4	2950.8
20°	3238.7	3338.1	3220.9	3243.8	3322.8	3159.7	2971.1	2823.3	2752.0	2739.3	2759.6
22.5°	3412.0	3475.7	3276.9	3394.1	3276.9	2945.7	2718.9	2642.4	2624.6	2645.0	2662.8
25°	3608.2	3600.5	3373.7	3440.0	3106.2	2683.2	2548.1	2543.1	2543.1	2555.8	2581.3
27.5°	3829.9	3710.1	3470.6	3378.8	2810.6	2466.6	2441.1	2443.7	2436.0	2438.6	2451.3
30°	4087.2	3857.9	3577.6	3177.5	2479.3	2303.5	2293.3	2285.7	2267.9	2262.8	2267.9
32.5°	4410.8	4013.3	3687.2	2846.3	2188.9	2135.3	2130.3	2089.5	2046.2	2041.1	2058.9
35°	4821.1	4296.2	3743.2	2430.9	1949.3	1946.8	1928.9	1865.2	1809.2	1809.2	1796.4
37.5°	5290.0	4660.6	3766.2	2025.8	1750.6	1763.3	1712.4	1630.8	1587.5	1562.0	1569.7
40°	5769.0	5075.9	3763.6	1671.6	1577.3	1579.9	1541.6	1442.3	1335.2	1271.5	1286.8
42.5°	6230.2	5453.0	3697.4	1483.0	1437.2	1429.5	1398.9	1263.9	1174.7	1123.7	1126.3
45°	6599.7	5842.9	3595.4	1370.9	1309.7	1322.5	1253.7	1172.1	1090.6	1044.7	1042.2
47.5°	6969.2	6138.5	3432.4	1302.1	1215.5	1192.5	1164.5	1108.4	1047.3	996.3	998.9
50°	7305.5	6390.8	3279.5	1256.2	1128.8	1070.2	1075.3	1042.2	988.7	942.8	940.3
52.5°	7542.5	6556.4	3195.4	1230.8	1024.4	960.7	978.5	960.7	909.7	876.6	874.0
55°	7779.5	6683.8	3223.4	1197.6	909.7	858.7	889.3	884.2	856.2	846.0	848.5
57.5°	7970.6	6780.6	3322.8	1136.5	800.1	769.5	820.5	805.2	784.8	787.4	787.4
60°	8156.6	6905.5	3440.0	996.3	705.8	708.4	756.8	728.8	716.0	739.0	741.5
62.5°	8350.3	7040.5	3343.2	792.5	624.3	642.1	698.2	675.3	680.4	713.5	723.7
65°	8327.4	7027.8	2724.0	649.8	552.9	588.6	672.7	665.1	667.6	680.4	685.5
67.5°	7858.5	6579.3	1872.9	552.9	502.0	545.3	652.3	621.7	624.3	616.7	619.2
68°	7700.5	6421.3	1651.2	537.7	491.8	535.1	642.1	614.1	616.7	609.0	606.5
70°	6839.2	5498.9	1044.7	474.0	456.1	507.1	591.2	581.0	578.4	573.3	573.3
72.5°	5213.5	4059.2	550.4	410.3	415.3	463.8	527.5	547.9	535.1	537.7	552.9
75°	3452.7	2441.1	382.2	351.6	364.4	397.5	468.9	509.6	496.9	504.5	496.9
77.5°	1827.0	1314.8	305.8	298.1	298.1	321.1	387.3	451.0	451.0	445.9	438.3
80°	598.8	463.8	244.6	234.4	239.5	252.3	310.9	369.5	377.1	366.9	361.8
82.5°	201.3	214.0	183.5	170.7	175.8	186.0	234.4	282.8	285.4	265.0	259.9
85°	124.9	142.7	114.7	112.1	112.1	114.7	142.7	155.4	142.7	127.4	132.5
87.5°	58.6	71.3	53.5	45.9	38.2	33.1	25.5	10.2	10.2	5.1	5.1
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)