

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: P1210523

Luminaire Tested: **ARCH3-150-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210523
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: ARCH3-150-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1170mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19926 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 150.7
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

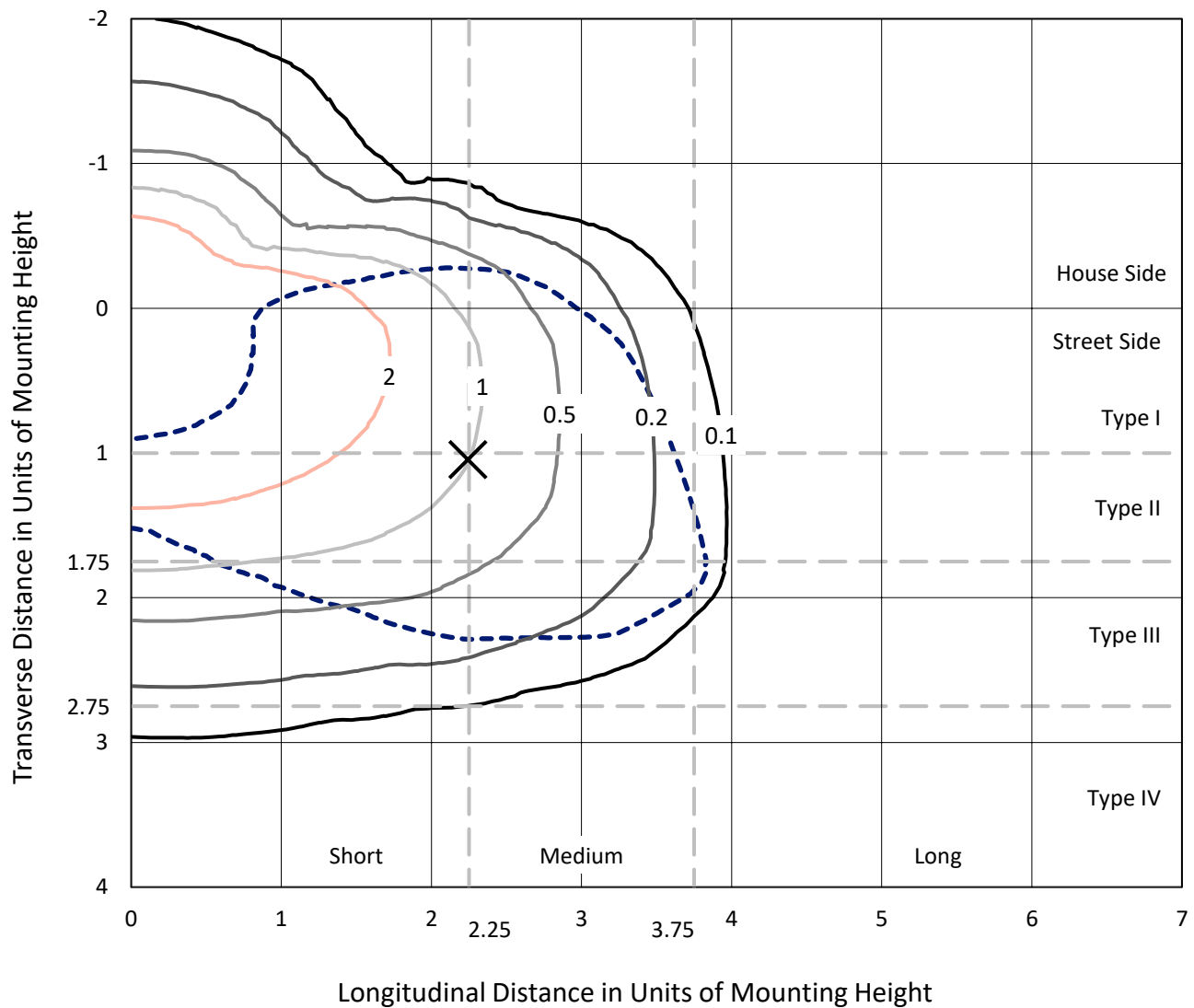


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

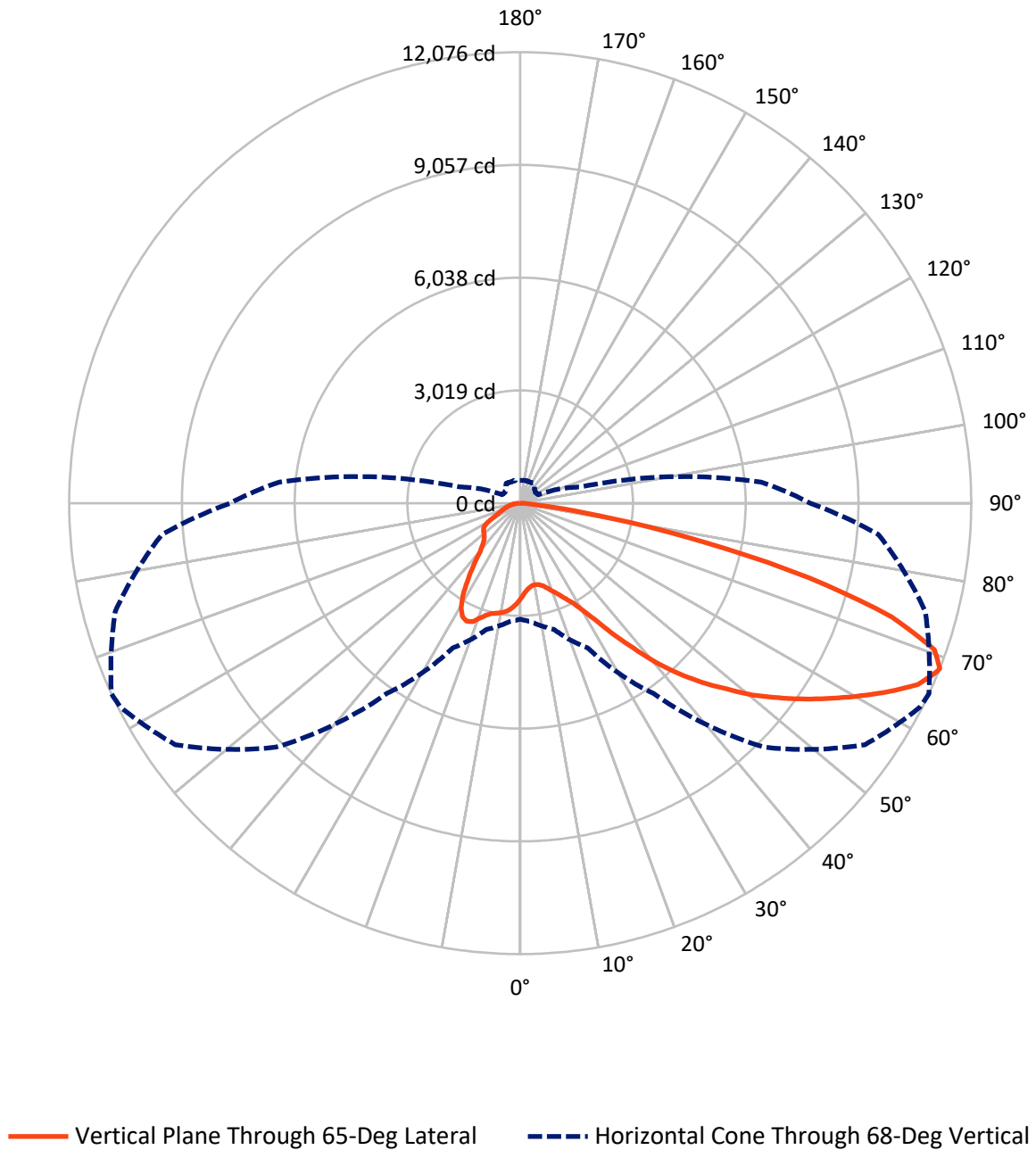


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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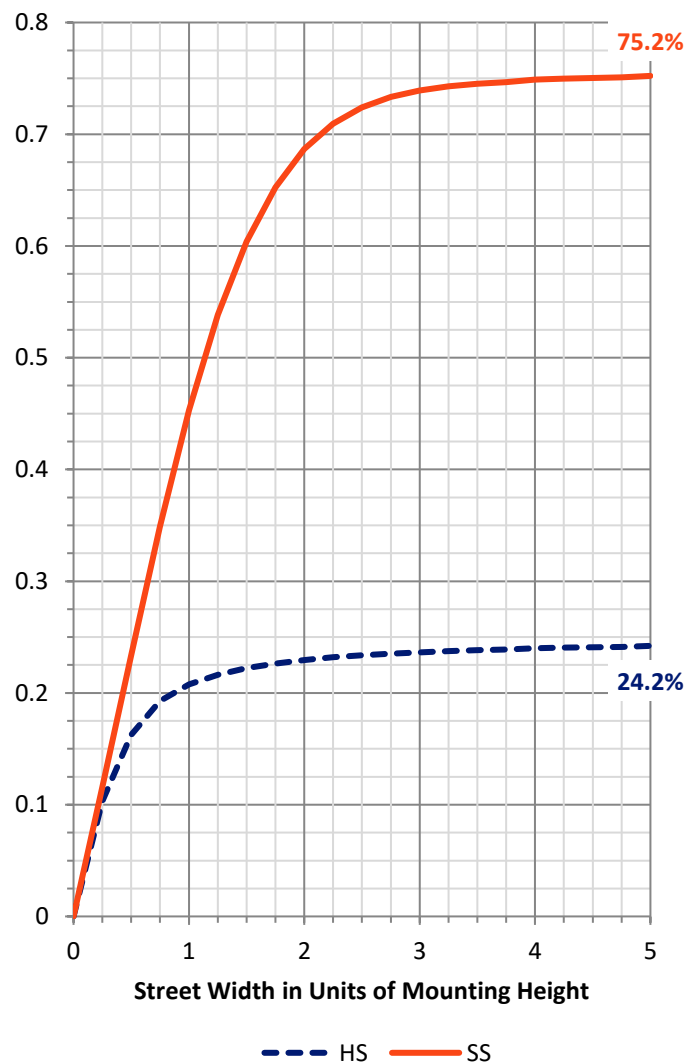
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4885.3	0.0	4885.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	15040.7	0.0	15040.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	19926.0	0.0	19926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	1.2
10°-20°	792.3	4.0
20°-30°	1434.1	7.2
30°-40°	2256.0	11.3
40°-50°	3360.0	16.9
50°-60°	4407.6	22.1
60°-70°	4820.0	24.2
70°-80°	2385.1	12.0
80°-90°	227.5	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°	19926.0	100.0
0°-180°	19926.0	100.0

Coefficient of Utilization



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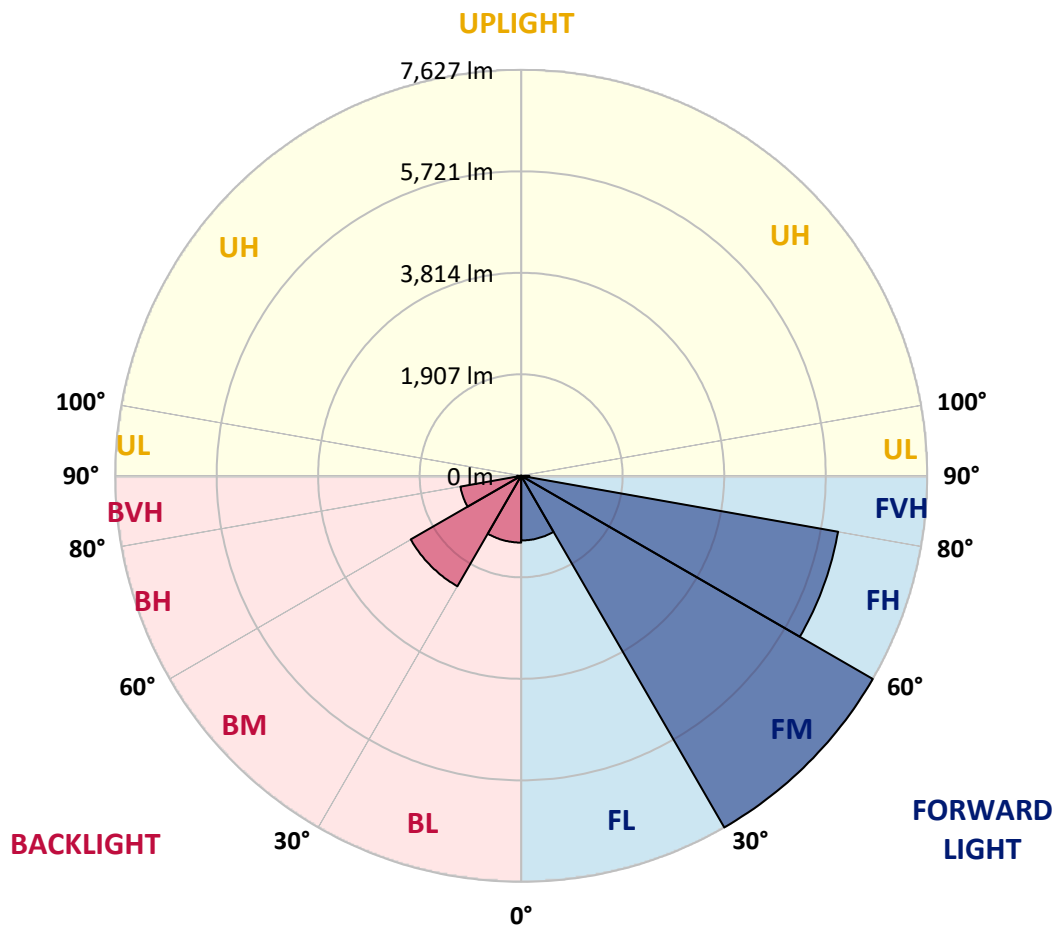
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.7	6.1			
FM	(30°-60°)	7627.4	38.3			
FH	(60°-80°)	6045.6	30.3			G3/7500
FVH	(80°-90°)	153.0	0.8			G2/225
BL	(0°-30°)	1255.1	6.3	B3/2500		
BM	(30°-60°)	2396.2	12.0	B2/2500		
BH	(60°-80°)	1159.5	5.8	B3/2500		G3/2500
BVH	(80°-90°)	74.5	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°	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3
2.5°	2222.6	2217.4	2230.3	2243.1	2271.4	2304.8	2351.0	2389.6	2394.7	2466.6	2523.2
5°	2091.5	2083.8	2096.7	2112.1	2124.9	2166.0	2214.8	2271.4	2294.5	2399.8	2520.6
7.5°	2104.4	2101.8	2106.9	2101.8	2101.8	2119.8	2153.2	2209.7	2235.4	2361.3	2533.5
10°	2178.9	2184.0	2186.6	2171.2	2155.7	2148.0	2158.3	2196.9	2214.8	2363.9	2590.0
12.5°	2302.2	2309.9	2312.5	2284.2	2263.7	2230.3	2212.3	2227.7	2240.5	2389.6	2669.6
15°	2469.2	2474.4	2456.4	2438.4	2387.0	2345.9	2302.2	2289.4	2294.5	2443.5	2759.6
17.5°	2664.5	2656.8	2656.8	2613.1	2546.3	2482.1	2410.1	2399.8	2399.8	2530.9	2888.0
20°	2877.8	2885.5	2862.3	2803.2	2736.4	2636.2	2564.3	2518.0	2523.2	2631.1	3044.8
22.5°	3186.1	3198.9	3137.3	3052.5	2949.7	2834.1	2731.3	2656.8	2659.4	2762.1	3206.6
25°	3517.5	3522.7	3484.1	3371.1	3232.3	3067.9	2931.7	2836.6	2834.1	2908.6	3414.8
27.5°	3856.7	3879.8	3802.7	3694.8	3566.4	3360.8	3180.9	3052.5	3031.9	3132.1	3674.3
30°	4206.1	4234.4	4159.9	4054.6	3895.2	3720.5	3507.3	3358.2	3345.4	3479.0	4021.2
32.5°	4558.2	4565.9	4506.8	4419.4	4275.5	4111.1	3938.9	3774.5	3761.6	3980.0	4470.8
35°	4845.9	4869.1	4828.0	4807.4	4702.0	4550.5	4383.4	4288.4	4321.8	4601.8	5054.1
37.5°	5192.8	5215.9	5169.7	5164.5	5131.1	5000.1	4884.5	4892.2	4925.6	5305.9	5668.2
40°	5693.8	5719.5	5601.3	5550.0	5550.0	5421.5	5382.9	5565.4	5609.1	5999.6	6307.9
42.5°	6117.8	6158.9	6089.5	6056.1	5955.9	5866.0	5912.2	6169.2	6243.7	6662.5	6865.5
45°	6323.4	6354.2	6436.4	6534.0	6436.4	6279.7	6454.4	6744.7	6850.1	7274.0	7423.1
47.5°	6433.8	6462.1	6557.2	6819.3	6886.1	6755.0	7001.7	7364.0	7435.9	7880.4	7954.9
50°	6449.3	6539.2	6662.5	6924.6	7230.4	7248.3	7551.5	7993.5	8078.3	8476.5	8422.6
52.5°	6323.4	6359.3	6613.7	7055.6	7394.8	7703.1	8150.2	8597.3	8659.0	9036.7	8836.3
55°	6117.8	6169.2	6423.6	7024.8	7554.1	8134.8	8759.2	9190.8	9260.2	9581.4	9219.1
57.5°	5932.8	5958.5	6230.9	6934.9	7713.4	8566.5	9301.3	9810.1	9856.3	10059.3	9501.7
60°	5727.2	5755.5	6027.9	6742.2	7831.6	8892.8	9866.6	10434.4	10475.5	10562.9	9830.6
62.5°	5195.4	5269.9	5611.6	6423.6	7800.8	9265.3	10470.4	11051.1	11102.5	11007.4	10090.1
65°	4219.0	4324.3	4743.2	5701.6	7513.0	9506.9	10963.7	11618.9	11706.3	11341.4	10159.5
67.5°	3276.0	3350.5	3687.1	4524.8	6503.2	9386.1	11282.3	12009.5	12035.2	11287.5	9774.1
68°	3106.4	3180.9	3502.1	4278.1	6223.1	9242.2	11274.6	12019.8	12076.3	11228.4	9625.1
70°	2376.7	2461.5	2767.3	3389.1	5015.5	8327.5	10804.4	11773.1	11765.4	10514.1	8700.1
72.5°	1485.1	1533.9	1744.6	2137.8	3317.1	6336.2	9170.3	10383.0	10403.6	8571.6	6672.8
75°	943.0	943.0	932.7	1035.5	1701.0	3610.0	6816.7	7993.5	8008.9	6002.2	4206.1
77.5°	819.6	796.5	686.0	580.7	678.3	1402.9	4034.0	5162.0	5077.2	3232.3	1996.4
80°	691.2	652.6	562.7	467.6	436.8	439.4	1549.4	2620.8	2507.8	1163.9	662.9
82.5°	498.5	465.1	424.0	367.4	336.6	262.1	323.7	758.0	740.0	336.6	215.8
85°	269.8	244.1	239.0	241.5	203.0	161.9	136.2	167.0	167.0	146.5	123.3
87.5°	95.1	69.4	82.2	92.5	79.7	66.8	54.0	64.2	66.8	64.2	59.1
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3	2546.3
2.5°	2556.6	2582.3	2643.9	2697.9	2736.4	2769.8	2787.8	2795.5	2813.5	2816.1	2811.0
5°	2577.1	2643.9	2736.4	2816.1	2859.8	2877.8	2882.9	2885.5	2877.8	2882.9	2877.8
7.5°	2631.1	2715.9	2846.9	2916.3	2924.0	2895.7	2898.3	2888.0	2898.3	2908.6	2908.6
10°	2713.3	2821.2	2944.6	2970.3	2936.9	2921.4	2952.3	3013.9	3034.5	3062.8	3062.8
12.5°	2821.2	2949.7	3037.1	3013.9	2983.1	3034.5	3124.4	3186.1	3206.6	3216.9	3209.2
15°	2944.6	3083.3	3127.0	3049.9	3106.4	3216.9	3247.8	3211.8	3160.4	3137.3	3150.1
17.5°	3101.3	3216.9	3191.2	3139.8	3268.3	3283.7	3183.5	3067.9	2985.7	2954.8	2975.4
20°	3265.7	3365.9	3247.8	3270.9	3350.5	3186.1	2995.9	2846.9	2775.0	2762.1	2782.7
22.5°	3440.5	3504.7	3304.3	3422.5	3304.3	2970.3	2741.6	2664.5	2646.5	2667.1	2685.0
25°	3638.3	3630.6	3401.9	3468.7	3132.1	2705.6	2569.4	2564.3	2564.3	2577.1	2602.8
27.5°	3861.8	3741.1	3499.6	3407.1	2834.1	2487.2	2461.5	2464.1	2456.4	2458.9	2471.8
30°	4121.4	3890.1	3607.5	3204.1	2500.1	2322.8	2312.5	2304.8	2286.8	2281.6	2286.8
32.5°	4447.7	4046.8	3718.0	2870.0	2207.1	2153.2	2148.0	2106.9	2063.2	2058.1	2076.1
35°	4861.4	4332.1	3774.5	2451.2	1965.6	1963.0	1945.1	1880.8	1824.3	1824.3	1811.4
37.5°	5334.1	4699.5	3797.6	2042.7	1765.2	1778.0	1726.7	1644.4	1600.8	1575.1	1582.8
40°	5817.2	5118.3	3795.0	1685.5	1590.5	1593.0	1554.5	1454.3	1346.4	1282.1	1297.6
42.5°	6282.2	5498.6	3728.2	1495.4	1449.2	1441.4	1410.6	1274.4	1184.5	1133.1	1135.7
45°	6654.8	5891.7	3625.5	1382.4	1320.7	1333.5	1264.2	1181.9	1099.7	1053.5	1050.9
47.5°	7027.4	6189.7	3461.0	1313.0	1225.6	1202.5	1174.2	1117.7	1056.0	1004.6	1007.2
50°	7366.5	6444.1	3306.9	1266.7	1138.3	1079.2	1084.3	1050.9	996.9	950.7	948.1
52.5°	7605.5	6611.1	3222.1	1241.0	1032.9	968.7	986.7	968.7	917.3	883.9	881.3
55°	7844.5	6739.6	3250.3	1207.6	917.3	865.9	896.7	891.6	863.3	853.0	855.6
57.5°	8037.2	6837.2	3350.5	1146.0	806.8	776.0	827.4	811.9	791.4	794.0	794.0
60°	8224.7	6963.1	3468.7	1004.6	711.7	714.3	763.1	734.9	722.0	745.1	747.7
62.5°	8420.0	7099.3	3371.1	799.1	629.5	647.5	704.0	680.9	686.0	719.4	729.7
65°	8396.9	7086.5	2746.7	655.2	557.6	593.5	678.3	670.6	673.2	686.0	691.2
67.5°	7924.1	6634.3	1888.5	557.6	506.2	549.9	657.8	626.9	629.5	621.8	624.4
68°	7764.8	6475.0	1665.0	542.1	495.9	539.6	647.5	619.2	621.8	614.1	611.5
70°	6896.3	5544.8	1053.5	477.9	459.9	511.3	596.1	585.8	583.3	578.1	578.1
72.5°	5257.0	4093.1	555.0	413.7	418.8	467.6	531.9	552.4	539.6	542.1	557.6
75°	3481.6	2461.5	385.4	354.6	367.4	400.8	472.8	513.9	501.0	508.7	501.0
77.5°	1842.3	1325.8	308.3	300.6	300.6	323.7	390.6	454.8	454.8	449.6	441.9
80°	603.8	467.6	246.7	236.4	241.5	254.4	313.5	372.6	380.3	370.0	364.9
82.5°	203.0	215.8	185.0	172.2	177.3	187.6	236.4	285.2	287.8	267.2	262.1
85°	125.9	143.9	115.6	113.1	113.1	115.6	143.9	156.7	143.9	128.5	133.6
87.5°	59.1	71.9	54.0	46.2	38.5	33.4	25.7	10.3	10.3	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)