

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: P964735

Luminaire Tested: **NVN-SB3C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB3C-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20654.8 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 149.1
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

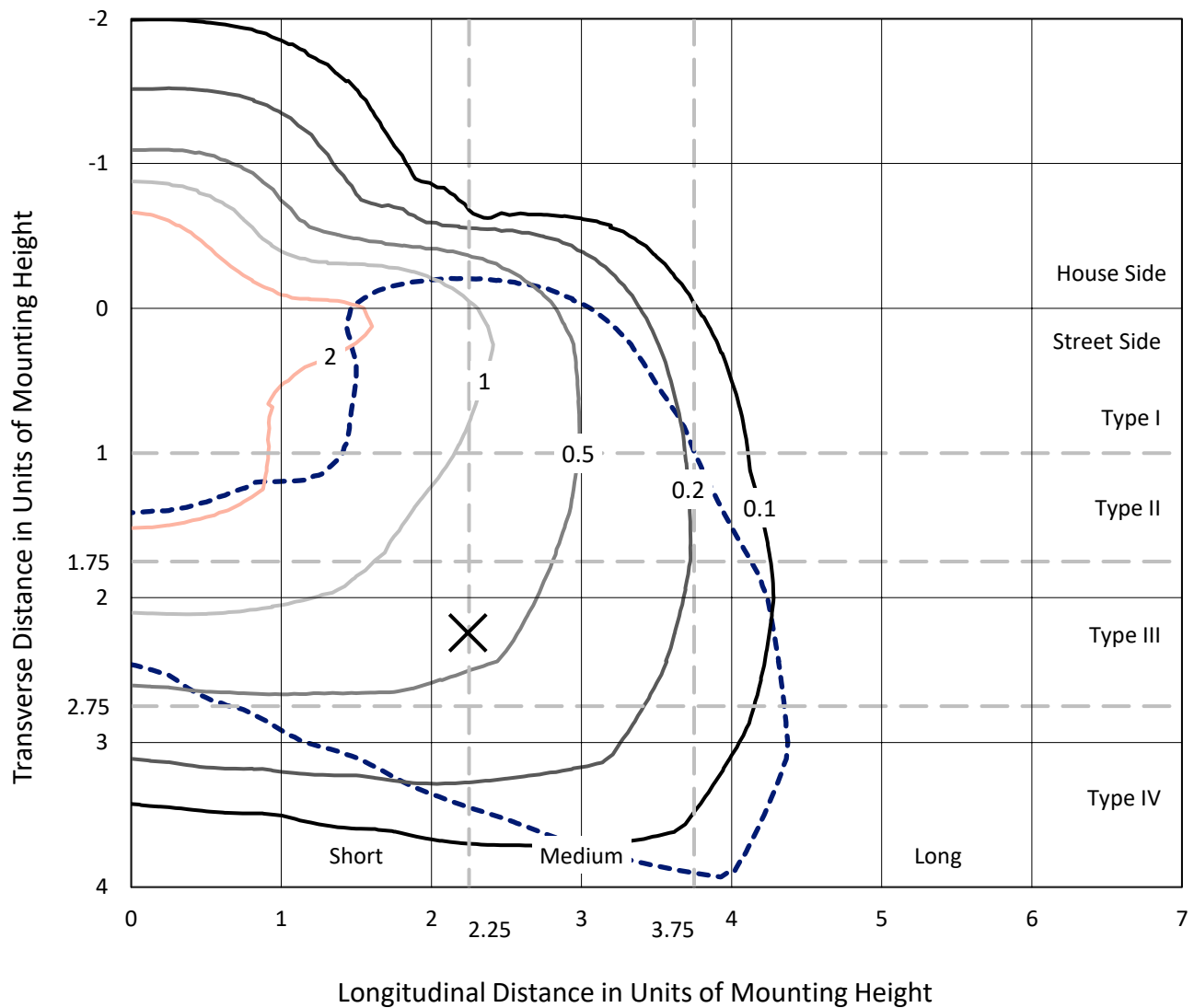


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

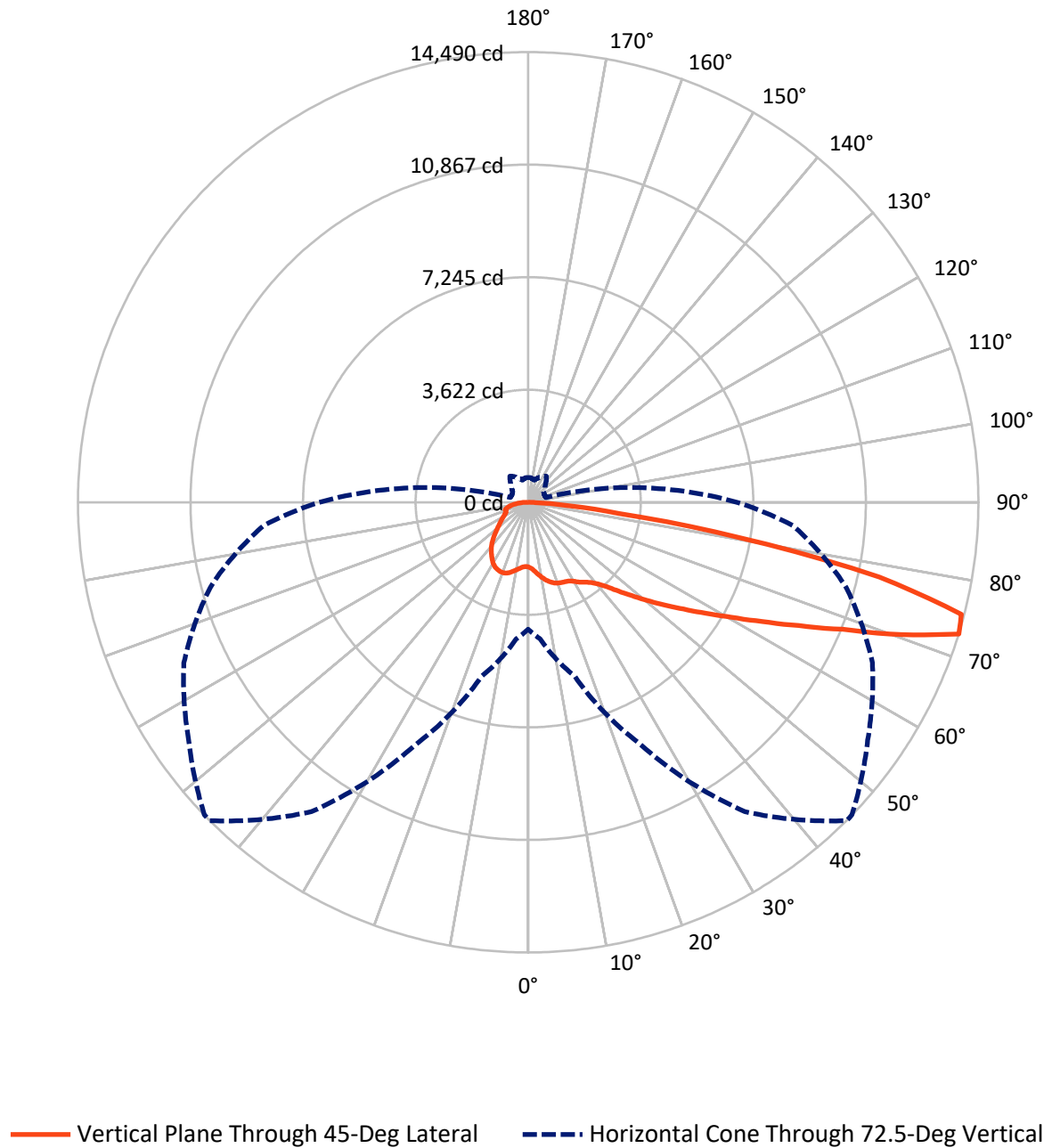


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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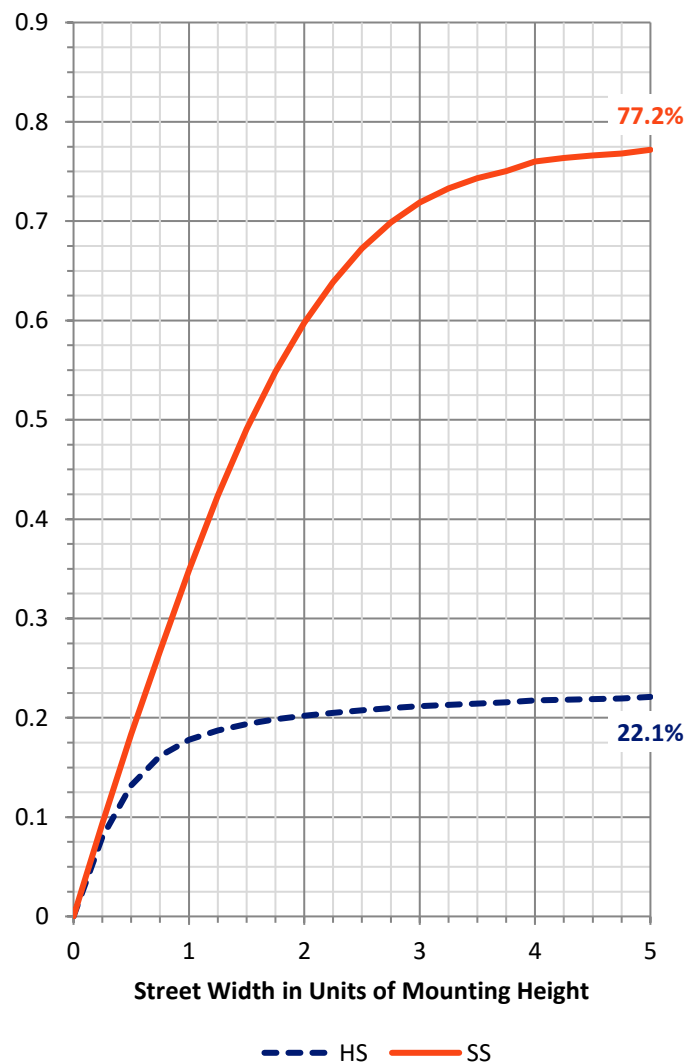
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4669.3	0.0	4669.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	15985.4	0.0	15985.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	20654.8	0.0	20654.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	1.0
10°-20°	707.1	3.4
20°-30°	1230.0	6.0
30°-40°	1763.3	8.5
40°-50°	2482.8	12.0
50°-60°	3803.0	18.4
60°-70°	5509.2	26.7
70°-80°	4399.4	21.3
80°-90°	547.9	2.7
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°	20654.8	100.0
0°-180°	20654.8	100.0

Coefficient of Utilization



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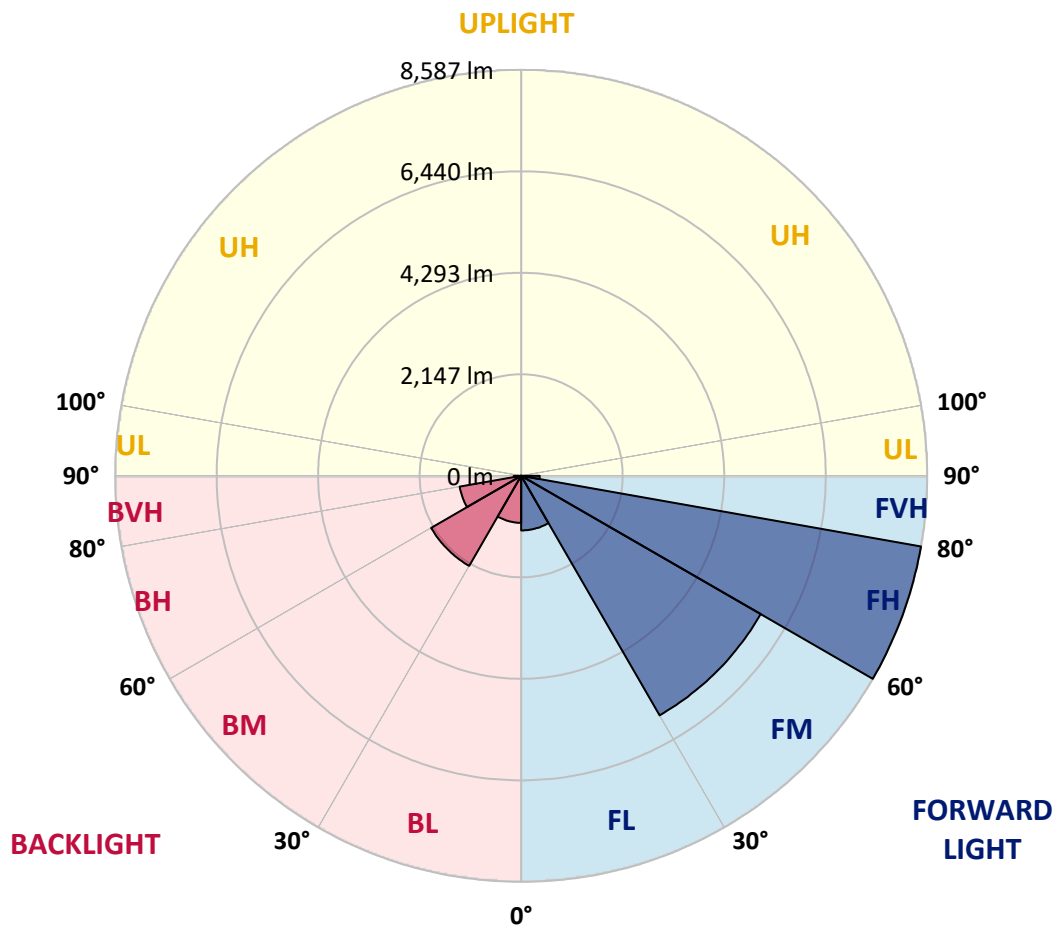
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1155.0	5.6			
FM	(30°-60°)	5850.5	28.3			
FH	(60°-80°)	8586.8	41.6			G4/12000
FVH	(80°-90°)	393.1	1.9			G3/500
BL	(0°-30°)	994.1	4.8	B2/1000		
BM	(30°-60°)	2198.6	10.6	B2/2500		
BH	(60°-80°)	1321.8	6.4	B3/2500		G3/2500
BVH	(80°-90°)	154.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6
2.5°	2165.3	2179.5	2166.3	2154.3	2148.9	2134.8	2133.7	2125.0	2119.6	2104.3	2100.0
5°	2316.5	2335.1	2313.2	2289.3	2267.5	2232.8	2228.4	2203.3	2175.0	2142.5	2123.9
7.5°	2487.4	2503.7	2478.7	2442.8	2404.6	2346.9	2345.9	2300.2	2255.6	2200.1	2168.5
10°	2636.4	2658.1	2624.4	2575.5	2527.6	2462.4	2454.7	2402.5	2345.9	2274.1	2226.2
12.5°	2768.1	2783.3	2750.7	2690.8	2635.3	2570.1	2560.2	2502.5	2439.5	2357.9	2296.9
15°	2872.6	2892.1	2848.6	2784.4	2725.7	2661.4	2652.7	2600.5	2537.4	2451.4	2373.1
17.5°	2941.0	2957.4	2912.7	2841.0	2784.4	2731.1	2724.6	2681.0	2625.5	2538.5	2454.7
20°	2967.2	2984.6	2937.9	2864.9	2812.7	2771.3	2768.1	2736.5	2698.4	2619.0	2534.1
22.5°	2993.3	3009.6	2948.7	2872.6	2826.8	2800.7	2799.6	2779.0	2763.7	2698.4	2615.7
25°	3098.9	3103.2	3021.6	2911.7	2846.4	2823.6	2822.4	2821.4	2827.9	2776.7	2703.8
27.5°	3190.2	3189.2	3119.5	3016.2	2915.0	2867.1	2866.0	2876.9	2897.6	2855.1	2795.3
30°	3324.1	3312.1	3229.4	3121.7	3029.2	2955.2	2948.7	2938.9	2955.2	2921.5	2886.7
32.5°	3608.1	3570.0	3436.1	3244.6	3123.9	3067.3	3058.6	2997.6	3004.2	2983.5	2966.1
35°	4015.0	3964.9	3786.5	3477.5	3241.4	3160.9	3156.5	3079.3	3066.2	3047.7	3054.2
37.5°	4499.2	4437.1	4229.4	3814.7	3443.8	3269.6	3263.1	3193.5	3140.2	3120.6	3157.6
40°	4985.6	4907.2	4735.3	4226.1	3741.9	3451.4	3430.7	3325.2	3264.2	3231.6	3309.9
42.5°	5457.8	5392.5	5245.6	4687.4	4109.6	3716.9	3671.1	3490.5	3444.8	3414.4	3555.8
45°	5875.6	5816.9	5709.1	5180.3	4540.5	4078.1	4033.5	3738.6	3724.4	3724.4	3929.0
47.5°	6215.1	6202.1	6087.8	5683.0	5048.6	4489.4	4412.1	4083.5	4121.6	4180.4	4459.0
50°	6591.6	6555.7	6433.8	6178.1	5646.0	4960.5	4897.4	4506.8	4649.3	4810.4	5224.9
52.5°	6937.6	6957.2	6821.2	6693.9	6320.7	5486.1	5375.1	5006.2	5314.1	5580.7	6122.6
55°	7293.4	7294.4	7256.4	7239.0	7027.9	6067.1	5945.2	5606.9	6096.5	6427.3	7169.4
57.5°	7627.4	7629.6	7686.2	7839.6	7848.3	6737.3	6599.2	6344.5	6965.9	7303.1	8248.7
60°	7925.5	7940.8	8095.2	8454.3	8569.7	7505.6	7375.0	7216.1	7864.6	8204.1	9383.6
62.5°	8025.6	8081.1	8425.0	8935.2	9282.4	8447.8	8319.4	8224.8	8809.1	9124.7	10332.4
65°	7855.9	7983.2	8648.0	9332.4	10015.7	9567.5	9440.1	9336.8	9790.5	10087.5	11111.4
67.5°	7439.1	7603.4	8635.0	9749.2	10905.8	10914.5	10795.9	10553.2	10842.7	10956.9	11365.0
70°	6341.3	6587.2	7874.4	9904.8	11927.5	12756.6	12642.3	12017.8	11892.7	11339.9	10651.2
72.5°	4085.8	4416.5	5798.3	8624.0	12154.9	14489.9	14483.4	13339.8	12224.6	10595.6	8542.5
75°	1490.7	1693.1	2694.1	5413.1	10202.8	14401.8	14444.2	13113.4	11159.3	8184.5	5321.8
77.5°	542.9	594.1	879.1	2080.4	6274.9	11555.3	11643.5	10483.6	7942.9	4107.5	2108.7
80°	285.1	313.3	450.5	807.4	2688.7	6862.5	7000.6	6230.4	3733.2	1237.2	632.2
82.5°	157.7	170.9	252.5	438.5	1211.0	2934.6	3017.2	2461.2	1313.3	524.5	261.2
85°	84.9	90.3	118.6	239.3	591.9	1017.3	1040.2	735.5	523.4	307.9	126.2
87.5°	25.0	30.4	39.2	76.2	231.8	228.5	233.9	145.8	206.7	155.6	41.3
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6
2.5°	2093.5	2090.2	2078.2	2072.8	2066.3	2065.2	2070.6	2071.7	2072.8	2073.9	2078.2
5°	2113.0	2102.2	2091.3	2084.7	2086.9	2088.0	2098.9	2106.5	2111.9	2116.3	2118.5
7.5°	2151.2	2142.5	2123.9	2122.9	2126.1	2135.9	2150.0	2167.5	2177.2	2184.9	2187.0
10°	2207.7	2191.3	2169.6	2172.9	2179.5	2193.6	2222.9	2237.1	2253.4	2267.5	2264.3
12.5°	2265.4	2251.2	2226.2	2228.4	2239.2	2264.3	2292.6	2309.9	2320.9	2331.8	2336.1
15°	2340.5	2315.5	2288.2	2288.2	2307.8	2335.1	2348.1	2362.2	2368.8	2380.7	2385.1
17.5°	2417.7	2385.1	2349.2	2346.9	2370.9	2383.9	2391.6	2393.8	2395.9	2409.0	2413.4
20°	2495.0	2459.1	2407.9	2403.5	2409.0	2406.8	2405.8	2403.5	2406.8	2423.1	2429.7
22.5°	2571.1	2529.8	2459.1	2439.5	2424.2	2403.5	2402.5	2401.4	2403.5	2419.9	2430.8
25°	2660.4	2610.3	2515.7	2456.9	2405.8	2377.5	2380.7	2381.8	2383.9	2397.1	2414.5
27.5°	2757.1	2701.7	2567.8	2451.4	2358.9	2339.4	2333.9	2337.2	2344.8	2365.5	2386.2
30°	2854.0	2788.7	2615.7	2429.7	2300.2	2273.0	2255.6	2263.2	2287.2	2307.8	2330.6
32.5°	2942.2	2876.9	2653.8	2381.8	2225.1	2182.6	2159.9	2169.6	2193.6	2201.2	2228.4
35°	3045.5	2971.6	2670.1	2305.6	2143.5	2078.2	2047.7	2033.6	2045.6	2038.0	2061.9
37.5°	3160.9	3083.6	2668.0	2205.5	2047.7	1972.7	1930.3	1877.0	1851.9	1825.8	1842.1
40°	3331.7	3220.8	2641.8	2084.7	1929.2	1860.6	1784.4	1694.1	1637.5	1586.4	1589.7
42.5°	3564.5	3411.1	2594.0	1952.0	1795.3	1731.1	1627.8	1522.2	1432.9	1348.1	1340.5
45°	3911.6	3660.3	2534.1	1810.6	1650.7	1587.5	1475.4	1356.8	1255.6	1146.9	1133.8
47.5°	4412.1	3995.4	2477.5	1649.5	1498.2	1440.6	1339.5	1229.5	1109.9	1004.3	992.3
50°	5099.8	4476.4	2425.4	1492.8	1348.1	1304.6	1224.1	1112.0	991.3	906.4	901.0
52.5°	5974.6	5130.2	2403.5	1341.6	1207.8	1191.5	1127.3	1022.7	908.6	836.7	831.3
55°	6978.9	5912.6	2403.5	1196.9	1084.9	1090.3	1045.6	948.8	849.8	785.6	779.1
57.5°	8003.9	6704.7	2360.1	1063.0	980.3	1003.2	974.9	890.0	800.8	734.4	723.5
60°	8948.4	7368.4	2183.8	941.2	887.9	923.7	905.3	832.4	723.5	668.1	659.4
62.5°	9674.1	7742.7	1844.3	844.4	811.7	853.0	843.3	756.2	709.4	686.5	679.0
65°	10037.5	7681.9	1410.2	758.4	747.5	811.7	791.0	787.8	750.8	724.7	716.0
67.5°	9814.5	7157.4	1022.7	695.3	710.5	773.7	853.0	866.1	797.6	746.4	737.7
70°	8836.2	6208.5	761.7	635.4	663.7	774.7	972.7	906.4	782.3	722.5	712.7
72.5°	6722.2	4629.7	590.8	572.4	602.8	780.1	1026.0	887.9	738.8	798.7	792.1
75°	3844.2	2541.8	474.4	495.1	526.6	729.0	998.9	840.0	705.1	733.4	733.4
77.5°	1465.6	977.1	391.8	418.9	423.2	636.5	955.3	836.7	671.4	655.0	597.4
80°	508.1	381.9	324.2	332.9	327.5	565.8	916.1	728.0	549.5	491.8	475.5
82.5°	207.9	190.4	256.8	245.9	232.9	439.6	739.8	595.2	449.4	397.2	392.8
85°	90.3	120.7	169.7	149.0	134.9	304.6	593.0	503.8	379.8	327.5	326.5
87.5°	18.4	45.7	71.9	67.4	69.6	203.5	421.1	357.9	268.8	201.3	157.7
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)