

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: P1211286

Luminaire Tested: **ARCH4-230-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20844 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

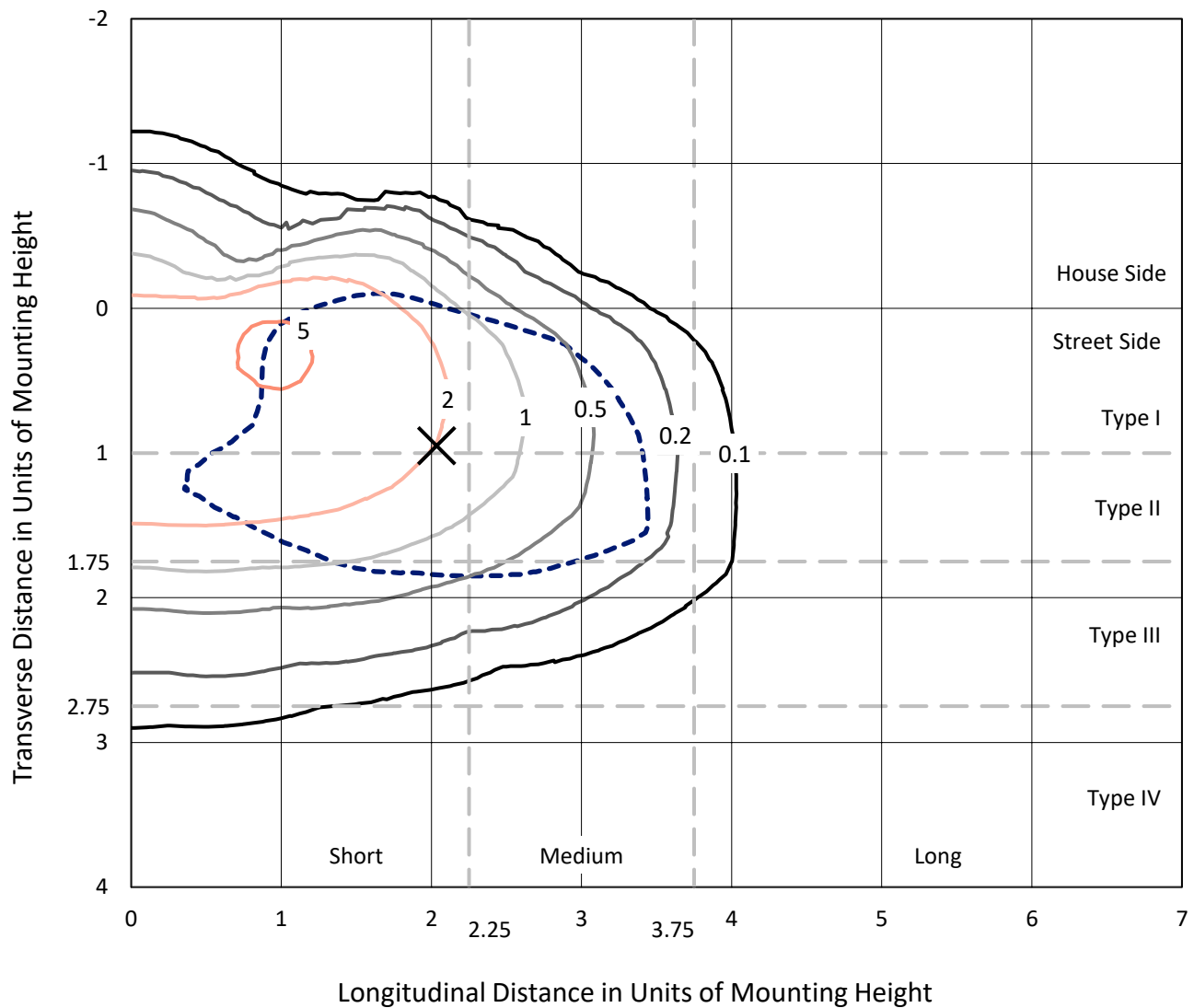
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

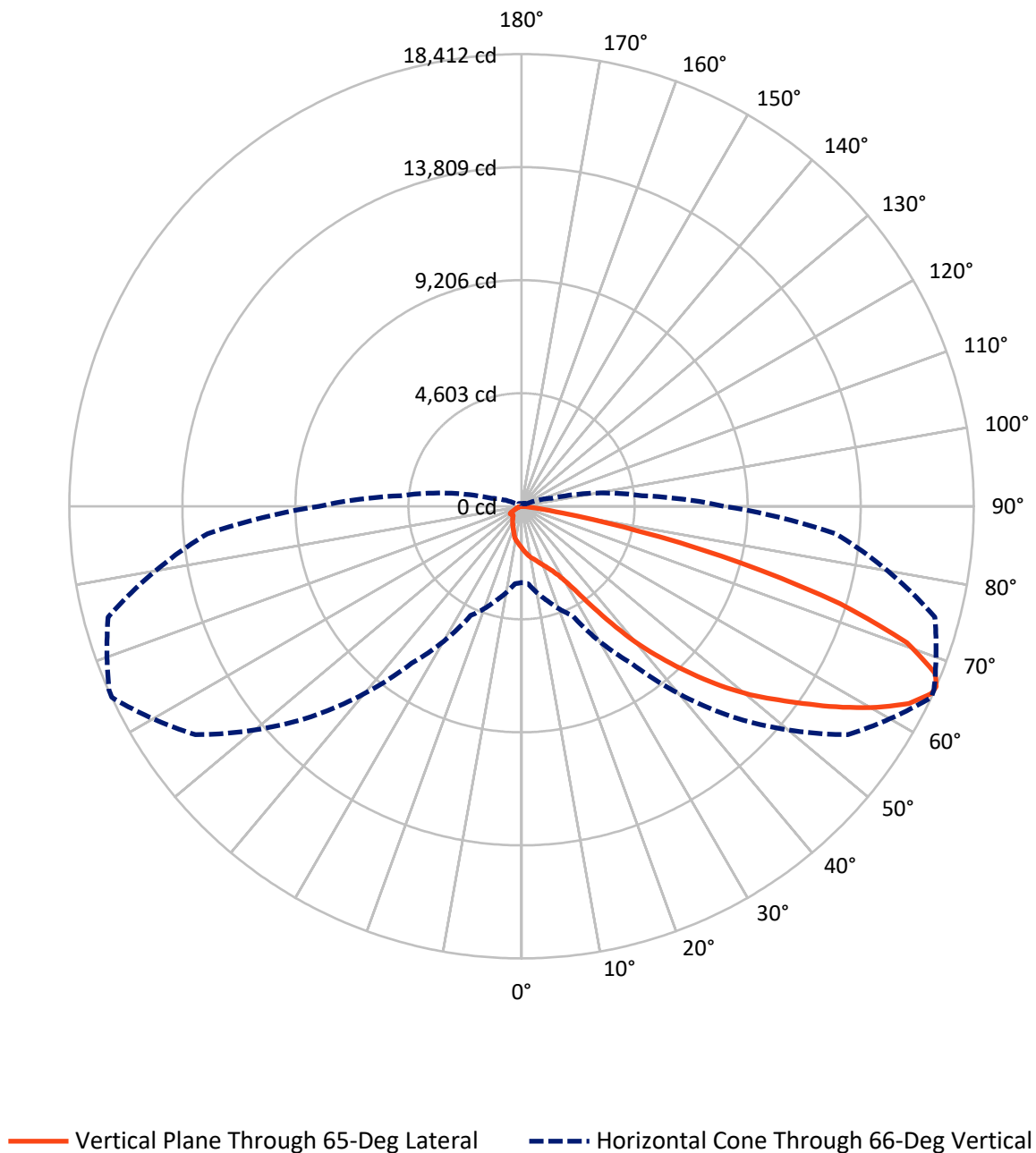


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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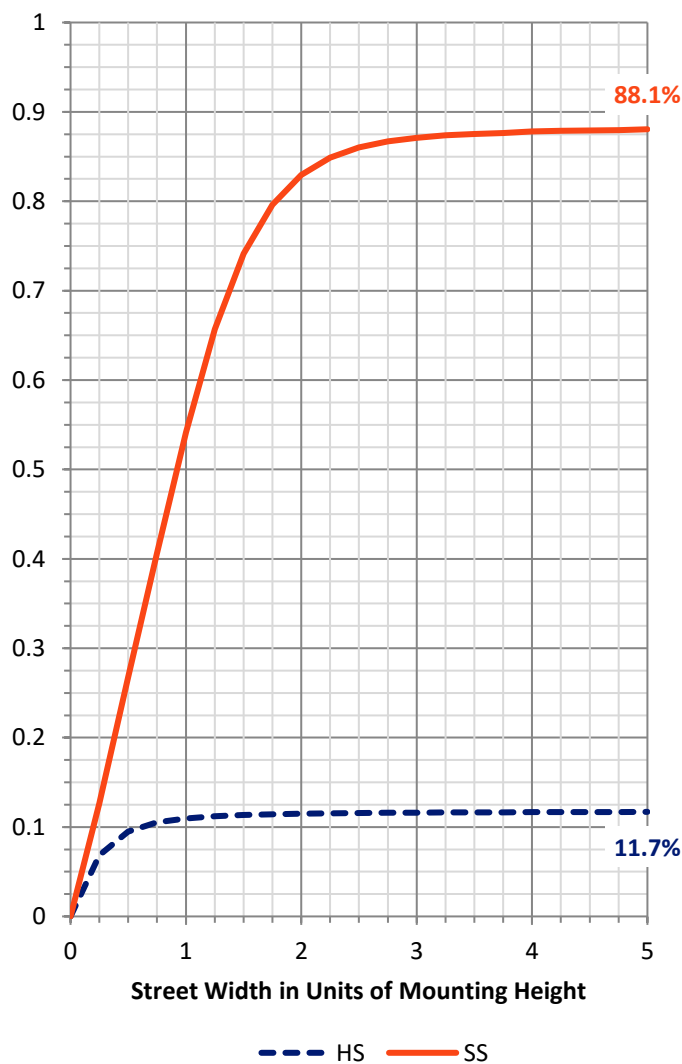
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2460.0	0.0	2460.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18384.0	0.0	18384.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	20844.0	0.0	20844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	0.8
10°-20°	476.6	2.3
20°-30°	872.3	4.2
30°-40°	1772.5	8.5
40°-50°	3743.0	18.0
50°-60°	5754.2	27.6
60°-70°	5792.0	27.8
70°-80°	2164.2	10.4
80°-90°	108.1	0.5
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°	20844.0	100.0
0°-180°	20844.0	100.0

Coefficient of Utilization



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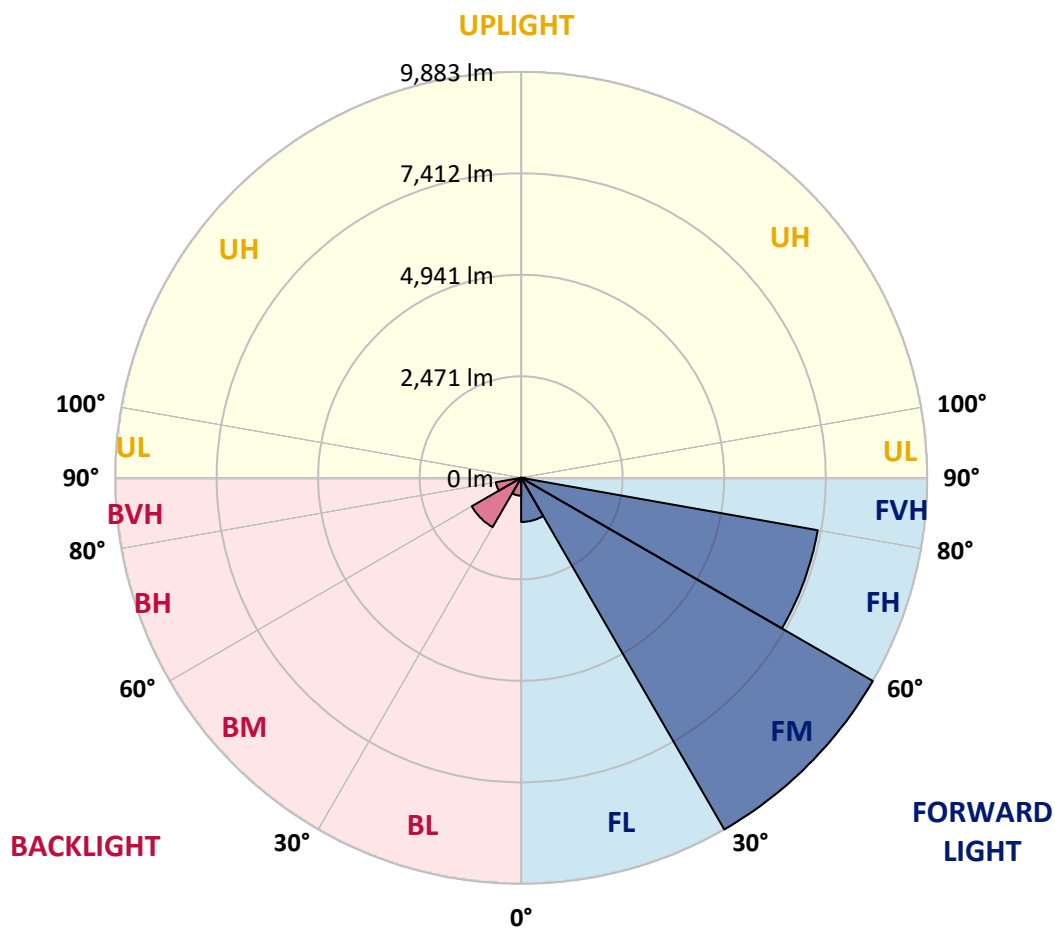
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1074.5	5.2			
FM	(30°-60°)	9882.8	47.4			
FH	(60°-80°)	7331.3	35.2			G3/7500
FVH	(80°-90°)	95.4	0.5			G1/100
BL	(0°-30°)	435.4	2.1	B1/500		
BM	(30°-60°)	1387.0	6.7	B2/2500		
BH	(60°-80°)	624.9	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2
2.5°	1936.5	1940.3	1932.7	1917.6	1902.4	1883.5	1853.3	1804.1	1796.5	1762.5	1724.7
5°	2068.9	2076.4	2065.1	2061.3	2053.7	2027.2	1985.6	1913.8	1906.2	1838.1	1751.2
7.5°	2114.2	2125.6	2118.0	2118.0	2118.0	2106.7	2087.8	2023.5	2012.1	1925.1	1792.8
10°	2148.3	2155.8	2152.1	2167.2	2178.5	2171.0	2159.6	2121.8	2110.5	2023.5	1849.5
12.5°	2201.2	2205.0	2208.8	2216.4	2235.3	2242.8	2239.1	2205.0	2197.4	2136.9	1921.3
15°	2250.4	2250.4	2254.2	2288.2	2314.7	2329.8	2333.6	2307.1	2299.6	2250.4	2012.1
17.5°	2295.8	2299.6	2310.9	2348.7	2394.1	2424.4	2443.3	2431.9	2420.6	2382.8	2118.0
20°	2363.9	2371.4	2382.8	2435.7	2481.1	2530.3	2568.1	2564.3	2560.5	2534.1	2242.8
22.5°	2481.1	2488.7	2507.6	2556.8	2602.1	2662.7	2727.0	2723.2	2711.8	2692.9	2390.3
25°	2658.9	2658.9	2670.2	2711.8	2768.6	2840.4	2900.9	2912.3	2900.9	2889.6	2575.7
27.5°	2882.0	2885.8	2885.8	2931.2	2984.1	3074.9	3150.6	3161.9	3161.9	3150.6	2825.3
30°	3192.2	3180.8	3173.3	3211.1	3267.8	3400.2	3532.6	3555.3	3543.9	3562.8	3177.0
32.5°	3725.4	3706.5	3642.2	3649.8	3683.8	3865.4	4088.5	4168.0	4164.2	4198.2	3744.4
35°	4463.0	4425.2	4330.6	4251.2	4247.4	4444.1	4784.5	5083.3	5079.5	5196.7	4606.7
37.5°	5295.1	5344.2	5166.5	5030.3	4988.7	5143.8	5582.5	6229.3	6263.3	6467.5	5737.6
40°	6407.0	6437.3	6210.3	6017.5	5820.8	5877.5	6456.2	7462.2	7522.8	7749.7	6868.4
42.5°	7375.3	7405.5	7273.1	7038.6	6789.0	6683.1	7337.4	8581.8	8630.9	8944.9	8033.4
45°	8033.4	8056.0	8101.4	8124.1	7840.5	7621.1	8415.4	9731.6	9792.1	10155.2	9171.8
47.5°	8547.7	8566.6	8657.4	8884.3	8827.6	8653.6	9512.2	10926.7	10941.9	11346.5	10280.0
50°	8786.0	8831.4	9054.5	9402.5	9652.1	9701.3	10703.6	12057.6	12099.2	12485.0	11327.6
52.5°	8521.3	8536.4	9099.9	9754.2	10257.3	10756.5	11898.7	13105.3	13226.3	13513.7	12269.4
55°	7628.7	7738.3	8593.1	9742.9	10733.8	11758.8	13177.1	14236.1	14345.8	14527.4	13097.7
57.5°	6592.3	6713.4	7753.5	9255.0	10938.1	12685.4	14360.9	15438.9	15514.5	15563.7	13857.9
60°	5696.0	5809.4	6879.8	8320.8	10733.8	13339.8	15461.6	16634.0	16698.3	16566.0	14239.9
62.5°	4595.4	4708.8	5786.7	7084.0	9932.0	13472.1	16278.5	17696.8	17723.3	17364.0	14005.4
65°	3464.5	3540.1	4440.3	5552.2	8528.8	12768.6	16463.8	18358.7	18332.2	17594.7	13301.9
66°	3105.2	3169.5	3963.7	4909.3	7798.9	12125.7	16214.2	18411.7	18385.2	17424.5	12840.5
67.5°	2677.8	2696.7	3351.0	4016.7	6524.3	10760.3	15454.0	18169.6	18192.3	16955.5	11997.1
70°	2091.5	2087.8	2466.0	2795.0	4455.4	7655.1	12889.7	16645.4	16755.1	15185.5	10230.8
72.5°	1338.9	1293.5	1512.9	1709.5	2594.6	4444.1	9398.7	13566.7	13752.0	11929.0	7621.1
75°	798.0	752.7	805.6	854.8	1244.3	2136.9	5525.8	9232.3	9410.1	7647.6	4534.8
77.5°	597.6	578.7	582.5	540.9	552.2	801.8	2522.7	4879.0	5007.6	3131.6	1720.9
80°	457.6	408.5	382.0	400.9	363.1	317.7	938.0	1679.3	1758.7	741.3	359.3
82.5°	306.4	264.8	245.8	268.5	230.7	177.8	226.9	325.3	317.7	200.5	139.9
85°	158.9	136.2	136.2	136.2	117.2	87.0	98.3	132.4	132.4	105.9	83.2
87.5°	45.4	41.6	49.2	45.4	34.0	34.0	37.8	45.4	45.4	41.6	37.8
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°	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2	1698.2
2.5°	1694.4	1679.3	1637.7	1607.4	1577.2	1550.7	1520.4	1512.9	1497.7	1501.5	1494.0
5°	1705.8	1664.2	1592.3	1524.2	1471.3	1425.9	1369.1	1346.5	1316.2	1304.9	1297.3
7.5°	1720.9	1660.4	1554.5	1459.9	1369.1	1278.4	1187.6	1134.7	1100.6	1085.5	1074.1
10°	1754.9	1675.5	1535.6	1388.1	1233.0	1104.4	1013.6	975.8	953.1	949.3	945.5
12.5°	1800.3	1698.2	1516.7	1297.3	1093.1	972.0	915.3	903.9	900.2	900.2	896.4
15°	1868.4	1736.0	1486.4	1191.4	983.4	900.2	873.7	854.8	847.2	847.2	847.2
17.5°	1936.5	1781.4	1441.0	1081.7	907.7	854.8	828.3	817.0	809.4	813.2	809.4
20°	2023.5	1834.4	1380.5	987.1	858.6	817.0	790.5	779.1	775.3	775.3	775.3
22.5°	2121.8	1894.9	1304.9	915.3	817.0	779.1	752.7	741.3	733.7	737.5	737.5
25°	2254.2	1970.5	1225.4	843.4	775.3	741.3	711.1	695.9	695.9	699.7	703.5
27.5°	2424.4	2061.3	1146.0	798.0	737.5	703.5	669.4	654.3	658.1	665.7	665.7
30°	2674.0	2186.1	1066.6	748.9	695.9	658.1	627.8	612.7	620.3	635.4	635.4
32.5°	3029.5	2390.3	998.5	692.1	635.4	593.8	563.5	552.2	571.1	601.4	601.4
35°	3664.9	2764.8	956.9	635.4	571.1	521.9	484.1	472.8	499.2	537.1	537.1
37.5°	4515.9	3366.1	972.0	586.2	518.2	461.4	419.8	404.7	423.6	457.6	469.0
40°	5465.3	4092.3	1104.4	544.6	469.0	412.3	370.7	355.5	366.9	382.0	385.8
42.5°	6414.6	4863.9	1354.0	514.4	431.2	370.7	332.8	321.5	329.0	332.8	336.6
45°	7360.1	5627.9	1667.9	495.5	397.1	336.6	298.8	298.8	302.6	302.6	302.6
47.5°	8256.5	6373.0	1997.0	491.7	366.9	302.6	272.3	276.1	276.1	279.9	279.9
50°	9103.7	7038.6	2329.8	503.0	340.4	272.3	249.6	249.6	249.6	253.4	249.6
52.5°	9811.0	7621.1	2677.8	521.9	313.9	249.6	226.9	226.9	226.9	230.7	226.9
55°	10480.4	8150.6	3033.3	548.4	291.2	230.7	208.0	200.5	200.5	204.2	200.5
57.5°	11025.1	8502.3	3369.9	552.2	272.3	211.8	192.9	181.5	181.5	181.5	181.5
60°	11047.8	8298.1	3468.3	484.1	249.6	192.9	174.0	158.9	162.6	162.6	162.6
62.5°	10325.4	7224.0	2787.5	363.1	223.1	174.0	158.9	143.7	143.7	143.7	143.7
65°	8907.0	5620.3	1633.9	287.4	192.9	155.1	139.9	128.6	128.6	128.6	124.8
66°	8241.4	4928.2	1251.9	261.0	181.5	151.3	136.2	124.8	121.0	117.2	117.2
67.5°	7155.9	3895.6	782.9	230.7	166.4	139.9	124.8	113.5	109.7	105.9	105.9
70°	5389.6	2473.5	382.0	177.8	143.7	121.0	109.7	98.3	94.6	90.8	87.0
72.5°	3782.2	1448.6	200.5	136.2	117.2	105.9	94.6	83.2	79.4	75.6	75.6
75°	2136.9	699.7	132.4	98.3	94.6	87.0	79.4	68.1	64.3	64.3	64.3
77.5°	809.4	242.1	90.8	71.9	75.6	68.1	56.7	56.7	53.0	56.7	53.0
80°	211.8	105.9	56.7	53.0	56.7	49.2	41.6	45.4	45.4	45.4	45.4
82.5°	113.5	60.5	34.0	37.8	34.0	34.0	26.5	30.3	34.0	30.3	34.0
85°	79.4	30.3	18.9	18.9	15.1	15.1	11.3	15.1	18.9	15.1	15.1
87.5°	41.6	11.3	11.3	11.3	11.3	7.6	3.8	0.0	3.8	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)