

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: P836824

Luminaire Tested: **ARCH3-80-727-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

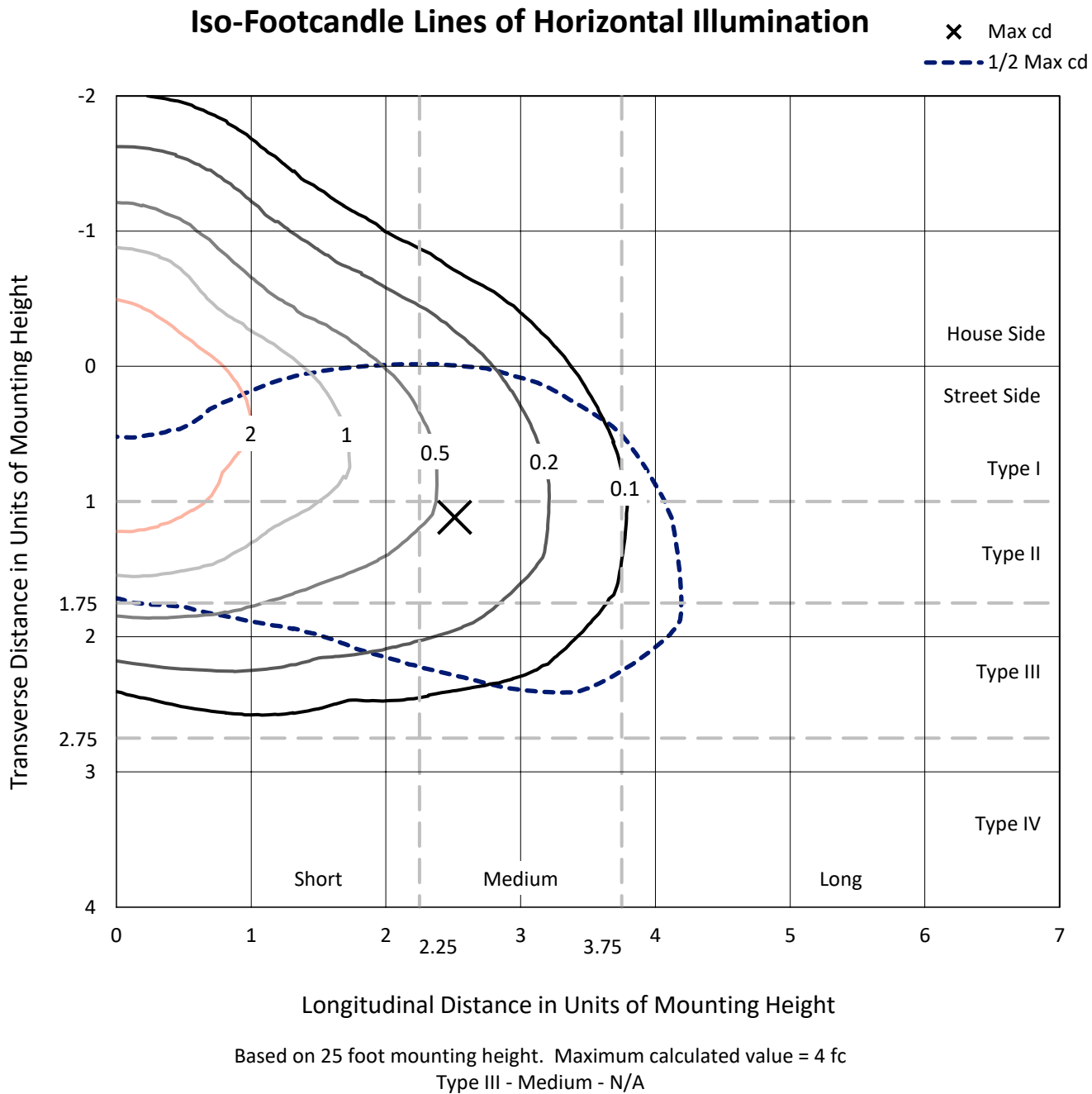
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12653 lumens
Efficiency: N/A
Efficacy: 154.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 81.9
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

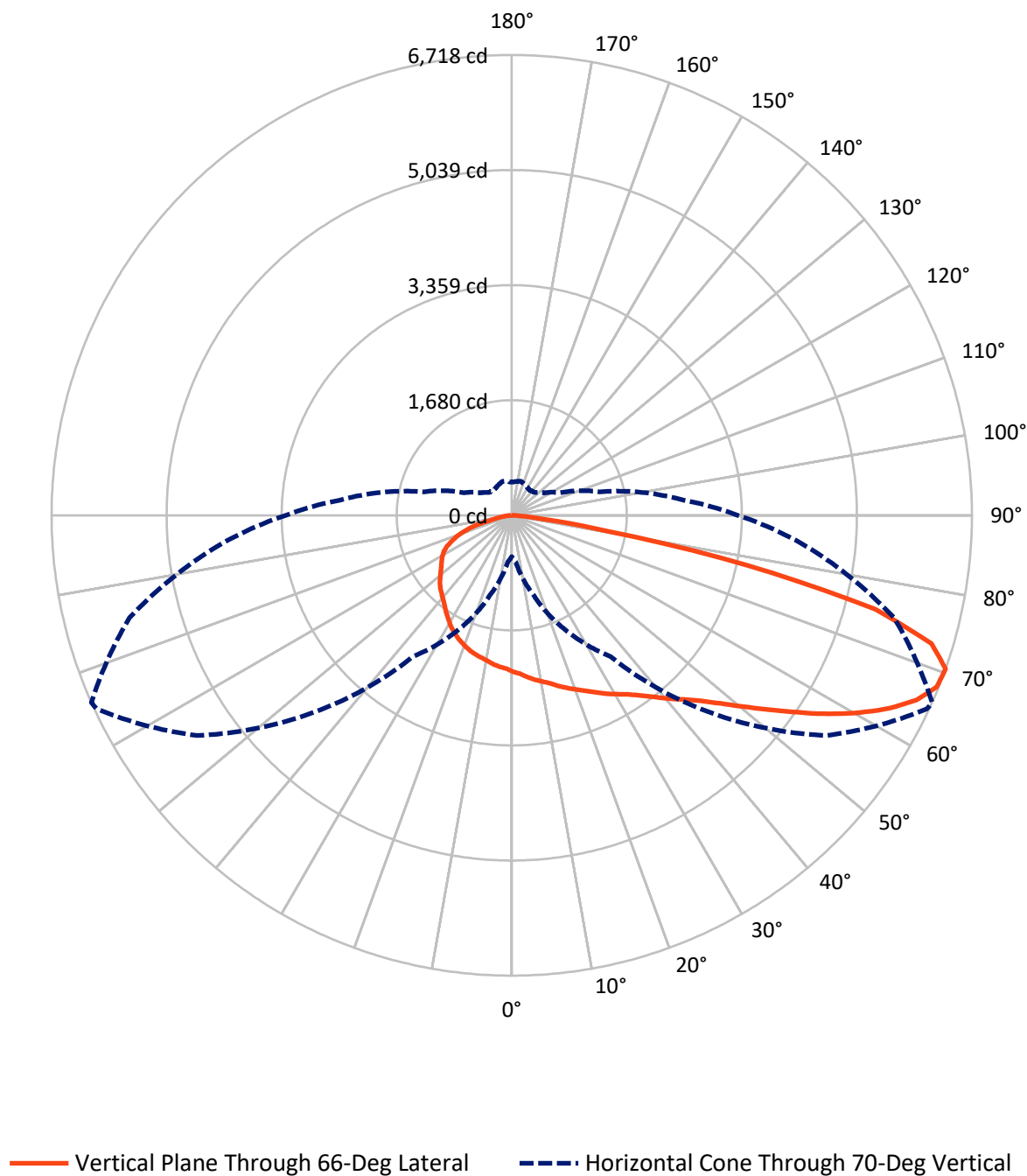


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Luminous Intensity Polar Plot



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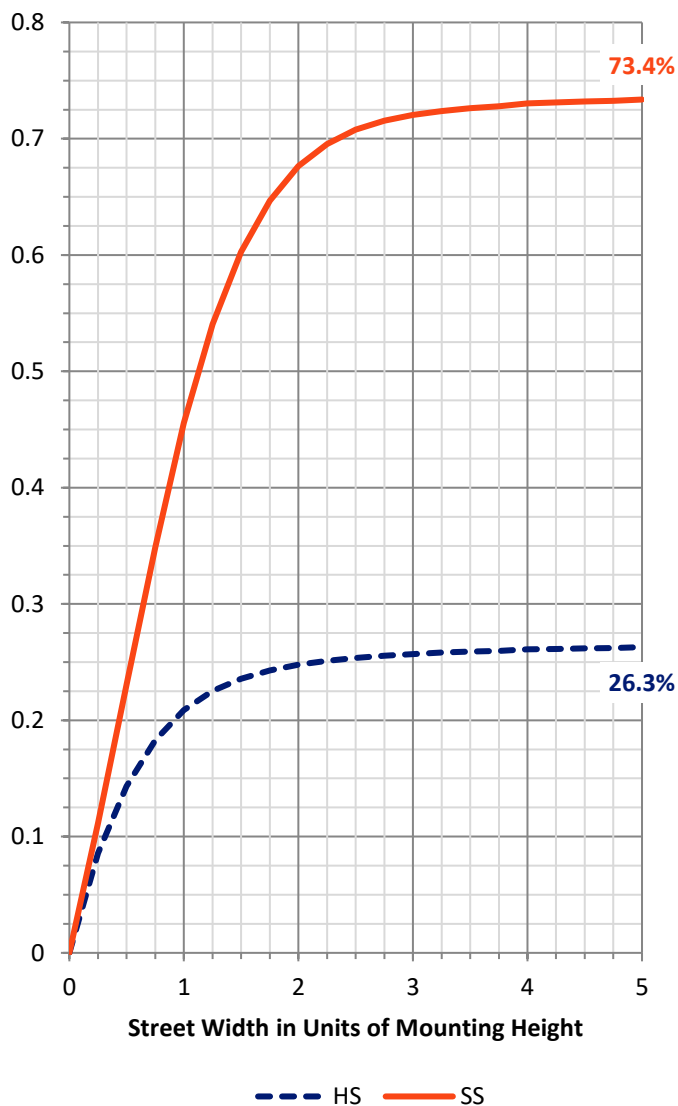
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3352.7	0.0	3352.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	9300.2	0.0	9300.2
	% Fixture	73.5	0.0	73.5
Total	Lumens	12653.0	0.0	12653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.4	1.7
10°-20°	658.2	5.2
20°-30°	1103.4	8.7
30°-40°	1652.1	13.1
40°-50°	2208.9	17.5
50°-60°	2578.9	20.4
60°-70°	2564.3	20.3
70°-80°	1518.1	12.0
80°-90°	149.6	1.2
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°	12653.0	100.0
0°-180°	12653.0	100.0

Coefficient of Utilization



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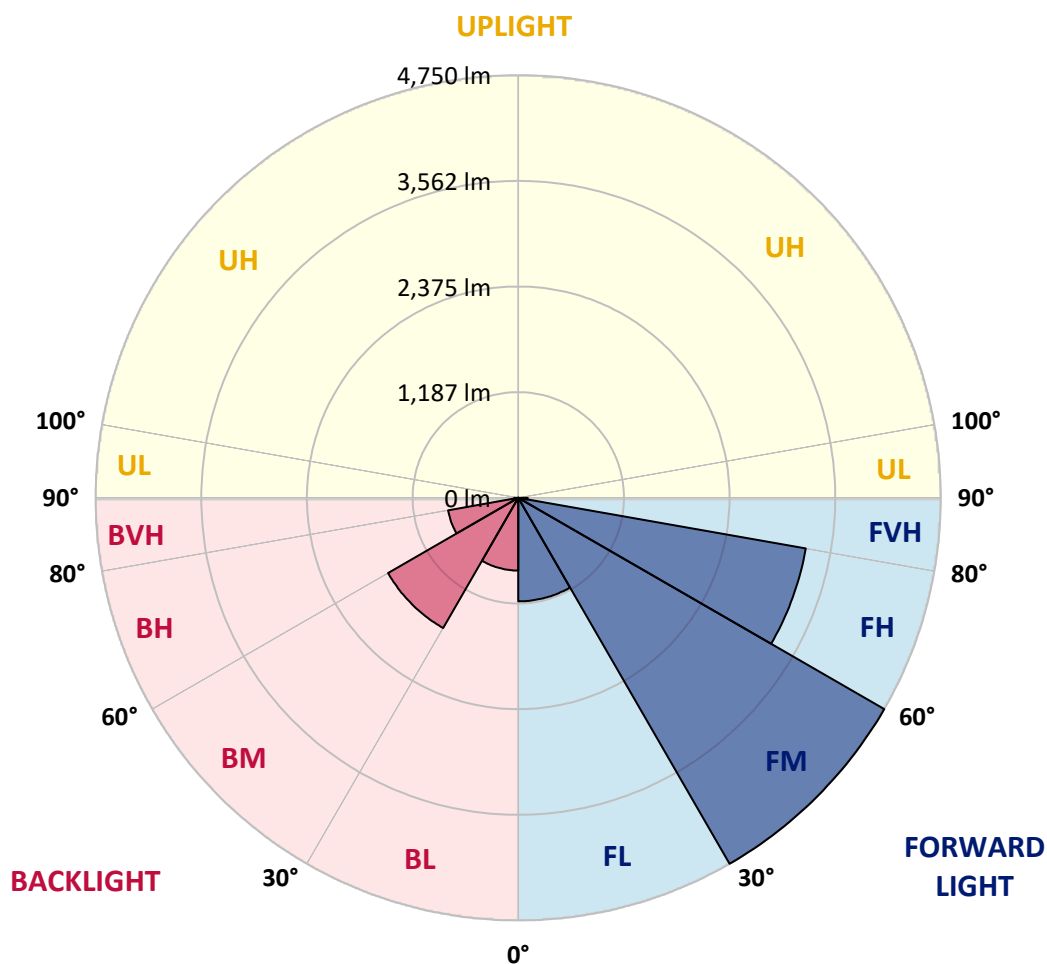
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1163.7	9.2			
FM	(30°-60°)	4749.8	37.5			
FH	(60°-80°)	3281.6	25.9			G2/5000
FVH	(80°-90°)	105.2	0.8			G2/225
BL	(0°-30°)	817.3	6.5	B2/1000		
BM	(30°-60°)	1690.1	13.4	B2/2500		
BH	(60°-80°)	800.9	6.3	B2/1000		G2/1000
BVH	(80°-90°)	44.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6
2.5°	2367.5	2363.8	2361.9	2354.5	2337.7	2345.1	2328.4	2317.2	2315.3	2289.2	2274.3
5°	2464.5	2462.7	2459.0	2447.8	2421.6	2425.4	2397.4	2376.9	2371.3	2330.2	2298.5
7.5°	2546.6	2542.9	2541.0	2526.1	2498.1	2496.3	2462.7	2432.8	2423.5	2367.5	2319.0
10°	2610.1	2604.5	2608.2	2593.3	2563.4	2557.8	2514.9	2475.7	2466.4	2395.5	2328.4
12.5°	2664.2	2660.4	2666.0	2653.0	2628.7	2623.1	2580.2	2529.8	2518.7	2436.6	2348.9
15°	2723.9	2710.8	2722.0	2716.4	2699.6	2697.8	2658.6	2602.6	2587.7	2488.8	2380.6
17.5°	2755.6	2748.1	2761.2	2763.1	2755.6	2768.7	2731.3	2664.2	2651.1	2537.3	2408.6
20°	2778.0	2766.8	2781.7	2792.9	2798.5	2824.6	2794.8	2729.5	2714.5	2584.0	2434.7
22.5°	2854.5	2830.2	2832.1	2839.5	2843.3	2880.6	2861.9	2798.5	2783.6	2641.8	2466.4
25°	3046.6	2998.1	2966.4	2944.0	2917.9	2949.6	2938.4	2876.9	2863.8	2710.8	2505.6
27.5°	3345.1	3283.6	3220.1	3154.8	3052.2	3039.2	3020.5	2964.5	2949.6	2779.8	2544.8
30°	3684.7	3623.1	3548.5	3444.0	3251.9	3151.1	3108.2	3046.6	3029.8	2841.4	2582.1
32.5°	4022.4	3968.3	3893.7	3766.8	3492.5	3287.3	3195.9	3132.5	3115.7	2908.6	2626.9
35°	4285.4	4251.9	4203.4	4044.8	3731.3	3447.8	3322.8	3246.3	3227.6	3014.9	2709.0
37.5°	4498.1	4473.9	4432.8	4266.8	3904.8	3608.2	3468.3	3380.6	3360.1	3130.6	2796.6
40°	4811.6	4748.1	4714.5	4473.9	4056.0	3753.7	3632.5	3541.0	3518.7	3253.7	2867.5
42.5°	5078.3	5031.7	4990.7	4658.6	4199.6	3878.7	3787.3	3703.4	3673.5	3375.0	2944.0
45°	5123.1	5141.8	5121.3	4750.0	4427.2	4001.9	3944.0	3889.9	3861.9	3539.2	3059.7
47.5°	5125.0	5125.0	5003.7	4802.2	4708.9	4139.9	4111.9	4130.6	4100.7	3748.1	3197.8
50°	4990.7	5014.9	4951.5	4815.3	4783.6	4278.0	4317.2	4417.9	4388.1	3970.1	3347.0
52.5°	4712.7	4792.9	4791.0	4794.8	4675.4	4395.5	4533.6	4763.1	4712.7	4220.1	3505.6
55°	4222.0	4382.5	4526.1	4649.2	4582.1	4466.4	4798.5	5130.6	5078.3	4500.0	3666.0
57.5°	3802.2	3904.8	4083.9	4432.8	4472.0	4528.0	5046.6	5514.9	5468.3	4809.7	3833.9
60°	3322.8	3464.5	3643.7	4139.9	4337.7	4608.2	5319.0	5889.9	5845.1	5123.1	3996.3
62.5°	2585.8	2768.7	3126.9	3690.3	4141.8	4658.6	5533.6	6220.1	6199.6	5419.8	4141.8
65°	1802.2	1964.5	2466.4	3138.1	3830.2	4636.2	5705.2	6514.9	6496.3	5662.3	4244.4
67.5°	1052.2	1240.7	1807.8	2526.1	3279.8	4481.3	5761.2	6688.4	6688.4	5809.7	4272.4
70°	600.7	688.4	1192.2	1841.4	2514.9	4054.1	5604.5	6686.6	6718.3	5776.1	4156.7
72.5°	419.8	459.0	802.2	1238.8	1705.2	3279.8	5194.0	6363.8	6406.7	5458.9	3761.2
75°	326.5	354.5	565.3	845.1	1074.6	2227.6	4296.6	5365.7	5479.5	4653.0	3041.0
77.5°	248.1	268.7	330.2	528.0	688.4	1279.8	2835.8	3518.7	3526.1	2848.9	1630.6
80°	181.0	201.5	220.1	322.8	365.7	598.9	1070.9	1470.1	1429.1	1378.7	882.5
82.5°	108.2	128.7	134.3	175.4	179.1	255.6	375.0	473.9	455.2	606.3	414.2
85°	46.6	65.3	69.0	80.2	76.5	104.5	149.3	125.0	111.9	128.7	89.6
87.5°	11.2	18.7	18.7	20.5	16.8	26.1	28.0	20.5	18.7	22.4	22.4
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°	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6	2283.6
2.5°	2270.5	2264.9	2266.8	2235.1	2225.7	2216.4	2210.8	2207.1	2203.4	2209.0	2214.5
5°	2287.3	2274.3	2259.3	2212.7	2194.0	2173.5	2158.6	2145.5	2139.9	2139.9	2145.5
7.5°	2300.4	2278.0	2246.3	2184.7	2151.1	2123.1	2098.9	2082.1	2072.8	2072.8	2078.4
10°	2302.2	2270.5	2220.1	2145.5	2100.7	2059.7	2031.7	2013.1	2000.0	2000.0	2003.7
12.5°	2313.4	2270.5	2205.2	2115.7	2059.7	2009.3	1975.7	1947.8	1942.2	1942.2	1945.9
15°	2332.1	2279.8	2195.9	2089.5	2022.4	1964.5	1927.2	1897.4	1886.2	1893.7	1895.5
17.5°	2348.9	2285.4	2179.1	2056.0	1975.7	1912.3	1871.3	1845.1	1830.2	1847.0	1847.0
20°	2360.1	2285.4	2154.8	2013.1	1925.4	1854.5	1815.3	1783.6	1772.4	1792.9	1794.8
22.5°	2376.9	2283.6	2128.7	1970.1	1871.3	1796.6	1757.5	1733.2	1727.6	1750.0	1757.5
25°	2395.5	2287.3	2100.7	1921.6	1811.6	1738.8	1709.0	1697.8	1701.5	1729.5	1738.8
27.5°	2416.0	2294.8	2072.8	1867.5	1746.3	1681.0	1664.2	1669.8	1684.7	1720.1	1731.3
30°	2434.7	2296.6	2033.6	1804.1	1671.6	1610.1	1617.5	1641.8	1664.2	1699.6	1712.7
32.5°	2459.0	2298.5	1992.5	1735.1	1591.4	1546.6	1580.2	1619.4	1641.8	1675.4	1690.3
35°	2518.7	2330.2	1960.8	1667.9	1516.8	1492.5	1548.5	1598.9	1611.9	1641.8	1654.8
37.5°	2587.7	2382.5	1944.0	1598.9	1444.0	1438.4	1509.3	1559.7	1563.4	1582.1	1595.1
40°	2630.6	2404.8	1925.4	1541.0	1378.7	1382.5	1455.2	1494.4	1486.9	1500.0	1509.3
42.5°	2673.5	2412.3	1886.2	1492.5	1317.2	1320.9	1376.9	1404.8	1408.6	1436.6	1449.6
45°	2746.3	2432.8	1843.3	1447.8	1261.2	1248.1	1281.7	1319.0	1367.5	1421.6	1436.6
47.5°	2843.3	2475.7	1798.5	1393.7	1207.1	1164.2	1177.2	1242.5	1292.9	1343.3	1352.6
50°	2942.2	2518.7	1757.5	1328.4	1153.0	1074.6	1080.2	1139.9	1181.0	1220.1	1225.7
52.5°	3039.2	2556.0	1722.0	1266.8	1091.4	968.3	990.7	1052.2	1080.2	1098.9	1104.5
55°	3136.2	2587.7	1690.3	1214.6	1020.5	884.3	904.8	962.7	990.7	1000.0	1003.7
57.5°	3236.9	2625.0	1666.0	1169.8	940.3	809.7	822.8	863.8	889.9	901.1	897.4
60°	3320.9	2656.7	1653.0	1123.1	860.1	740.7	736.9	774.3	811.6	822.8	819.0
62.5°	3386.2	2677.2	1632.5	1063.4	789.2	671.6	653.0	701.5	740.7	748.1	753.7
65°	3421.6	2679.1	1582.1	986.9	716.4	597.0	584.0	632.5	656.7	664.2	664.2
67.5°	3416.0	2649.2	1483.2	884.3	649.3	529.8	518.7	548.5	584.0	589.6	584.0
70°	3300.4	2526.1	1324.6	776.1	569.0	470.1	449.6	479.5	513.1	492.5	483.2
72.5°	2972.0	2207.1	1091.4	656.7	479.5	395.5	386.2	416.0	417.9	421.6	412.3
75°	2345.1	1643.7	817.2	511.2	388.1	332.1	330.2	324.6	332.1	347.0	335.8
77.5°	1231.3	820.9	442.2	313.4	281.7	266.8	253.7	251.9	274.3	283.6	272.4
80°	667.9	460.8	253.7	188.4	171.6	173.5	190.3	186.6	210.8	216.4	207.1
82.5°	291.0	218.3	125.0	113.8	113.8	111.9	117.5	130.6	156.7	156.7	125.0
85°	63.4	54.1	48.5	56.0	63.4	63.4	63.4	63.4	44.8	24.3	16.8
87.5°	20.5	20.5	20.5	22.4	24.3	24.3	20.5	14.9	9.3	1.9	0.0
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)