

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: P799880

Luminaire Tested: **ARCH2-60-727-U-T4W-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799880
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-727-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

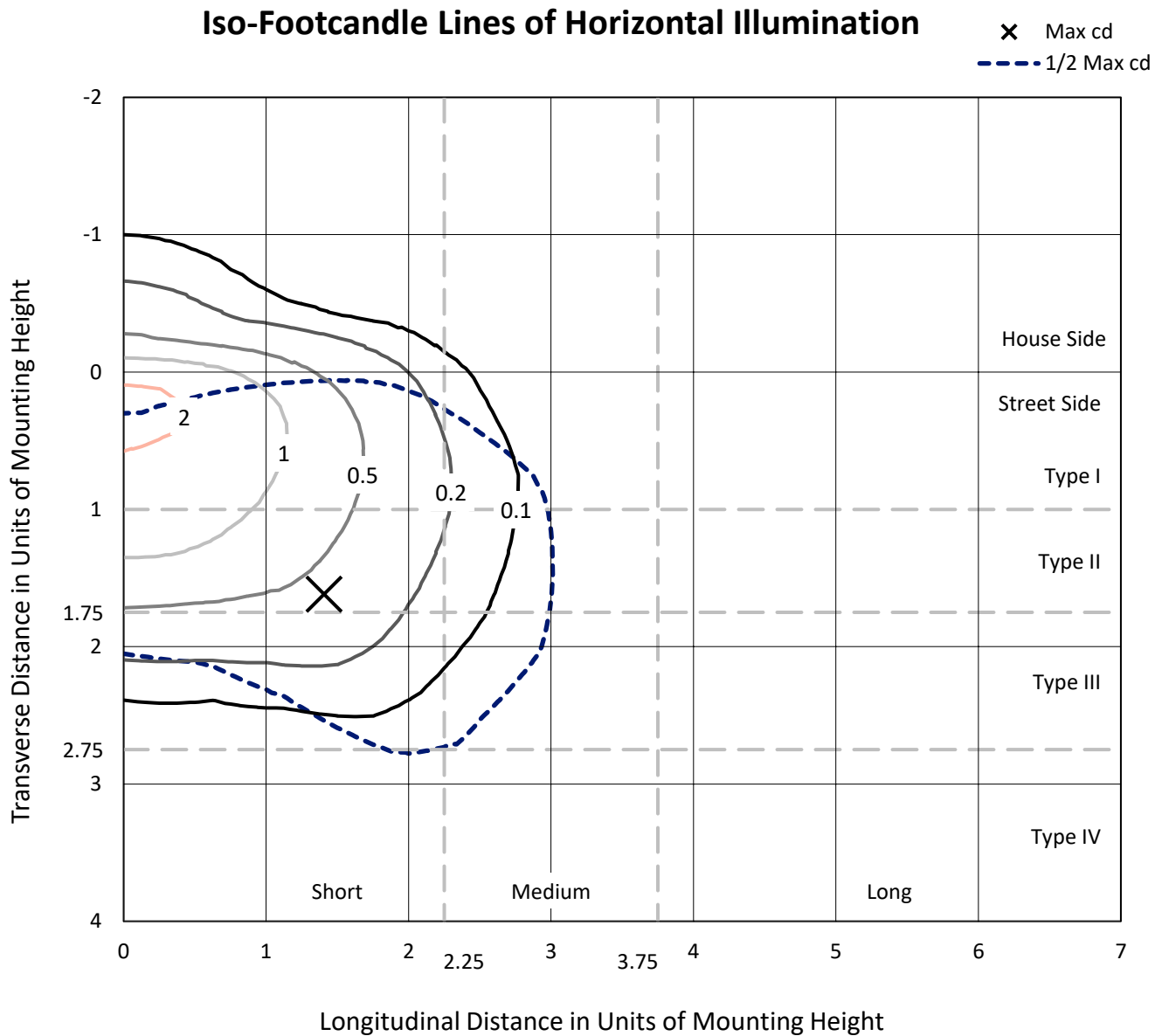
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5938 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.8
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

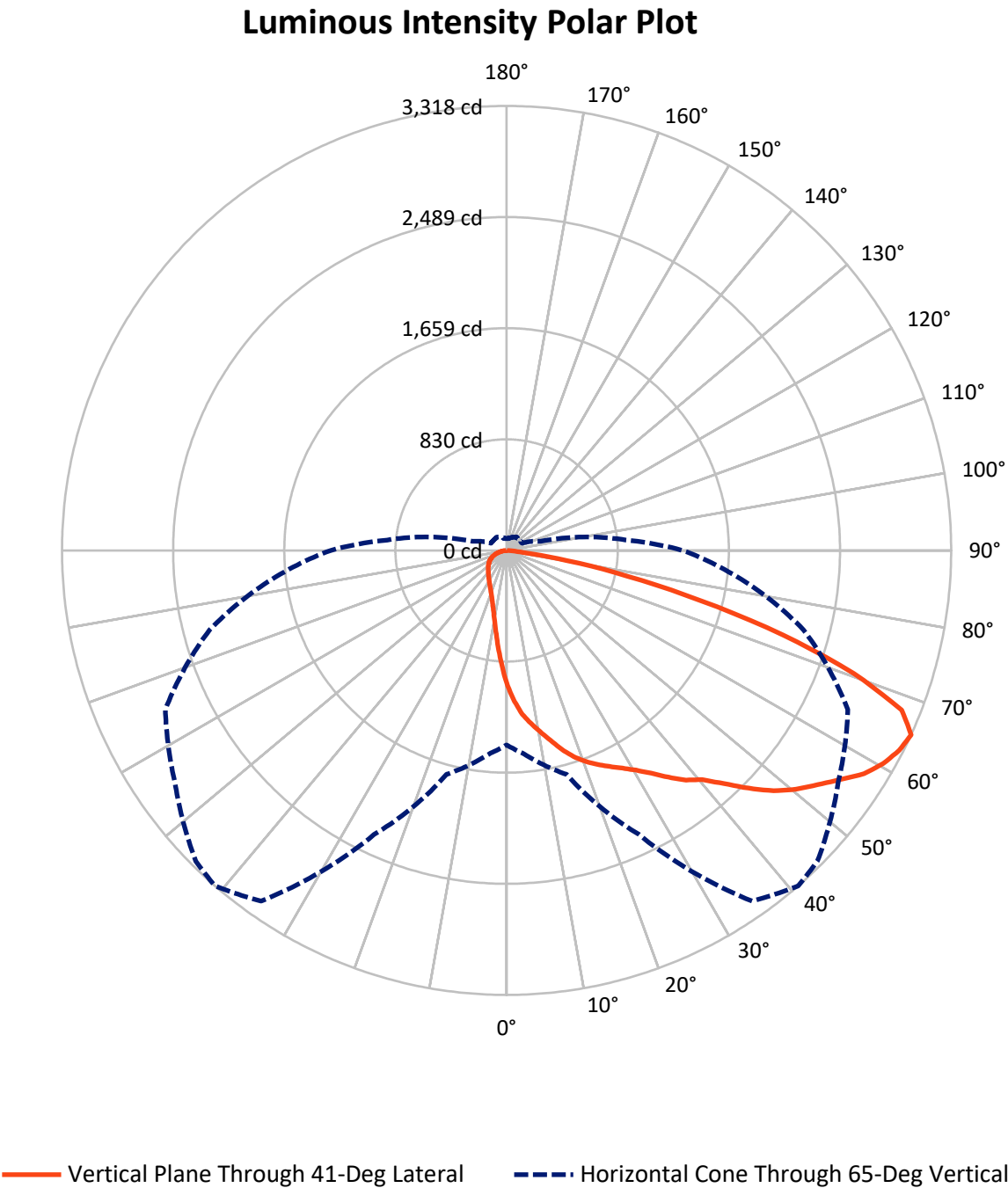


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Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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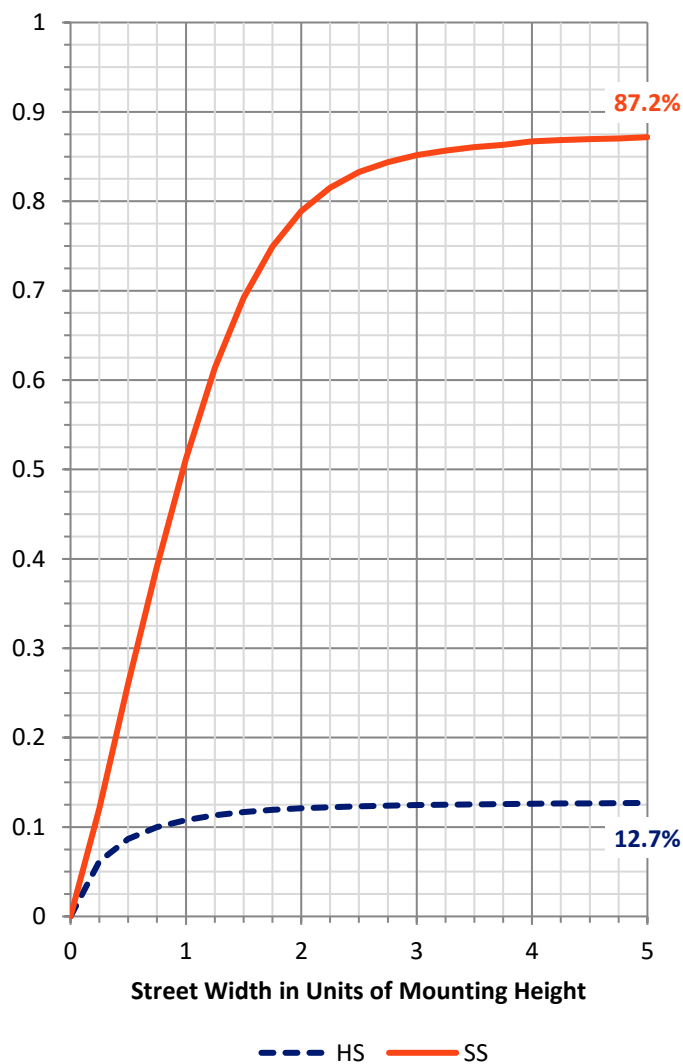
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	762.4	0.0	762.4
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5175.7	0.0	5175.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	5938.0	0.0	5938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.6
10°-20°	282.7	4.8
20°-30°	486.3	8.2
30°-40°	737.6	12.4
40°-50°	1080.6	18.2
50°-60°	1364.5	23.0
60°-70°	1279.5	21.5
70°-80°	570.3	9.6
80°-90°	42.3	0.7
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°	5938.0	100.0
0°-180°	5938.0	100.0

Coefficient of Utilization



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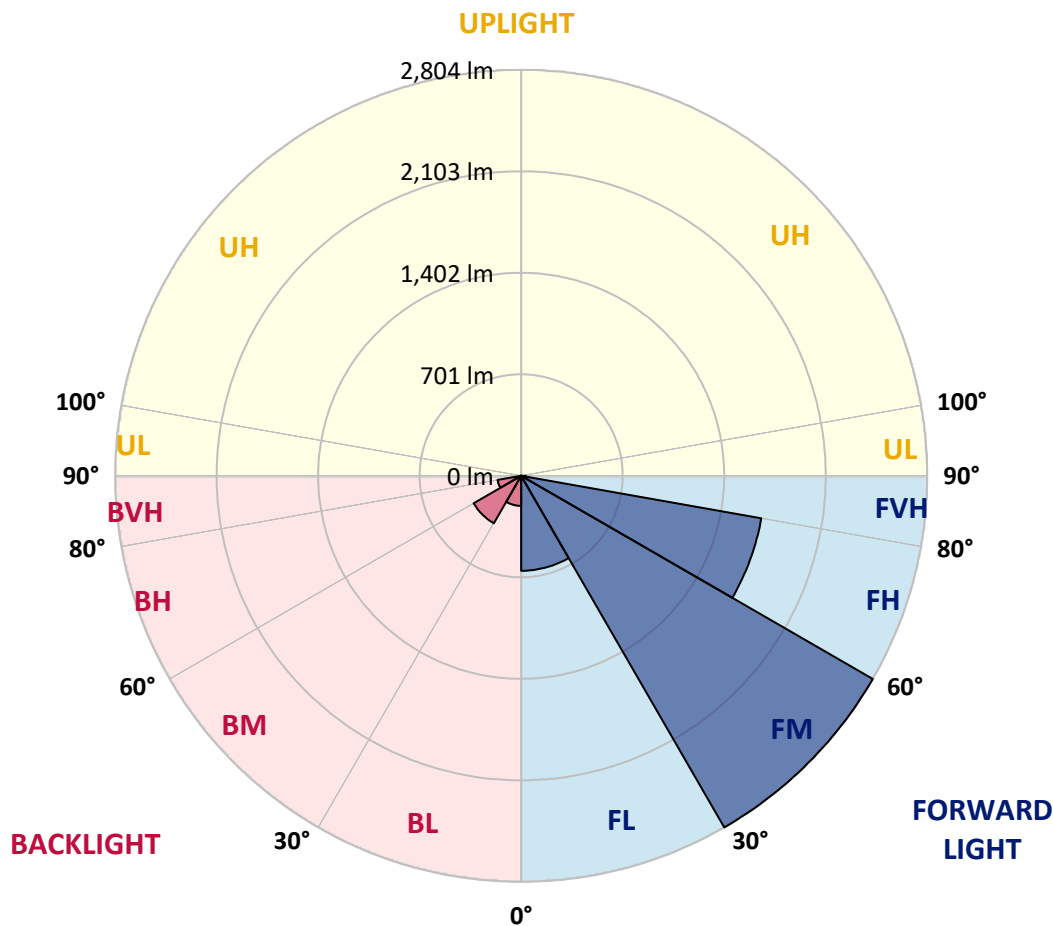
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	655.8	11.0			
FM	(30°-60°)	2804.2	47.2			
FH	(60°-80°)	1684.2	28.4			G1/1800
FVH	(80°-90°)	31.6	0.5			G1/100
BL	(0°-30°)	207.5	3.5	B1/500		
BM	(30°-60°)	378.5	6.4	B1/1000		
BH	(60°-80°)	165.6	2.8	B1/500		G1/500
BVH	(80°-90°)	10.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8
2.5°	1167.1	1163.3	1160.8	1147.0	1147.0	1128.3	1129.5	1112.0	1090.7	1056.9	1020.6
5°	1277.3	1272.3	1266.0	1252.2	1247.2	1228.4	1225.9	1200.9	1164.6	1105.7	1040.6
7.5°	1373.7	1368.7	1359.9	1339.9	1326.1	1303.6	1297.3	1264.8	1224.7	1152.1	1060.6
10°	1461.4	1457.6	1446.3	1421.3	1402.5	1375.0	1363.7	1319.9	1269.8	1189.6	1076.9
12.5°	1550.3	1545.3	1530.2	1508.9	1486.4	1453.8	1440.1	1383.7	1319.9	1230.9	1100.7
15°	1632.9	1625.4	1614.1	1591.6	1571.6	1540.2	1525.2	1458.9	1381.2	1277.3	1132.0
17.5°	1686.8	1680.5	1670.5	1658.0	1641.7	1617.9	1602.9	1537.7	1442.6	1322.4	1164.6
20°	1719.3	1716.8	1713.1	1705.5	1698.0	1681.7	1670.5	1609.1	1508.9	1366.2	1195.9
22.5°	1744.4	1741.9	1740.6	1740.6	1741.9	1735.6	1728.1	1675.5	1572.8	1412.5	1224.7
25°	1783.2	1781.9	1779.4	1776.9	1785.7	1786.9	1784.4	1748.1	1652.9	1473.9	1261.0
27.5°	1837.0	1833.3	1828.3	1825.8	1834.5	1840.8	1845.8	1820.7	1738.1	1536.5	1302.3
30°	1919.7	1908.4	1895.9	1887.1	1893.4	1903.4	1914.7	1899.6	1825.8	1614.1	1344.9
32.5°	2017.3	2003.6	1974.8	1958.5	1974.8	1982.3	1991.1	1983.5	1917.2	1698.0	1387.5
35°	2136.3	2120.0	2090.0	2066.2	2095.0	2078.7	2074.9	2067.4	2003.6	1780.7	1435.1
37.5°	2334.2	2310.4	2262.8	2210.2	2210.2	2175.1	2161.4	2138.8	2081.2	1854.6	1481.4
40°	2563.3	2532.0	2470.7	2393.0	2321.6	2249.0	2240.2	2224.0	2172.6	1939.7	1534.0
42.5°	2815.0	2754.9	2669.8	2575.8	2460.6	2378.0	2358.0	2311.6	2261.5	2026.1	1586.6
45°	3094.3	2969.0	2845.1	2797.5	2607.1	2532.0	2494.4	2410.5	2354.2	2116.3	1641.7
47.5°	3139.3	3041.7	2959.0	2951.5	2743.6	2681.0	2638.5	2518.2	2454.4	2212.7	1699.3
50°	3114.3	3055.4	3064.2	3034.2	2843.8	2802.5	2769.9	2633.4	2553.3	2305.4	1751.9
52.5°	3009.1	3041.7	3091.8	3036.7	2939.0	2905.2	2888.9	2757.4	2646.0	2390.5	1799.5
55°	2883.9	2906.4	3014.1	3081.7	3049.2	3019.1	3004.1	2901.4	2737.4	2461.9	1843.3
57.5°	2701.1	2691.0	2810.0	3074.2	3164.4	3146.9	3130.6	3042.9	2822.5	2513.2	1870.8
60°	2426.8	2405.5	2555.8	2924.0	3202.0	3229.5	3222.0	3136.8	2887.6	2512.0	1859.6
62.5°	1952.2	2004.8	2212.7	2678.5	3218.2	3288.4	3274.6	3144.4	2908.9	2439.3	1788.2
65°	1451.3	1526.5	1730.6	2340.4	3195.7	3318.4	3280.9	3021.6	2810.0	2295.3	1631.7
67.5°	1045.6	1112.0	1261.0	1925.9	2979.1	3180.7	3136.8	2821.3	2582.1	2091.2	1415.0
70°	715.0	762.6	864.0	1402.5	2543.3	2749.9	2722.4	2522.0	2222.7	1848.3	1149.5
72.5°	504.6	524.7	589.8	925.4	1932.2	2157.6	2125.0	2074.9	1785.7	1536.5	894.1
75°	378.2	390.7	425.8	598.6	1303.6	1495.2	1465.1	1493.9	1333.6	1163.3	651.2
77.5°	142.8	155.3	241.7	381.9	771.4	917.9	887.8	905.4	741.3	587.3	324.3
80°	38.8	41.3	80.1	181.6	350.6	457.1	415.7	356.9	275.5	270.5	171.6
82.5°	16.3	18.8	36.3	97.7	125.2	125.2	105.2	130.2	105.2	126.5	82.6
85°	6.3	7.5	8.8	25.0	16.3	17.5	18.8	25.0	21.3	26.3	18.8
87.5°	0.0	0.0	0.0	1.3	1.3	2.5	1.3	2.5	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8	1011.8
2.5°	1005.5	991.8	971.7	939.2	905.4	886.6	862.8	859.0	834.0	831.5	821.5
5°	1011.8	983.0	931.7	869.0	807.7	760.1	725.0	706.3	669.9	669.9	659.9
7.5°	1016.8	971.7	889.1	796.4	712.5	648.7	601.1	581.0	548.5	546.0	538.5
10°	1018.1	958.0	842.8	722.5	619.9	554.7	508.4	485.9	457.1	454.6	449.6
12.5°	1028.1	950.4	801.4	658.7	553.5	483.4	438.3	419.5	397.0	394.5	389.4
15°	1044.4	950.4	766.4	604.8	494.6	429.5	390.7	373.2	356.9	354.4	351.9
17.5°	1060.6	947.9	731.3	554.7	445.8	386.9	353.1	339.4	326.8	325.6	323.1
20°	1075.7	946.7	696.2	512.2	408.2	351.9	325.6	313.1	303.0	303.0	301.8
22.5°	1090.7	944.2	662.4	472.1	375.7	325.6	303.0	289.3	281.8	281.8	280.5
25°	1113.2	944.2	631.1	438.3	349.4	305.5	283.0	273.0	266.7	265.5	265.5
27.5°	1139.5	951.7	603.6	408.2	326.8	285.5	268.0	258.0	250.4	247.9	249.2
30°	1168.3	958.0	578.5	381.9	305.5	270.5	251.7	241.7	234.2	231.7	232.9
32.5°	1197.1	965.5	556.0	358.1	284.3	256.7	237.9	226.7	219.1	217.9	217.9
35°	1228.4	973.0	533.5	338.1	266.7	242.9	225.4	212.9	207.9	205.4	206.6
37.5°	1259.7	985.5	512.2	319.3	254.2	230.4	214.1	201.6	197.9	196.6	196.6
40°	1297.3	1004.3	503.4	306.8	242.9	219.1	205.4	192.8	189.1	189.1	189.1
42.5°	1328.6	1019.3	495.9	293.0	234.2	209.1	196.6	186.6	184.1	182.8	184.1
45°	1359.9	1033.1	485.9	280.5	222.9	199.1	189.1	179.1	176.6	176.6	176.6
47.5°	1391.2	1040.6	472.1	268.0	212.9	190.3	181.6	172.8	170.3	170.3	170.3
50°	1416.3	1046.9	452.1	254.2	201.6	182.8	174.1	165.3	162.8	162.8	162.8
52.5°	1441.3	1048.1	430.8	237.9	190.3	174.1	166.5	157.8	155.3	154.0	154.0
55°	1463.9	1046.9	405.7	219.1	177.8	164.0	157.8	150.3	145.3	140.3	142.8
57.5°	1480.1	1045.6	376.9	200.4	165.3	154.0	151.5	141.5	131.5	119.0	121.5
60°	1473.9	1031.8	345.6	176.6	151.5	144.0	144.0	130.2	112.7	106.4	107.7
62.5°	1433.8	993.0	313.1	151.5	137.7	134.0	132.7	117.7	103.9	97.7	98.9
65°	1313.6	895.3	265.5	129.0	124.0	122.7	122.7	108.9	96.4	88.9	90.2
67.5°	1130.8	751.3	216.6	108.9	110.2	112.7	112.7	100.2	87.7	80.1	81.4
70°	906.6	587.3	172.8	93.9	95.2	98.9	101.4	90.2	78.9	71.4	71.4
72.5°	682.5	445.8	139.0	78.9	85.2	85.2	88.9	80.1	68.9	61.4	62.6
75°	494.6	319.3	110.2	66.4	73.9	72.6	72.6	67.6	58.9	53.8	53.8
77.5°	234.2	167.8	87.7	47.6	57.6	56.4	57.6	53.8	50.1	45.1	46.3
80°	115.2	82.6	56.4	33.8	40.1	41.3	45.1	42.6	41.3	37.6	37.6
82.5°	55.1	32.6	26.3	23.8	27.5	28.8	31.3	31.3	32.6	30.1	30.1
85°	15.0	8.8	11.3	15.0	17.5	18.8	21.3	22.5	22.5	21.3	22.5
87.5°	3.8	3.8	5.0	7.5	8.8	10.0	11.3	11.3	5.0	0.0	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)