

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: P842379

Luminaire Tested: **ARCH4-40-727-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-40-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 355mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

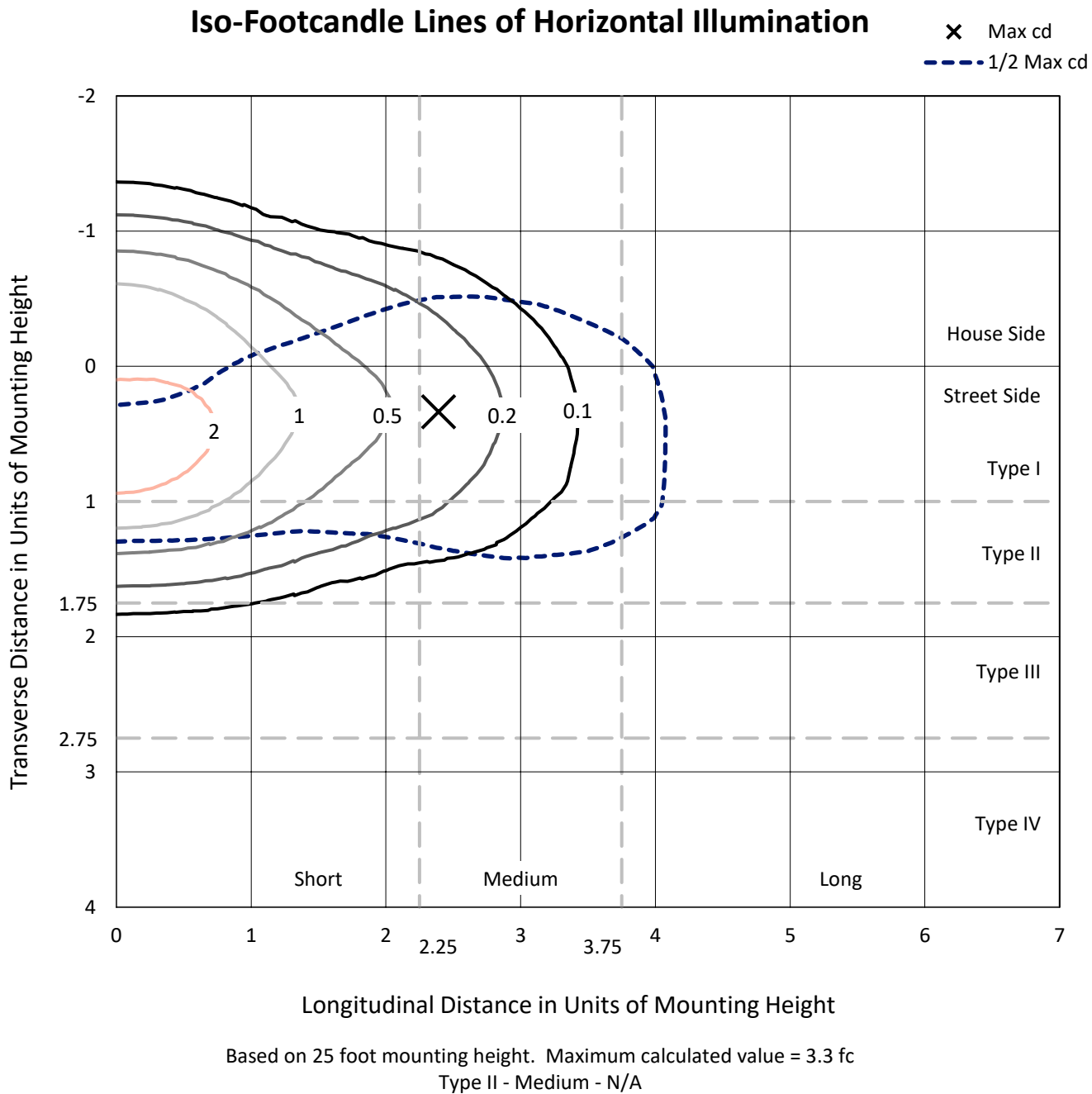
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7393 lumens
Efficiency: N/A
Efficacy: 168.8 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 43.8
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



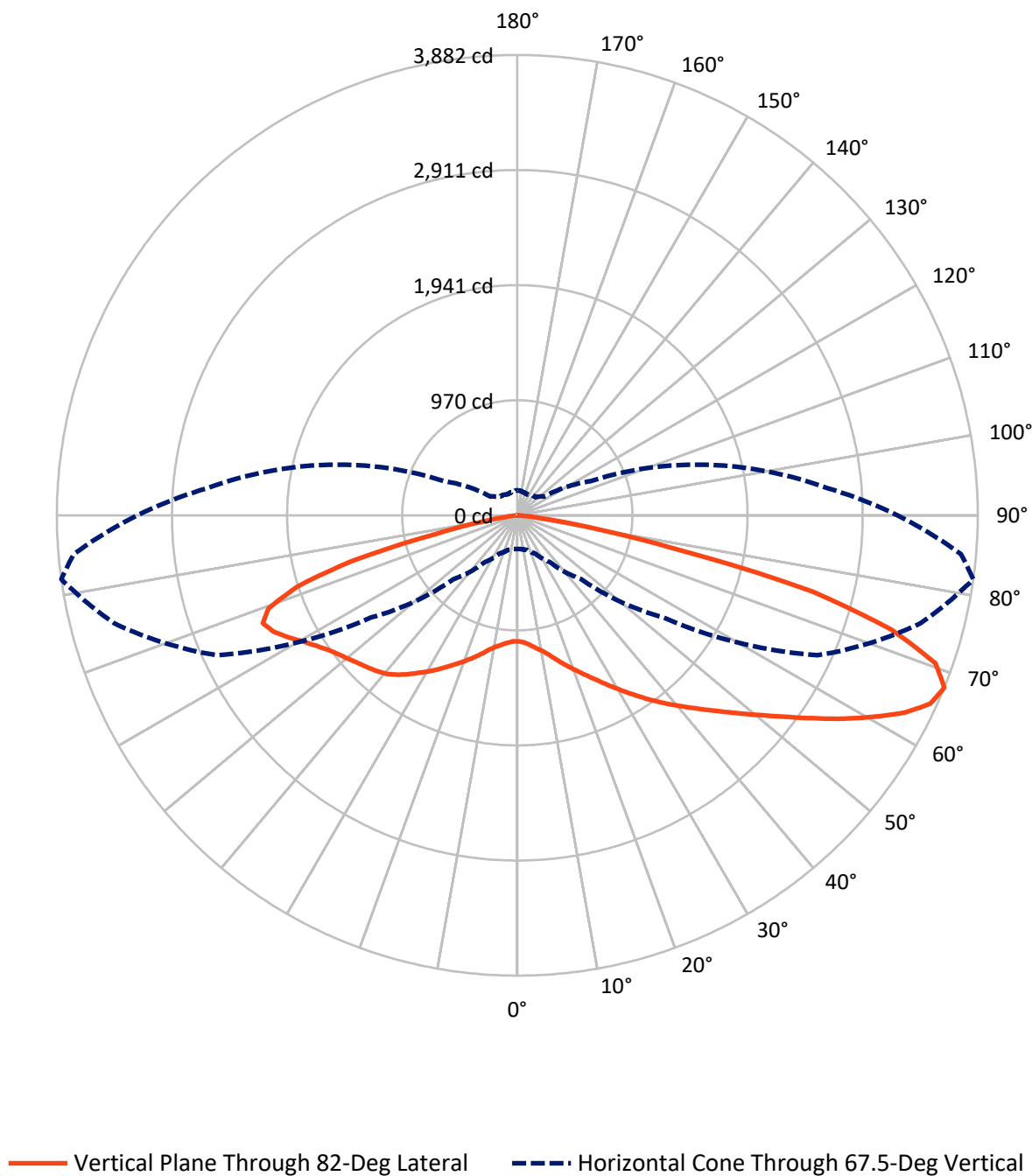
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Luminous Intensity Polar Plot



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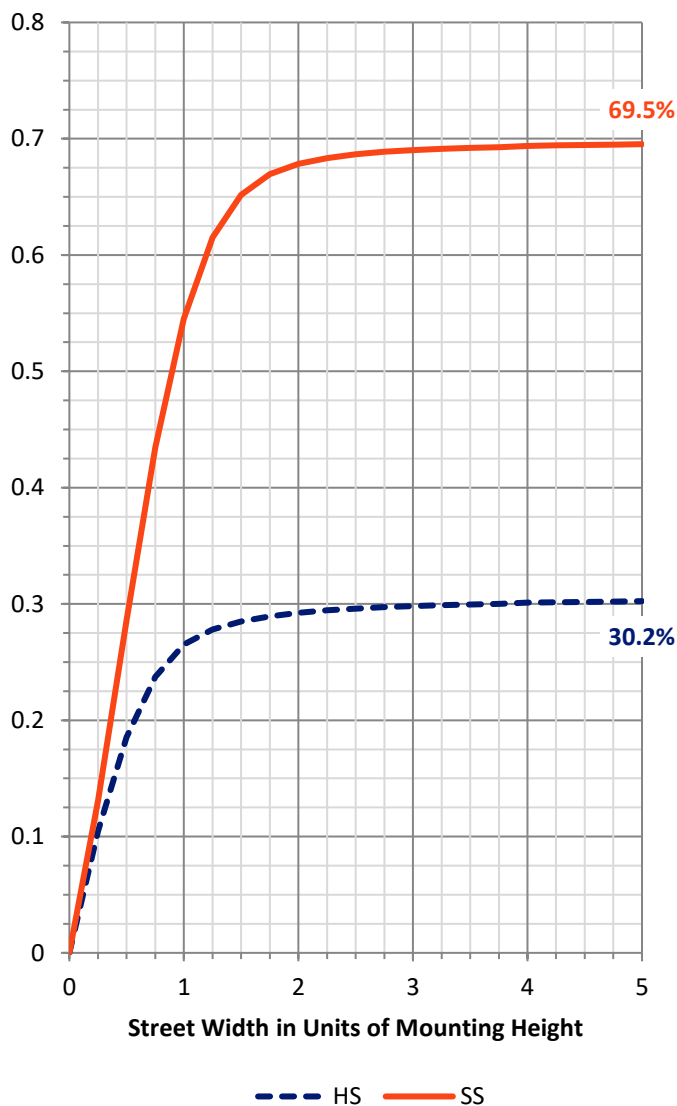
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2251.5	0.0	2251.5
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5141.5	0.0	5141.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	7393.0	0.0	7393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	1.5
10°-20°	395.6	5.4
20°-30°	795.1	10.8
30°-40°	1249.0	16.9
40°-50°	1521.5	20.6
50°-60°	1437.6	19.4
60°-70°	1187.1	16.1
70°-80°	646.4	8.7
80°-90°	50.8	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°	7393.0	100.0
0°-180°	7393.0	100.0

Coefficient of Utilization



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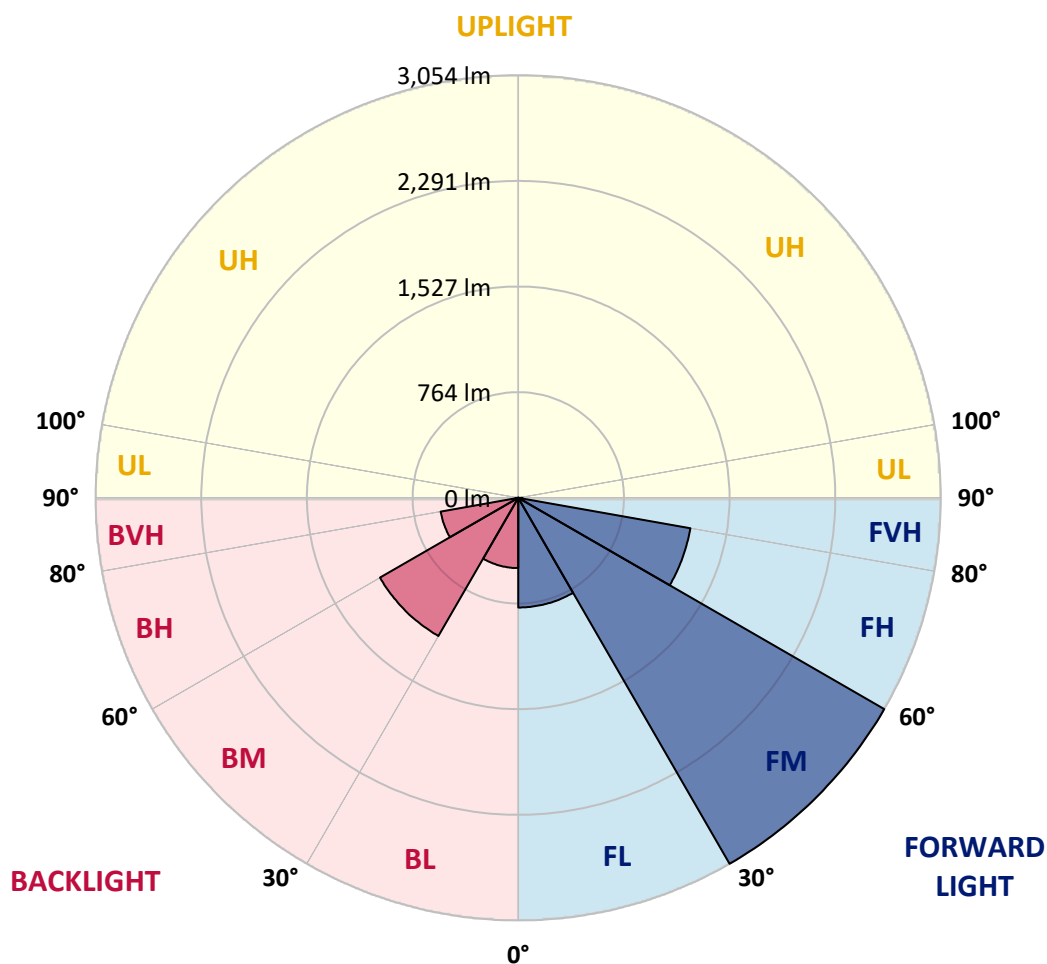
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.8	10.7			
FM	(30°-60°)	3054.4	41.3			
FH	(60°-80°)	1263.7	17.1			G1/1800
FVH	(80°-90°)	30.6	0.4			G1/100
BL	(0°-30°)	507.7	6.9	B2/1000		
BM	(30°-60°)	1153.7	15.6	B2/2500		
BH	(60°-80°)	569.9	7.7	B2/1000		G2/1000
BVH	(80°-90°)	20.2	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1111.0	1111.0	1119.6	1119.6	1112.1	1100.3	1097.1	1084.2	1072.4	1072.4	1073.5
5°	1217.3	1216.2	1222.7	1214.1	1195.9	1172.2	1156.1	1128.2	1104.6	1097.1	1096.0
7.5°	1347.2	1346.1	1349.4	1335.4	1301.1	1262.4	1230.2	1185.1	1146.5	1130.4	1126.1
10°	1492.1	1491.1	1487.8	1464.2	1418.1	1357.9	1309.6	1247.4	1189.4	1163.6	1158.3
12.5°	1658.5	1656.4	1648.9	1614.5	1551.2	1473.9	1404.1	1323.6	1246.3	1210.9	1199.1
15°	1844.2	1841.0	1827.1	1785.2	1700.4	1602.7	1512.5	1409.5	1315.0	1268.8	1252.7
17.5°	2039.6	2039.6	2018.1	1955.9	1861.4	1740.1	1628.5	1497.5	1386.9	1330.0	1310.7
20°	2238.2	2237.1	2210.3	2135.1	2023.5	1883.9	1742.2	1598.4	1461.0	1392.3	1368.7
22.5°	2447.5	2445.4	2412.1	2326.2	2193.1	2035.3	1870.0	1698.2	1542.6	1459.9	1429.9
25°	2688.0	2684.8	2644.0	2538.8	2381.0	2202.8	2013.8	1815.2	1636.0	1535.1	1499.6
27.5°	2943.5	2939.2	2890.9	2768.5	2595.7	2381.0	2172.7	1950.5	1739.0	1618.8	1579.1
30°	3171.0	3167.8	3115.2	2989.6	2791.0	2558.1	2324.1	2085.8	1847.4	1707.9	1658.5
32.5°	3342.8	3342.8	3295.6	3172.1	2966.0	2727.7	2476.5	2213.5	1960.2	1803.4	1745.5
35°	3446.9	3450.1	3409.4	3310.6	3116.3	2887.6	2634.3	2363.8	2080.4	1905.4	1843.2
37.5°	3462.0	3472.7	3449.1	3382.5	3220.4	3020.8	2788.9	2508.7	2204.9	2008.5	1938.7
40°	3392.2	3399.7	3400.8	3375.0	3263.4	3116.3	2925.2	2662.2	2337.0	2116.9	2036.4
42.5°	3252.6	3258.0	3267.7	3275.2	3232.2	3158.2	3029.3	2805.0	2477.6	2227.5	2133.0
45°	3072.3	3071.2	3087.3	3119.5	3117.4	3134.5	3087.3	2934.9	2623.6	2353.1	2240.3
47.5°	2802.8	2797.5	2854.4	2927.4	2963.9	3044.4	3088.4	3036.9	2782.4	2491.5	2362.7
50°	2381.0	2375.6	2500.1	2671.9	2779.2	2901.6	3029.3	3098.0	2948.8	2647.2	2495.8
52.5°	1867.8	1862.5	2020.3	2320.9	2554.9	2733.1	2910.2	3112.0	3106.6	2821.1	2646.1
55°	1389.1	1384.8	1538.3	1863.6	2242.5	2537.7	2764.2	3075.5	3254.8	3020.8	2828.6
57.5°	979.0	976.9	1110.0	1379.4	1841.0	2299.4	2623.6	3004.7	3391.1	3237.6	3034.7
60°	687.0	683.8	780.4	988.7	1392.3	1939.8	2484.0	2910.2	3493.1	3451.2	3253.7
62.5°	462.7	460.5	529.2	703.1	988.7	1493.2	2272.5	2846.9	3551.1	3665.9	3474.8
65°	351.0	350.0	381.1	476.6	699.9	1072.4	1936.5	2839.3	3558.6	3826.9	3662.7
67.5°	283.4	284.5	301.6	356.4	484.1	762.2	1501.8	2792.1	3518.8	3881.7	3753.9
70°	231.9	231.9	239.4	275.9	357.5	514.2	1048.8	2577.4	3408.3	3738.9	3645.5
72.5°	177.1	178.2	201.8	223.3	269.4	360.7	672.0	2133.0	3147.4	3296.6	3225.8
75°	140.6	139.6	153.5	183.6	209.3	257.6	412.2	1529.7	2678.3	2576.3	2531.3
77.5°	100.9	99.8	110.6	136.3	158.9	182.5	245.8	771.8	1456.7	1338.6	1305.3
80°	68.7	66.6	76.2	94.5	105.2	107.3	120.2	296.3	635.5	599.0	591.5
82.5°	35.4	35.4	40.8	53.7	54.7	55.8	53.7	95.5	210.4	196.4	187.9
85°	14.0	14.0	15.0	18.2	18.2	19.3	19.3	24.7	22.5	21.5	20.4
87.5°	1.1	1.1	2.1	2.1	3.2	3.2	3.2	4.3	5.4	5.4	5.4
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°	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7	1062.7
2.5°	1071.3	1067.0	1053.1	1049.9	1047.7	1044.5	1045.6	1038.1	1034.8	1035.9	1031.6
5°	1090.7	1083.1	1066.0	1058.4	1056.3	1053.1	1056.3	1050.9	1045.6	1047.7	1045.6
7.5°	1117.5	1106.8	1085.3	1077.8	1076.7	1073.5	1077.8	1073.5	1069.2	1071.3	1067.0
10°	1145.4	1131.4	1107.8	1100.3	1100.3	1099.2	1103.5	1097.1	1092.8	1093.9	1091.7
12.5°	1186.2	1167.9	1142.2	1135.7	1132.5	1135.7	1136.8	1128.2	1120.7	1121.8	1118.6
15°	1235.6	1215.2	1187.3	1177.6	1175.5	1174.4	1170.1	1159.4	1149.7	1148.6	1145.4
17.5°	1289.2	1263.5	1230.2	1220.5	1210.9	1207.7	1196.9	1183.0	1167.9	1167.9	1163.6
20°	1340.8	1311.8	1272.1	1258.1	1244.2	1231.3	1213.0	1190.5	1171.2	1167.9	1163.6
22.5°	1396.6	1362.2	1316.1	1295.7	1271.0	1245.2	1214.1	1184.0	1159.4	1154.0	1150.8
25°	1458.9	1415.9	1361.2	1331.1	1291.4	1251.7	1205.5	1166.9	1137.9	1129.3	1127.1
27.5°	1527.6	1476.0	1409.5	1365.5	1307.5	1245.2	1186.2	1140.0	1104.6	1093.9	1090.7
30°	1597.3	1536.1	1453.5	1389.1	1307.5	1224.8	1150.8	1097.1	1056.3	1041.3	1039.1
32.5°	1667.1	1598.4	1493.2	1402.0	1294.6	1190.5	1104.6	1041.3	995.1	976.9	981.2
35°	1750.8	1667.1	1529.7	1407.3	1273.1	1148.6	1052.0	977.9	930.7	914.6	917.8
37.5°	1837.8	1735.8	1558.7	1403.0	1243.1	1101.4	993.0	921.0	862.0	834.1	837.3
40°	1912.9	1798.1	1579.1	1388.0	1204.4	1047.7	935.0	840.5	758.9	732.1	728.9
42.5°	1983.8	1844.2	1589.8	1365.5	1160.4	985.4	852.3	731.0	649.5	616.2	617.2
45°	2057.9	1889.3	1585.5	1335.4	1105.7	912.5	746.1	623.7	551.8	521.7	522.8
47.5°	2142.7	1937.6	1581.2	1303.2	1039.1	818.0	644.1	529.2	467.0	445.5	443.3
50°	2232.8	1991.3	1575.9	1263.5	965.1	712.8	543.2	441.2	388.6	374.6	371.4
52.5°	2334.8	2049.3	1572.6	1216.2	876.0	601.1	453.0	363.9	328.5	318.8	317.7
55°	2457.2	2116.9	1576.9	1159.4	768.6	495.9	376.8	313.5	289.8	284.5	283.4
57.5°	2606.4	2203.8	1589.8	1092.8	655.9	404.7	321.0	282.3	267.3	263.0	263.0
60°	2768.5	2302.6	1613.4	1017.7	543.2	333.9	284.5	257.6	251.2	256.6	256.6
62.5°	2943.5	2418.5	1655.3	926.4	438.0	282.3	255.5	237.2	232.9	243.7	244.8
65°	3105.6	2531.3	1682.1	816.9	347.8	244.8	232.9	216.8	219.0	229.7	228.7
67.5°	3205.4	2624.6	1644.6	679.5	275.9	216.8	209.3	195.4	200.7	209.3	210.4
70°	3144.2	2572.0	1458.9	513.1	215.8	188.9	183.6	175.0	179.3	190.0	194.3
72.5°	2844.7	2303.7	1134.7	346.7	173.9	158.9	161.0	156.7	162.1	171.8	181.4
75°	2309.0	1741.2	761.1	222.2	137.4	135.3	138.5	135.3	137.4	147.1	152.4
77.5°	1205.5	849.1	378.9	138.5	102.0	105.2	110.6	111.6	118.1	120.2	122.4
80°	562.5	382.2	157.8	77.3	67.6	74.1	84.8	85.9	88.0	91.2	92.3
82.5°	183.6	114.9	73.0	41.9	38.6	41.9	54.7	65.5	66.6	73.0	73.0
85°	19.3	11.8	16.1	17.2	15.0	18.2	24.7	23.6	10.7	6.4	6.4
87.5°	5.4	4.3	5.4	5.4	4.3	4.3	3.2	1.1	0.0	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)