

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: P836541

Luminaire Tested: **ARCH3-40-730-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-40-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

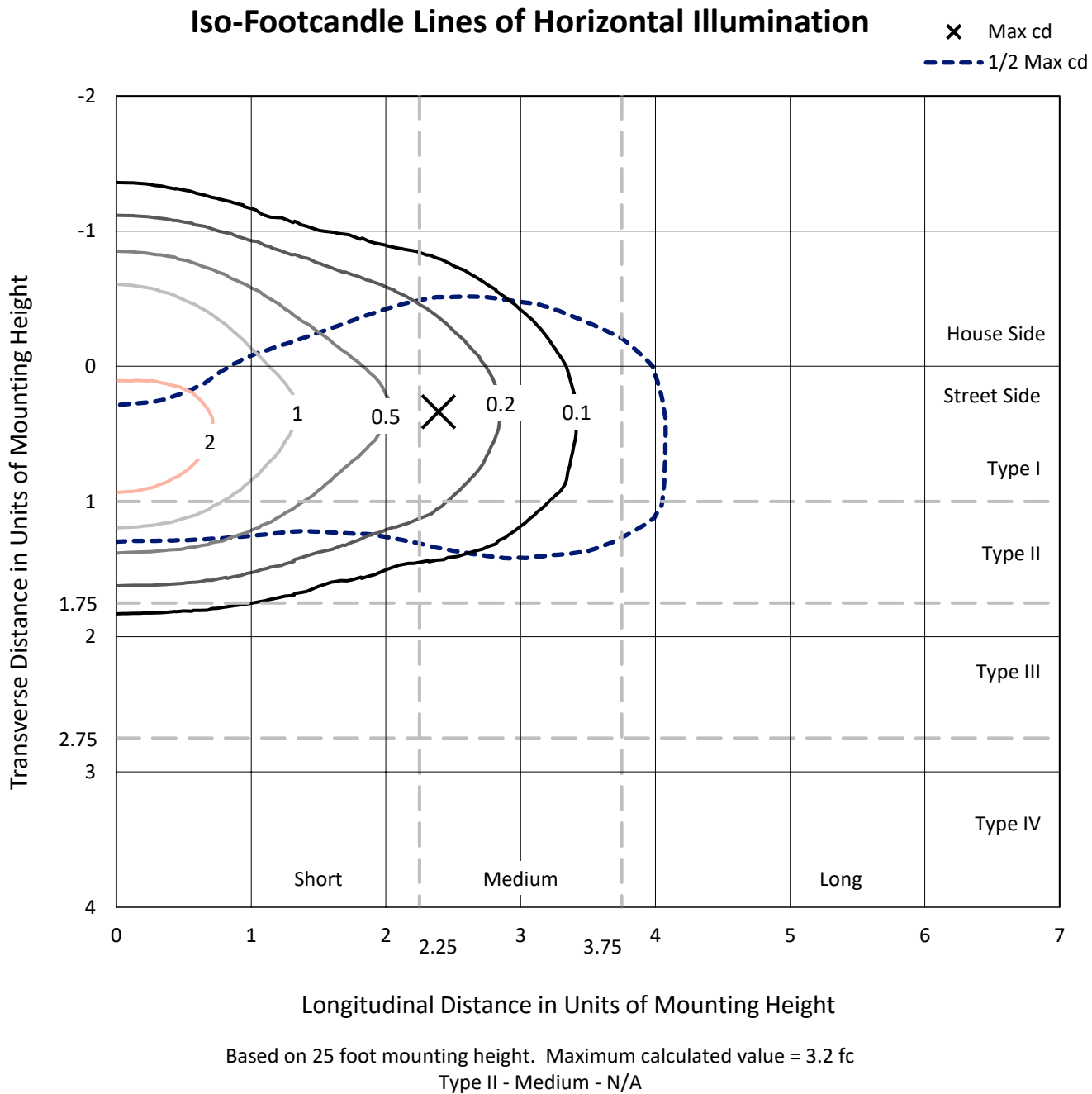
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7308 lumens
Efficiency: N/A
Efficacy: 167.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 43.6
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

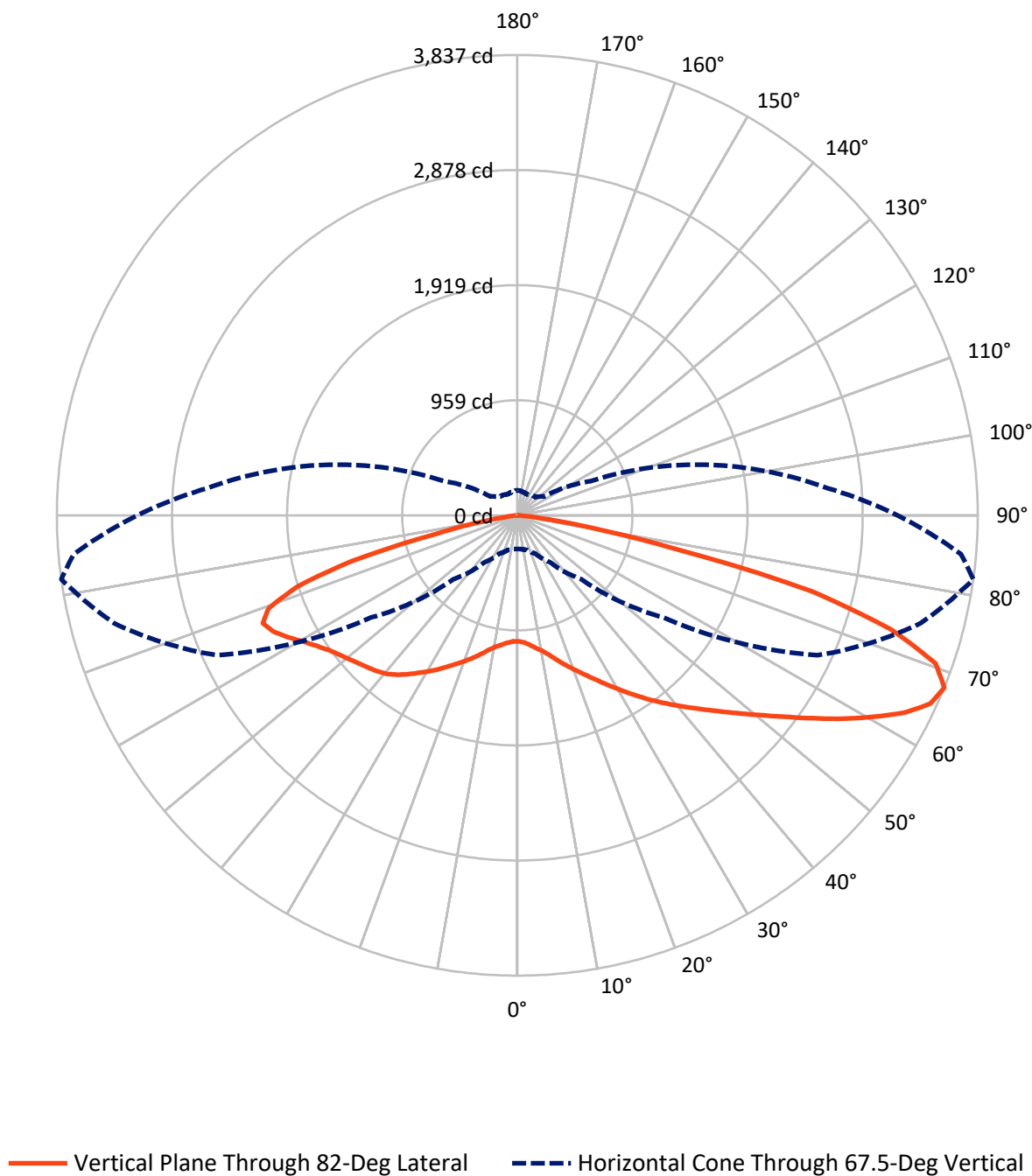


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Luminous Intensity Polar Plot



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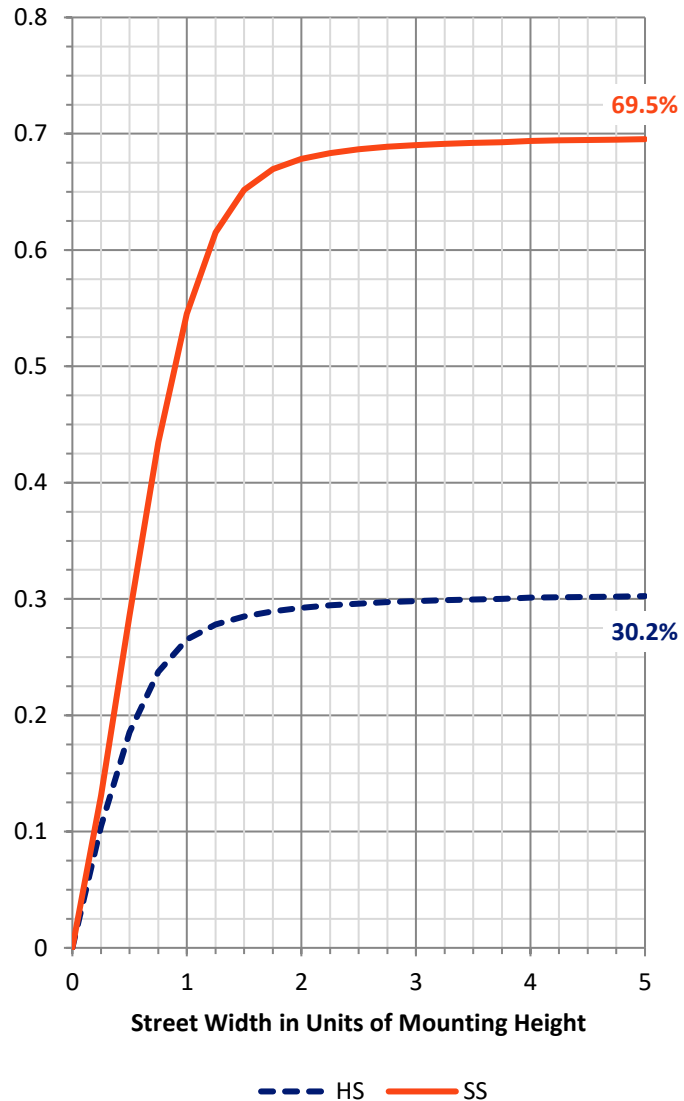
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2225.6	0.0	2225.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5082.4	0.0	5082.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	7308.0	0.0	7308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	1.5
10°-20°	391.1	5.4
20°-30°	785.9	10.8
30°-40°	1234.6	16.9
40°-50°	1504.0	20.6
50°-60°	1421.1	19.4
60°-70°	1173.5	16.1
70°-80°	639.0	8.7
80°-90°	50.2	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°	7308.0	100.0
0°-180°	7308.0	100.0

Coefficient of Utilization



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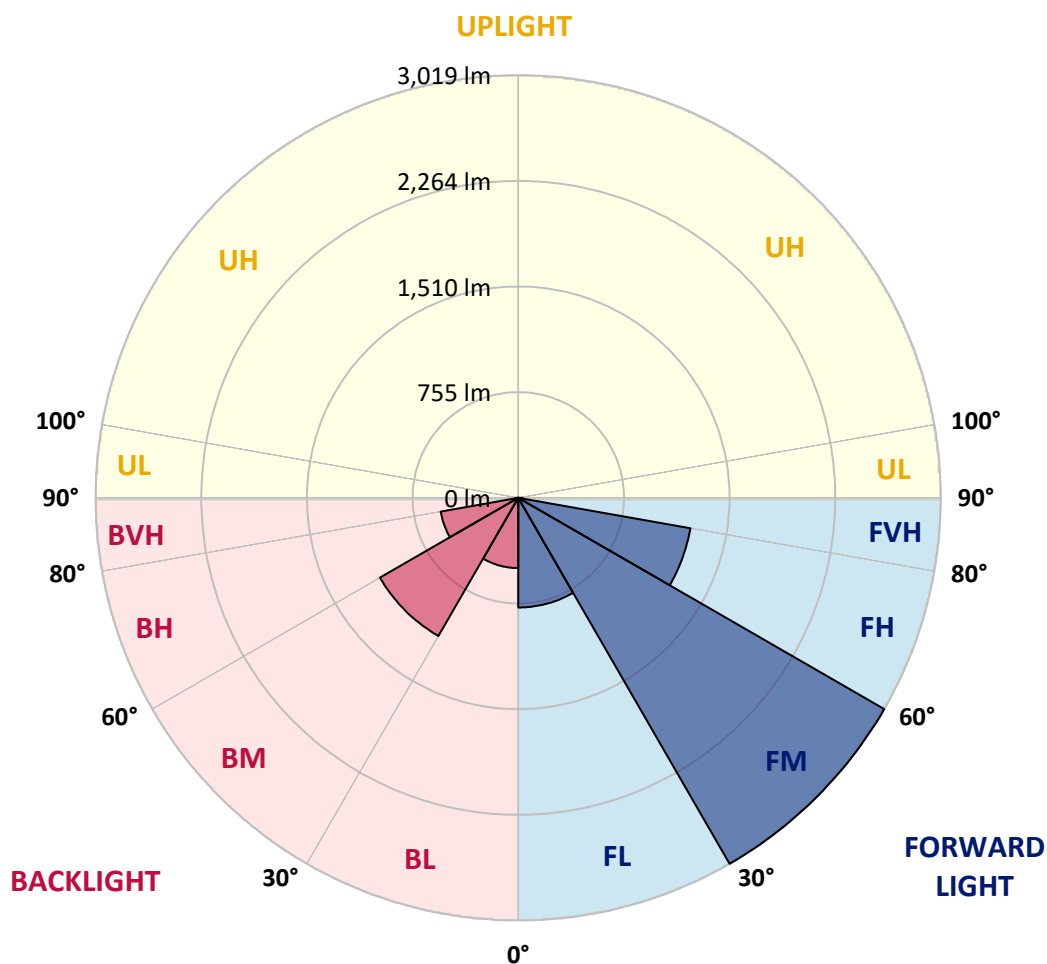
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	783.7	10.7			
FM	(30°-60°)	3019.2	41.3			
FH	(60°-80°)	1249.2	17.1			G1/1800
FVH	(80°-90°)	30.3	0.4			G1/100
BL	(0°-30°)	501.9	6.9	B2/1000		
BM	(30°-60°)	1140.4	15.6	B2/2500		
BH	(60°-80°)	563.3	7.7	B2/1000		G2/1000
BVH	(80°-90°)	20.0	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°	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1098.3	1098.3	1106.8	1106.8	1099.3	1087.7	1084.5	1071.7	1060.1	1060.1	1061.1
5°	1203.3	1202.3	1208.6	1200.1	1182.1	1158.8	1142.8	1115.3	1091.9	1084.5	1083.4
7.5°	1331.7	1330.7	1333.8	1320.0	1286.1	1247.9	1216.1	1171.5	1133.3	1117.4	1113.1
10°	1475.0	1473.9	1470.7	1447.4	1401.8	1342.3	1294.6	1233.0	1175.7	1150.3	1145.0
12.5°	1639.4	1637.3	1629.9	1595.9	1533.3	1456.9	1388.0	1308.4	1232.0	1197.0	1185.3
15°	1823.0	1819.8	1806.0	1764.7	1680.8	1584.3	1495.1	1393.3	1299.9	1254.3	1238.3
17.5°	2016.2	2016.2	1994.9	1933.4	1840.0	1720.1	1609.7	1480.3	1371.0	1314.7	1295.6
20°	2212.5	2211.4	2184.9	2110.6	2000.2	1862.3	1722.2	1580.0	1444.2	1376.3	1352.9
22.5°	2419.4	2417.3	2384.4	2299.5	2167.9	2011.9	1848.5	1678.7	1524.8	1443.1	1413.4
25°	2657.1	2653.9	2613.6	2509.6	2353.6	2177.4	1990.7	1794.4	1617.2	1517.4	1482.4
27.5°	2909.6	2905.4	2857.6	2736.7	2565.8	2353.6	2147.7	1928.1	1719.0	1600.2	1560.9
30°	3134.6	3131.4	3079.4	2955.3	2758.9	2528.7	2297.4	2061.8	1826.2	1688.3	1639.4
32.5°	3304.4	3304.4	3257.7	3135.6	2931.9	2696.3	2448.0	2188.1	1937.6	1782.7	1725.4
35°	3407.3	3410.5	3370.2	3272.5	3080.5	2854.4	2604.0	2336.6	2056.5	1883.5	1822.0
37.5°	3422.2	3432.8	3409.4	3343.6	3183.4	2986.0	2756.8	2479.9	2179.6	1985.4	1916.4
40°	3353.2	3360.6	3361.7	3336.2	3225.8	3080.5	2891.6	2631.6	2310.1	2092.6	2013.0
42.5°	3215.2	3220.5	3230.1	3237.5	3195.1	3121.9	2994.5	2772.7	2449.1	2201.9	2108.5
45°	3037.0	3035.9	3051.8	3083.7	3081.5	3098.5	3051.8	2901.1	2593.4	2326.0	2214.6
47.5°	2770.6	2765.3	2821.6	2893.7	2929.8	3009.4	3052.9	3001.9	2750.5	2462.9	2335.6
50°	2353.6	2348.3	2471.4	2641.2	2747.3	2868.2	2994.5	3062.4	2914.9	2616.8	2467.1
52.5°	1846.4	1841.1	1997.1	2294.2	2525.5	2701.6	2876.7	3076.2	3070.9	2788.7	2615.7
55°	1373.1	1368.9	1520.6	1842.1	2216.7	2508.5	2732.4	3040.1	3217.4	2986.0	2796.1
57.5°	967.8	965.6	1097.2	1363.6	1819.8	2272.9	2593.4	2970.1	3352.1	3200.4	2999.8
60°	679.1	675.9	771.4	977.3	1376.3	1917.5	2455.5	2876.7	3452.9	3411.5	3216.3
62.5°	457.3	455.2	523.1	695.0	977.3	1476.0	2246.4	2814.1	3510.2	3623.8	3434.9
65°	347.0	345.9	376.7	471.1	691.9	1060.1	1914.3	2806.7	3517.7	3782.9	3620.6
67.5°	280.1	281.2	298.2	352.3	478.6	753.4	1484.5	2760.0	3478.4	3837.1	3710.8
70°	229.2	229.2	236.6	272.7	353.4	508.3	1036.7	2547.8	3369.1	3695.9	3603.6
72.5°	175.1	176.1	199.5	220.7	266.3	356.5	664.3	2108.5	3111.2	3258.7	3188.7
75°	139.0	137.9	151.7	181.5	206.9	254.7	407.5	1512.1	2647.5	2546.7	2502.2
77.5°	99.7	98.7	109.3	134.8	157.0	180.4	243.0	763.0	1440.0	1323.2	1290.3
80°	67.9	65.8	75.3	93.4	104.0	106.1	118.8	292.9	628.2	592.1	584.7
82.5°	35.0	35.0	40.3	53.1	54.1	55.2	53.1	94.4	208.0	194.2	185.7
85°	13.8	13.8	14.9	18.0	18.0	19.1	19.1	24.4	22.3	21.2	20.2
87.5°	1.1	1.1	2.1	2.1	3.2	3.2	3.2	4.2	5.3	5.3	5.3
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°	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5	1050.5
2.5°	1059.0	1054.8	1041.0	1037.8	1035.7	1032.5	1033.5	1026.1	1022.9	1024.0	1019.7
5°	1078.1	1070.7	1053.7	1046.3	1044.2	1041.0	1044.2	1038.8	1033.5	1035.7	1033.5
7.5°	1104.6	1094.0	1072.8	1065.4	1064.3	1061.1	1065.4	1061.1	1056.9	1059.0	1054.8
10°	1132.2	1118.4	1095.1	1087.7	1087.7	1086.6	1090.8	1084.5	1080.2	1081.3	1079.2
12.5°	1172.6	1154.5	1129.0	1122.7	1119.5	1122.7	1123.7	1115.3	1107.8	1108.9	1105.7
15°	1221.4	1201.2	1173.6	1164.1	1161.9	1160.9	1156.6	1146.0	1136.5	1135.4	1132.2
17.5°	1274.4	1249.0	1216.1	1206.5	1197.0	1193.8	1183.2	1169.4	1154.5	1154.5	1150.3
20°	1325.4	1296.7	1257.4	1243.6	1229.9	1217.1	1199.1	1176.8	1157.7	1154.5	1150.3
22.5°	1380.5	1346.6	1300.9	1280.8	1256.4	1230.9	1200.1	1170.4	1146.0	1140.7	1137.5
25°	1442.1	1399.6	1345.5	1315.8	1276.5	1237.3	1191.7	1153.5	1124.8	1116.3	1114.2
27.5°	1510.0	1459.1	1393.3	1349.8	1292.5	1230.9	1172.6	1126.9	1091.9	1081.3	1078.1
30°	1579.0	1518.5	1436.8	1373.1	1292.5	1210.8	1137.5	1084.5	1044.2	1029.3	1027.2
32.5°	1647.9	1580.0	1476.0	1385.8	1279.7	1176.8	1091.9	1029.3	983.7	965.6	969.9
35°	1730.7	1647.9	1512.1	1391.1	1258.5	1135.4	1039.9	966.7	920.0	904.1	907.3
37.5°	1816.7	1715.9	1540.8	1386.9	1228.8	1088.7	981.5	910.5	852.1	824.5	827.7
40°	1890.9	1777.4	1560.9	1372.0	1190.6	1035.7	924.2	830.9	750.2	723.7	720.5
42.5°	1961.0	1823.0	1571.5	1349.8	1147.1	974.1	842.5	722.6	642.0	609.1	610.2
45°	2034.2	1867.6	1567.3	1320.0	1093.0	902.0	737.5	616.5	545.4	515.7	516.8
47.5°	2118.0	1915.3	1563.0	1288.2	1027.2	808.6	636.7	523.1	461.6	440.4	438.2
50°	2207.2	1968.4	1557.7	1249.0	954.0	704.6	536.9	436.1	384.1	370.3	367.2
52.5°	2308.0	2025.7	1554.6	1202.3	865.9	594.2	447.8	359.7	324.7	315.2	314.1
55°	2428.9	2092.6	1558.8	1146.0	759.8	490.2	372.5	309.9	286.5	281.2	280.1
57.5°	2576.4	2178.5	1571.5	1080.2	648.4	400.0	317.3	279.1	264.2	260.0	260.0
60°	2736.7	2276.1	1594.9	1006.0	536.9	330.0	281.2	254.7	248.3	253.6	253.6
62.5°	2909.6	2390.7	1636.3	915.8	432.9	279.1	252.5	234.5	230.3	240.9	241.9
65°	3069.9	2502.2	1662.8	807.5	343.8	241.9	230.3	214.3	216.5	227.1	226.0
67.5°	3168.5	2594.5	1625.7	671.7	272.7	214.3	206.9	193.1	198.4	206.9	208.0
70°	3108.1	2542.5	1442.1	507.2	213.3	186.8	181.5	173.0	177.2	187.8	192.1
72.5°	2812.0	2277.2	1121.6	342.7	171.9	157.0	159.2	154.9	160.2	169.8	179.3
75°	2282.5	1721.2	752.3	219.7	135.8	133.7	136.9	133.7	135.8	145.4	150.7
77.5°	1191.7	839.4	374.6	136.9	100.8	104.0	109.3	110.4	116.7	118.8	121.0
80°	556.0	377.8	156.0	76.4	66.9	73.2	83.8	84.9	87.0	90.2	91.3
82.5°	181.5	113.5	72.2	41.4	38.2	41.4	54.1	64.7	65.8	72.2	72.2
85°	19.1	11.7	15.9	17.0	14.9	18.0	24.4	23.3	10.6	6.4	6.4
87.5°	5.3	4.2	5.3	5.3	4.2	4.2	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)