

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: P318636

Luminaire Tested: **GAN-SA2B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9837 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 85
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

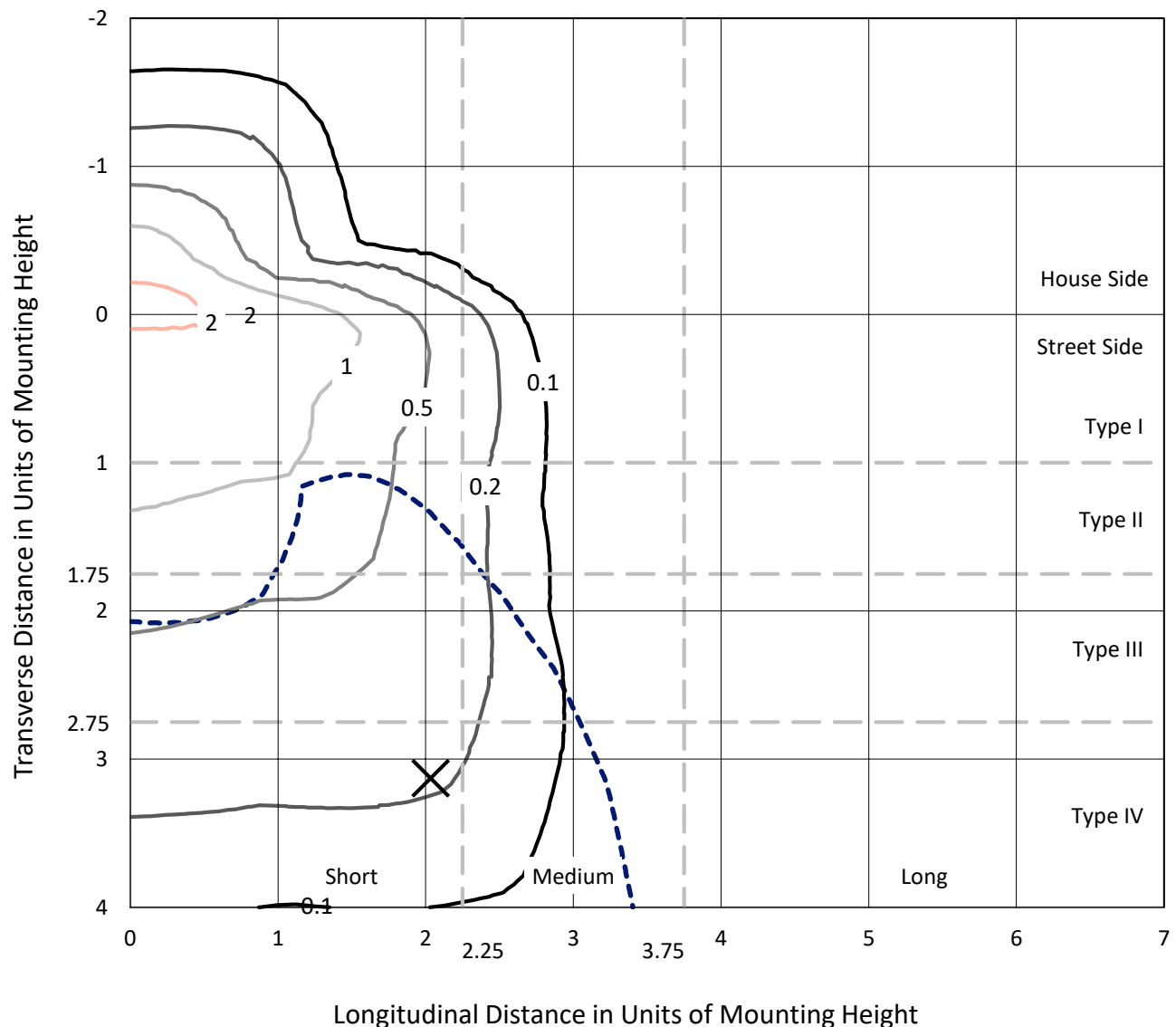


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Iso-Footcandle Lines of Horizontal Illumination

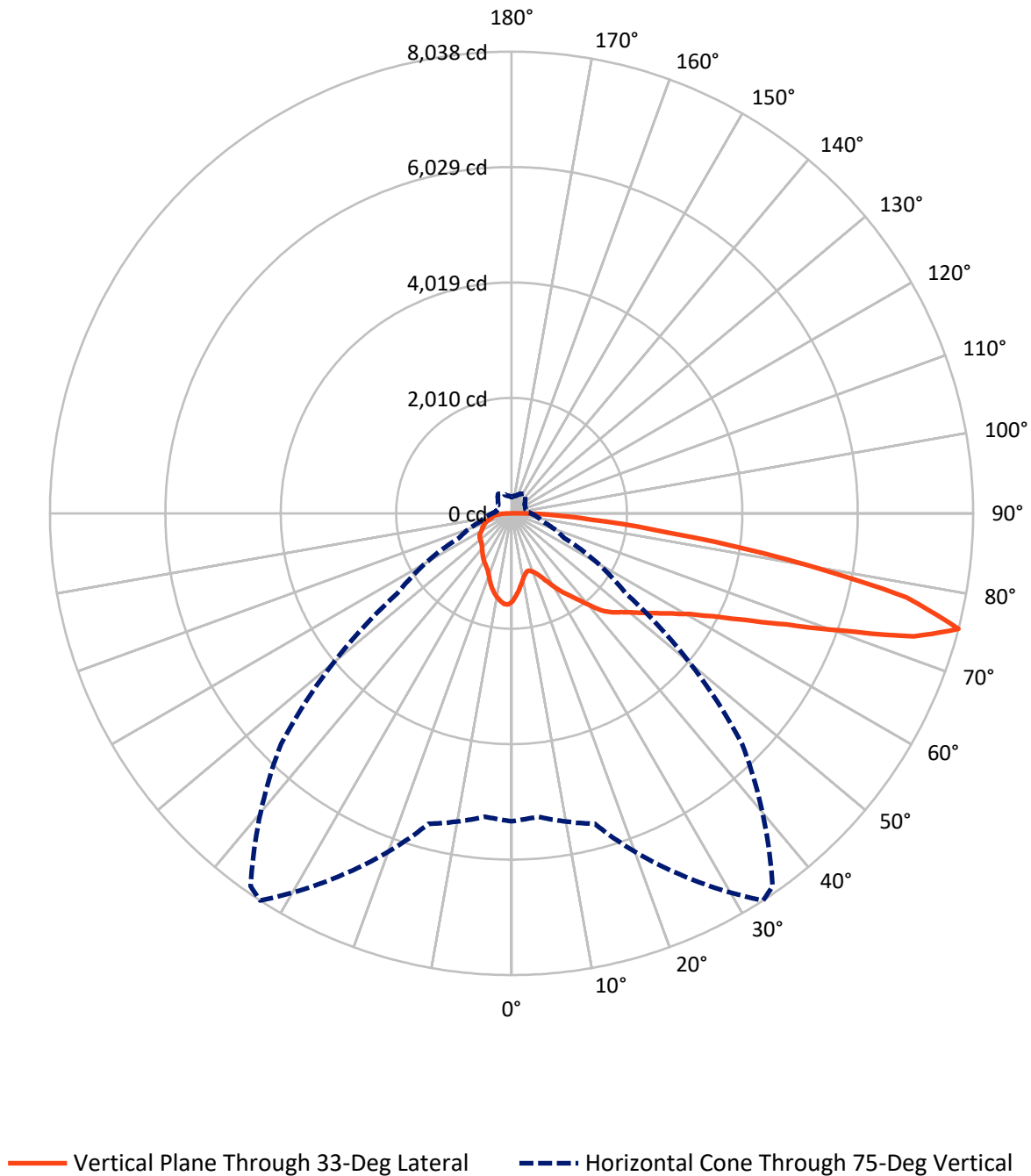
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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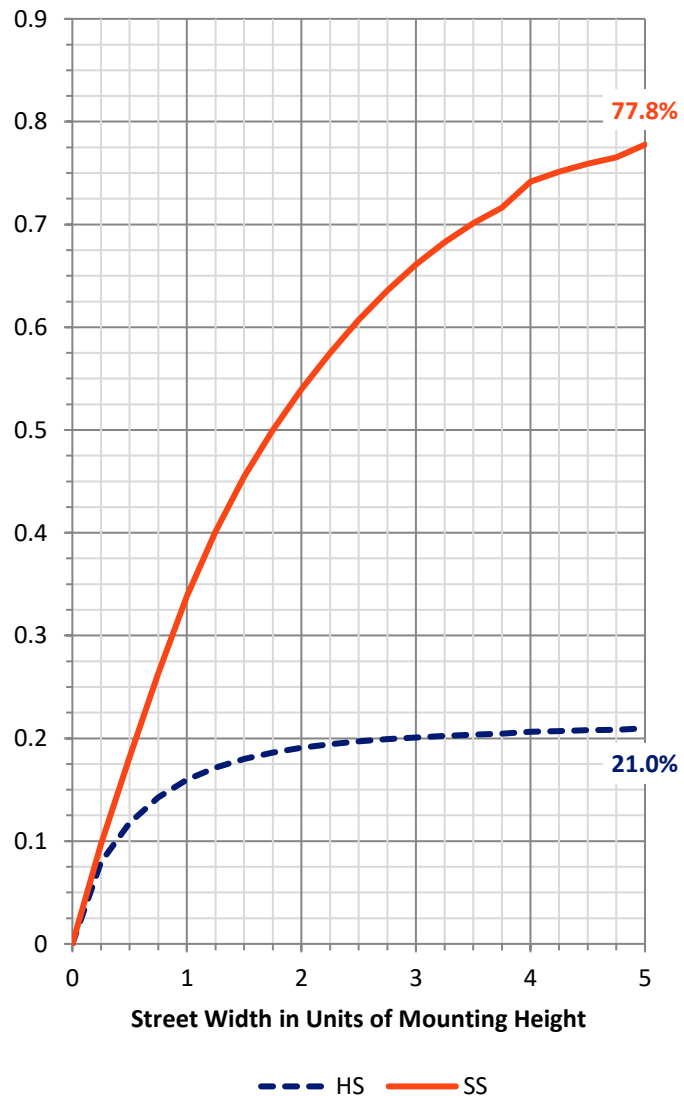
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2112.3	0.0	2112.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7724.7	0.0	7724.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	9837.0	0.0	9837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.4
10°-20°	376.6	3.8
20°-30°	615.1	6.3
30°-40°	916.0	9.3
40°-50°	1313.8	13.4
50°-60°	1803.6	18.3
60°-70°	2258.0	23.0
70°-80°	2042.7	20.8
80°-90°	372.1	3.8
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°	9837.0	100.0
0°-180°	9837.0	100.0

Coefficient of Utilization



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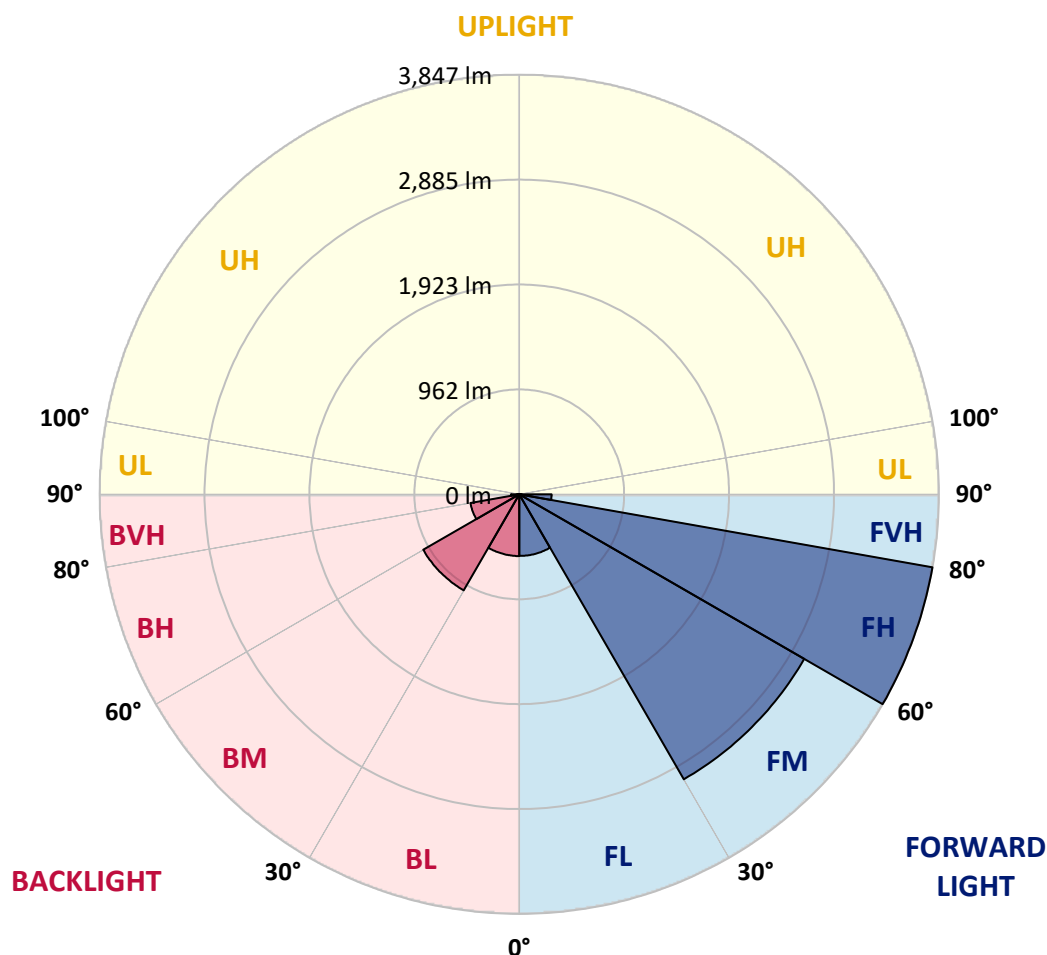
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	565.0	5.7			
FM	(30°-60°)	3016.8	30.7			
FH	(60°-80°)	3846.6	39.1			G2/5000
FVH	(80°-90°)	296.3	3.0			G3/500
BL	(0°-30°)	565.8	5.8	B2/1000		
BM	(30°-60°)	1016.6	10.3	B2/2500		
BH	(60°-80°)	454.2	4.6	B1/500		G1/500
BVH	(80°-90°)	75.8	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6
2.5°	1427.8	1422.4	1432.6	1433.9	1442.8	1446.2	1458.4	1477.4	1493.1	1511.1	1527.4
5°	1298.4	1294.6	1308.9	1319.1	1338.5	1346.6	1375.5	1415.9	1451.9	1492.7	1529.8
7.5°	1175.4	1173.3	1189.3	1212.4	1234.8	1246.0	1296.0	1354.8	1414.9	1480.8	1537.6
10°	1071.7	1071.0	1086.3	1109.1	1142.1	1154.6	1219.2	1296.7	1380.9	1471.7	1550.8
12.5°	1013.6	1016.0	1023.1	1042.2	1072.7	1085.3	1157.0	1248.1	1352.4	1468.6	1570.2
15°	1027.9	1031.6	1019.4	1018.7	1040.5	1050.3	1117.6	1213.4	1332.0	1473.7	1598.4
17.5°	1088.7	1089.4	1057.1	1036.7	1050.0	1055.1	1105.4	1193.7	1320.1	1485.2	1633.7
20°	1174.3	1172.6	1115.6	1081.6	1088.7	1090.1	1122.7	1194.0	1319.1	1505.3	1679.6
22.5°	1287.8	1275.3	1198.5	1152.2	1150.6	1148.5	1167.2	1219.2	1334.0	1537.9	1734.3
25°	1436.0	1424.1	1318.4	1255.2	1241.6	1236.5	1239.2	1272.9	1363.6	1572.9	1795.5
27.5°	1600.8	1580.1	1478.1	1388.7	1360.5	1353.4	1337.1	1348.7	1395.9	1606.6	1868.2
30°	1738.7	1727.5	1638.5	1532.5	1499.2	1489.0	1446.2	1433.6	1442.4	1652.4	1959.9
32.5°	1815.9	1808.4	1754.4	1668.7	1637.8	1623.5	1563.1	1537.9	1517.2	1724.8	2084.3
35°	1909.3	1904.6	1871.9	1809.8	1763.9	1748.9	1702.0	1675.9	1622.5	1824.4	2245.0
37.5°	2028.2	2023.1	2023.8	1973.5	1918.8	1904.9	1874.0	1846.5	1759.1	1955.2	2419.7
40°	2162.8	2152.9	2149.2	2146.8	2112.2	2104.4	2088.0	2050.7	1930.4	2111.5	2592.0
42.5°	2365.3	2330.3	2255.6	2283.8	2318.1	2314.0	2327.3	2273.6	2120.7	2296.3	2760.2
45°	2560.7	2503.3	2374.2	2380.3	2455.4	2478.1	2577.4	2539.3	2326.9	2498.9	2934.1
47.5°	2649.7	2606.2	2496.5	2496.8	2571.2	2618.5	2835.9	2808.8	2543.7	2728.9	3146.5
50°	2749.3	2705.8	2607.3	2644.3	2709.2	2759.5	3085.7	3071.8	2750.0	2980.7	3401.0
52.5°	2858.0	2784.3	2721.8	2788.0	2879.1	2937.5	3335.8	3297.7	2939.2	3234.2	3693.6
55°	2859.4	2839.3	2886.9	2935.5	3071.8	3143.5	3597.8	3497.2	3093.5	3483.3	3931.8
57.5°	3022.1	2989.5	3090.4	3112.9	3290.9	3371.8	3858.4	3670.8	3250.5	3674.2	4060.2
60°	3237.6	3209.7	3292.3	3351.4	3562.1	3670.1	4136.7	3849.2	3373.8	3818.3	4054.1
62.5°	3609.7	3578.1	3577.0	3659.9	3943.7	4069.4	4449.0	4024.2	3422.8	3846.8	3881.2
65°	4154.3	4104.1	4009.3	4048.7	4470.7	4596.1	4797.9	4151.0	3358.2	3693.9	3435.7
67.5°	4684.4	4682.7	4566.2	4647.1	5166.6	5267.2	5195.5	4163.5	3156.7	3161.5	2645.3
70°	5212.8	5219.6	5199.9	5481.3	6106.8	6211.5	5618.9	3994.6	2703.8	2283.1	1584.8
72.5°	5631.4	5629.7	5729.0	6454.4	7327.0	7303.6	5975.7	3482.9	1941.3	1232.4	757.4
75°	5360.3	5301.2	5596.8	6936.3	8038.2	7923.7	5672.2	2429.5	1007.5	561.0	407.8
77.5°	3496.2	3552.2	3986.2	5730.0	7031.1	6891.7	4161.5	1133.6	474.7	368.0	295.6
80°	1266.1	1325.2	1866.5	3245.7	4844.1	4821.4	2049.3	465.9	321.1	278.0	215.4
82.5°	435.6	457.4	736.3	1441.4	2735.0	2837.0	771.0	264.7	233.4	197.1	147.5
85°	170.9	195.7	336.7	693.5	1379.6	1389.8	312.3	158.3	162.4	129.1	80.9
87.5°	64.9	78.8	161.1	322.1	630.0	578.7	111.8	75.4	92.4	76.8	38.4
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°	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6	1537.6
2.5°	1540.0	1547.1	1562.0	1572.2	1583.1	1586.2	1587.5	1590.2	1593.0	1591.9	1592.3
5°	1549.5	1563.4	1587.5	1597.7	1602.5	1597.0	1586.5	1578.0	1571.9	1568.5	1567.5
7.5°	1565.1	1584.8	1610.6	1608.9	1598.1	1573.9	1546.8	1526.4	1509.4	1503.3	1499.9
10°	1585.8	1608.9	1626.9	1607.6	1576.0	1534.2	1493.4	1461.8	1436.3	1426.5	1424.8
12.5°	1612.3	1635.8	1639.2	1598.1	1545.7	1488.6	1433.3	1391.5	1353.4	1341.2	1338.5
15°	1646.7	1668.7	1647.7	1581.4	1508.4	1431.6	1359.9	1303.1	1263.0	1248.1	1242.6
17.5°	1682.7	1703.7	1649.4	1553.9	1459.4	1363.9	1273.9	1215.8	1169.9	1152.6	1150.6
20°	1725.8	1735.3	1642.2	1514.5	1392.1	1276.3	1181.5	1126.8	1102.3	1090.1	1088.7
22.5°	1779.2	1769.0	1625.9	1461.1	1306.9	1175.0	1097.9	1072.4	1066.3	1063.6	1064.6
25°	1835.6	1804.3	1601.8	1391.5	1199.1	1073.8	1036.7	1043.9	1052.0	1051.0	1051.0
27.5°	1897.8	1840.3	1564.8	1299.0	1079.9	990.8	995.3	1021.4	1033.7	1033.3	1033.0
30°	1977.6	1881.1	1517.5	1187.9	968.4	932.4	959.2	991.2	1007.8	1007.2	1007.5
32.5°	2075.8	1926.0	1453.3	1063.9	887.9	889.2	920.2	951.8	971.1	969.4	969.8
35°	2190.7	1976.3	1366.3	941.6	834.5	854.9	879.4	901.5	919.8	917.5	915.1
37.5°	2315.7	2025.5	1250.8	832.2	791.0	823.0	843.4	847.1	855.6	849.5	845.1
40°	2434.6	2063.2	1102.0	742.5	747.2	795.8	809.1	794.1	778.8	776.8	770.7
42.5°	2538.3	2075.8	951.4	670.8	701.0	767.3	775.4	744.2	716.6	703.7	698.3
45°	2647.7	2080.2	811.1	610.6	656.5	741.8	750.6	708.8	670.1	642.2	633.0
47.5°	2790.7	2112.2	702.0	566.1	622.5	724.8	737.4	680.6	630.3	590.6	582.1
50°	2978.0	2175.4	613.3	532.1	600.4	713.6	727.8	653.1	597.7	549.8	541.3
52.5°	3185.9	2233.5	541.6	504.6	579.0	693.9	715.6	633.4	567.1	512.1	502.9
55°	3331.4	2189.0	483.9	476.1	551.1	665.7	698.6	616.7	523.3	475.4	467.2
57.5°	3359.2	2036.7	440.0	446.5	517.5	630.3	672.5	579.7	499.5	459.4	450.9
60°	3283.1	1824.7	407.4	419.3	481.5	585.8	623.5	553.5	476.7	442.4	435.3
62.5°	3091.8	1607.6	383.3	394.8	447.9	540.6	592.9	526.0	453.6	423.0	415.9
65°	2705.5	1349.7	360.2	373.1	416.6	501.5	565.4	500.5	430.9	407.4	400.6
67.5°	2042.2	1010.9	338.4	350.0	388.7	467.6	535.5	475.4	408.8	393.8	385.7
70°	1202.5	633.0	313.6	325.9	359.5	432.2	503.6	447.9	381.3	374.5	363.9
72.5°	559.6	380.9	285.4	297.3	322.8	385.0	462.5	411.8	348.6	333.7	319.4
75°	334.0	278.6	252.1	262.7	280.7	334.7	410.8	375.1	317.7	298.0	283.1
77.5°	249.8	213.1	215.4	226.6	241.3	292.9	363.9	346.3	293.9	278.6	268.4
80°	179.8	161.7	175.7	187.9	203.2	266.4	348.6	320.1	265.7	245.3	235.8
82.5°	119.9	116.2	132.2	144.8	159.7	233.1	327.6	280.3	227.0	201.2	180.1
85°	66.3	70.0	89.0	94.5	107.4	164.1	268.4	225.3	170.9	137.6	131.5
87.5°	27.5	32.3	47.9	46.2	57.1	97.9	176.7	135.9	108.7	81.2	63.2
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)