

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: P318876

Luminaire Tested: **GAN-SA2B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318876
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-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 9347 lumens
Efficiency: N/A
Efficacy: 110.0 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

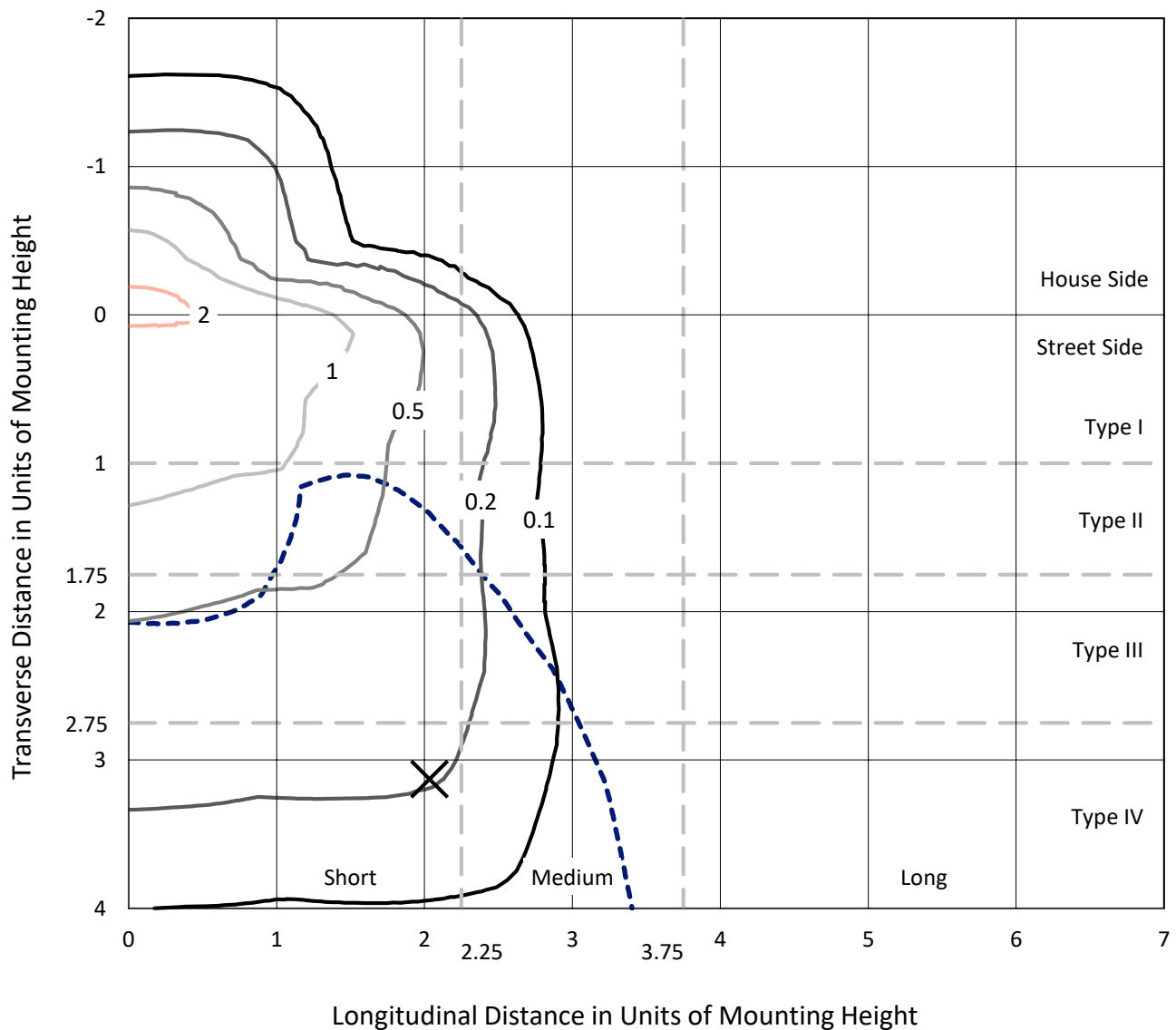


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Iso-Footcandle Lines of Horizontal Illumination

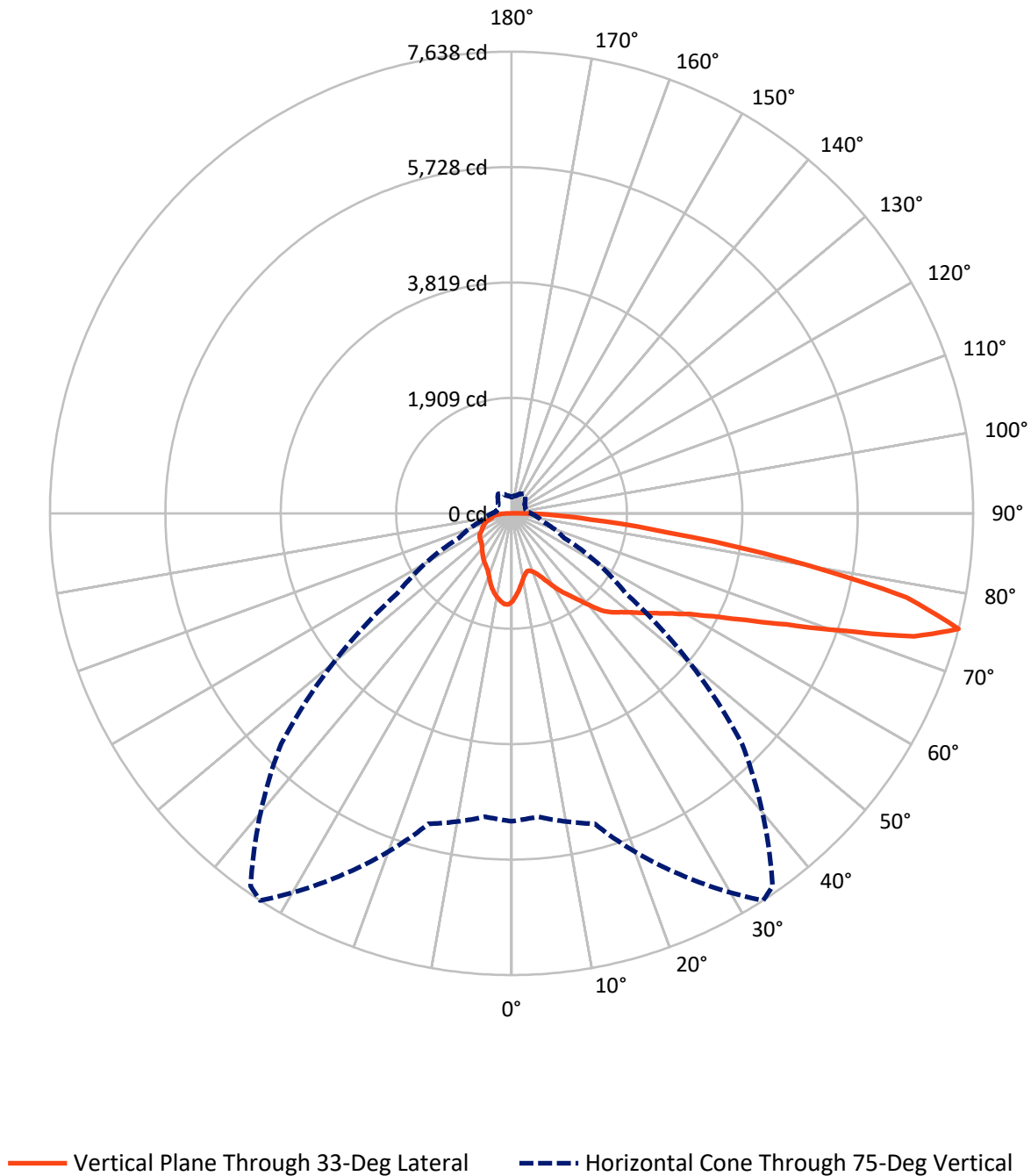
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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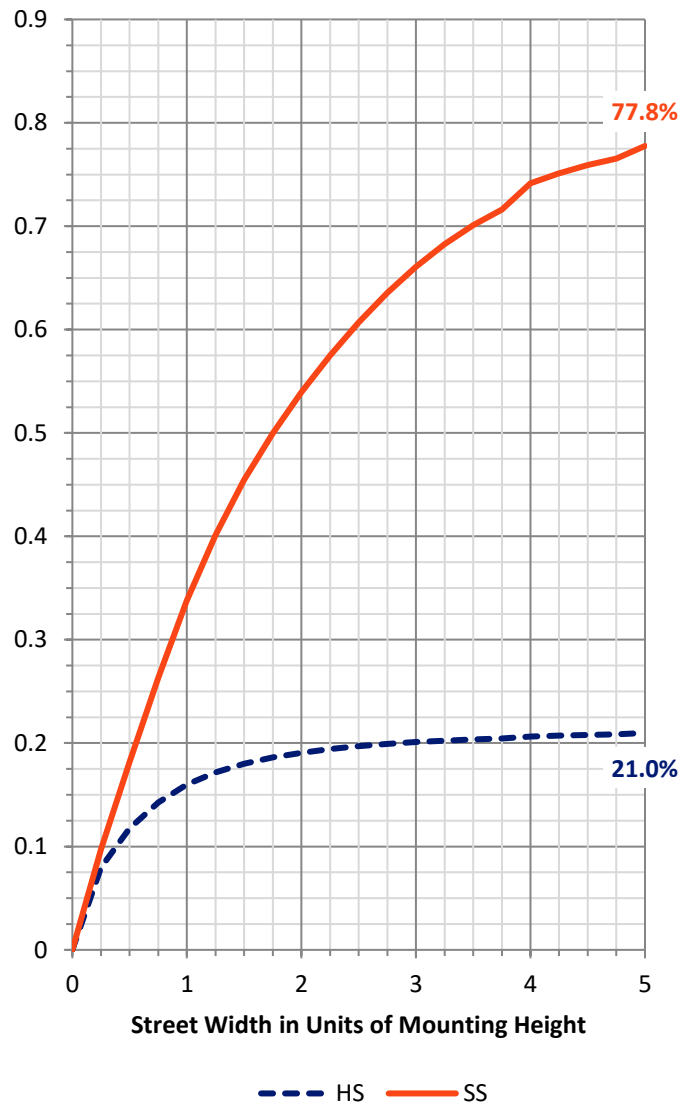
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2007.0	0.0	2007.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7340.0	0.0	7340.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	9347.0	0.0	9347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.4
10°-20°	357.9	3.8
20°-30°	584.4	6.3
30°-40°	870.4	9.3
40°-50°	1248.3	13.4
50°-60°	1713.8	18.3
60°-70°	2145.6	23.0
70°-80°	1941.0	20.8
80°-90°	353.6	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°	9347.0	100.0
0°-180°	9347.0	100.0

Coefficient of Utilization



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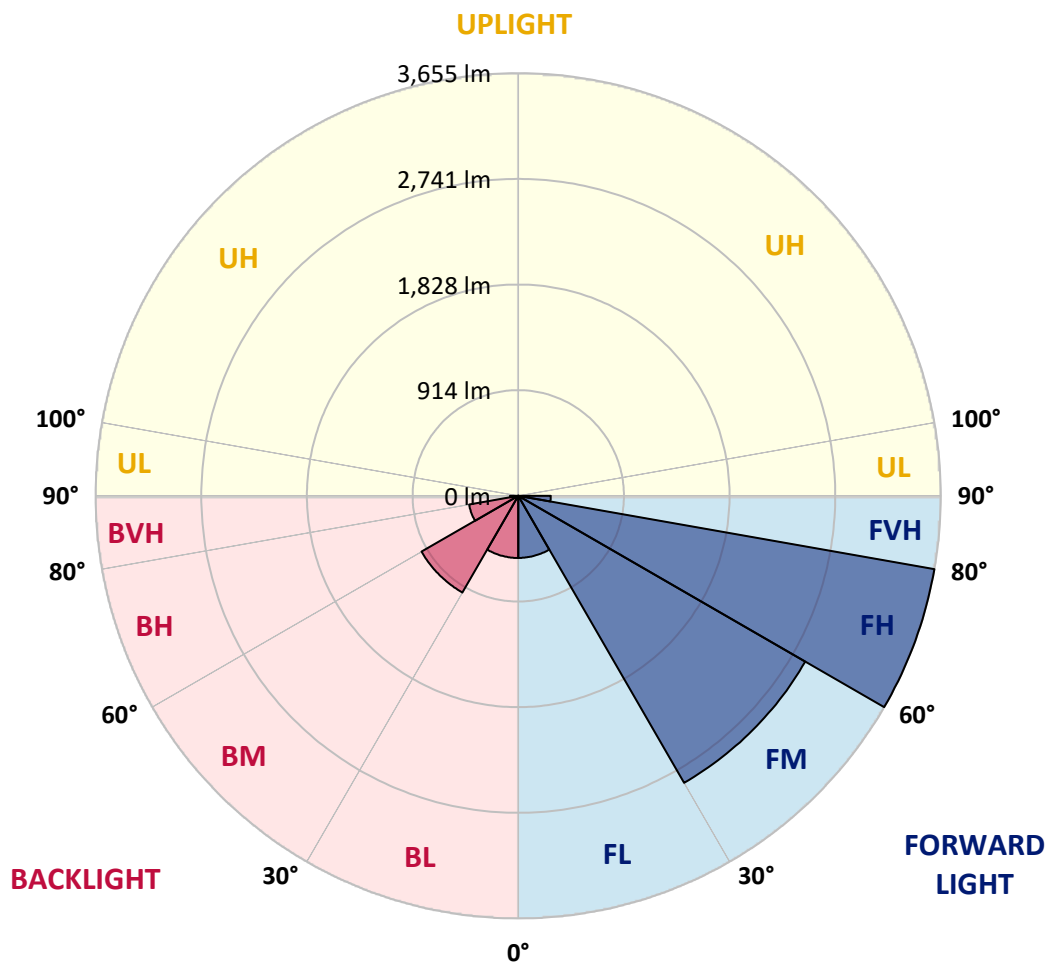
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	536.8	5.7			
FM	(30°-60°)	2866.5	30.7			
FH	(60°-80°)	3655.0	39.1			G2/5000
FVH	(80°-90°)	281.6	3.0			G3/500
BL	(0°-30°)	537.6	5.8	B2/1000		
BM	(30°-60°)	965.9	10.3	B1/1000		
BH	(60°-80°)	431.6	4.6	B1/500		G1/500
BVH	(80°-90°)	72.0	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°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1356.7	1351.5	1361.2	1362.5	1370.9	1374.1	1385.8	1403.8	1418.7	1435.8	1451.3
5°	1233.7	1230.1	1243.7	1253.4	1271.8	1279.5	1307.0	1345.4	1379.6	1418.4	1453.6
7.5°	1116.8	1114.9	1130.0	1152.0	1173.3	1184.0	1231.4	1287.3	1344.4	1407.1	1461.0
10°	1018.3	1017.7	1032.2	1053.8	1085.2	1097.1	1158.5	1232.1	1312.1	1398.4	1473.6
12.5°	963.1	965.4	972.2	990.2	1019.3	1031.2	1099.4	1185.9	1285.0	1395.4	1492.0
15°	976.7	980.2	968.6	968.0	988.6	998.0	1061.9	1153.0	1265.7	1400.3	1518.8
17.5°	1034.5	1035.1	1004.4	985.1	997.7	1002.5	1050.3	1134.2	1254.4	1411.3	1552.4
20°	1115.8	1114.2	1060.0	1027.7	1034.5	1035.8	1066.8	1134.6	1253.4	1430.3	1595.9
22.5°	1223.7	1211.7	1138.8	1094.9	1093.2	1091.3	1109.1	1158.5	1267.6	1461.3	1647.9
25°	1364.5	1353.1	1252.7	1192.7	1179.8	1174.9	1177.5	1209.5	1295.7	1494.6	1706.0
27.5°	1521.0	1501.3	1404.5	1319.6	1292.8	1286.0	1270.5	1281.5	1326.4	1526.5	1775.1
30°	1652.1	1641.5	1556.9	1456.1	1424.5	1414.8	1374.1	1362.2	1370.6	1570.1	1862.3
32.5°	1725.4	1718.3	1667.0	1585.6	1556.2	1542.7	1485.2	1461.3	1441.6	1638.9	1980.5
35°	1814.2	1809.7	1778.7	1719.6	1676.0	1661.8	1617.3	1592.4	1541.7	1733.5	2133.2
37.5°	1927.2	1922.4	1923.0	1875.2	1823.2	1810.0	1780.6	1754.5	1671.5	1857.8	2299.2
40°	2055.1	2045.7	2042.2	2039.9	2007.0	1999.5	1984.0	1948.5	1834.2	2006.3	2462.9
42.5°	2247.5	2214.2	2143.2	2170.0	2202.6	2198.7	2211.3	2160.3	2015.0	2182.0	2622.7
45°	2433.2	2378.6	2255.9	2261.7	2333.1	2354.7	2449.0	2412.8	2211.0	2374.4	2788.0
47.5°	2517.7	2476.4	2372.1	2372.5	2443.2	2488.0	2694.7	2668.8	2417.0	2593.0	2989.8
50°	2612.3	2571.0	2477.4	2512.6	2574.2	2622.0	2932.0	2918.7	2613.0	2832.2	3231.6
52.5°	2715.7	2645.6	2586.2	2649.2	2735.7	2791.2	3169.6	3133.5	2792.8	3073.1	3509.6
55°	2717.0	2697.9	2743.1	2789.3	2918.7	2986.9	3418.6	3323.0	2939.4	3309.7	3735.9
57.5°	2871.6	2840.6	2936.5	2957.8	3127.0	3203.8	3666.2	3488.0	3088.6	3491.2	3858.0
60°	3076.3	3049.8	3128.3	3184.5	3384.7	3487.3	3930.6	3657.5	3205.8	3628.1	3852.2
62.5°	3429.9	3399.8	3398.9	3477.6	3747.2	3866.7	4227.3	3823.8	3252.3	3655.2	3687.8
65°	3947.4	3899.6	3809.5	3847.0	4248.0	4367.1	4558.9	3944.2	3190.9	3509.9	3264.5
67.5°	4451.1	4449.5	4338.7	4415.6	4909.2	5004.8	4936.7	3956.1	2999.5	3004.0	2513.5
70°	4953.2	4959.6	4940.9	5208.2	5802.6	5902.1	5339.0	3795.7	2569.1	2169.4	1505.9
72.5°	5350.9	5349.3	5443.6	6132.9	6962.1	6939.8	5678.0	3309.4	1844.6	1171.1	719.7
75°	5093.3	5037.1	5318.0	6590.8	7637.8	7529.0	5389.7	2308.5	957.3	533.1	387.4
77.5°	3322.0	3375.3	3787.6	5444.6	6680.8	6548.5	3954.2	1077.1	451.0	349.7	280.9
80°	1203.0	1259.2	1773.5	3084.1	4602.8	4581.2	1947.2	442.7	305.1	264.1	204.7
82.5°	413.9	434.6	699.7	1369.6	2598.8	2695.6	732.6	251.5	221.8	187.3	140.1
85°	162.4	186.0	320.0	659.0	1310.9	1320.5	296.7	150.5	154.3	122.7	76.8
87.5°	61.7	74.9	153.0	306.1	598.6	549.8	106.2	71.7	87.8	73.0	36.5
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°	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0	1461.0
2.5°	1463.2	1470.0	1484.2	1493.9	1504.3	1507.2	1508.5	1511.0	1513.6	1512.6	1513.0
5°	1472.3	1485.5	1508.5	1518.1	1522.7	1517.5	1507.5	1499.4	1493.6	1490.4	1489.4
7.5°	1487.1	1505.9	1530.4	1528.8	1518.5	1495.5	1469.7	1450.3	1434.2	1428.4	1425.1
10°	1506.8	1528.8	1545.9	1527.5	1497.5	1457.8	1419.0	1389.0	1364.8	1355.4	1353.8
12.5°	1532.0	1554.3	1557.5	1518.5	1468.7	1414.5	1361.9	1322.2	1286.0	1274.4	1271.8
15°	1564.6	1585.6	1565.6	1502.6	1433.2	1360.3	1292.1	1238.2	1200.1	1185.9	1180.7
17.5°	1598.9	1618.9	1567.2	1476.5	1386.7	1296.0	1210.4	1155.2	1111.6	1095.2	1093.2
20°	1639.9	1648.9	1560.4	1439.0	1322.8	1212.7	1122.6	1070.6	1047.4	1035.8	1034.5
22.5°	1690.5	1680.9	1544.9	1388.3	1241.8	1116.5	1043.2	1019.0	1013.2	1010.6	1011.6
25°	1744.1	1714.4	1522.0	1322.2	1139.4	1020.3	985.1	991.9	999.6	998.6	998.6
27.5°	1803.2	1748.7	1486.8	1234.3	1026.1	941.5	945.7	970.5	982.2	981.8	981.5
30°	1879.1	1787.4	1441.9	1128.8	920.2	886.0	911.5	941.8	957.6	957.0	957.3
32.5°	1972.4	1830.0	1380.9	1010.9	843.7	845.0	874.3	904.4	922.8	921.1	921.5
35°	2081.5	1877.8	1298.3	894.7	793.0	812.3	835.6	856.6	874.0	871.8	869.5
37.5°	2200.4	1924.6	1188.5	790.7	751.6	782.0	801.4	804.9	813.0	807.2	803.0
40°	2313.4	1960.5	1047.1	705.5	710.0	756.2	768.8	754.5	740.0	738.1	732.3
42.5°	2411.8	1972.4	904.0	637.3	666.1	729.0	736.8	707.1	680.9	668.7	663.5
45°	2515.8	1976.6	770.7	580.2	623.8	704.8	713.2	673.5	636.7	610.2	601.5
47.5°	2651.7	2007.0	667.1	537.9	591.5	688.7	700.6	646.7	598.9	561.1	553.1
50°	2829.6	2067.0	582.8	505.6	570.5	678.0	691.6	620.6	567.9	522.4	514.3
52.5°	3027.2	2122.2	514.7	479.5	550.2	659.3	680.0	601.8	538.9	486.6	477.8
55°	3165.4	2079.9	459.8	452.3	523.7	632.5	663.8	586.0	497.2	451.7	443.9
57.5°	3191.9	1935.3	418.1	424.3	491.7	598.9	639.0	550.8	474.6	436.5	428.4
60°	3119.6	1733.8	387.1	398.4	457.5	556.6	592.5	526.0	453.0	420.4	413.6
62.5°	2937.8	1527.5	364.2	375.2	425.5	513.7	563.4	499.8	431.0	402.0	395.2
65°	2570.7	1282.4	342.2	354.5	395.8	476.6	537.3	475.6	409.4	387.1	380.7
67.5°	1940.5	960.5	321.6	332.6	369.4	444.3	508.8	451.7	388.4	374.2	366.5
70°	1142.6	601.5	298.0	309.6	341.6	410.7	478.5	425.5	362.3	355.8	345.8
72.5°	531.8	361.9	271.2	282.5	306.7	365.8	439.4	391.3	331.3	317.1	303.5
75°	317.4	264.8	239.6	249.6	266.7	318.0	390.4	356.4	301.9	283.2	269.0
77.5°	237.3	202.4	204.7	215.4	229.2	278.3	345.8	329.0	279.3	264.8	255.1
80°	170.8	153.7	166.9	178.5	193.1	253.1	331.3	304.1	252.5	233.1	224.1
82.5°	114.0	110.4	125.6	137.5	151.7	221.5	311.2	266.4	215.7	191.1	171.1
85°	63.0	66.5	84.6	89.8	102.0	155.9	255.1	214.1	162.4	130.8	125.0
87.5°	26.2	30.7	45.5	43.9	54.2	93.0	167.9	129.1	103.3	77.2	60.1
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)