

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: P317998

Luminaire Tested: **GAN-SA4B-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18918 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

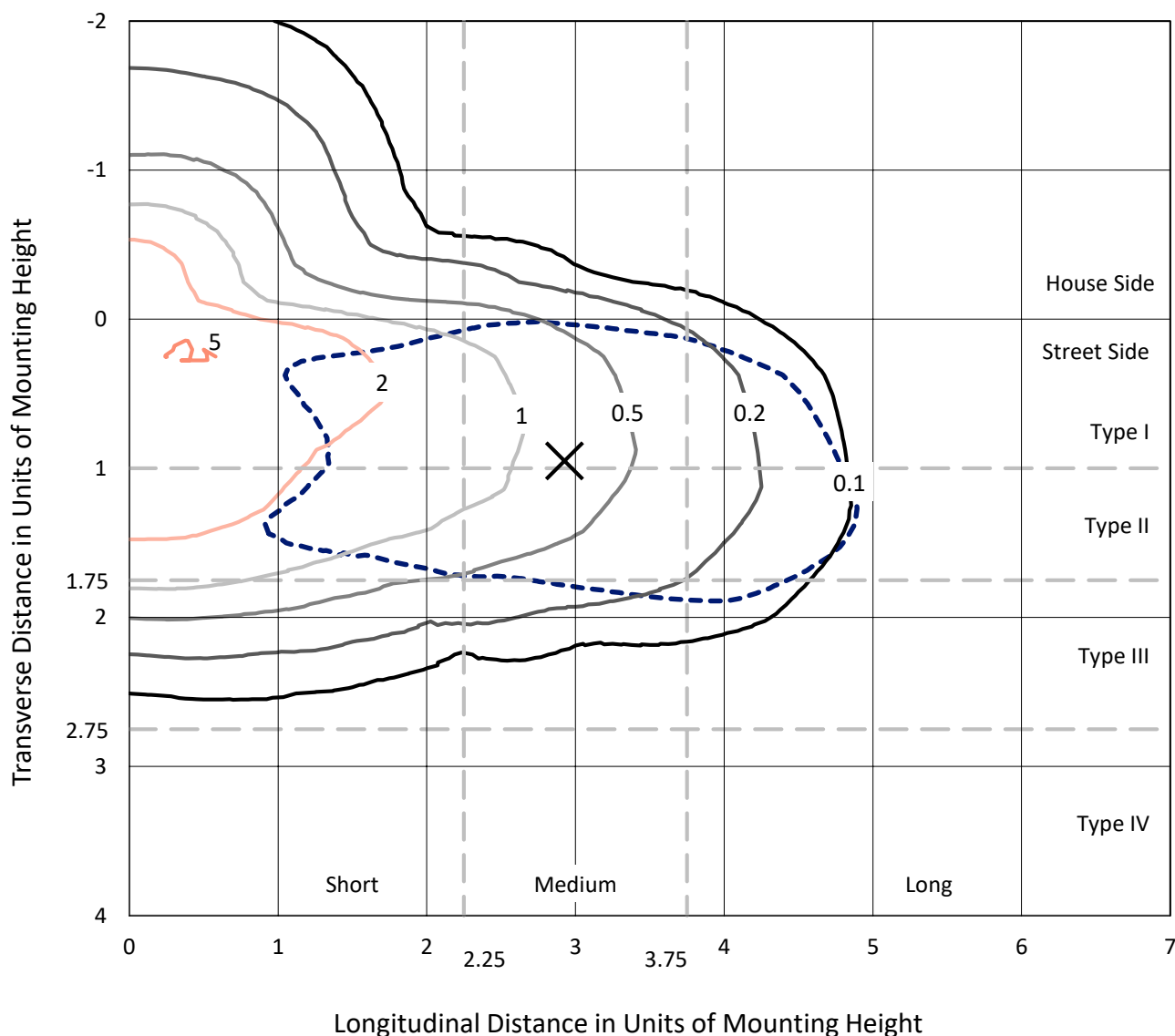
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

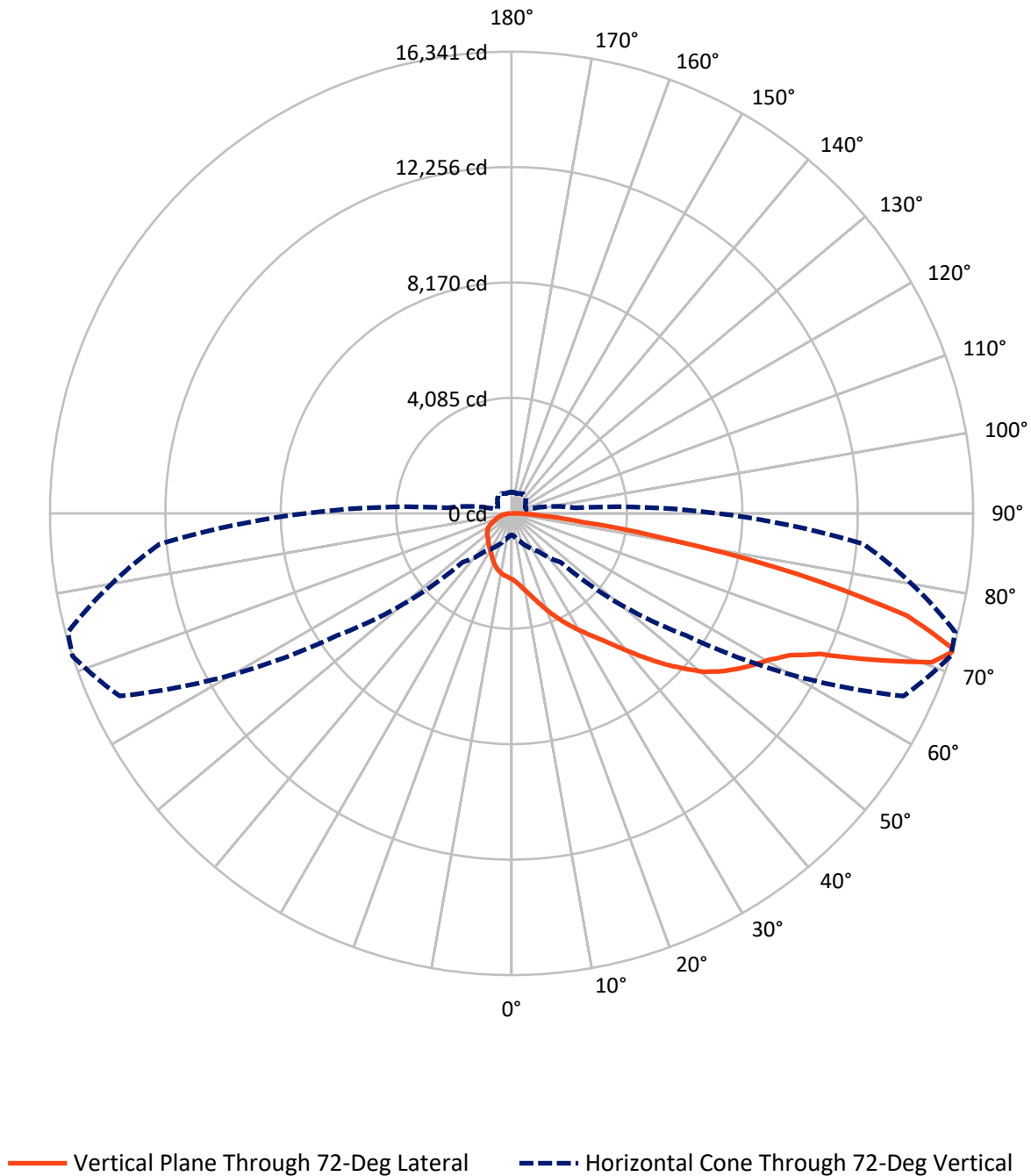
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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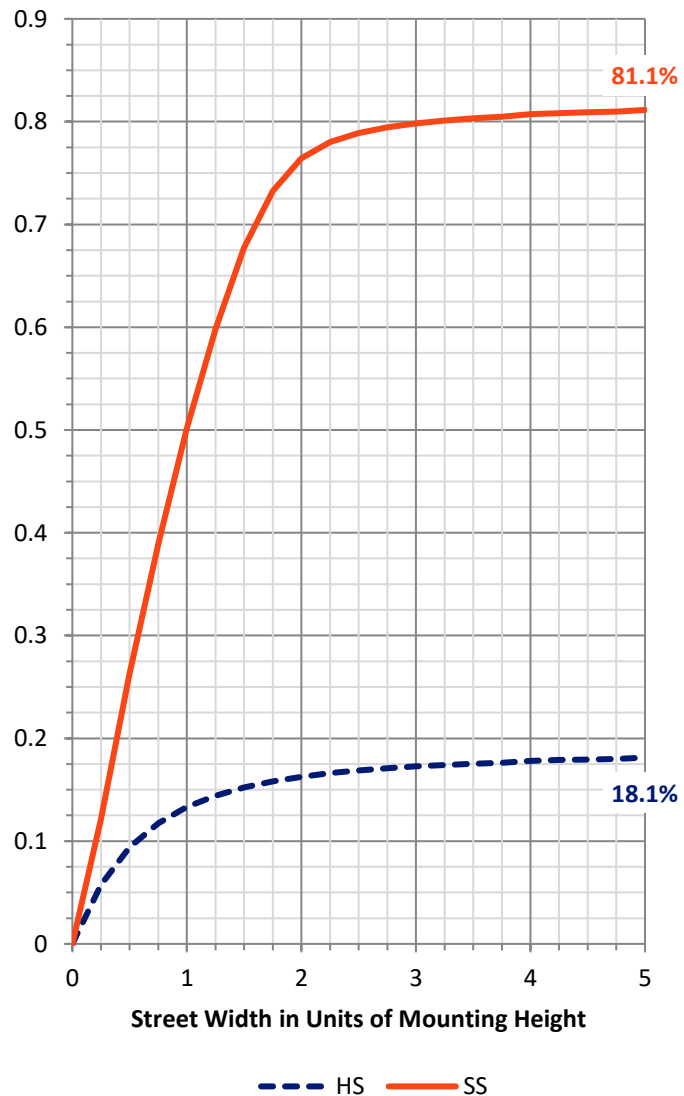
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3509.4	0.0	3509.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15408.6	0.0	15408.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	18918.0	0.0	18918.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	1.2
10°-20°	753.6	4.0
20°-30°	1320.6	7.0
30°-40°	1958.0	10.4
40°-50°	2863.8	15.1
50°-60°	3940.5	20.8
60°-70°	4387.0	23.2
70°-80°	2972.6	15.7
80°-90°	488.6	2.6
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°	18918.0	100.0
0°-180°	18918.0	100.0

Coefficient of Utilization



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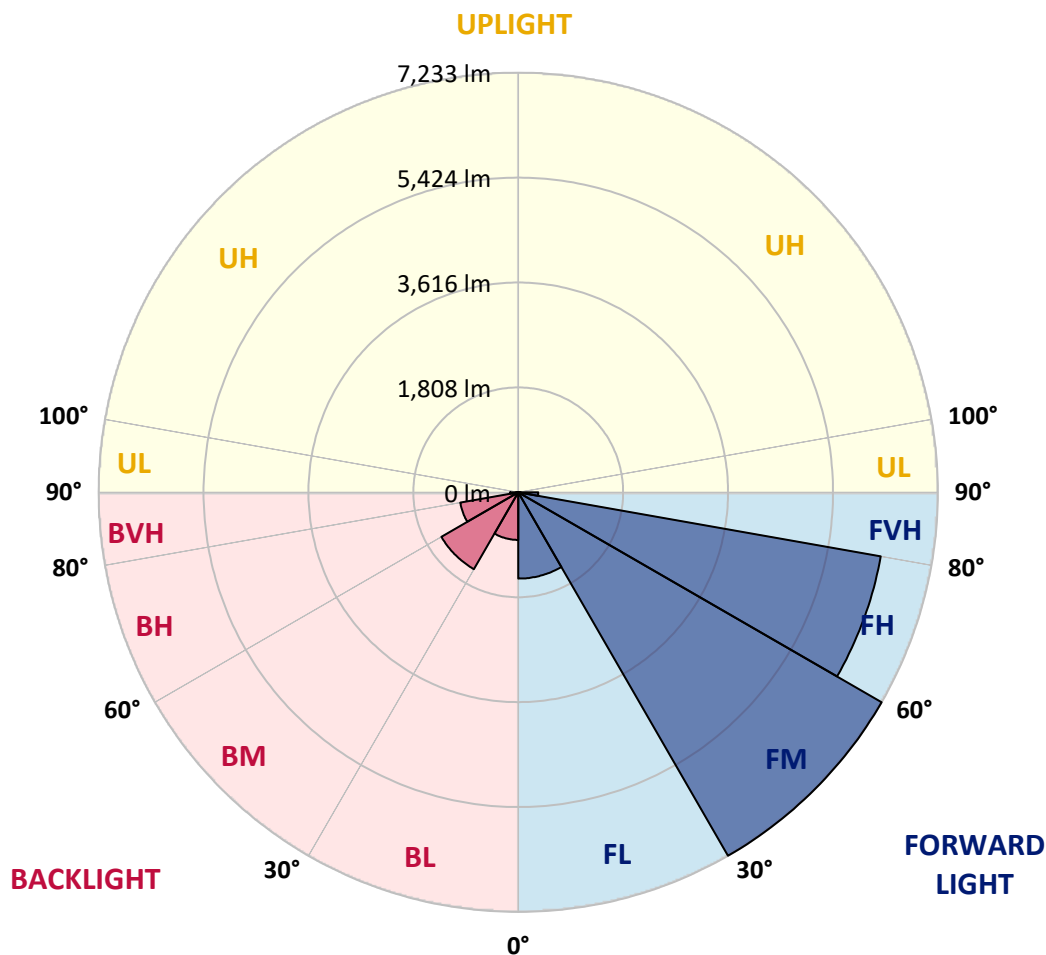
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1487.1	7.9			
FM	(30°-60°)	7232.6	38.2			
FH	(60°-80°)	6344.3	33.5			G3/7500
FVH	(80°-90°)	344.6	1.8			G3/500
BL	(0°-30°)	820.4	4.3	B2/1000		
BM	(30°-60°)	1529.8	8.1	B2/2500		
BH	(60°-80°)	1015.3	5.4	B3/2500		G3/2500
BVH	(80°-90°)	143.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4
2.5°	2571.0	2567.1	2553.4	2553.4	2527.4	2505.2	2463.5	2435.5	2402.3	2390.6	2351.5
5°	2819.9	2821.2	2804.2	2792.5	2754.1	2707.2	2636.2	2571.7	2507.2	2481.1	2401.0
7.5°	3029.0	3026.3	3021.8	3012.0	2976.2	2928.0	2832.2	2736.5	2641.4	2602.3	2464.2
10°	3163.1	3169.0	3172.9	3177.5	3162.5	3128.0	3037.4	2920.8	2796.4	2743.0	2539.8
12.5°	3230.9	3241.3	3259.5	3290.8	3315.6	3311.7	3245.9	3122.1	2974.2	2907.1	2634.2
15°	3270.6	3284.3	3313.0	3369.0	3438.7	3478.4	3460.8	3348.8	3184.0	3101.3	2749.5
17.5°	3295.4	3306.4	3350.7	3425.6	3529.2	3634.7	3681.0	3587.2	3421.1	3326.6	2881.7
20°	3312.3	3320.8	3376.1	3464.1	3598.3	3766.3	3895.3	3871.8	3682.3	3559.8	3019.8
22.5°	3350.1	3357.3	3410.0	3498.6	3647.1	3864.0	4101.8	4137.0	3957.8	3819.1	3167.7
25°	3455.6	3455.6	3499.9	3561.8	3701.2	3948.7	4276.4	4432.0	4239.2	4077.7	3304.5
27.5°	3656.9	3654.9	3671.2	3692.7	3798.2	4034.7	4432.0	4692.6	4531.1	4354.5	3437.4
30°	3895.3	3908.3	3910.3	3899.9	3949.4	4142.2	4576.0	4967.5	4824.8	4634.6	3573.5
32.5°	4202.1	4210.6	4200.8	4166.3	4159.1	4294.6	4717.3	5255.4	5142.7	4927.1	3697.9
35°	4591.6	4575.3	4544.7	4474.4	4407.3	4498.5	4878.9	5543.3	5499.7	5280.8	3869.2
37.5°	5009.2	5009.8	4972.0	4812.5	4720.0	4759.0	5101.7	5869.7	5931.5	5701.6	4088.8
40°	5344.0	5361.6	5385.0	5175.3	5055.4	5109.5	5385.0	6248.1	6442.2	6200.6	4374.7
42.5°	5577.8	5598.0	5664.5	5532.9	5408.5	5508.8	5718.5	6652.0	7015.4	6776.4	4709.5
45°	5825.4	5836.4	5883.3	5826.7	5747.2	5973.2	6094.4	7070.2	7621.9	7390.0	5084.1
47.5°	6085.9	6097.6	6145.8	6108.1	6066.4	6407.0	6486.5	7464.2	8202.9	8064.2	5484.0
50°	6407.7	6415.5	6461.1	6392.7	6405.7	6734.0	6837.0	7825.8	8812.0	8670.0	5885.3
52.5°	6846.7	6848.7	6911.9	6850.0	6788.8	6973.8	7138.6	8166.4	9289.4	9222.3	6286.5
55°	7190.7	7211.5	7418.7	7405.6	7370.4	7191.3	7390.6	8490.8	9715.4	9747.4	6712.5
57.5°	6971.1	7052.6	7472.1	7767.8	8055.7	7732.6	7731.3	8856.3	10111.5	10262.6	7180.9
60°	6105.5	6216.2	6834.4	7490.3	8391.2	8674.5	8438.7	9302.5	10511.4	10773.3	7767.8
62.5°	4360.4	4542.8	5380.5	6427.9	7931.3	9298.6	9878.3	10010.5	11055.3	11364.8	8530.6
65°	2204.3	2342.4	3044.6	4306.3	6336.7	8890.8	11442.9	11560.8	12000.5	12275.4	9705.0
67.5°	1339.3	1391.4	1734.0	2395.2	3884.9	6925.6	11953.6	14144.9	13829.6	13975.5	11379.7
70°	986.9	1025.3	1238.9	1590.7	2234.3	4064.0	10386.4	15989.0	15781.8	15765.5	12617.4
72°	768.6	796.6	985.5	1285.2	1633.7	2438.1	7528.1	15308.3	16340.7	16258.6	12504.0
72.5°	728.9	753.7	925.6	1209.6	1543.8	2210.2	6768.6	14849.0	16300.3	16263.2	12357.5
75°	573.9	591.5	685.3	935.4	1208.3	1253.9	3709.0	11507.4	14460.2	15061.4	11114.6
77.5°	474.9	477.5	527.0	680.7	941.9	886.5	1821.9	7984.1	10354.5	11015.6	7873.3
80°	386.9	390.2	413.6	477.5	712.6	655.9	865.0	4591.0	5797.3	5804.5	3744.2
82.5°	308.1	308.8	334.8	349.1	512.0	469.0	495.7	2155.4	2533.2	2436.8	1345.8
85°	216.9	212.4	327.0	286.6	334.8	300.9	273.6	853.3	1047.4	1001.8	421.4
87.5°	72.3	74.9	145.3	185.6	195.4	170.7	121.8	327.0	395.4	392.1	133.5
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°	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4
2.5°	2339.1	2318.3	2287.7	2253.8	2227.1	2199.7	2179.5	2169.1	2157.4	2147.6	2159.3
5°	2363.9	2324.8	2259.7	2195.8	2148.9	2107.2	2077.3	2061.6	2047.3	2037.5	2038.8
7.5°	2404.3	2341.1	2231.7	2138.5	2073.4	2028.4	1997.8	1987.4	1978.3	1975.7	1978.9
10°	2447.3	2354.1	2194.5	2070.8	1996.5	1959.4	1945.7	1952.9	1959.4	1965.2	1971.7
12.5°	2496.1	2365.8	2140.5	1991.3	1928.1	1913.8	1927.5	1958.7	1981.5	1995.2	2003.7
15°	2560.0	2376.3	2077.9	1911.8	1869.5	1885.8	1932.0	1986.1	2025.8	2051.2	2055.1
17.5°	2618.6	2375.6	1997.8	1831.7	1821.9	1869.5	1939.2	2015.4	2068.8	2104.6	2111.8
20°	2679.2	2358.0	1904.7	1753.5	1773.7	1851.9	1942.4	2034.3	2098.8	2140.5	2150.2
22.5°	2735.8	2327.4	1802.4	1682.5	1733.3	1828.4	1930.1	2023.2	2087.7	2121.6	2132.0
25°	2774.3	2274.0	1698.8	1622.6	1697.5	1799.8	1889.7	1964.6	2012.8	2029.7	2032.3
27.5°	2793.8	2204.3	1601.1	1570.5	1660.4	1752.9	1814.8	1851.9	1865.6	1864.3	1861.7
30°	2796.4	2112.4	1517.1	1528.2	1617.4	1683.8	1713.1	1706.0	1688.4	1658.4	1661.0
32.5°	2787.9	2008.9	1446.7	1487.8	1562.7	1599.8	1601.1	1566.6	1519.7	1472.1	1459.1
35°	2790.5	1907.3	1384.8	1442.2	1496.2	1512.5	1497.5	1446.7	1382.9	1321.7	1308.6
37.5°	2819.2	1818.7	1331.4	1389.4	1422.6	1426.5	1405.0	1351.6	1304.7	1244.8	1239.6
40°	2887.6	1755.5	1280.6	1330.1	1349.0	1351.0	1320.4	1282.6	1286.5	1254.6	1253.9
42.5°	3010.7	1728.1	1235.7	1268.3	1280.0	1283.9	1260.4	1236.3	1270.2	1249.4	1242.2
45°	3169.7	1734.6	1197.9	1207.7	1229.2	1247.4	1233.1	1203.8	1216.8	1126.2	1096.3
47.5°	3353.3	1776.3	1167.9	1155.6	1192.7	1227.2	1205.1	1160.8	1114.5	1024.6	1007.7
50°	3568.3	1840.8	1140.6	1104.1	1153.0	1199.9	1177.7	1114.5	1044.8	1001.2	995.3
52.5°	3792.4	1919.6	1113.2	1047.4	1102.8	1179.0	1167.9	1104.1	1018.1	975.1	967.3
55°	4046.4	1999.1	1078.7	981.6	1048.7	1169.2	1163.4	1066.3	997.9	973.8	968.0
57.5°	4362.3	2089.7	1033.1	913.2	997.9	1134.1	1115.8	1043.5	977.1	958.8	956.9
60°	4774.0	2223.2	967.3	840.3	936.0	1080.0	1076.1	1010.3	943.9	930.8	928.2
62.5°	5391.5	2444.0	876.8	767.3	867.0	988.2	1024.0	965.4	908.7	908.0	909.3
65°	6349.1	2776.2	778.4	703.5	797.3	910.6	963.4	919.1	872.9	885.9	887.8
67.5°	7459.0	3051.8	682.0	641.0	726.3	837.0	908.7	872.9	825.3	859.2	859.8
70°	7828.4	2805.5	597.3	579.1	652.7	766.0	849.4	822.1	773.8	807.7	804.5
72°	7285.1	2264.9	542.6	532.2	597.3	707.4	796.6	774.5	726.9	749.7	741.3
72.5°	7113.8	2159.3	528.9	520.5	582.3	692.4	783.0	762.8	715.2	734.8	726.9
75°	6345.8	1875.3	454.7	456.6	508.1	619.5	706.1	699.6	650.7	652.7	650.1
77.5°	4602.7	1375.1	383.0	396.0	432.5	544.6	628.6	624.7	571.3	561.5	559.5
80°	2135.9	701.5	312.0	317.9	355.7	455.3	536.1	530.9	487.9	475.5	468.3
82.5°	731.5	333.5	234.5	238.4	275.5	366.7	465.1	461.8	426.0	401.9	386.9
85°	261.2	166.1	164.1	160.2	196.7	288.6	405.2	387.6	334.8	285.3	284.0
87.5°	84.7	71.0	84.7	84.0	114.6	195.4	294.4	250.8	243.0	201.9	198.0
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)