

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: P269901

Luminaire Tested: **GAP-AF-02-LED-U-T2R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269901
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T2R-7027
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11243.8 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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: 28.75 FT



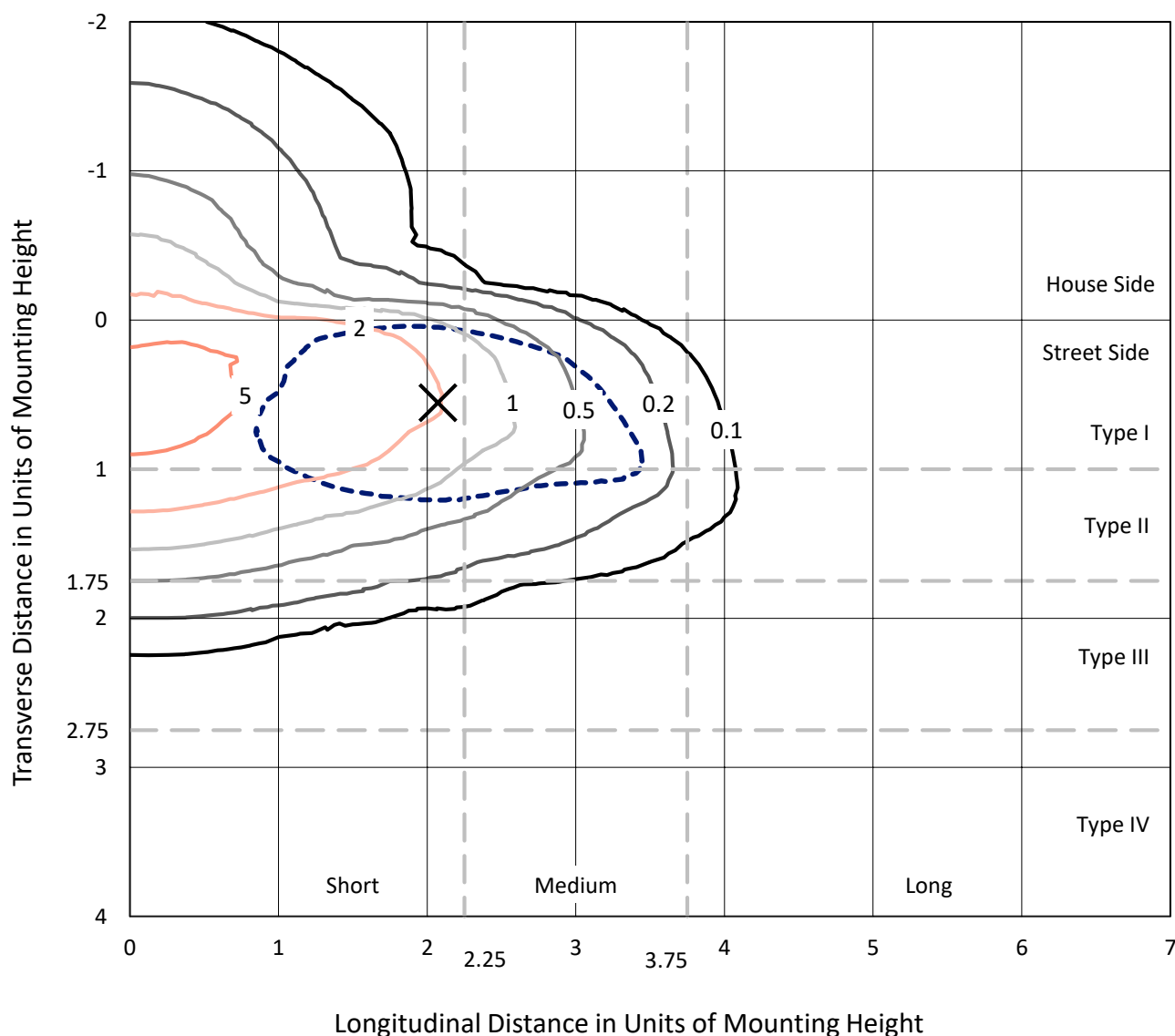
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

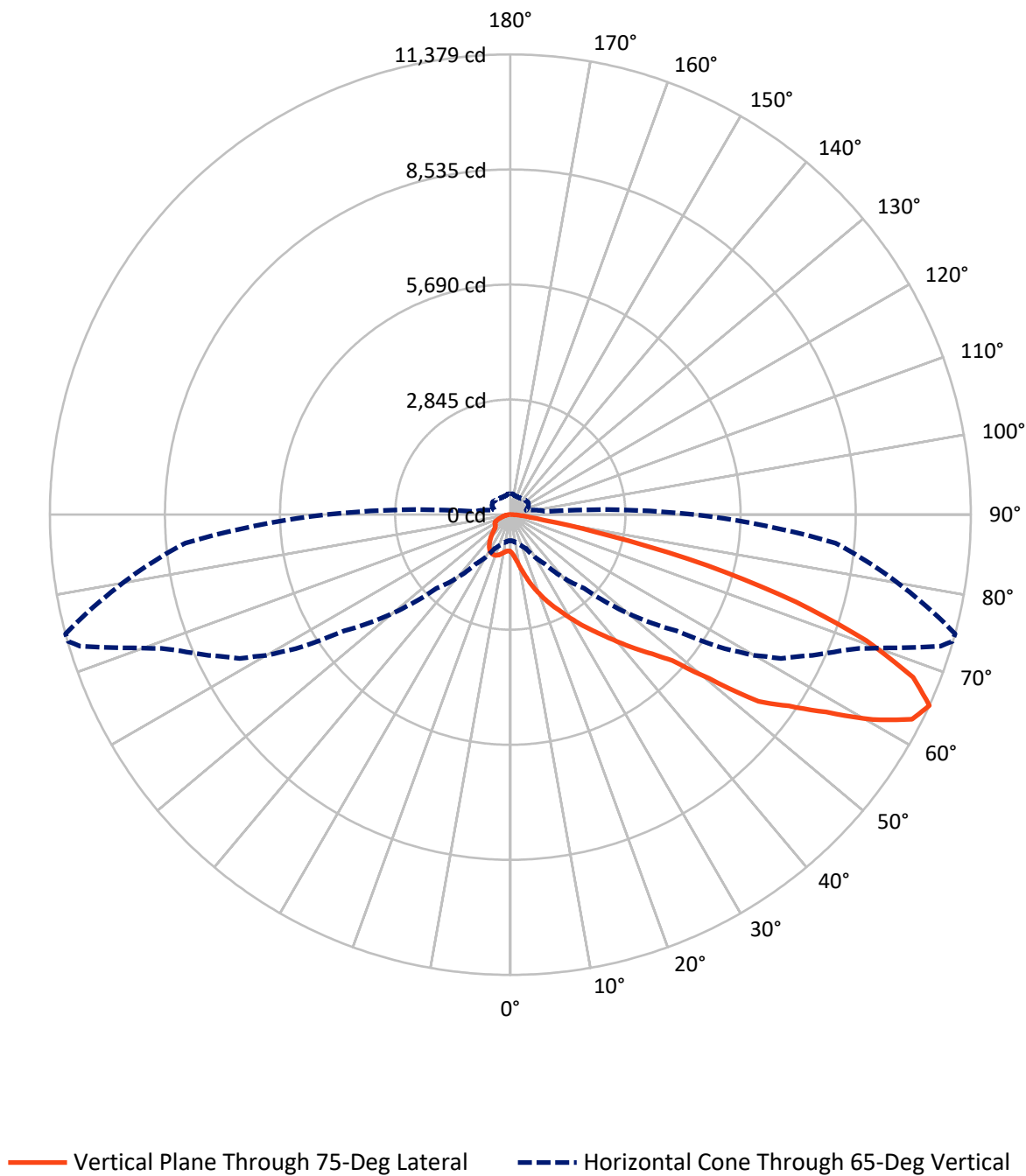


Based on 20 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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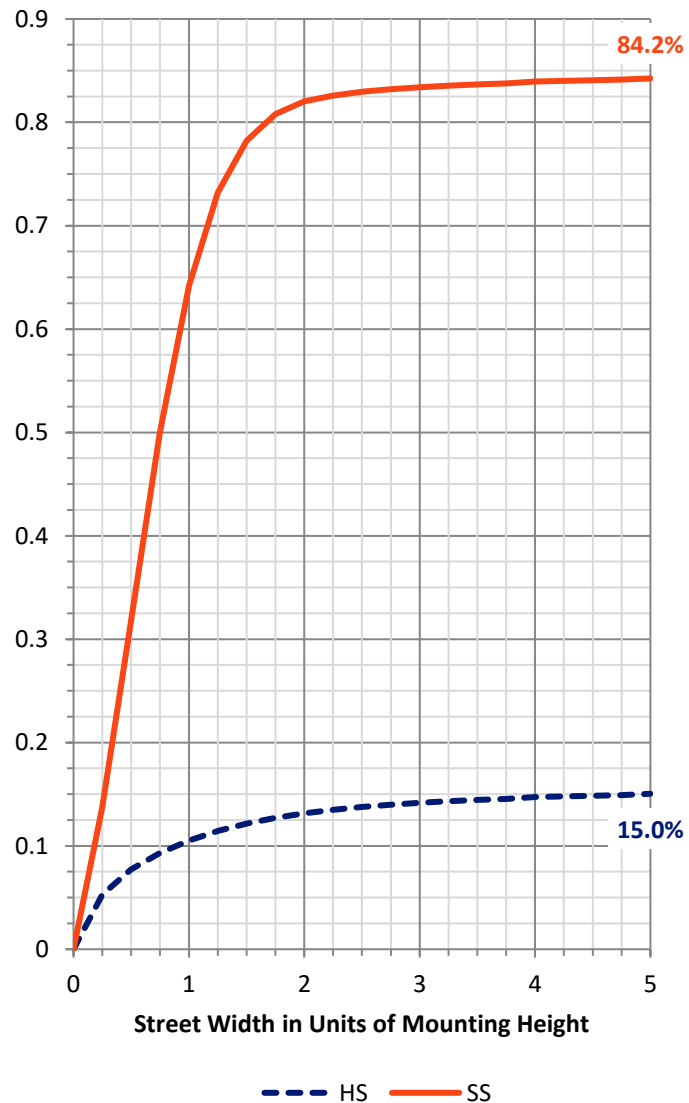
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1733.5	0.0	1733.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	9510.3	0.0	9510.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	11243.8	0.0	11243.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.0
10°-20°	441.3	3.9
20°-30°	905.4	8.1
30°-40°	1523.3	13.5
40°-50°	2104.8	18.7
50°-60°	2627.4	23.4
60°-70°	2364.4	21.0
70°-80°	991.1	8.8
80°-90°	173.1	1.5
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°	11243.8	100.0
0°-180°	11243.8	100.0

Coefficient of Utilization



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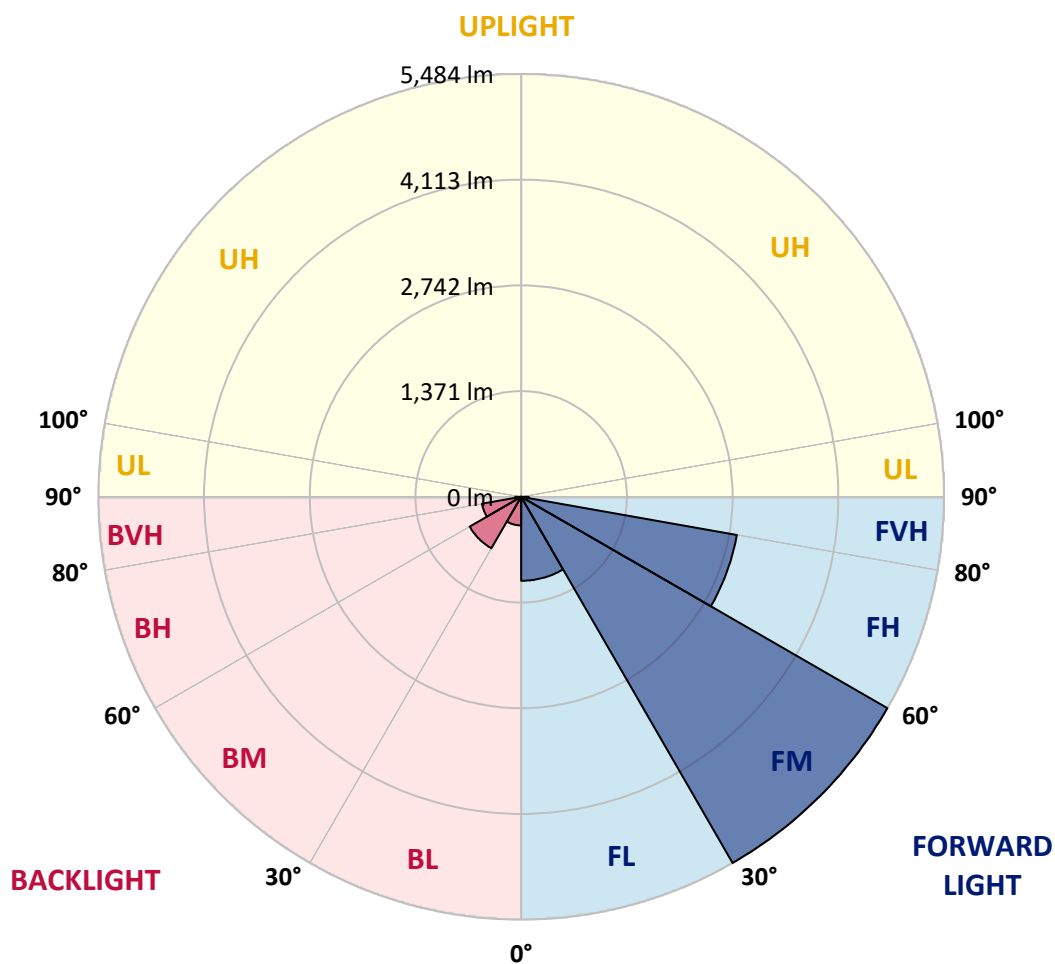
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1088.9	9.7			
FM	(30°-60°)	5483.9	48.8			
FH	(60°-80°)	2840.2	25.3			G2/5000
FVH	(80°-90°)	97.3	0.9			G1/100
BL	(0°-30°)	370.7	3.3	B1/500		
BM	(30°-60°)	771.6	6.9	B1/1000		
BH	(60°-80°)	515.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	75.8	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8
2.5°	1160.3	1147.5	1150.5	1129.3	1103.3	1069.3	1031.4	1030.8	1031.4	1027.8	1013.8
5°	1608.9	1593.5	1587.6	1539.7	1469.4	1369.3	1260.9	1249.1	1244.2	1232.0	1203.8
7.5°	1936.1	1927.7	1918.6	1882.4	1818.4	1706.8	1561.0	1535.9	1511.9	1506.1	1474.2
10°	2147.4	2145.3	2126.1	2116.5	2076.6	1979.8	1837.7	1813.7	1787.6	1778.6	1745.0
12.5°	2314.6	2313.9	2305.0	2307.6	2273.0	2202.7	2080.4	2058.6	2039.3	2011.8	1987.8
15°	2429.9	2430.5	2443.7	2458.8	2453.5	2406.0	2291.0	2281.5	2265.0	2245.9	2217.6
17.5°	2524.7	2527.4	2541.2	2568.3	2597.7	2593.9	2502.9	2495.0	2480.6	2454.4	2439.5
20°	2738.7	2748.8	2722.1	2722.1	2725.4	2739.7	2696.2	2689.7	2669.6	2655.7	2643.9
22.5°	3100.1	3111.8	3051.6	2990.4	2930.4	2886.7	2843.0	2851.0	2837.1	2827.5	2820.7
25°	3569.4	3578.5	3481.1	3377.8	3255.5	3095.7	2987.8	2982.9	2975.5	2969.6	2966.5
27.5°	4011.1	4014.9	3922.8	3771.7	3629.5	3400.2	3134.6	3128.7	3119.8	3108.6	3099.0
30°	4388.9	4388.0	4293.2	4149.0	3996.7	3742.9	3357.7	3339.4	3312.9	3282.5	3259.2
32.5°	4716.3	4714.8	4610.9	4461.4	4301.8	4082.4	3663.1	3625.9	3584.3	3525.3	3489.6
35°	4973.8	4972.8	4874.9	4718.9	4535.9	4402.4	4013.3	3967.5	3914.9	3835.6	3780.6
37.5°	5071.3	5071.3	5016.4	4910.0	4748.3	4656.8	4402.4	4347.0	4290.6	4200.7	4138.9
40°	5014.2	5015.3	5027.2	5007.4	4928.6	4858.5	4765.2	4732.4	4683.9	4602.9	4538.5
42.5°	4823.3	4829.1	4906.8	5002.1	5041.5	5030.2	5087.2	5072.4	5038.2	4976.0	4925.0
45°	4581.1	4599.2	4684.4	4864.2	5072.9	5178.8	5357.0	5358.7	5352.3	5318.8	5279.3
47.5°	4248.5	4274.0	4386.3	4629.5	4999.4	5322.9	5631.1	5645.5	5658.9	5637.0	5618.9
50°	3806.7	3837.1	4005.4	4327.9	4849.9	5472.6	6149.0	6213.8	6274.7	6267.1	6279.3
52.5°	3333.7	3369.4	3575.3	3934.5	4592.9	5507.1	6480.1	6586.0	6691.8	6778.6	6870.6
55°	2906.8	2887.7	3093.7	3471.9	4170.3	5351.3	6777.5	6905.2	7023.4	7129.8	7239.4
57.5°	2328.3	2359.8	2566.3	2940.4	3610.9	4911.2	6982.3	7169.3	7339.0	7515.1	7670.4
60°	1702.0	1733.4	1957.3	2337.4	3003.8	4243.8	6826.0	7109.0	7381.1	7650.9	7861.5
62.5°	1027.8	1051.0	1248.6	1610.4	2316.1	3452.4	6128.7	6500.2	6900.4	7222.9	7546.0
65°	639.8	653.0	725.9	925.0	1487.5	2577.3	5007.4	5412.4	5843.6	6252.7	6588.6
67.5°	523.7	528.5	541.8	584.3	816.9	1680.6	3727.0	4085.6	4474.6	4870.6	5244.2
70°	471.0	467.7	467.7	470.4	523.7	903.7	2440.2	2673.7	2997.9	3342.1	3683.9
72.5°	425.2	422.1	416.2	408.2	427.4	551.4	1261.3	1437.5	1671.0	1977.1	2304.4
75°	382.0	377.8	370.9	360.8	374.1	416.2	605.6	679.6	793.6	956.3	1139.0
77.5°	337.5	332.2	325.6	318.3	335.2	323.6	355.0	381.6	425.2	477.4	546.0
80°	286.9	282.1	279.9	276.1	296.4	246.4	250.6	267.2	292.7	321.0	352.9
82.5°	224.5	224.5	233.1	234.6	257.1	177.2	187.3	201.7	215.1	229.8	244.8
85°	148.0	148.9	177.8	189.0	202.7	119.3	140.6	145.3	155.9	164.5	170.9
87.5°	46.4	50.0	108.5	120.3	116.5	67.6	86.1	88.4	95.8	101.7	107.0
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8
2.5°	1013.8	1007.4	1001.6	1001.0	996.8	990.9	993.0	984.1	984.5	979.8	974.4
5°	1192.1	1187.9	1166.5	1160.7	1144.7	1134.6	1133.0	1111.7	1109.0	1096.8	1083.5
7.5°	1448.6	1434.9	1404.9	1390.7	1363.4	1343.2	1333.7	1305.4	1291.7	1259.8	1245.3
10°	1717.4	1699.9	1663.1	1642.9	1616.8	1584.3	1566.7	1525.9	1509.8	1480.5	1445.5
12.5°	1966.5	1949.0	1911.1	1895.7	1861.1	1826.6	1807.3	1761.0	1740.2	1693.5	1665.7
15°	2197.0	2179.4	2146.3	2130.4	2095.7	2067.5	2042.0	1996.3	1971.8	1928.1	1891.9
17.5°	2420.5	2401.8	2373.1	2358.7	2325.2	2296.3	2268.8	2225.6	2200.6	2157.0	2124.5
20°	2628.0	2614.2	2593.3	2574.3	2540.6	2514.6	2481.6	2444.4	2408.1	2376.2	2345.4
22.5°	2808.9	2803.6	2781.2	2772.7	2744.1	2721.7	2692.8	2656.2	2630.1	2589.6	2560.9
25°	2964.9	2963.2	2952.5	2949.9	2929.7	2908.4	2902.1	2871.7	2847.7	2812.1	2782.3
27.5°	3099.0	3100.6	3098.0	3105.4	3100.1	3090.4	3091.0	3080.8	3067.1	3037.2	3011.2
30°	3248.0	3239.5	3244.3	3254.9	3258.2	3259.2	3276.7	3282.5	3281.5	3261.8	3249.1
32.5°	3458.7	3438.5	3419.8	3418.3	3428.9	3433.2	3463.0	3478.4	3491.7	3496.6	3498.7
35°	3727.4	3687.1	3648.1	3627.4	3609.3	3614.2	3635.4	3660.5	3689.7	3709.9	3733.8
37.5°	4066.0	4016.5	3947.8	3898.9	3886.5	3859.9	3873.9	3893.6	3922.3	3953.7	3995.2
40°	4476.3	4401.2	4324.1	4259.1	4224.0	4175.1	4174.6	4170.8	4188.3	4217.6	4276.2
42.5°	4871.1	4804.7	4722.7	4654.6	4608.8	4543.4	4530.1	4495.5	4503.5	4529.0	4585.8
45°	5241.0	5186.3	5136.1	5057.5	5018.7	4947.9	4925.4	4884.4	4861.5	4873.3	4930.3
47.5°	5599.2	5564.1	5511.9	5460.8	5431.1	5367.7	5338.9	5309.7	5280.4	5279.3	5338.9
50°	6297.5	6278.9	6217.1	6163.9	6178.3	6100.6	6105.3	6026.5	6062.2	6066.4	6191.6
52.5°	6953.7	7018.5	7064.4	7120.2	7156.3	7163.4	7187.2	7222.9	7266.0	7351.2	7467.3
55°	7329.5	7410.7	7458.2	7500.8	7570.9	7585.8	7625.8	7673.2	7711.1	7806.8	7905.3
57.5°	7775.9	7927.1	8000.5	8068.0	8162.8	8199.0	8265.6	8317.1	8366.0	8479.5	8598.7
60°	8051.0	8235.2	8384.7	8491.7	8610.3	8695.6	8796.2	8877.1	8991.9	9127.7	9305.5
62.5°	7832.3	8102.6	8301.1	8484.9	8646.0	8808.9	8953.0	9104.2	9278.9	9484.2	9759.9
65°	6961.1	7236.2	7576.3	7766.8	7980.3	8231.4	8450.7	8695.6	8933.5	9232.5	9640.3
67.5°	5603.9	5923.9	6306.0	6498.1	6743.4	7023.8	7269.8	7568.8	7846.6	8209.2	8713.1
70°	4039.4	4452.9	4774.3	4975.0	5261.3	5550.3	5787.6	6135.7	6365.6	6737.1	7258.0
72.5°	2557.7	2884.0	3277.7	3530.6	3785.0	4077.6	4320.4	4620.5	4834.9	5173.5	5645.5
75°	1375.1	1615.7	1961.7	2201.7	2474.2	2724.3	3008.6	3209.6	3368.3	3636.0	4019.1
77.5°	644.4	790.9	965.9	1150.5	1335.3	1527.9	1715.3	1878.1	1946.3	2099.5	2325.7
80°	391.1	438.6	489.7	546.6	623.8	685.9	768.5	828.1	832.4	880.8	950.0
82.5°	261.2	278.8	294.4	308.7	328.4	343.8	361.4	382.0	390.7	401.8	424.2
85°	178.3	186.8	190.0	199.1	196.9	202.2	209.1	216.0	219.7	219.2	229.3
87.5°	109.7	113.8	116.1	118.1	116.5	114.4	117.6	121.4	122.3	119.3	120.3
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8	913.8
2.5°	975.5	970.7	965.9	962.8	961.6	933.5	921.2	913.2	896.1	882.3	871.1
5°	1076.1	1066.0	1058.1	1048.4	1043.1	971.7	945.7	927.6	897.9	880.2	864.3
7.5°	1237.9	1209.7	1193.2	1174.5	1158.5	1029.7	986.7	958.5	917.0	893.5	875.5
10°	1421.5	1392.3	1366.1	1337.3	1312.5	1107.0	1044.2	1000.5	945.7	915.4	891.4
12.5°	1626.4	1597.6	1564.7	1527.9	1495.9	1204.8	1117.6	1055.4	980.3	939.8	906.3
15°	1868.6	1818.0	1778.0	1735.4	1698.2	1321.9	1203.3	1117.1	1017.1	962.3	917.4
17.5°	2093.7	2040.4	1986.2	1949.0	1905.8	1453.4	1289.4	1179.8	1047.3	976.5	919.7
20°	2313.4	2255.5	2208.7	2158.5	2113.4	1589.7	1381.6	1235.2	1067.0	977.0	906.3
22.5°	2507.2	2471.0	2418.9	2364.6	2318.7	1726.0	1467.8	1282.1	1074.6	964.9	882.9
25°	2727.6	2689.2	2625.2	2579.6	2528.5	1864.8	1552.5	1318.3	1070.2	942.1	846.7
27.5°	2962.7	2920.1	2854.8	2806.8	2745.1	2009.0	1630.2	1344.4	1054.3	904.8	798.4
30°	3208.0	3169.2	3104.8	3056.5	2994.1	2161.9	1716.9	1361.9	1022.4	853.1	741.9
32.5°	3471.5	3439.0	3375.2	3324.5	3258.2	2327.2	1797.8	1367.2	973.9	791.9	682.3
35°	3721.7	3699.3	3645.5	3598.3	3529.0	2483.8	1883.4	1364.5	916.5	724.8	627.9
37.5°	4003.1	3989.8	3963.2	3903.1	3818.4	2696.2	1986.2	1353.3	846.3	658.3	586.5
40°	4303.3	4304.4	4275.7	4234.7	4155.9	2953.6	2108.5	1331.6	769.6	599.8	548.7
42.5°	4621.1	4637.5	4623.7	4594.4	4518.8	3213.3	2254.9	1305.0	695.1	542.8	511.5
45°	4985.1	5005.3	5026.6	4983.4	4910.0	3556.1	2447.5	1270.4	614.7	495.4	486.0
47.5°	5404.9	5436.9	5456.0	5456.6	5383.2	3980.7	2760.5	1249.6	543.4	463.5	473.6
50°	6291.1	6301.3	6346.4	6425.1	6368.8	4963.8	3307.1	1236.8	495.0	443.9	464.7
52.5°	7567.9	7679.0	7757.3	7752.0	7675.3	5588.0	3608.3	1170.9	466.2	436.3	460.3
55°	8087.8	8226.7	8371.5	8409.8	8350.1	6120.8	3893.1	1104.8	452.3	441.7	462.0
57.5°	8780.8	9014.9	9213.3	9296.9	9210.7	6802.5	4267.7	1070.2	448.2	456.1	472.1
60°	9590.1	9879.6	10140.4	10290.5	10290.5	7585.8	4656.2	1055.9	442.2	477.4	489.0
62.5°	10110.2	10535.3	10929.1	11149.0	11142.5	8131.4	4828.6	1006.9	428.9	492.4	512.6
65°	10112.2	10617.7	11119.7	11366.7	11379.4	8064.4	4543.8	889.3	404.4	494.3	535.8
67.5°	9269.3	9808.4	10393.2	10669.3	10733.3	7423.6	3933.5	731.2	364.5	473.0	544.5
70°	7828.5	8355.0	8952.1	9223.4	9336.9	6328.3	3168.1	563.5	313.5	426.2	526.9
72.5°	6167.7	6683.7	7099.5	7298.0	7386.4	4837.2	2307.0	425.7	257.1	359.2	479.5
75°	4366.7	4754.1	4975.0	5019.1	5032.9	2915.9	1401.7	316.7	211.8	279.5	405.0
77.5°	2464.6	2630.6	2612.5	2632.3	2468.4	1125.5	610.4	226.7	174.6	212.4	314.0
80°	962.3	992.0	931.9	913.2	837.7	418.8	269.3	158.0	139.4	160.7	219.7
82.5°	424.2	438.1	425.2	428.4	409.7	216.0	161.2	114.4	106.4	117.6	145.9
85°	233.6	238.0	236.9	243.7	233.6	86.1	76.6	70.2	74.5	79.8	93.7
87.5°	113.8	115.0	111.2	117.0	113.4	43.7	37.8	40.0	43.7	44.6	44.6
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):

	135°	145°	155°	165°	175°	180°
0°	913.8	913.8	913.8	913.8	913.8	913.8
2.5°	863.2	859.0	859.5	858.4	856.4	856.4
5°	855.7	851.6	851.6	850.4	847.8	848.3
7.5°	863.2	856.4	853.6	849.9	846.3	846.3
10°	871.7	859.5	852.0	845.7	840.9	840.9
12.5°	878.2	859.0	846.7	838.2	833.4	833.4
15°	880.2	855.2	838.2	828.1	823.8	823.2
17.5°	873.3	840.9	820.2	808.5	803.1	801.5
20°	852.0	814.9	789.8	776.5	768.9	766.3
22.5°	820.2	777.6	748.3	734.5	724.8	723.2
25°	775.3	729.7	700.9	687.7	682.3	680.6
27.5°	723.2	680.6	656.2	647.7	642.8	642.4
30°	673.8	637.5	619.6	613.2	607.3	606.1
32.5°	627.5	604.6	597.6	588.6	574.7	573.2
35°	594.5	592.3	587.5	567.3	550.3	545.5
37.5°	574.2	593.9	569.4	529.6	517.3	516.3
40°	562.5	577.4	535.4	521.6	522.6	521.6
42.5°	535.8	551.4	536.5	530.1	534.3	535.4
45°	509.2	526.3	544.5	540.2	550.3	550.3
47.5°	494.3	519.9	544.0	544.0	558.7	564.1
50°	477.4	514.5	535.4	542.8	554.6	550.3
52.5°	476.3	505.6	523.2	536.5	541.8	536.9
55°	477.9	498.1	510.9	525.8	532.2	532.8
57.5°	480.1	493.9	502.4	509.2	528.5	528.5
60°	485.4	490.1	495.0	498.6	523.7	524.3
62.5°	493.9	486.4	485.4	489.0	520.9	519.0
65°	507.3	481.1	473.0	476.8	518.3	511.9
67.5°	525.2	473.0	457.6	460.3	516.3	502.4
70°	541.8	460.3	438.6	435.9	496.0	471.5
72.5°	543.4	445.5	412.0	404.0	431.0	407.7
75°	516.7	435.3	382.7	359.2	356.1	352.9
77.5°	465.7	429.5	348.6	311.9	305.5	307.6
80°	389.5	407.7	307.6	263.9	298.5	294.9
82.5°	291.1	359.9	261.2	233.6	233.1	205.9
85°	161.8	280.5	212.9	175.1	121.9	118.1
87.5°	45.3	155.9	148.9	99.1	67.6	70.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)