

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: P266783

Luminaire Tested: **GAN-AF-03-LED-U-T2R-7027-1200-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266783
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: GAN-AF-03-LED-U-T2R-7027-1200-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18044.5 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 191
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

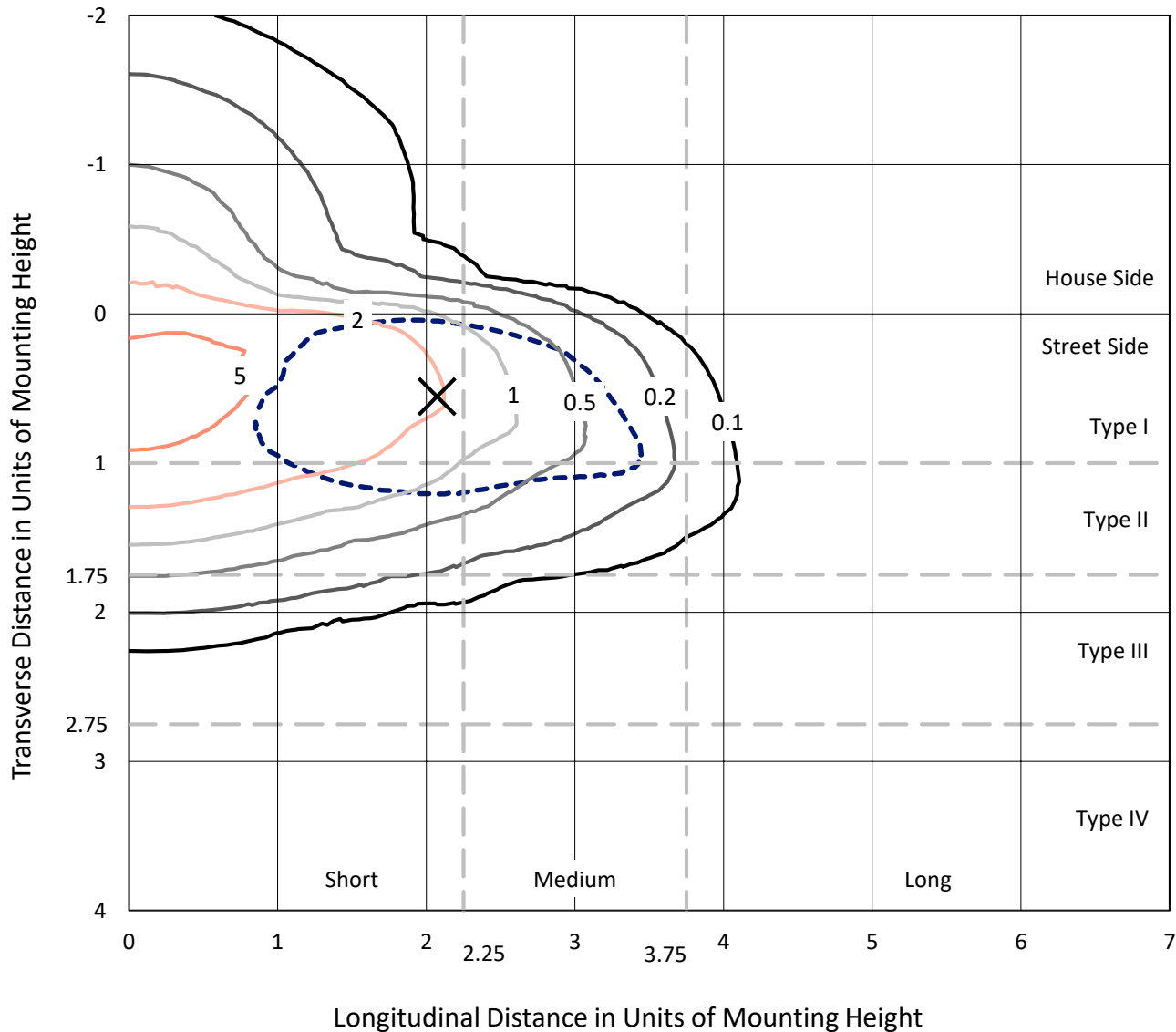


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

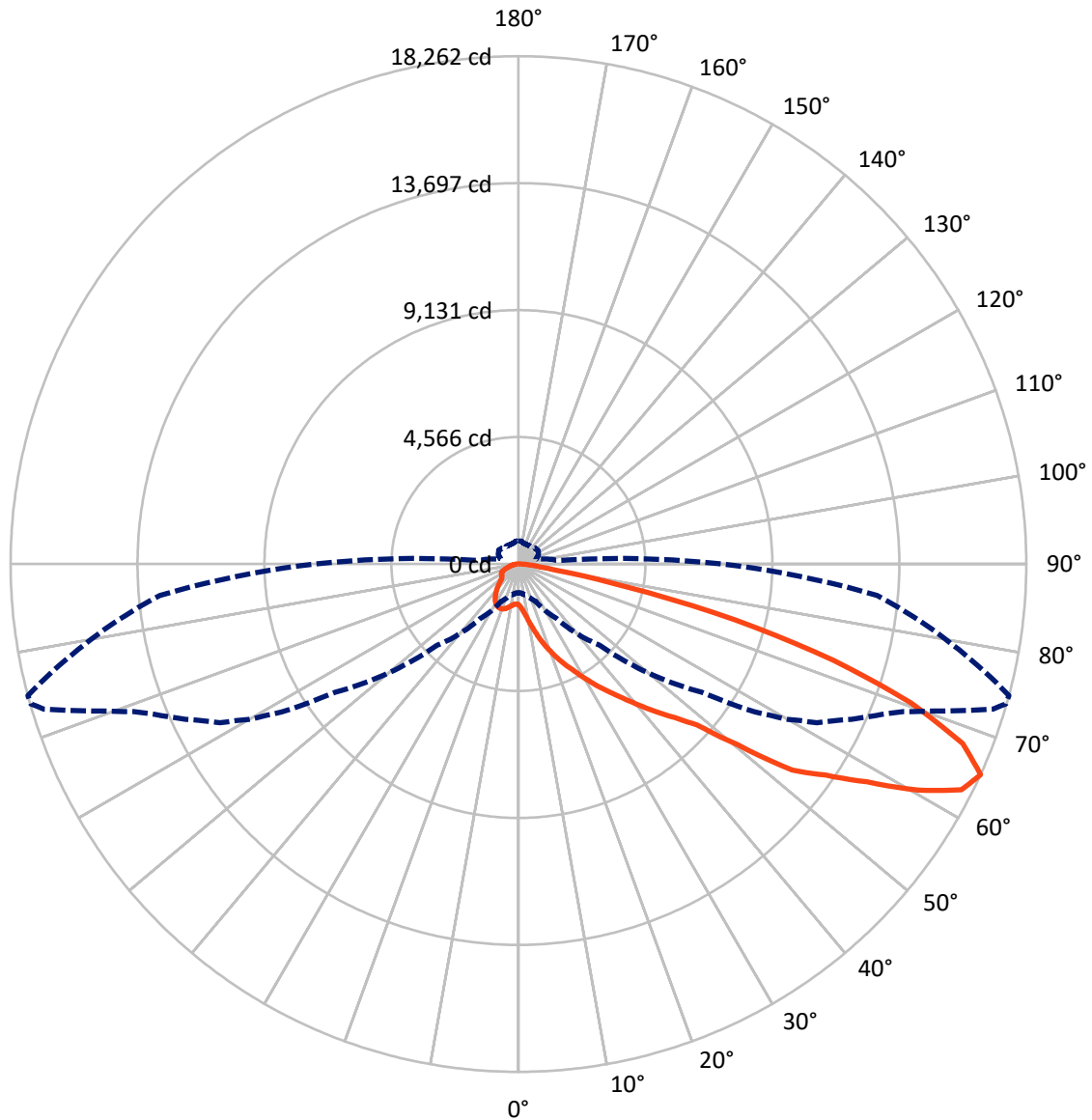


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2782.1	0.0	2782.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	15262.5	0.0	15262.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	18044.5	0.0	18044.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	1.0
10°-20°	708.2	3.9
20°-30°	1453.0	8.1
30°-40°	2444.7	13.5
40°-50°	3377.8	18.7
50°-60°	4216.6	23.4
60°-70°	3794.5	21.0
70°-80°	1590.6	8.8
80°-90°	277.9	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°	18044.5	100.0
0°-180°	18044.5	100.0

Coefficient of Utilization



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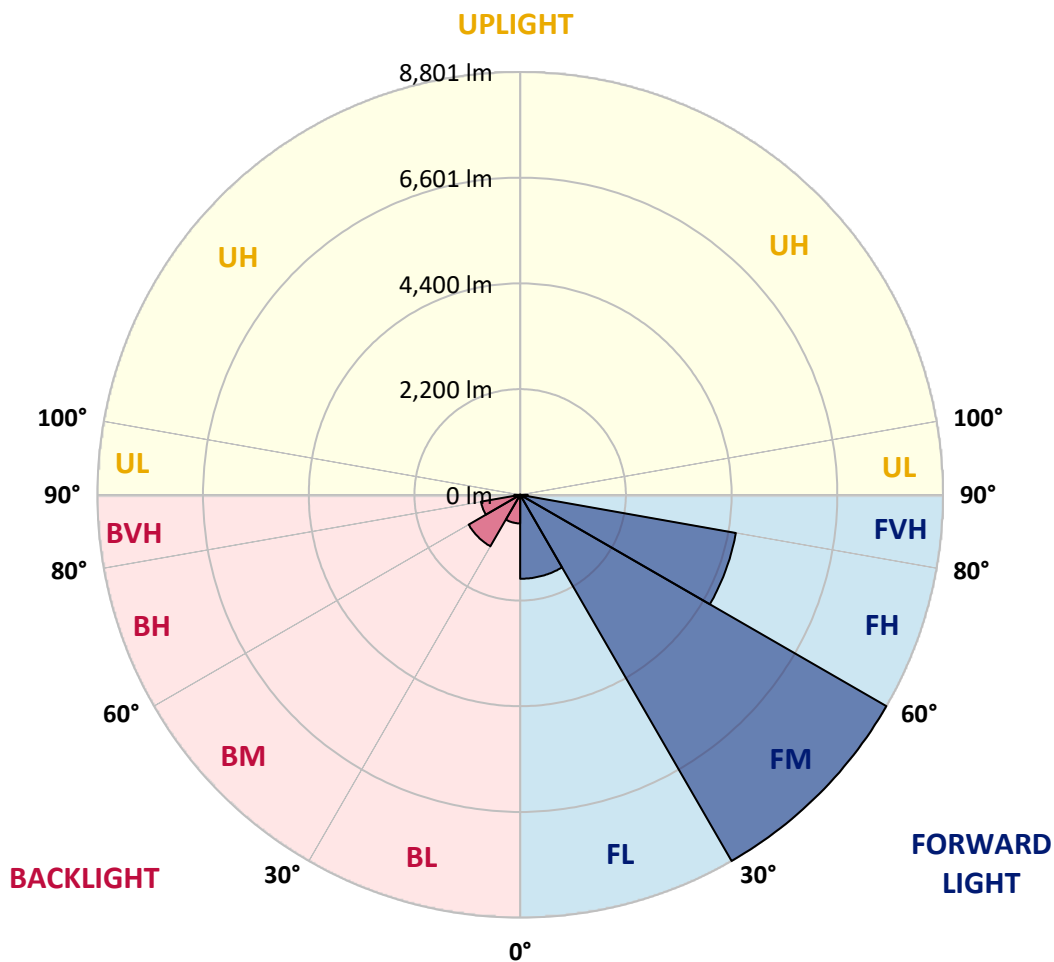
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1747.6	9.7			
FM (30°-60°)	8800.8	48.8			
FH (60°-80°)	4558.0	25.3			G2/5000
FVH (80°-90°)	156.2	0.9			G2/225
BL (0°-30°)	595.0	3.3	B2/1000		
BM (30°-60°)	1238.3	6.9	B2/2500		
BH (60°-80°)	827.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	121.7	0.7			G2/225
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°	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5
2.5°	1861.8	1841.4	1846.6	1812.4	1770.5	1715.9	1655.1	1654.4	1655.1	1649.3	1627.0
5°	2581.9	2557.1	2547.8	2470.9	2358.1	2197.6	2023.3	2004.6	1996.8	1977.2	1932.0
7.5°	3107.1	3093.6	3079.0	3020.9	2918.5	2739.0	2505.1	2464.9	2426.4	2417.1	2365.9
10°	3446.3	3442.8	3412.0	3396.8	3332.6	3177.1	2949.1	2910.7	2868.8	2854.4	2800.6
12.5°	3714.4	3713.6	3699.0	3703.4	3647.7	3535.1	3338.6	3303.5	3272.9	3228.5	3190.1
15°	3899.7	3900.6	3922.0	3945.9	3937.4	3861.4	3676.9	3661.4	3635.0	3604.2	3558.9
17.5°	4051.7	4056.0	4078.2	4121.9	4168.8	4162.8	4016.7	4003.9	3980.8	3939.1	3915.2
20°	4395.0	4411.3	4368.6	4368.6	4373.8	4396.8	4326.7	4316.5	4284.0	4261.9	4243.1
22.5°	4975.1	4993.9	4897.3	4799.1	4702.5	4632.6	4562.5	4575.3	4553.1	4537.8	4526.6
25°	5728.3	5742.9	5586.6	5420.9	5224.5	4968.3	4794.9	4787.2	4775.2	4765.8	4760.7
27.5°	6437.3	6443.3	6295.4	6052.9	5824.9	5456.8	5030.6	5021.2	5006.7	4988.6	4973.3
30°	7043.6	7042.0	6889.9	6658.4	6414.2	6006.7	5388.5	5359.4	5316.7	5268.0	5230.4
32.5°	7568.8	7566.3	7399.8	7159.9	6903.6	6551.7	5878.7	5819.0	5752.2	5657.4	5600.3
35°	7982.2	7980.5	7823.3	7573.3	7279.3	7065.0	6440.7	6367.1	6282.7	6155.4	6067.4
37.5°	8138.6	8138.6	8050.6	7879.8	7620.1	7473.2	7065.0	6976.1	6885.7	6741.3	6642.2
40°	8047.1	8049.0	8067.7	8036.1	7909.7	7797.0	7647.5	7594.5	7516.7	7387.0	7283.6
42.5°	7740.5	7749.9	7874.6	8027.6	8090.8	8072.8	8164.2	8140.4	8085.6	7985.8	7903.6
45°	7352.0	7381.1	7517.6	7806.4	8141.1	8311.1	8597.1	8599.7	8589.6	8535.8	8472.5
47.5°	6818.1	6859.2	7039.4	7429.7	8023.3	8542.5	9037.0	9060.1	9081.4	9046.6	9017.5
50°	6109.3	6157.9	6427.8	6945.4	7783.3	8782.5	9868.2	9972.4	10069.7	10057.8	10077.4
52.5°	5349.9	5407.2	5737.7	6314.2	7370.8	8838.1	10399.4	10569.3	10739.2	10878.5	11026.2
55°	4665.0	4634.3	4964.8	5572.0	6692.6	8587.8	10876.8	11081.8	11271.4	11442.3	11618.0
57.5°	3736.6	3787.1	4118.4	4718.8	5795.0	7881.5	11205.5	11505.4	11777.9	12060.6	12310.0
60°	2731.3	2781.7	3141.4	3751.1	4820.5	6810.5	10954.6	11408.8	11845.3	12278.4	12616.5
62.5°	1649.3	1686.7	2003.7	2584.5	3716.9	5540.4	9835.6	10431.7	11074.0	11591.6	12110.1
65°	1026.7	1048.0	1165.0	1484.4	2387.2	4136.3	8036.1	8686.0	9377.9	10034.6	10573.6
67.5°	840.5	848.1	869.5	937.8	1311.0	2697.3	5981.2	6556.8	7181.1	7816.6	8416.1
70°	755.8	750.8	750.8	755.0	840.5	1450.3	3916.0	4290.9	4811.1	5363.7	5911.9
72.5°	682.4	677.3	667.9	655.0	685.9	884.8	2024.2	2306.8	2681.8	3173.0	3698.2
75°	613.3	606.4	595.2	579.0	600.4	667.9	972.0	1090.6	1273.4	1534.8	1827.7
77.5°	541.5	533.0	522.8	510.7	538.1	519.3	569.6	612.4	682.4	766.2	876.2
80°	460.3	452.7	449.2	443.3	475.7	395.4	402.4	428.8	469.8	515.0	566.2
82.5°	360.4	360.4	374.1	376.7	412.5	284.5	300.7	323.7	345.0	368.9	392.9
85°	237.4	239.2	285.2	303.2	325.4	191.2	225.5	233.2	250.3	263.9	274.2
87.5°	74.3	80.3	174.2	193.0	187.0	108.4	138.3	141.8	153.7	163.1	171.7
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°	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5
2.5°	1627.0	1616.8	1607.3	1606.4	1599.7	1590.3	1593.8	1579.2	1580.1	1572.4	1563.8
5°	1913.1	1906.4	1872.2	1862.7	1837.2	1821.0	1818.3	1784.2	1779.9	1760.3	1738.8
7.5°	2324.9	2302.6	2254.7	2231.7	2188.2	2155.8	2140.3	2095.0	2072.8	2021.6	1998.5
10°	2756.1	2728.0	2669.0	2636.5	2594.8	2542.7	2514.4	2448.7	2423.1	2376.0	2319.8
12.5°	3155.8	3127.7	3067.1	3042.3	2986.8	2931.2	2900.4	2826.2	2792.9	2717.7	2673.3
15°	3525.7	3497.6	3444.6	3418.9	3363.3	3318.1	3277.1	3203.6	3164.4	3094.3	3036.4
17.5°	3884.5	3854.4	3808.4	3785.3	3731.5	3685.3	3641.0	3571.8	3531.6	3461.6	3409.4
20°	4217.5	4195.3	4161.9	4131.2	4077.3	4035.5	3982.5	3922.8	3864.8	3813.5	3764.0
22.5°	4507.9	4499.3	4463.5	4449.8	4403.6	4367.7	4321.7	4262.7	4220.9	4156.0	4109.8
25°	4758.1	4755.5	4738.5	4734.2	4701.6	4667.6	4657.4	4608.7	4570.1	4512.9	4465.1
27.5°	4973.3	4975.9	4971.6	4983.5	4975.1	4959.6	4960.5	4944.4	4922.2	4874.3	4832.4
30°	5212.4	5198.9	5206.4	5223.6	5228.8	5230.4	5258.6	5268.0	5266.4	5234.8	5214.2
32.5°	5550.6	5518.3	5488.4	5485.8	5502.8	5509.8	5557.5	5582.2	5603.6	5611.4	5614.8
35°	5982.1	5917.0	5854.8	5821.5	5792.5	5800.0	5834.2	5874.3	5921.4	5953.8	5992.2
37.5°	6525.2	6445.8	6335.6	6257.1	6237.4	6194.7	6216.9	6248.5	6294.7	6345.0	6411.7
40°	7183.7	7063.4	6939.4	6835.3	6778.9	6700.3	6699.4	6693.5	6721.7	6768.5	6862.6
42.5°	7817.4	7710.7	7579.2	7469.9	7396.4	7291.4	7270.0	7214.5	7227.3	7268.2	7359.6
45°	8411.0	8323.1	8242.8	8116.4	8054.1	7940.4	7904.5	7838.8	7802.0	7820.9	7912.2
47.5°	8985.8	8929.4	8845.8	8763.8	8716.0	8614.2	8568.2	8521.2	8474.3	8472.5	8568.2
50°	10106.4	10076.5	9977.5	9892.0	9915.0	9790.4	9798.1	9671.6	9728.9	9735.7	9936.4
52.5°	11159.5	11263.7	11337.1	11426.8	11484.9	11496.0	11534.3	11591.6	11660.8	11797.5	11983.7
55°	11762.4	11893.1	11969.1	12037.5	12150.2	12174.1	12238.1	12314.1	12374.8	12528.7	12686.6
57.5°	12479.1	12721.5	12839.5	12947.9	13100.0	13158.1	13264.8	13347.6	13426.2	13608.2	13799.5
60°	12920.6	13216.1	13456.2	13627.7	13818.3	13954.9	14116.3	14246.1	14430.6	14648.4	14933.7
62.5°	12569.5	13003.4	13322.0	13616.7	13875.5	14136.7	14368.3	14610.8	14890.9	15220.6	15663.0
65°	11171.4	11613.0	12158.7	12464.5	12807.0	13210.1	13562.0	13954.9	14336.7	14816.6	15470.9
67.5°	8993.6	9506.9	10120.0	10428.3	10822.2	11272.2	11666.7	12146.8	12592.6	13174.3	13983.0
70°	6482.4	7146.1	7662.1	7984.0	8443.4	8907.2	9288.1	9846.7	10215.7	10811.9	11648.1
72.5°	4104.7	4628.2	5260.4	5666.0	6074.2	6544.1	6933.5	7415.1	7759.4	8302.6	9060.1
75°	2207.0	2593.0	3148.2	3533.4	3970.7	4372.1	4828.1	5151.1	5405.6	5835.1	6450.0
77.5°	1034.3	1269.1	1550.1	1846.6	2142.8	2452.1	2752.8	3014.1	3123.3	3369.4	3732.4
80°	627.7	703.7	785.7	877.1	1001.0	1101.0	1233.4	1329.0	1335.8	1413.6	1524.6
82.5°	419.4	447.5	472.2	495.3	526.9	551.6	579.9	613.3	626.8	644.9	680.6
85°	286.1	299.8	305.0	319.4	316.1	324.6	335.6	346.7	352.8	351.9	368.1
87.5°	176.0	182.7	186.2	189.6	187.0	183.7	188.7	194.8	196.4	191.2	193.0
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5
2.5°	1565.6	1557.8	1550.1	1545.1	1543.4	1498.1	1478.4	1465.7	1438.2	1416.1	1398.1
5°	1726.9	1710.7	1697.9	1682.5	1674.0	1559.5	1517.6	1488.8	1440.8	1412.7	1387.1
7.5°	1986.6	1941.3	1914.8	1885.0	1859.3	1652.6	1583.5	1538.2	1471.7	1434.1	1404.9
10°	2281.2	2234.3	2192.5	2146.3	2106.2	1776.5	1675.7	1605.7	1517.6	1469.0	1430.6
12.5°	2610.0	2563.9	2511.0	2452.1	2400.8	1933.6	1793.6	1693.7	1573.2	1508.3	1454.5
15°	2998.7	2917.5	2853.5	2785.1	2725.4	2121.5	1931.0	1792.7	1632.2	1544.1	1472.4
17.5°	3360.0	3274.5	3187.5	3127.7	3058.5	2332.4	2069.4	1893.4	1680.9	1567.3	1475.8
20°	3712.8	3619.6	3544.4	3464.1	3391.6	2551.1	2217.1	1982.3	1712.4	1568.1	1454.5
22.5°	4023.6	3965.5	3881.8	3794.7	3721.3	2769.8	2355.5	2057.5	1724.3	1548.5	1416.9
25°	4377.3	4315.6	4213.2	4139.7	4057.7	2992.8	2491.4	2115.6	1717.6	1511.8	1358.9
27.5°	4754.6	4686.4	4581.4	4504.5	4405.4	3224.1	2616.0	2157.4	1692.0	1451.9	1281.2
30°	5148.5	5086.1	4982.7	4905.0	4805.0	3469.3	2755.3	2185.5	1640.8	1369.0	1190.7
32.5°	5571.2	5519.0	5416.6	5335.5	5228.8	3735.0	2885.0	2194.1	1563.1	1270.9	1094.9
35°	5972.7	5936.8	5850.5	5774.5	5663.5	3986.0	3022.5	2189.9	1470.7	1163.2	1007.8
37.5°	6424.4	6403.1	6360.4	6263.8	6128.1	4326.7	3187.5	2171.9	1358.0	1056.4	941.2
40°	6906.1	6907.8	6861.8	6795.9	6669.6	4740.1	3383.8	2136.9	1235.0	962.5	880.6
42.5°	7416.0	7442.5	7420.3	7373.3	7252.0	5157.0	3618.7	2094.2	1115.4	871.1	820.8
45°	8000.2	8032.6	8066.8	7997.7	7879.8	5707.0	3927.8	2038.8	986.5	795.2	779.8
47.5°	8674.0	8725.3	8756.0	8756.9	8639.1	6388.6	4430.1	2005.3	872.1	743.8	760.1
50°	10096.1	10112.4	10185.0	10311.4	10220.8	7966.1	5307.2	1984.8	794.3	712.3	745.7
52.5°	12145.1	12323.6	12449.2	12440.5	12317.6	8967.9	5790.7	1879.0	748.2	700.4	738.8
55°	12979.5	13202.4	13434.7	13496.2	13400.6	9822.8	6247.6	1773.1	726.0	708.9	741.3
57.5°	14091.5	14467.4	14785.9	14919.9	14781.6	10916.9	6848.9	1717.6	719.2	731.9	757.6
60°	15390.7	15855.3	16273.8	16514.6	16514.6	12174.1	7472.5	1694.6	709.8	766.2	784.8
62.5°	16225.0	16907.4	17539.4	17892.3	17882.0	13049.6	7749.0	1616.0	688.5	790.0	822.5
65°	16228.5	17039.9	17845.3	18241.5	18262.1	12941.9	7292.3	1427.1	649.1	793.5	860.0
67.5°	14875.7	15740.8	16679.4	17122.8	17225.2	11913.6	6312.5	1173.5	585.1	759.2	873.7
70°	12563.5	13408.3	14366.6	14802.1	14984.1	10155.9	5084.3	904.5	503.1	684.1	845.6
72.5°	9898.0	10726.4	11393.6	11712.0	11853.9	7762.8	3702.5	683.3	412.5	576.5	769.5
75°	7007.8	7629.6	7984.0	8054.9	8077.1	4679.5	2249.6	508.3	339.9	448.4	650.0
77.5°	3955.2	4221.8	4192.7	4224.3	3961.3	1806.4	979.6	363.9	280.1	340.7	503.9
80°	1544.1	1592.1	1495.5	1465.7	1344.4	672.1	432.2	253.6	223.8	258.0	352.8
82.5°	680.6	703.0	682.4	687.6	657.6	346.7	258.8	183.7	170.8	188.7	234.0
85°	375.0	381.8	380.1	391.2	375.0	138.3	123.0	112.7	119.6	128.1	150.3
87.5°	182.7	184.5	178.6	187.8	181.9	70.1	60.6	64.0	70.1	71.8	71.8
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°	1466.5	1466.5	1466.5	1466.5	1466.5	1466.5
2.5°	1385.4	1378.4	1379.3	1377.6	1374.2	1374.2
5°	1373.4	1366.5	1366.5	1364.9	1360.6	1361.4
7.5°	1385.4	1374.2	1369.9	1363.9	1358.0	1358.0
10°	1399.0	1379.3	1367.4	1357.1	1349.4	1349.4
12.5°	1409.3	1378.4	1358.9	1345.2	1337.4	1337.4
15°	1412.7	1372.5	1345.2	1329.0	1322.1	1321.2
17.5°	1401.5	1349.4	1316.1	1297.3	1288.8	1286.3
20°	1367.4	1307.7	1267.5	1246.0	1234.1	1229.9
22.5°	1316.1	1247.8	1200.9	1178.7	1163.2	1160.7
25°	1244.4	1170.9	1124.9	1103.5	1094.9	1092.3
27.5°	1160.7	1092.3	1053.2	1039.3	1031.8	1030.8
30°	1081.3	1023.2	994.2	984.0	974.5	972.9
32.5°	1007.0	970.2	959.1	944.6	922.4	919.9
35°	954.0	950.5	943.0	910.4	883.2	875.5
37.5°	921.5	953.1	913.8	849.7	830.2	828.4
40°	902.7	926.7	859.1	837.0	838.7	837.0
42.5°	860.0	884.8	860.9	850.7	857.5	859.1
45°	817.4	844.6	873.7	867.0	883.2	883.2
47.5°	793.5	834.4	872.9	872.9	896.8	905.3
50°	766.2	825.9	859.1	871.1	890.0	883.2
52.5°	764.4	811.3	839.6	860.9	869.5	861.7
55°	767.0	799.4	820.0	843.9	854.1	854.9
57.5°	770.3	792.6	806.3	817.4	848.1	848.1
60°	778.9	786.6	794.3	800.3	840.5	841.3
62.5°	792.6	780.6	778.9	784.8	836.1	832.6
65°	814.0	772.2	759.2	765.3	831.9	821.6
67.5°	843.0	759.2	734.5	738.8	828.4	806.3
70°	869.5	738.8	703.7	699.5	796.0	756.7
72.5°	872.1	715.0	661.1	648.2	691.9	654.2
75°	829.3	698.6	614.1	576.5	571.4	566.2
77.5°	747.3	689.3	559.5	500.4	490.3	493.7
80°	625.2	654.2	493.7	423.6	479.2	473.1
82.5°	467.2	577.4	419.4	375.0	374.1	330.5
85°	259.6	450.1	341.6	281.0	195.7	189.6
87.5°	72.7	250.3	239.2	158.9	108.4	112.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)