

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: P193085

Luminaire Tested: **GAN-AF-07-LED-U-SLR-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193085
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-SLR-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39255.7 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 448
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

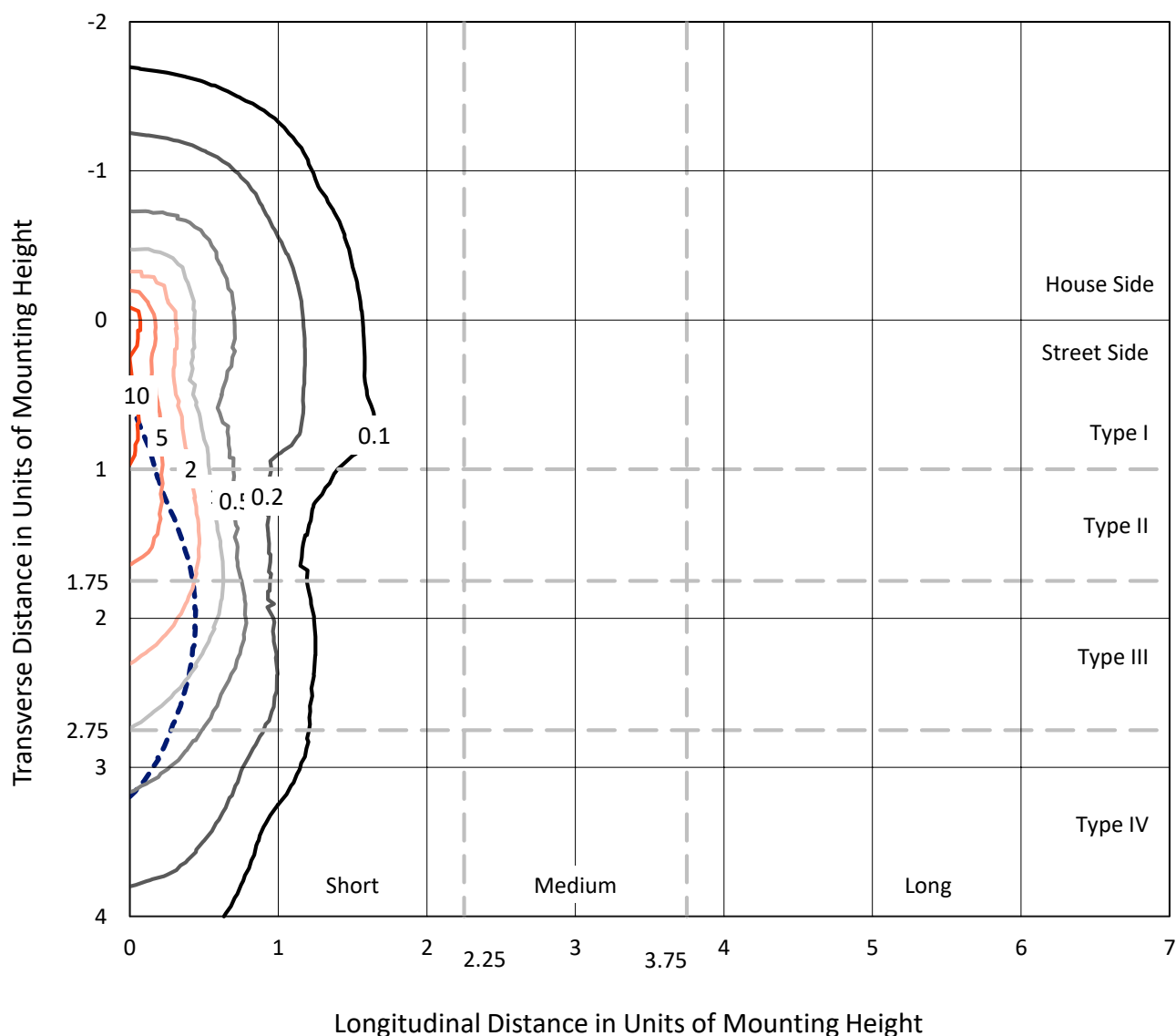


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

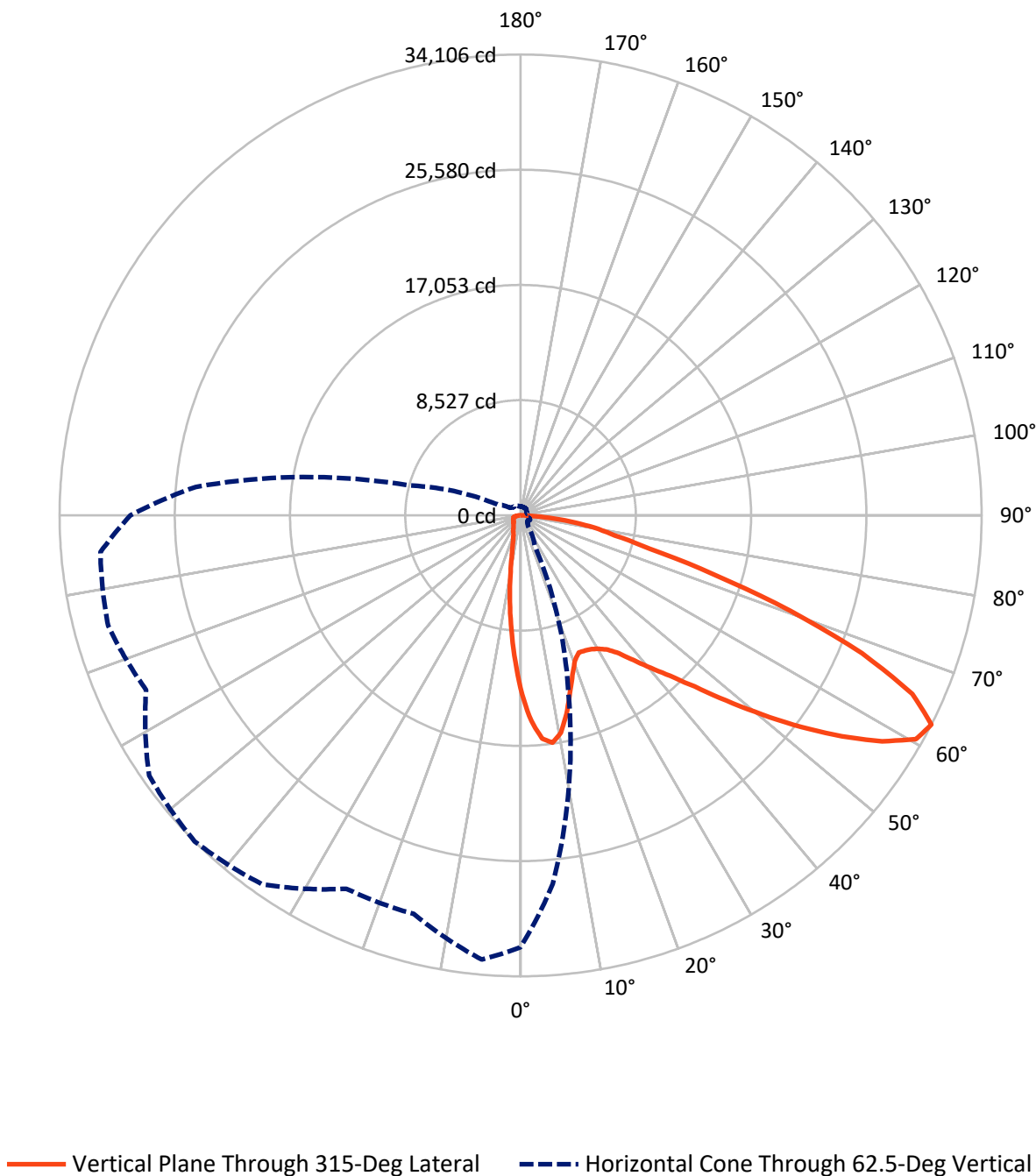


Based on 30 foot mounting height. Maximum calculated value = 14.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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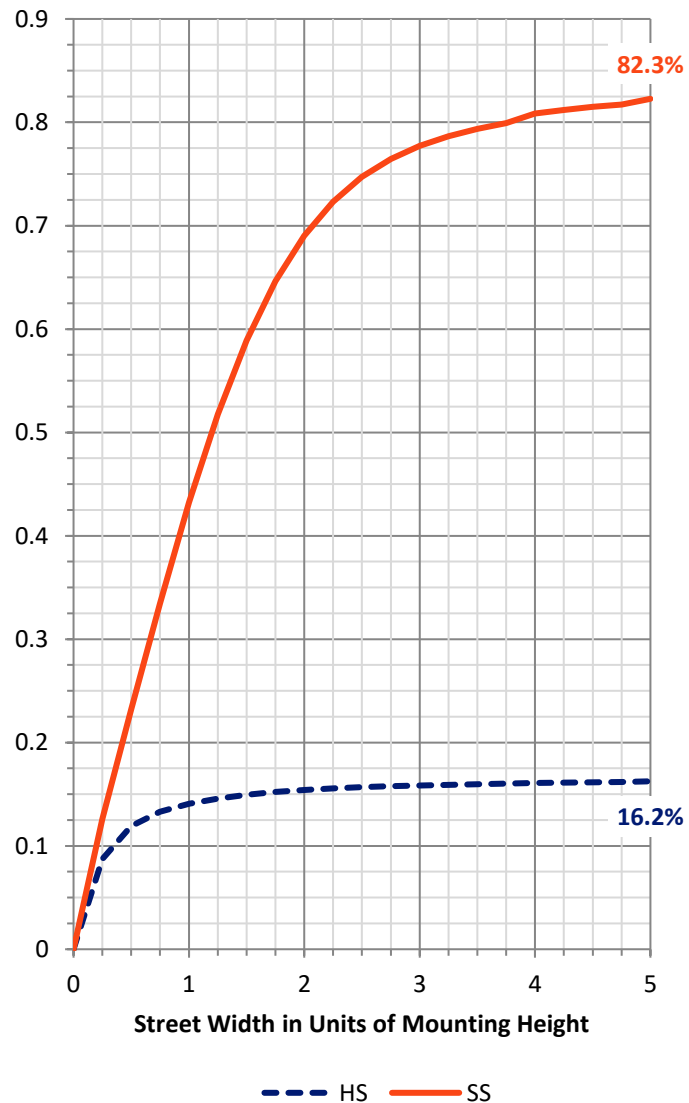
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6496.3	0.0	6496.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	32759.4	0.0	32759.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	39255.7	0.0	39255.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	965.5	2.5
10°-20°	1770.4	4.5
20°-30°	2581.2	6.6
30°-40°	3975.5	10.1
40°-50°	5850.9	14.9
50°-60°	8582.0	21.9
60°-70°	9593.4	24.4
70°-80°	4696.8	12.0
80°-90°	1240.1	3.2
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°	39255.7	100.0
0°-180°	39255.7	100.0

Coefficient of Utilization



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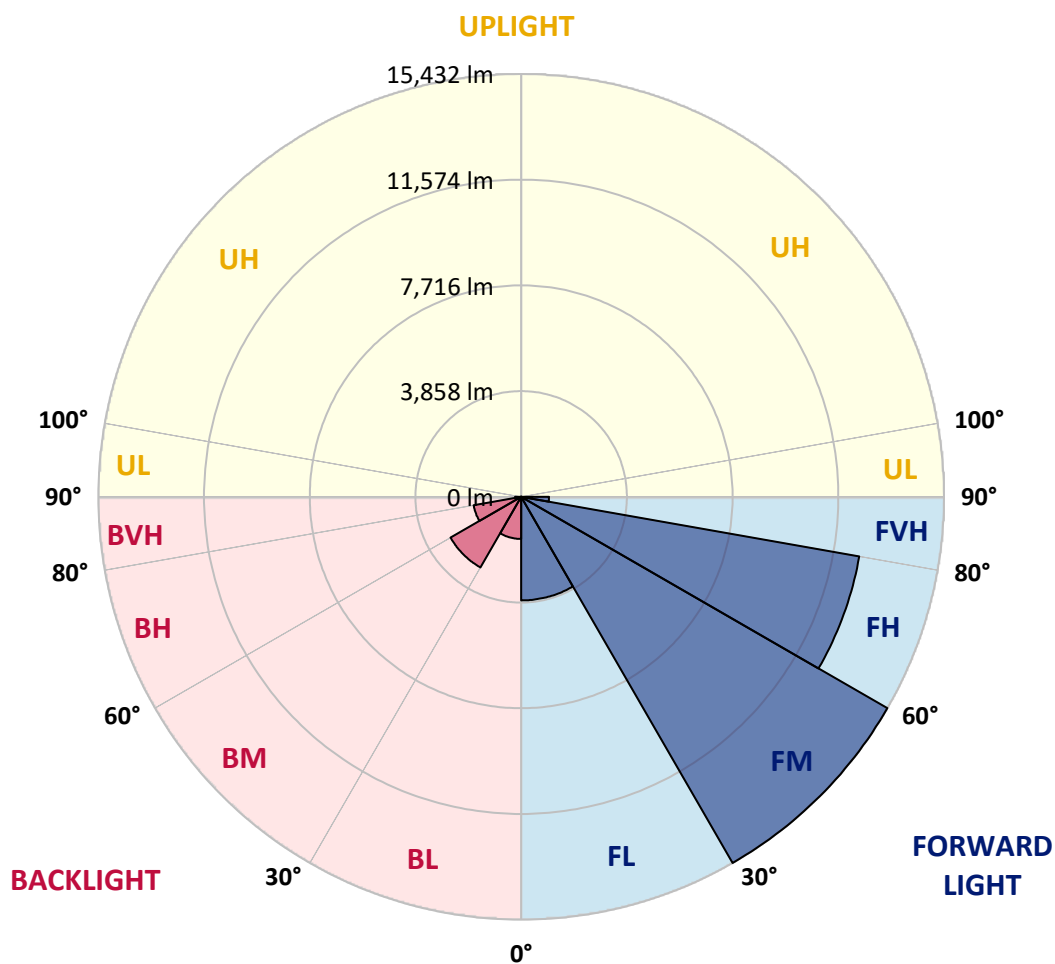
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3780.2	9.6			
FM	(30°-60°)	15431.8	39.3			
FH	(60°-80°)	12529.1	31.9			G5
FVH	(80°-90°)	1018.4	2.6			G5
BL	(0°-30°)	1536.9	3.9	B3/2500		
BM	(30°-60°)	2976.5	7.6	B3/5000		
BH	(60°-80°)	1761.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	221.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	13780.7	13500.1	13034.0	12548.4	12252.8	11907.5	11637.8	11400.4	10925.7	10832.8	10917.0
5°	12958.4	12395.3	11516.9	10632.1	10043.1	9410.8	8918.8	8523.9	7921.9	7816.1	7943.3
7.5°	11639.9	10966.7	9805.7	8677.1	7844.2	7054.4	6523.5	6100.5	5630.0	5427.2	5440.1
10°	10502.6	9743.0	8370.7	7142.9	6460.8	5927.9	5481.2	5047.4	4570.6	4257.7	4171.3
12.5°	9866.1	8992.1	7410.4	6314.1	5681.8	5120.8	4639.5	4175.7	3666.3	3346.9	3256.4
15°	9756.1	8806.6	7050.0	5783.3	4991.3	4281.4	3713.8	3196.0	2671.5	2412.6	2358.6
17.5°	10233.0	9138.9	6933.5	5310.6	4341.8	3465.7	2768.6	2190.3	1763.0	1633.5	1622.7
20°	11147.9	9777.6	6918.4	4866.2	3700.8	2673.7	1929.2	1508.5	1320.6	1284.1	1286.1
22.5°	12431.9	10768.1	7103.9	4531.6	3111.7	1994.0	1450.1	1262.4	1189.1	1154.6	1154.6
25°	14093.6	12131.9	7531.2	4287.9	2600.4	1592.6	1279.7	1167.4	1098.4	1074.7	1078.9
27.5°	15703.4	13459.1	8027.5	4095.8	2265.8	1445.8	1212.8	1111.3	1051.0	1027.1	1038.0
30°	16959.2	14637.4	8441.9	3834.7	2095.4	1404.8	1236.5	1132.9	1046.6	1009.9	1012.1
32.5°	17999.4	15668.8	8789.3	3647.0	1944.3	1204.1	1066.1	1020.7	1009.9	966.7	945.2
35°	19328.7	16793.1	9022.3	3651.2	1873.1	1074.7	949.5	869.7	811.4	761.7	761.7
37.5°	20886.8	18083.5	9270.5	3700.8	1847.2	999.1	908.5	828.6	774.6	727.2	718.6
40°	22427.5	19348.0	9497.2	3748.3	1832.1	953.9	876.1	802.7	753.2	705.6	692.7
42.5°	23737.3	20388.3	9699.9	3772.0	1780.3	949.5	852.4	785.5	738.0	686.2	673.2
45°	24706.2	21260.0	9917.9	3808.8	1728.5	966.7	852.4	783.3	725.1	675.4	662.4
47.5°	25571.6	22282.9	10282.6	3808.8	1665.9	934.3	880.4	785.5	722.9	671.1	660.4
50°	26730.4	23685.5	10973.1	3720.3	1577.4	899.9	927.9	776.9	703.5	662.4	649.5
52.5°	28327.3	25483.1	12069.4	3567.1	1441.4	833.0	921.5	772.6	684.1	641.0	625.8
55°	30215.5	27408.0	13264.8	3388.0	1238.7	785.5	889.1	761.7	662.4	615.0	600.0
57.5°	31689.3	28733.0	14106.5	3111.7	1061.7	759.6	787.6	750.9	636.6	586.9	574.0
60°	32276.4	28681.2	14337.3	2742.7	975.3	738.0	688.4	841.7	615.0	565.4	550.2
62.5°	31959.1	27356.3	13689.9	2483.8	956.0	709.9	645.1	779.0	597.7	550.2	528.7
65°	30493.8	25008.4	11974.4	2414.7	1012.1	681.9	617.2	610.6	574.0	528.7	507.1
67.5°	27302.2	21499.6	9587.7	2421.1	1083.3	653.8	589.1	558.9	541.6	505.0	485.5
70°	22237.5	16998.1	7147.0	2438.4	1120.0	621.4	558.9	526.5	507.1	470.5	457.5
72.5°	16350.7	13100.8	5192.0	2326.2	1126.5	584.7	517.9	489.8	470.5	431.6	420.7
75°	11186.7	10021.5	3601.6	1927.0	981.9	532.9	472.5	446.7	433.8	386.2	379.7
77.5°	8172.1	7522.6	2304.8	1430.8	757.3	468.2	416.5	397.0	388.4	336.6	328.0
80°	6558.0	5951.6	1441.4	979.7	554.6	392.8	349.6	338.8	330.2	278.4	271.9
82.5°	4548.9	3985.7	925.8	636.6	416.5	304.3	276.2	271.9	259.0	211.5	205.0
85°	2399.7	2164.4	586.9	433.8	302.1	209.3	192.1	192.1	185.6	140.3	135.9
87.5°	306.5	498.4	297.8	226.6	166.2	92.8	92.8	90.6	97.1	79.9	69.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	10718.5	10822.1	10722.8	10729.3	10839.4	11167.4	11316.2	11439.2	11570.9	11657.2	11696.1
5°	7768.6	8010.3	8092.3	8264.9	8519.6	8938.2	9104.3	9225.2	9305.1	9352.5	9371.9
7.5°	5312.8	5459.5	5623.6	5901.9	6456.5	6702.6	6812.7	6784.6	6694.0	6661.5	6629.2
10°	4005.1	3946.9	3916.6	4069.9	4518.8	4766.9	4844.5	4769.0	4719.5	4730.2	4784.1
12.5°	3103.1	3001.7	2878.7	2861.4	3157.0	3379.4	3429.0	3433.3	3523.9	3603.8	3722.5
15°	2261.5	2250.7	2190.3	2153.6	2322.0	2503.2	2524.8	2563.7	2645.6	2703.9	2807.5
17.5°	1594.7	1653.0	1700.5	1724.2	1851.5	1981.0	1957.3	1937.8	1922.8	1922.8	1972.3
20°	1286.1	1325.0	1385.4	1454.5	1583.9	1674.6	1616.3	1538.6	1482.5	1465.2	1471.7
22.5°	1158.8	1189.1	1223.6	1284.1	1400.4	1463.1	1400.4	1344.4	1288.2	1268.8	1262.4
25°	1094.1	1132.9	1165.2	1210.6	1296.9	1340.1	1279.7	1238.7	1204.1	1180.4	1163.2
27.5°	1057.4	1091.9	1100.6	1122.1	1195.6	1234.3	1204.1	1186.9	1165.2	1143.7	1122.1
30°	1018.6	1012.1	997.0	999.1	1057.4	1096.2	1094.1	1098.4	1096.2	1089.8	1085.5
32.5°	930.2	917.1	904.2	917.1	971.1	1005.6	1007.8	1016.4	1016.4	1014.3	1031.5
35°	774.6	798.4	813.6	852.4	917.1	947.4	934.3	912.9	874.0	850.2	848.1
37.5°	716.4	720.8	746.7	800.6	871.8	899.9	880.4	830.8	804.9	800.6	807.1
40°	688.4	692.7	707.8	757.3	828.6	856.7	839.4	802.7	779.0	776.9	787.6
42.5°	669.0	673.2	681.9	716.4	774.6	809.2	811.4	785.5	757.3	759.6	770.4
45°	658.2	660.4	658.2	675.4	729.5	770.4	787.6	770.4	746.7	750.9	763.9
47.5°	656.0	649.5	641.0	645.1	701.3	742.3	763.9	757.3	746.7	750.9	761.7
50°	647.4	632.3	621.4	619.3	675.4	718.6	738.0	738.0	742.3	750.9	761.7
52.5°	621.4	604.2	604.2	597.7	658.2	699.1	712.2	714.2	720.8	735.9	750.9
55°	589.1	582.7	589.1	578.3	645.1	684.1	690.5	694.9	699.1	712.2	733.6
57.5°	561.0	552.5	567.5	563.2	634.5	669.0	669.0	677.6	677.6	694.9	712.2
60°	546.0	528.7	535.2	539.5	619.3	656.0	651.7	660.4	664.7	679.7	692.7
62.5°	526.5	511.5	511.5	522.3	602.0	636.6	634.5	641.0	658.2	662.4	675.4
65°	502.8	496.4	489.8	502.8	584.7	615.0	617.2	625.8	641.0	645.1	656.0
67.5°	479.1	481.2	468.2	481.2	569.7	593.4	593.4	610.6	617.2	625.8	636.6
70°	453.2	455.3	444.5	459.7	558.9	569.7	567.5	591.3	595.6	602.0	612.8
72.5°	420.7	420.7	416.5	438.0	541.6	546.0	541.6	561.0	563.2	569.7	574.0
75°	386.2	386.2	382.0	412.1	530.9	520.1	507.1	522.3	526.5	530.9	530.9
77.5°	341.0	345.3	345.3	382.0	494.2	509.2	466.1	474.7	481.2	483.4	476.9
80°	284.8	295.6	299.9	347.5	414.3	470.5	416.5	423.0	425.1	425.1	416.5
82.5°	218.0	237.4	248.1	299.9	317.2	394.9	362.5	369.0	362.5	349.6	345.3
85°	151.1	177.0	189.9	228.8	239.5	304.3	302.1	302.1	289.2	271.9	269.8
87.5°	82.1	97.1	105.8	135.9	164.0	205.0	222.3	215.8	205.0	194.3	196.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	11898.9	12192.4	12660.6	13018.9	13379.3	13726.7	14102.2	14389.1	14633.0	14727.9	15017.1
5°	9568.3	9935.2	10377.6	11176.0	11741.3	12365.0	13085.8	14039.6	14406.4	14913.6	15744.4
7.5°	6765.2	7097.5	7809.7	8454.8	9255.5	10138.0	11111.2	12427.5	12908.8	13722.3	15075.4
10°	5051.7	5438.1	6010.0	6553.7	7259.3	8161.3	9279.2	10750.9	11335.6	12218.3	13776.3
12.5°	4069.9	4525.2	5131.6	5643.0	6189.0	6825.5	7911.0	9525.1	10308.5	11081.1	12656.4
15°	3126.9	3603.8	4167.0	4816.4	5418.6	6104.9	7242.0	9007.3	9909.3	10714.2	12058.6
17.5°	2164.4	2572.3	3282.2	3959.8	4730.2	5608.5	7056.5	9117.3	10194.1	11122.0	12162.2
20°	1534.3	1767.4	2349.9	3135.5	4095.8	5198.4	7022.0	9695.6	11096.2	12155.6	12826.8
22.5°	1290.5	1376.7	1715.6	2436.3	3545.5	4892.1	7142.9	10507.0	12313.2	13666.2	13886.3
25°	1176.0	1227.8	1404.8	1911.9	3055.7	4669.7	7550.7	11715.5	13819.4	15176.7	15138.0
27.5°	1113.5	1167.4	1284.1	1614.1	2686.6	4531.6	7958.5	13148.4	15541.5	16816.8	16333.5
30°	1094.1	1167.4	1290.5	1521.3	2423.4	4313.8	8293.0	14406.4	16866.5	17923.9	16877.3
32.5°	1078.9	1089.8	1145.9	1311.9	2173.0	4059.1	8519.6	15535.0	18163.4	18976.9	17660.5
35°	871.8	925.8	1016.4	1176.0	2026.3	3905.9	8519.6	16508.2	19440.9	20040.8	18407.2
37.5°	839.4	886.9	966.7	1102.8	1944.3	3830.3	8349.0	17446.9	20746.4	21247.1	19022.2
40°	822.1	861.1	936.6	1046.6	1909.8	3744.0	8100.9	18275.6	22021.8	22455.5	19596.3
42.5°	809.2	843.8	914.9	1012.1	1864.5	3649.0	7900.2	18940.2	23128.9	23487.0	20144.3
45°	802.7	839.4	917.1	1029.3	1773.9	3523.9	7833.4	19658.8	24039.4	24348.1	20737.9
47.5°	802.7	845.8	927.9	1066.1	1665.9	3394.4	8042.7	20606.2	24900.5	25051.5	21437.0
50°	796.3	843.8	958.1	1029.3	1508.5	3230.5	8534.7	21799.5	25832.7	25849.9	22321.7
52.5°	783.3	839.4	1031.5	1007.8	1327.2	3014.7	9199.3	23331.7	27211.7	27315.3	23707.2
55°	768.2	833.0	1012.1	958.1	1178.3	2757.8	9743.0	25194.0	29149.5	29436.5	25744.2
57.5°	748.8	824.4	979.7	889.1	1081.1	2427.6	9939.6	26557.7	30502.5	31223.2	28040.3
60°	731.5	817.8	884.8	848.1	1020.7	2149.3	9559.6	26288.0	30409.7	31963.5	30075.2
62.5°	714.2	824.4	807.1	822.1	992.6	1970.2	8567.0	24127.9	28871.1	31199.5	31583.7
65°	694.9	766.0	761.7	800.6	986.2	1899.0	7101.8	20888.8	25897.5	28784.8	31939.6
67.5°	669.0	707.8	729.5	772.6	1007.8	1836.4	5731.5	17231.2	21765.0	25165.9	30083.9
70°	641.0	673.2	697.0	738.0	994.8	1808.4	4766.9	13588.6	17269.9	20625.6	26421.8
72.5°	604.2	632.3	653.8	692.7	981.9	1793.3	4026.7	10943.0	12893.6	15321.4	21482.3
75°	561.0	586.9	602.0	641.0	940.8	1642.1	3165.7	9259.7	9648.1	10658.0	17110.3
77.5°	511.5	530.9	543.8	586.9	833.0	1366.0	2289.5	7142.9	7492.4	7738.4	13118.1
80°	453.2	472.5	479.1	520.1	690.5	1068.2	1493.2	5276.1	5604.1	5660.2	8567.0
82.5°	386.2	405.7	405.7	444.5	565.4	768.2	979.7	3614.6	3679.3	3869.2	6055.1
85°	310.8	325.8	325.8	345.3	438.0	574.0	673.2	1814.8	1795.4	2050.0	5246.0
87.5°	222.3	233.0	243.8	248.1	312.9	379.7	405.7	552.5	364.7	418.7	3368.6
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8	13262.8
2.5°	15235.1	15358.0	15232.9	15142.2	14751.6	14430.2	14000.7	13780.7
5°	16376.7	16689.6	16583.8	16204.0	15388.3	14471.2	13428.8	12958.4
7.5°	16238.5	16965.8	16983.0	16273.1	15071.1	13720.2	12308.9	11639.9
10°	15163.9	16093.9	16359.4	15670.9	14395.7	12885.1	11266.6	10502.6
12.5°	13964.0	14874.7	15077.6	14840.1	13774.1	12257.1	10614.9	9866.1
15°	12982.1	13390.0	13631.7	13838.9	13241.1	12006.8	10578.3	9756.1
17.5°	12384.4	12339.0	12408.1	12768.6	12869.9	12293.8	11139.3	10233.0
20°	12168.6	11475.9	11458.7	11955.0	12695.2	12977.9	12235.5	11147.9
22.5°	12287.3	11165.2	11022.7	11611.8	12787.9	13964.0	13672.7	12431.9
25°	12697.3	11191.1	11076.7	11646.4	13124.6	15015.0	15224.3	14093.6
27.5°	13342.5	11355.1	11204.0	11788.8	13571.3	15897.6	16752.0	15703.4
30°	13955.3	11639.9	11452.2	12069.4	13979.1	16247.2	17688.6	16959.2
32.5°	14699.8	12172.9	11842.8	12585.1	14484.1	16803.8	18523.9	17999.4
35°	15429.3	12932.6	12522.5	13381.4	15047.3	17496.6	19477.5	19328.7
37.5°	16229.9	13925.2	13586.4	14410.7	15817.7	18150.4	20694.7	20886.8
40°	17084.5	15241.5	14840.1	15912.6	17013.2	18970.4	21965.7	22427.5
42.5°	17945.4	16702.5	16223.4	17311.0	18327.3	19779.6	23053.2	23737.3
45°	18931.6	18288.6	18061.9	19238.1	19589.7	20550.0	23856.0	24706.2
47.5°	20079.6	20088.3	20453.0	20923.3	20862.9	21421.9	24663.1	25571.6
50°	21419.7	22334.7	23139.6	23452.5	22175.0	22358.5	25783.1	26730.4
52.5°	23029.5	25021.4	26018.4	25813.3	23588.4	23502.1	27557.0	28327.3
55°	25042.9	27865.5	28856.0	28709.3	25213.4	25060.1	29766.7	30215.5
57.5°	27373.5	30621.2	31531.9	30871.5	27164.1	26769.3	31594.4	31689.3
60°	29421.4	32805.0	33603.4	32872.0	29132.3	28588.4	32735.9	32276.4
62.5°	30560.8	33545.3	34106.3	33318.6	30480.9	30526.3	32986.3	31959.1
65°	30051.5	31674.3	31855.5	31790.8	30133.4	31650.5	32086.3	30493.8
67.5°	27263.5	26944.1	27248.3	27669.2	27155.6	30170.2	29594.0	27302.2
70°	22351.9	20597.5	21204.0	21486.6	21719.6	25962.1	25686.0	22237.5
72.5°	16844.9	14430.2	14909.2	14850.9	15929.9	20824.2	19976.1	16350.7
75°	11935.6	9784.0	9844.5	9820.8	11115.6	16292.4	14464.8	11186.7
77.5°	8351.2	7088.8	7121.2	7255.1	7473.0	12287.3	10334.4	8172.1
80°	5742.2	5379.7	5558.9	5569.6	5179.1	8254.1	7634.8	6558.0
82.5°	4277.1	3739.7	3696.6	3759.2	4059.1	6687.4	5867.4	4548.9
85°	3502.3	2214.0	1780.3	2231.3	3597.3	6622.7	3897.3	2399.7
87.5°	1972.3	1051.0	474.7	880.4	1435.0	4384.9	1126.5	306.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)