

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: P456467

Luminaire Tested: **GLAN-SA7D-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38843 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

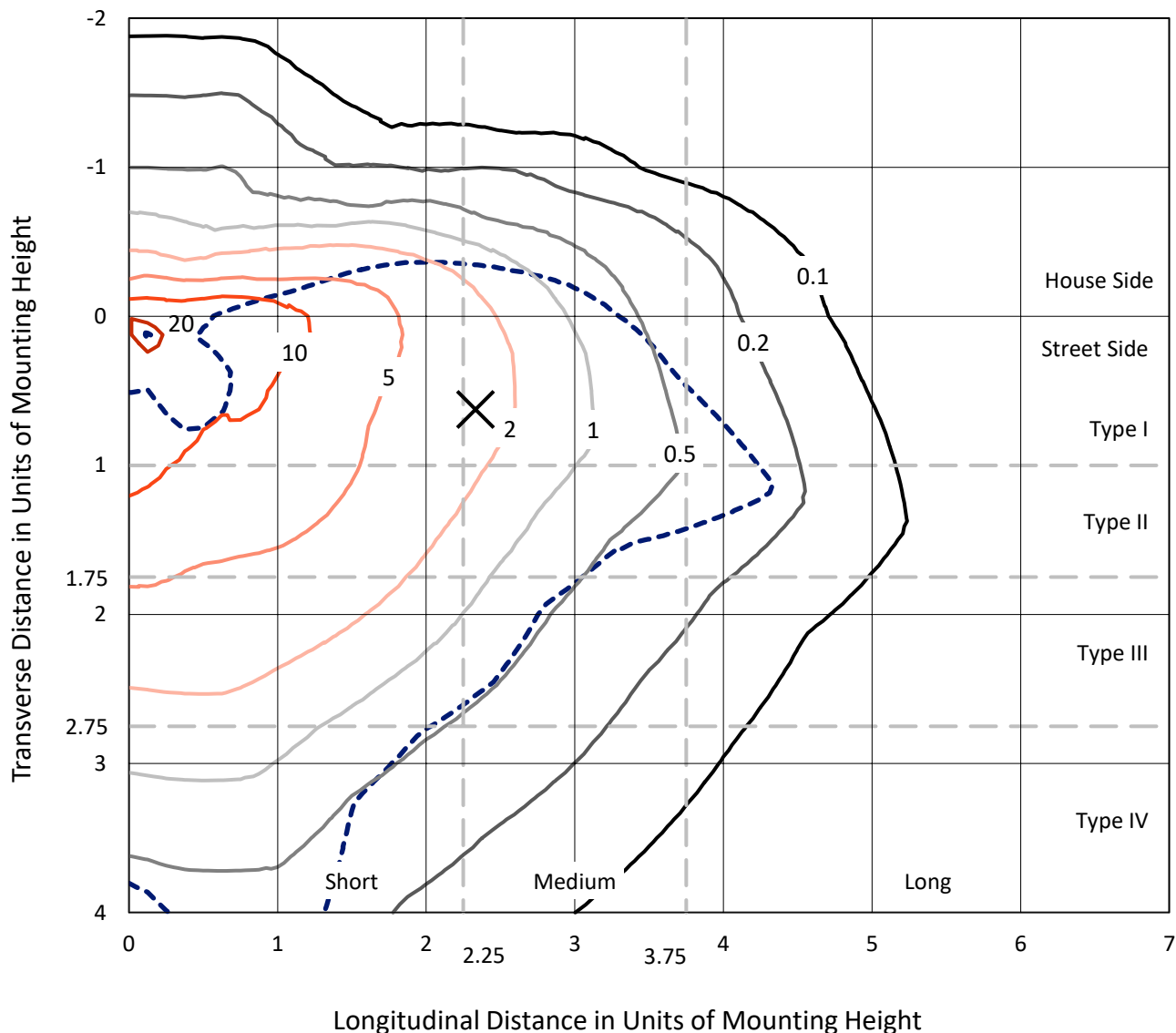
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

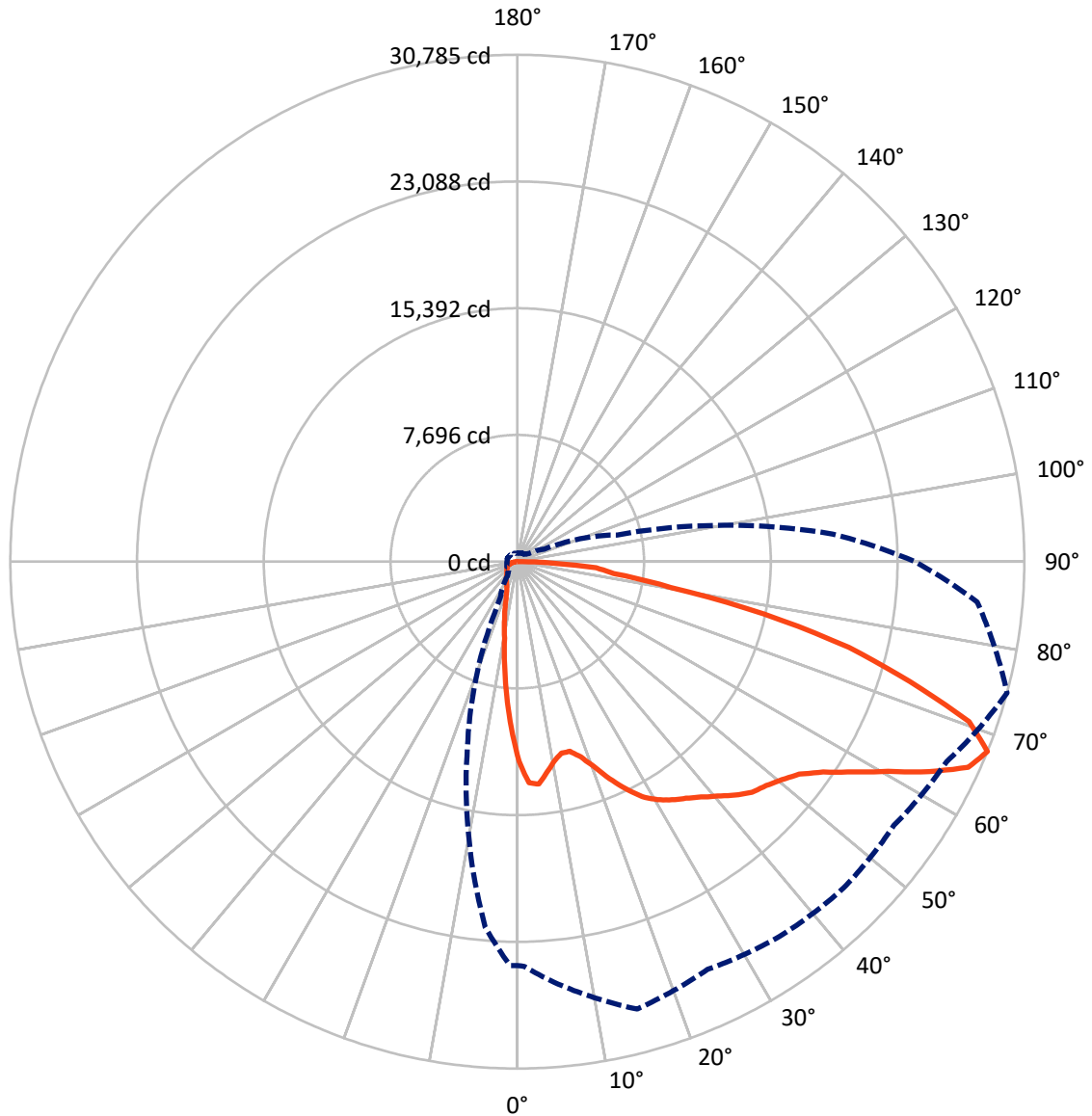
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6565.3	0.0	6565.3
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	32277.7	0.0	32277.7
	% Fixture	83.1	0.0	83.1
Total	Lumens	38843.0	0.0	38843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.4	2.4
10°-20°	1919.6	4.9
20°-30°	2762.4	7.1
30°-40°	3978.5	10.2
40°-50°	5588.8	14.4
50°-60°	7794.4	20.1
60°-70°	9267.0	23.9
70°-80°	5457.8	14.1
80°-90°	1154.1	3.0
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°	38843.0	100.0
0°-180°	38843.0	100.0

Coefficient of Utilization



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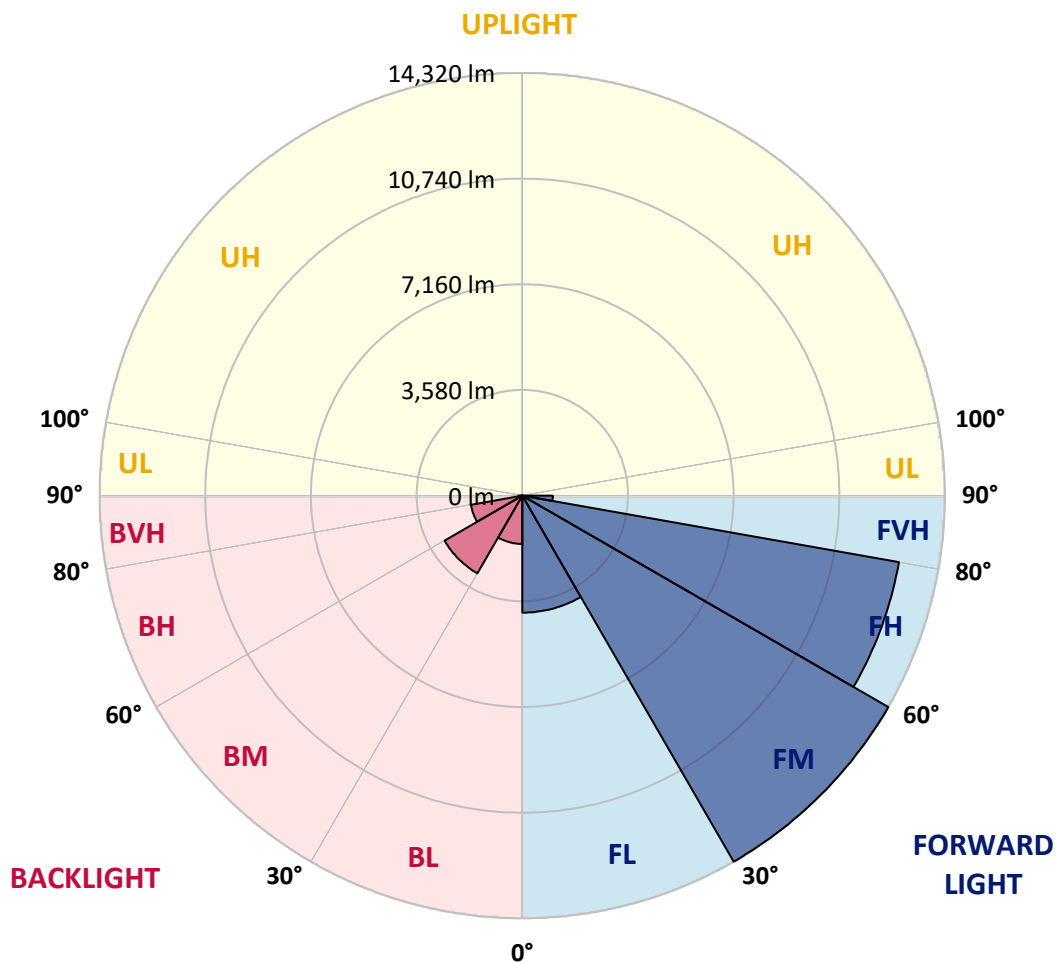
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3964.8	10.2			
FM	(30°-60°)	14320.0	36.9			
FH	(60°-80°)	12958.2	33.4			G5
FVH	(80°-90°)	1034.7	2.7			G5
BL	(0°-30°)	1637.6	4.2	B3/2500		
BM	(30°-60°)	3041.7	7.8	B3/5000		
BH	(60°-80°)	1766.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	119.4	0.3			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5
2.5°	13084.5	13101.9	13214.0	13540.3	13764.5	13846.7	13904.0	13796.9	13692.3	13438.2	13054.6
5°	13044.6	13146.8	13438.2	14170.5	14748.4	14997.5	15072.2	14750.9	14220.3	13567.7	12783.1
7.5°	12282.4	12419.4	12867.8	14095.8	15114.5	15697.4	15620.2	15039.8	14083.3	12920.1	11824.1
10°	11378.3	11530.2	12070.7	13555.3	14867.9	15670.0	15670.0	14962.6	13692.3	12309.8	11047.0
12.5°	10660.9	10820.3	11438.0	12999.8	14354.8	15114.5	15241.6	14633.8	13410.8	11923.7	10536.3
15°	10424.3	10578.7	11243.7	12663.5	13811.8	14275.1	14317.5	14118.2	13273.8	11951.1	10513.9
17.5°	10718.2	10917.4	11590.0	12763.2	13313.6	13341.0	13373.4	13530.4	13288.7	12451.8	10967.3
20°	11567.6	11781.8	12484.2	13084.5	12877.7	12593.8	12611.2	13014.7	13465.6	13278.8	12050.8
22.5°	12793.1	12979.9	13699.7	13649.9	12693.4	12108.1	11986.0	12549.0	13727.1	14310.0	13204.1
25°	14115.7	14334.9	15161.9	14489.3	12745.7	11819.1	11741.9	12275.0	13998.6	15274.0	14536.7
27.5°	15630.1	15844.4	16497.0	15336.2	13019.7	11796.7	11704.6	12250.1	14242.7	16165.7	15809.5
30°	16756.0	16952.8	17396.2	16048.6	13356.0	11946.2	11831.6	12446.8	14452.0	16775.9	17049.9
32.5°	17640.3	17844.5	18086.1	16492.0	13799.4	12217.7	12005.9	12805.5	14726.0	17241.7	17969.1
35°	18561.9	18803.5	18786.1	16885.5	14212.9	12531.5	12324.8	13323.6	15156.9	17647.7	19134.8
37.5°	19730.1	19827.2	19702.7	17239.2	14708.5	13096.9	12982.4	14093.3	15769.6	18138.4	20497.3
40°	20915.8	21110.0	20469.9	17667.7	15311.3	14160.5	14148.1	15231.6	16497.0	18713.8	21817.4
42.5°	21932.0	22096.4	21187.3	18041.3	16041.1	15458.3	15552.9	16758.5	17451.0	19381.4	22878.6
45°	22696.7	22843.7	21849.8	18402.5	17002.6	16957.8	17515.7	18395.0	18654.1	19981.7	23501.3
47.5°	23346.8	23488.8	22310.6	18950.5	18190.8	18748.7	19720.1	20101.2	19682.8	20325.4	24198.7
50°	23894.8	23937.2	22627.0	19603.1	19665.3	20943.2	21884.7	22131.3	20699.1	20818.6	24804.0
52.5°	24465.2	24410.4	23172.5	20425.1	21259.5	23025.5	23710.5	23967.1	21673.0	21426.4	25685.8
55°	25743.0	25795.4	24395.5	21461.3	22871.1	25070.5	25972.2	25725.6	22751.5	22544.8	26806.6
57.5°	27287.4	27242.5	26116.7	23082.8	24512.6	26973.5	27646.1	27250.0	24191.2	24081.6	27942.5
60°	27887.7	27947.5	27556.4	24826.4	26131.6	28639.9	29327.4	28712.1	25917.4	25867.6	28799.3
62.5°	27284.9	27621.2	27885.2	26378.2	27511.6	29865.4	30547.9	29845.5	27718.3	28079.5	29399.6
65°	26084.3	26156.5	27055.7	27693.4	28176.6	30067.2	30423.4	30049.7	29222.8	30094.6	29372.2
67.5°	24525.0	24587.3	25640.9	28124.3	27319.8	27775.6	28024.7	27915.1	28757.0	30784.5	28019.7
70°	23040.5	22990.6	24104.1	27025.8	23782.7	23090.3	23297.0	22953.3	24814.0	29098.2	25366.9
72.5°	20151.1	20330.4	21526.0	23972.0	18830.9	17705.0	18155.9	17266.6	19085.0	24921.1	20589.5
75°	15784.6	15826.9	17822.1	20118.7	14205.4	12429.4	13039.7	12668.5	14618.9	20788.7	14217.8
77.5°	10929.9	10835.2	12979.9	15366.1	10130.3	9099.1	9109.1	8932.2	10207.5	15306.3	9659.6
80°	6942.0	6797.6	8125.2	9492.7	6962.0	7447.7	7203.6	7196.1	6645.6	9442.9	5841.1
82.5°	3751.2	3910.7	5133.7	5950.7	4994.2	5756.4	5275.6	5121.2	4560.8	5910.8	3736.3
85°	1708.7	1858.2	2737.5	4047.6	3793.6	3835.9	2563.1	3023.9	3773.7	4799.9	1995.2
87.5°	166.9	214.2	565.4	1910.5	1295.2	1021.3	381.1	734.8	949.0	1706.2	159.4
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°	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5
2.5°	12897.7	12768.2	12327.3	11963.6	11577.5	11283.6	10900.0	10643.4	10466.6	10200.1	10167.7
5°	12304.9	11988.5	11221.3	10439.2	9764.2	9256.0	8740.4	8267.2	7988.2	7901.0	7788.9
7.5°	11306.0	10773.0	9786.6	8889.9	8115.2	7358.0	6775.1	6361.7	6085.2	5923.3	5729.0
10°	10484.0	9866.3	8665.7	7567.2	6929.6	6458.8	5945.7	5502.3	5161.1	4869.6	4710.2
12.5°	9931.1	9233.6	7883.6	6991.8	6498.7	5998.0	5397.7	4899.5	4396.4	4065.1	3923.1
15°	9764.2	9026.9	7642.0	6705.4	5998.0	5342.9	4670.4	4020.2	3522.1	3208.2	3103.6
17.5°	10172.7	9280.9	7639.5	6324.3	5410.1	4628.0	3766.2	3155.9	2645.3	2411.2	2336.4
20°	10934.9	9769.2	7661.9	5948.2	4772.5	3671.5	2739.9	2239.3	1995.2	1895.5	1858.2
22.5°	11998.5	10513.9	7729.1	5577.0	4075.0	2819.7	2052.5	1798.4	1711.2	1693.8	1686.3
25°	13308.7	11435.5	7955.8	5243.3	3487.2	2152.1	1716.2	1601.6	1551.8	1534.4	1531.9
27.5°	14514.2	12626.2	8229.8	4956.8	2919.3	1855.7	1551.8	1454.7	1404.8	1402.4	1407.3
30°	15602.8	13622.5	8459.0	4635.5	2488.4	1648.9	1444.7	1347.6	1300.2	1297.7	1312.7
32.5°	16544.3	14442.0	8628.3	4319.2	2249.2	1521.9	1347.6	1242.9	1203.1	1195.6	1203.1
35°	17550.6	15259.0	8551.1	4072.6	2112.2	1417.3	1275.3	1173.2	1125.9	1103.5	1103.5
37.5°	18698.9	16100.9	8419.1	3868.3	2050.0	1330.1	1213.0	1113.4	1066.1	1043.7	1041.2
40°	19951.8	16942.8	8237.3	3686.5	1987.7	1277.8	1170.7	1066.1	1008.8	986.4	981.4
42.5°	21057.7	17662.7	8087.8	3566.9	1885.6	1287.8	1133.3	1031.2	959.0	929.1	926.6
45°	22019.2	18387.5	8060.4	3497.2	1800.9	1272.8	1123.4	1003.8	919.1	886.7	881.8
47.5°	22771.4	19142.3	8217.3	3457.3	1708.7	1193.1	1188.1	986.4	884.3	849.4	844.4
50°	23688.1	20213.3	8576.0	3375.1	1624.0	1118.4	1255.4	983.9	856.9	812.0	799.6
52.5°	24908.6	21608.2	9061.8	3228.2	1502.0	1048.7	1198.1	983.9	824.5	779.6	764.7
55°	26754.3	23386.7	9537.5	3021.4	1330.1	956.5	1081.0	954.0	777.1	737.3	727.3
57.5°	27977.3	24686.9	9841.4	2735.0	1115.9	889.2	931.6	906.7	729.8	687.5	687.5
60°	28039.6	25035.6	9696.9	2373.8	981.4	827.0	809.5	914.1	687.5	642.6	637.7
62.5°	27322.2	24181.3	8944.7	2050.0	909.2	759.7	732.3	802.1	645.1	600.3	592.8
65°	26201.4	22001.8	7639.5	1895.5	869.3	699.9	660.1	657.6	600.3	558.0	548.0
67.5°	24141.4	19227.0	6277.0	1805.9	849.4	632.7	595.3	582.9	548.0	513.1	508.1
70°	21105.1	16103.4	5034.0	1768.5	839.4	562.9	533.0	518.1	488.2	460.8	458.3
72.5°	16419.8	13062.1	4154.8	1743.6	834.4	498.2	465.8	445.9	428.4	403.5	403.5
75°	11794.2	9609.7	3170.9	1571.7	772.2	428.4	393.6	381.1	356.2	336.3	341.2
77.5°	7435.2	6471.3	2087.3	1155.8	597.8	343.7	313.8	306.4	286.4	259.0	276.5
80°	5021.6	4550.8	1218.0	727.3	376.1	251.6	241.6	239.1	216.7	186.8	189.3
82.5°	3417.5	3352.7	632.7	413.5	216.7	147.0	142.0	147.0	122.1	99.6	99.6
85°	1335.1	1823.3	298.9	161.9	69.7	22.4	32.4	34.9	19.9	10.0	12.5
87.5°	24.9	186.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5
2.5°	10117.9	10095.5	10132.8	9973.4	10005.8	10065.6	10095.5	10112.9	10359.5	10302.2	10459.1
5°	7893.5	7871.1	8015.6	8035.5	8110.2	8095.3	8167.5	8185.0	8274.6	8307.0	8526.2
7.5°	5741.4	5838.6	6003.0	6087.7	6214.7	6254.6	6217.2	6309.3	6122.5	6257.0	6296.9
10°	4613.1	4496.0	4426.3	4620.5	4645.5	4829.8	4755.1	4695.3	4804.9	4809.9	4914.5
12.5°	3840.9	3589.3	3422.4	3477.2	3537.0	3616.7	3629.2	3748.7	3828.5	3903.2	3965.4
15°	3011.5	2924.3	2772.3	2697.6	2782.3	2814.7	2891.9	2991.5	3076.2	3098.6	3183.3
17.5°	2311.5	2326.5	2301.6	2256.7	2309.0	2333.9	2338.9	2341.4	2363.8	2348.9	2473.4
20°	1860.7	1913.0	1975.3	1985.2	2002.7	2015.1	1992.7	1908.0	1910.5	1962.8	2002.7
22.5°	1683.8	1693.8	1763.5	1785.9	1840.7	1818.3	1753.6	1713.7	1708.7	1721.2	1741.1
25°	1544.3	1559.3	1609.1	1644.0	1686.3	1646.5	1599.1	1561.8	1556.8	1569.2	1589.2
27.5°	1419.8	1442.2	1487.0	1521.9	1561.8	1524.4	1479.6	1447.2	1444.7	1442.2	1454.7
30°	1320.2	1345.1	1377.4	1417.3	1444.7	1412.3	1370.0	1352.5	1350.0	1345.1	1350.0
32.5°	1220.5	1260.4	1292.8	1312.7	1340.1	1315.2	1282.8	1272.8	1255.4	1240.4	1233.0
35°	1108.4	1150.8	1200.6	1225.5	1252.9	1228.0	1205.6	1163.2	1133.3	1130.9	1135.8
37.5°	1043.7	1061.1	1101.0	1143.3	1170.7	1158.3	1115.9	1073.6	1066.1	1066.1	1071.1
40°	986.4	993.9	1011.3	1066.1	1115.9	1078.5	1026.2	1013.8	1013.8	1011.3	1013.8
42.5°	929.1	936.6	936.6	978.9	1058.6	998.8	959.0	959.0	959.0	961.5	968.9
45°	876.8	879.3	876.8	906.7	981.4	931.6	904.2	911.7	916.6	921.6	926.6
47.5°	831.9	834.4	831.9	856.9	894.2	874.3	859.3	869.3	879.3	886.7	891.7
50°	792.1	789.6	794.6	809.5	827.0	831.9	822.0	836.9	841.9	851.9	864.3
52.5°	757.2	754.7	759.7	767.2	792.1	792.1	792.1	804.5	814.5	824.5	841.9
55°	717.4	719.9	727.3	737.3	769.7	764.7	767.2	777.1	787.1	802.1	812.0
57.5°	680.0	685.0	695.0	709.9	742.3	739.8	742.3	747.3	759.7	767.2	777.1
60°	637.7	647.6	660.1	670.0	702.4	699.9	712.4	722.3	729.8	729.8	734.8
62.5°	595.3	610.3	622.7	630.2	665.1	667.6	685.0	692.5	697.4	692.5	699.9
65°	553.0	575.4	580.4	590.3	625.2	627.7	647.6	665.1	660.1	655.1	667.6
67.5°	510.6	538.0	535.5	548.0	582.9	587.8	605.3	635.2	625.2	620.2	630.2
70°	463.3	483.2	485.7	493.2	540.5	533.0	560.4	587.8	580.4	582.9	582.9
72.5°	411.0	428.4	428.4	443.4	493.2	480.7	503.2	533.0	533.0	530.6	530.6
75°	348.7	358.7	368.6	391.1	443.4	428.4	443.4	470.8	475.8	470.8	470.8
77.5°	281.5	296.4	301.4	331.3	368.6	366.2	381.1	393.6	403.5	398.5	398.5
80°	199.3	214.2	234.1	266.5	288.9	296.4	303.9	313.8	318.8	318.8	323.8
82.5°	112.1	134.5	151.9	184.3	194.3	231.7	229.2	236.6	229.2	201.8	224.2
85°	24.9	47.3	67.3	84.7	97.1	134.5	142.0	159.4	132.0	122.1	122.1
87.5°	0.0	0.0	0.0	0.0	0.0	19.9	39.9	54.8	47.3	39.9	39.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5	12135.5
2.5°	10591.1	10807.8	11069.4	11520.2	11836.6	12177.8	12521.6	12887.7	12984.9	13084.5
5°	8586.0	9011.9	9243.6	9848.9	10484.0	11291.1	11951.1	12673.5	12974.9	13044.6
7.5°	6503.6	6792.6	7400.3	8013.1	8800.2	9647.1	10658.4	11784.3	12135.5	12282.4
10°	5156.1	5549.6	6082.7	6740.3	7430.2	8341.9	9482.7	10797.9	11296.1	11378.3
12.5°	4388.9	4827.3	5407.7	6102.6	6755.2	7442.7	8593.5	9951.0	10484.0	10660.9
15°	3509.6	4040.2	4710.2	5442.5	6152.4	6904.7	8070.4	9602.3	10217.5	10424.3
17.5°	2757.4	3185.8	3910.7	4705.2	5547.1	6498.7	7960.8	9769.2	10526.4	10718.2
20°	2109.8	2416.1	3026.4	3865.8	4852.2	6097.6	7988.2	10399.3	11306.0	11567.6
22.5°	1823.3	1980.2	2351.4	3150.9	4254.4	5748.9	8100.3	11263.7	12357.2	12793.1
25°	1651.4	1733.6	1942.9	2466.0	3684.0	5410.1	8356.8	12426.9	13826.8	14115.7
27.5°	1504.5	1564.3	1693.8	2069.9	3165.9	5096.3	8655.7	13717.2	15199.2	15630.1
30°	1365.0	1444.7	1566.8	1838.3	2834.6	4809.9	9031.9	14763.3	16355.0	16756.0
32.5°	1257.9	1337.6	1449.7	1676.3	2553.1	4508.5	9256.0	15682.5	17299.0	17640.3
35°	1170.7	1238.0	1355.0	1546.8	2338.9	4279.3	9211.2	16412.3	18213.2	18561.9
37.5°	1108.4	1165.7	1282.8	1424.8	2177.0	4040.2	9188.8	17376.2	19326.6	19730.1
40°	1051.1	1110.9	1218.0	1345.1	2015.1	3758.7	9201.2	18332.7	20512.2	20915.8
42.5°	1006.3	1073.6	1160.7	1322.6	1848.2	3532.0	9201.2	19164.7	21543.5	21932.0
45°	968.9	1041.2	1125.9	1320.2	1716.2	3360.2	9139.0	19879.6	22365.4	22696.7
47.5°	936.6	1016.3	1138.3	1275.3	1683.8	3235.6	9084.2	20452.5	23035.5	23346.8
50°	914.1	1008.8	1210.6	1223.0	1693.8	3198.3	9348.2	21174.8	23625.8	23894.8
52.5°	896.7	1011.3	1208.1	1145.8	1676.3	3223.2	9898.7	22303.2	24445.3	24465.2
55°	861.8	1008.8	1145.8	1058.6	1604.1	3265.5	10606.1	23942.2	25728.1	25743.0
57.5°	827.0	981.4	1063.6	983.9	1457.2	3265.5	11458.0	25494.0	27274.9	27287.4
60°	792.1	1021.3	934.1	919.1	1265.4	3205.7	12357.2	26176.5	27760.6	27887.7
62.5°	757.2	1028.7	834.4	861.8	1125.9	3061.3	13027.2	25421.7	27103.1	27284.9
65°	717.4	829.5	769.7	802.1	1053.6	2819.7	12815.5	24039.3	25867.6	26084.3
67.5°	670.0	702.4	699.9	739.8	1028.7	2463.5	11699.6	22290.7	24537.5	24525.0
70°	612.8	630.2	637.7	680.0	981.4	2187.0	9749.2	20021.5	22761.5	23040.5
72.5°	553.0	567.9	575.4	612.8	934.1	2030.1	7567.2	16895.5	19715.2	20151.1
75°	488.2	498.2	508.1	540.5	884.3	1798.4	5390.2	12897.7	15099.6	15784.6
77.5°	421.0	421.0	433.4	465.8	744.8	1484.6	3616.7	9046.8	10230.0	10929.9
80°	341.2	343.7	338.8	373.6	548.0	1016.3	2055.0	6042.8	6807.5	6942.0
82.5°	261.5	254.1	256.6	274.0	408.5	692.5	1096.0	3753.7	3826.0	3751.2
85°	164.4	164.4	159.4	179.3	261.5	361.2	597.8	2299.1	1795.9	1708.7
87.5°	67.3	54.8	62.3	72.2	124.5	147.0	234.1	473.3	181.8	166.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)