

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: P458323

Luminaire Tested: **GLAN-SA9D-727-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458323
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-SA9D-727-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 50556 lumens
Efficiency: N/A
Efficacy: 91.6 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

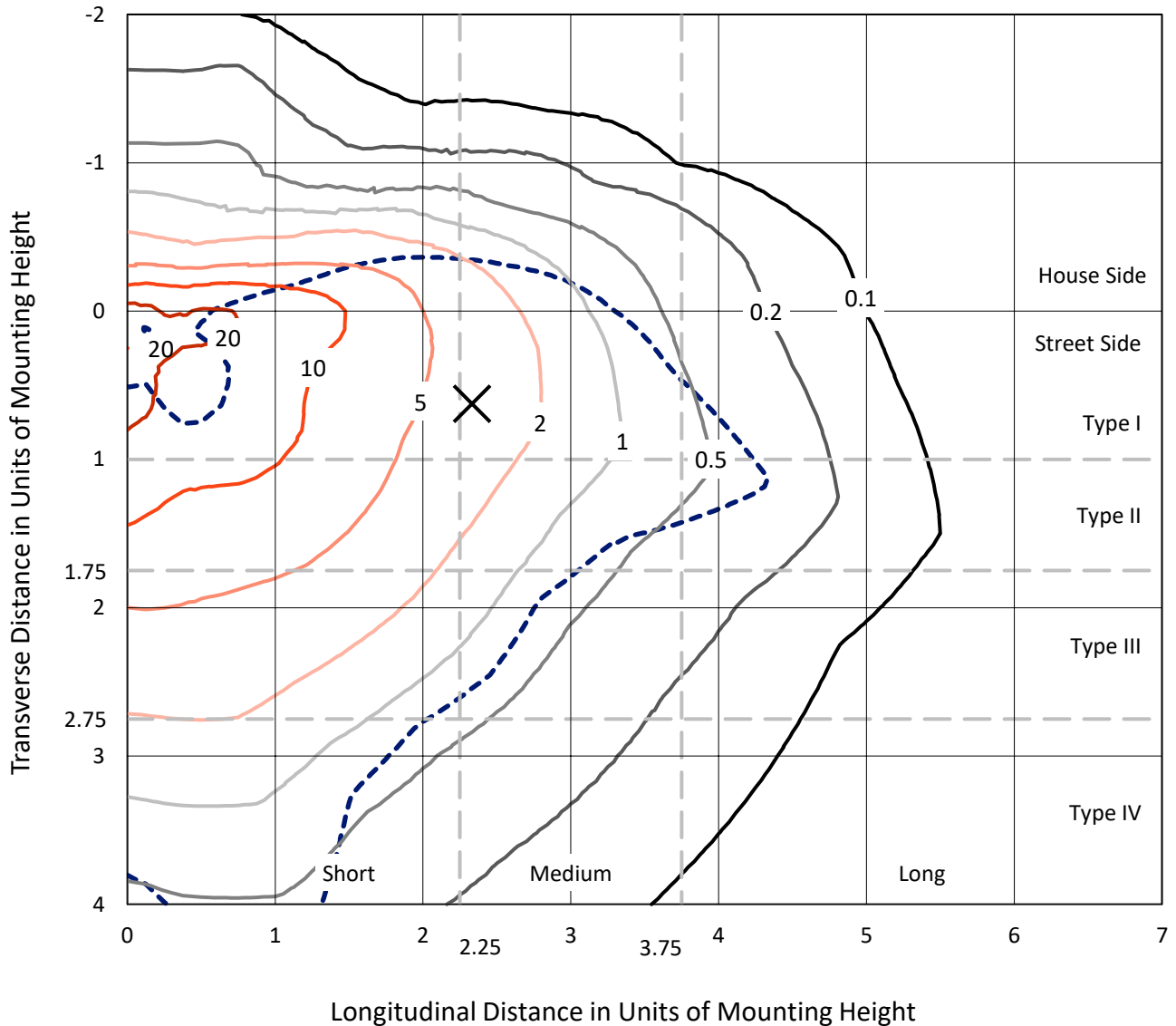
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

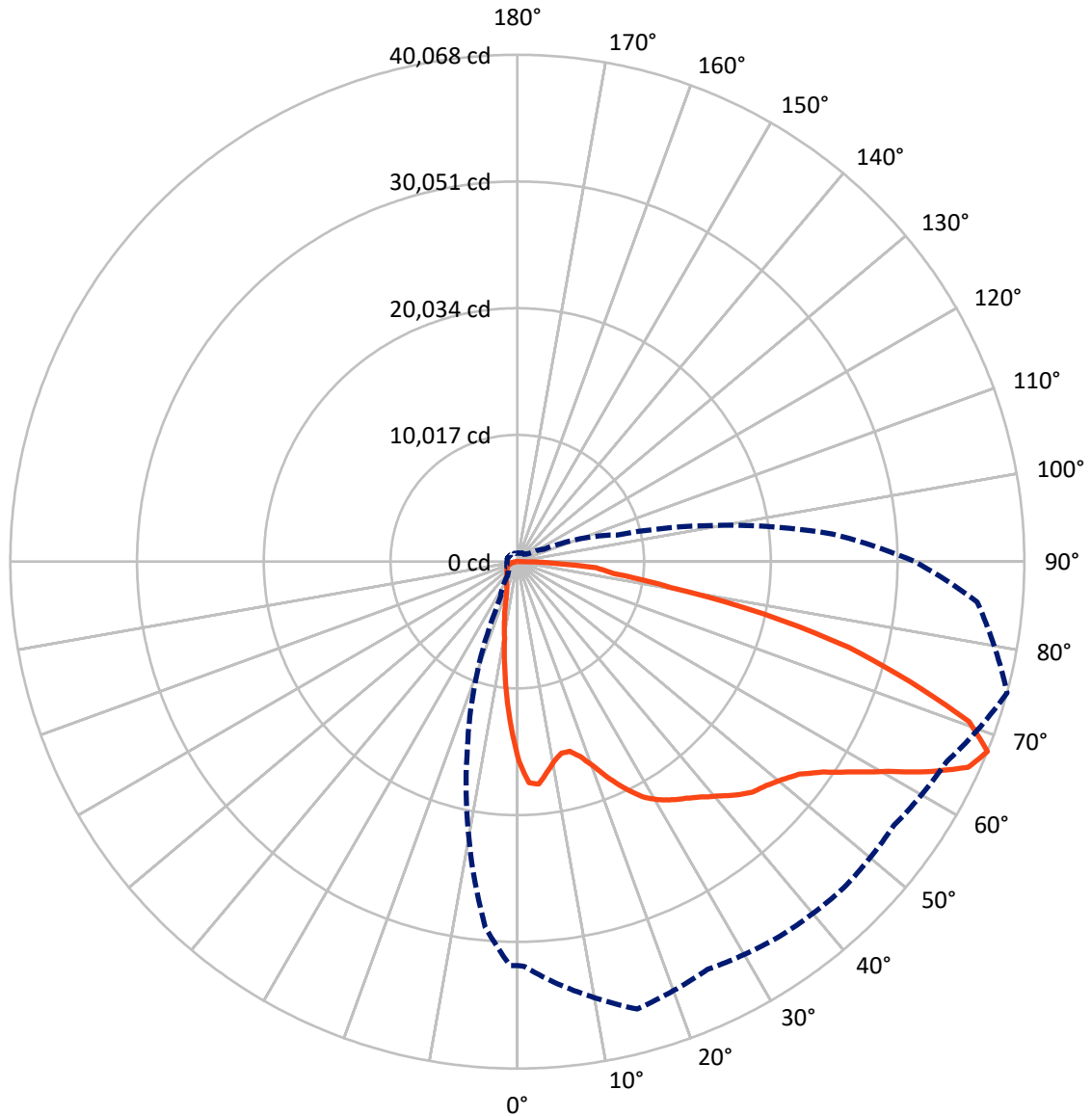
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.2 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	8545.0	0.0	8545.0
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	42011.0	0.0	42011.0
	% Fixture	83.1	0.0	83.1
Total	Lumens	50556.0	0.0	50556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1198.0	2.4
10°-20°	2498.5	4.9
20°-30°	3595.3	7.1
30°-40°	5178.3	10.2
40°-50°	7274.1	14.4
50°-60°	10144.8	20.1
60°-70°	12061.5	23.9
70°-80°	7103.5	14.1
80°-90°	1502.1	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°	50556.0	100.0
0°-180°	50556.0	100.0

Coefficient of Utilization



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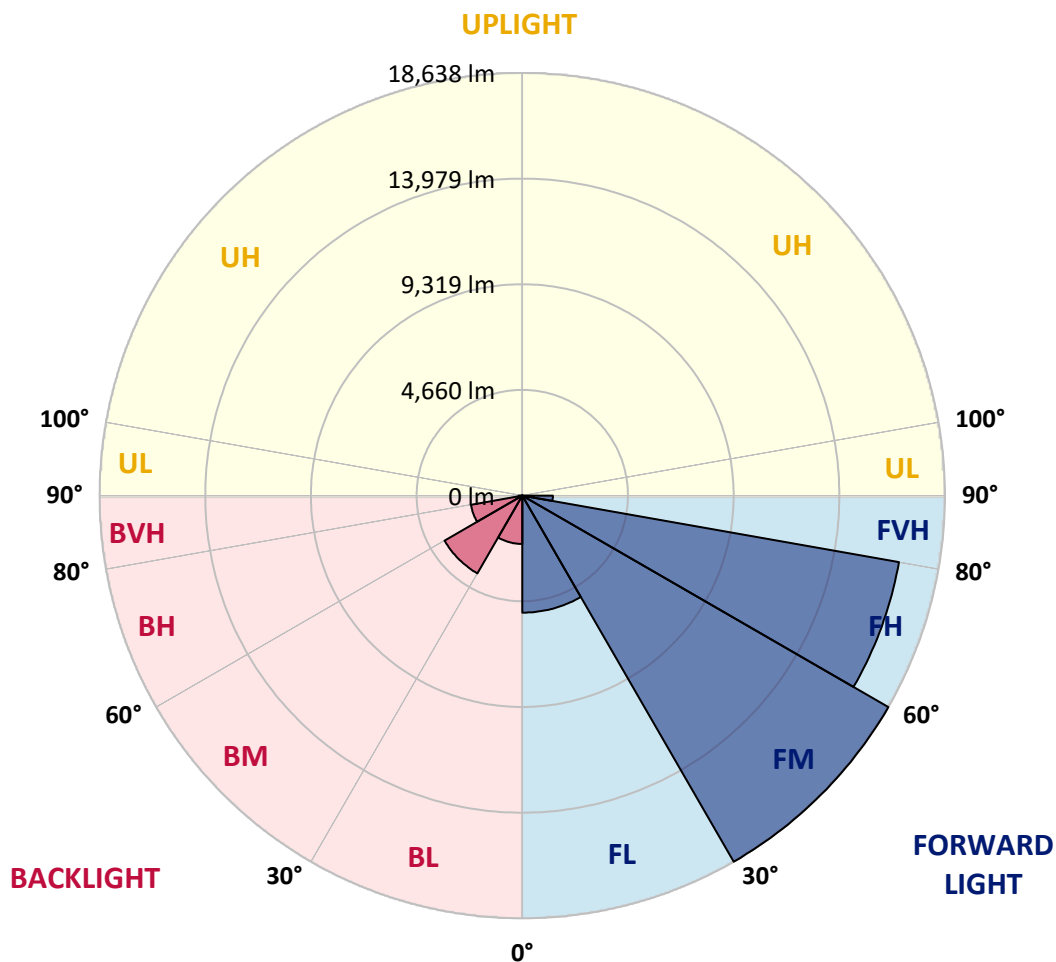
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5160.4	10.2			
FM	(30°-60°)	18638.1	36.9			
FH	(60°-80°)	16865.7	33.4			G5
FVH	(80°-90°)	1346.8	2.7			G5
BL	(0°-30°)	2131.4	4.2	B3/2500		
BM	(30°-60°)	3959.0	7.8	B3/5000		
BH	(60°-80°)	2299.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	155.4	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°	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9
2.5°	17030.1	17052.8	17198.7	17623.4	17915.1	18022.1	18096.7	17957.3	17821.1	17490.4	16991.2
5°	16978.2	17111.1	17490.4	18443.6	19195.7	19519.9	19617.2	19199.0	18508.4	17659.0	16637.8
7.5°	15986.2	16164.5	16748.0	18346.3	19672.3	20430.9	20330.4	19575.0	18330.1	16816.1	15389.6
10°	14809.3	15007.1	15710.6	17642.8	19351.3	20395.2	20395.2	19474.5	17821.1	16021.8	14378.1
12.5°	13875.6	14083.1	14887.1	16919.9	18683.5	19672.3	19837.6	19046.6	17454.8	15519.3	13713.5
15°	13567.7	13768.7	14634.3	16482.2	17976.7	18579.7	18634.9	18375.5	17276.5	15555.0	13684.4
17.5°	13950.2	14209.6	15084.9	16611.9	17328.3	17364.0	17406.2	17610.4	17295.9	16206.6	14274.4
20°	15055.7	15334.5	16248.8	17030.1	16761.0	16391.4	16414.1	16939.3	17526.1	17283.0	15684.7
22.5°	16650.8	16893.9	17830.8	17766.0	16521.1	15759.2	15600.4	16333.1	17866.5	18625.1	17185.7
25°	18372.3	18657.6	19733.9	18858.6	16589.2	15383.2	15282.7	15976.4	18219.9	19879.8	18920.2
27.5°	20343.4	20622.2	21471.6	19960.8	16945.8	15354.0	15234.0	15944.0	18537.6	21040.4	20576.8
30°	21808.8	22064.9	22641.9	20888.0	17383.5	15548.5	15399.4	16200.1	18809.9	21834.7	22191.3
32.5°	22959.7	23225.5	23540.0	21465.1	17960.5	15901.9	15626.3	16667.0	19166.5	22440.9	23387.6
35°	24159.2	24473.7	24451.0	21977.3	18498.7	16310.4	16041.3	17341.3	19727.4	22969.4	24904.8
37.5°	25679.7	25806.1	25644.0	22437.7	19143.8	17046.3	16897.2	18343.1	20524.9	23608.0	26678.2
40°	27222.8	27475.7	26642.5	22995.3	19928.4	18430.6	18414.4	19824.7	21471.6	24356.9	28396.4
42.5°	28545.6	28759.5	27576.2	23481.6	20878.3	20119.7	20242.9	21812.0	22713.3	25225.8	29777.5
45°	29540.9	29732.1	28438.6	23951.7	22129.7	22071.3	22797.6	23942.0	24279.1	26007.1	30588.0
47.5°	30387.0	30571.8	29038.3	24664.9	23676.1	24402.3	25666.7	26162.7	25618.1	26454.5	31495.8
50°	31100.2	31155.4	29450.1	25514.3	25595.4	27258.5	28484.0	28804.9	26940.8	27096.4	32283.6
52.5°	31842.7	31771.3	30160.1	26584.2	27670.2	29968.8	30860.3	31194.3	28208.4	27887.4	33431.2
55°	33505.8	33573.9	31751.9	27932.8	29767.8	32630.5	33804.0	33483.1	29612.2	29343.1	34890.1
57.5°	35515.8	35457.5	33992.1	30043.4	31904.3	35107.3	35982.7	35467.2	31486.0	31343.4	36368.4
60°	36297.1	36374.9	35865.9	32312.7	34011.5	37276.2	38171.0	37370.2	33732.7	33667.9	37483.7
62.5°	35512.6	35950.2	36293.9	34332.5	35807.6	38871.3	39759.6	38845.3	36076.7	36546.8	38265.0
65°	33949.9	34044.0	35214.3	36044.3	36673.2	39133.9	39597.5	39111.2	38034.8	39169.5	38229.3
67.5°	31920.5	32001.5	33372.9	36605.1	35558.0	36151.2	36475.4	36332.8	37428.6	40067.5	36469.0
70°	29988.2	29923.4	31372.6	35175.4	30954.4	30053.1	30322.2	29874.8	32296.5	37872.7	33016.2
72.5°	26227.6	26461.0	28017.1	31200.7	24509.3	23043.9	23630.7	22473.4	24840.0	32435.9	26798.1
75°	20544.4	20599.5	23196.3	26185.4	18489.0	16177.4	16971.7	16488.7	19027.1	27057.5	18505.2
77.5°	14225.8	14102.6	16893.9	19999.7	13185.1	11842.9	11855.9	11625.7	13285.6	19921.9	12572.4
80°	9035.4	8847.3	10575.3	12355.2	9061.3	9693.5	9375.8	9366.1	8649.6	12290.3	7602.4
82.5°	4882.4	5089.9	6681.7	7745.1	6500.2	7492.2	6866.5	6665.5	5936.1	7693.2	4863.0
85°	2224.0	2418.5	3562.9	5268.2	4937.5	4992.6	3336.0	3935.8	4911.6	6247.3	2596.8
87.5°	217.2	278.8	735.9	2486.6	1685.8	1329.2	496.0	956.4	1235.2	2220.8	207.5
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°	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9
2.5°	16786.9	16618.4	16044.5	15571.2	15068.7	14686.1	14186.9	13852.9	13622.8	13275.9	13233.7
5°	16015.3	15603.6	14605.1	13587.1	12708.5	12047.2	11376.1	10760.1	10397.0	10283.5	10137.6
7.5°	14715.3	14021.5	12737.7	11570.6	10562.3	9576.8	8818.2	8280.0	7920.1	7709.4	7456.5
10°	13645.5	12841.5	11278.8	9849.1	9019.2	8406.4	7738.6	7161.5	6717.4	6338.1	6130.6
12.5°	12925.7	12018.0	10260.8	9100.2	8458.3	7806.7	7025.4	6377.0	5722.1	5290.9	5106.1
15°	12708.5	11748.9	9946.4	8727.4	7806.7	6954.0	6078.7	5232.5	4584.1	4175.7	4039.5
17.5°	13240.2	12079.6	9943.1	8231.4	7041.6	6023.6	4901.9	4107.6	3443.0	3138.2	3041.0
20°	14232.3	12715.0	9972.3	7741.8	6211.6	4778.7	3566.2	2914.5	2596.8	2467.1	2418.5
22.5°	15616.6	13684.4	10059.8	7258.8	5303.9	3669.9	2671.4	2340.7	2227.2	2204.5	2194.8
25°	17321.9	14883.9	10354.9	6824.4	4538.8	2801.1	2233.7	2084.6	2019.7	1997.1	1993.8
27.5°	18891.0	16433.6	10711.5	6451.5	3799.6	2415.3	2019.7	1893.3	1828.5	1825.2	1831.7
30°	20307.7	17730.3	11009.7	6033.3	3238.7	2146.2	1880.3	1753.9	1692.3	1689.1	1708.5
32.5°	21533.2	18797.0	11230.2	5621.6	2927.5	1980.8	1753.9	1617.7	1565.9	1556.1	1565.9
35°	22842.9	19860.3	11129.7	5300.6	2749.2	1844.7	1659.9	1527.0	1465.4	1436.2	1436.2
37.5°	24337.5	20956.1	10957.9	5034.8	2668.1	1731.2	1578.8	1449.2	1387.6	1358.4	1355.1
40°	25968.2	22051.9	10721.2	4798.1	2587.1	1663.1	1523.7	1387.6	1313.0	1283.8	1277.3
42.5°	27407.6	22988.8	10526.7	4642.5	2454.2	1676.1	1475.1	1342.2	1248.2	1209.3	1206.0
45°	28659.0	23932.2	10491.0	4551.7	2343.9	1656.6	1462.1	1306.5	1196.3	1154.1	1147.7
47.5°	29638.1	24914.6	10695.3	4499.9	2224.0	1552.9	1546.4	1283.8	1150.9	1105.5	1099.0
50°	30831.2	26308.6	11162.1	4392.9	2113.8	1455.6	1634.0	1280.6	1115.2	1056.9	1040.7
52.5°	32419.7	28124.1	11794.3	4201.6	1954.9	1364.9	1559.4	1280.6	1073.1	1014.7	995.3
55°	34822.0	30438.9	12413.5	3932.5	1731.2	1244.9	1407.0	1241.7	1011.5	959.6	946.7
57.5°	36413.8	32131.2	12809.0	3559.7	1452.4	1157.4	1212.5	1180.1	949.9	894.8	894.8
60°	36494.9	32585.1	12621.0	3089.6	1277.3	1076.3	1053.6	1189.8	894.8	836.4	829.9
62.5°	35561.2	31473.1	11641.9	2668.1	1183.3	988.8	953.1	1043.9	839.7	781.3	771.6
65°	34102.3	28636.3	9943.1	2467.1	1131.4	911.0	859.1	855.9	781.3	726.2	713.2
67.5°	31421.2	25024.8	8169.8	2350.4	1105.5	823.5	774.8	758.6	713.2	667.8	661.4
70°	27469.2	20959.4	6552.0	2301.8	1092.5	732.7	693.8	674.3	635.4	599.8	596.5
72.5°	21371.1	17000.9	5407.6	2269.4	1086.1	648.4	606.2	580.3	557.6	525.2	525.2
75°	15350.7	12507.5	4127.0	2045.7	1005.0	557.6	512.2	496.0	463.6	437.7	444.2
77.5°	9677.3	8422.6	2716.8	1504.3	778.1	447.4	408.5	398.8	372.8	337.2	359.9
80°	6535.8	5923.1	1585.3	946.7	489.5	327.4	314.5	311.2	282.1	243.1	246.4
82.5°	4448.0	4363.7	823.5	538.2	282.1	191.3	184.8	191.3	158.9	129.7	129.7
85°	1737.7	2373.1	389.0	210.7	90.8	29.2	42.1	45.4	25.9	13.0	16.2
87.5°	32.4	243.1	9.7	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°	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9
2.5°	13168.9	13139.7	13188.3	12980.9	13023.0	13100.8	13139.7	13162.4	13483.4	13408.8	13613.0
5°	10273.8	10244.6	10432.7	10458.6	10555.9	10536.4	10630.4	10653.1	10769.8	10812.0	11097.3
7.5°	7472.7	7599.2	7813.2	7923.4	8088.7	8140.6	8092.0	8211.9	7968.8	8143.8	8195.7
10°	6004.1	5851.8	5761.0	6013.9	6046.3	6286.2	6188.9	6111.1	6253.8	6260.2	6396.4
12.5°	4999.1	4671.7	4454.5	4525.8	4603.6	4707.3	4723.6	4879.2	4982.9	5080.2	5161.2
15°	3919.5	3806.1	3608.3	3511.1	3621.3	3663.4	3763.9	3893.6	4003.8	4033.0	4143.2
17.5°	3008.6	3028.0	2995.6	2937.2	3005.3	3037.7	3044.2	3047.5	3076.6	3057.2	3219.3
20°	2421.8	2489.8	2570.9	2583.9	2606.5	2622.8	2593.6	2483.4	2486.6	2554.7	2606.5
22.5°	2191.6	2204.5	2295.3	2324.5	2395.8	2366.6	2282.3	2230.5	2224.0	2240.2	2266.1
25°	2010.0	2029.5	2094.3	2139.7	2194.8	2142.9	2081.3	2032.7	2026.2	2042.4	2068.4
27.5°	1847.9	1877.1	1935.5	1980.8	2032.7	1984.1	1925.7	1883.6	1880.3	1877.1	1893.3
30°	1718.2	1750.7	1792.8	1844.7	1880.3	1838.2	1783.1	1760.4	1757.1	1750.7	1757.1
32.5°	1588.6	1640.4	1682.6	1708.5	1744.2	1711.8	1669.6	1656.6	1634.0	1614.5	1604.8
35°	1442.7	1497.8	1562.6	1595.1	1630.7	1598.3	1569.1	1514.0	1475.1	1471.9	1478.3
37.5°	1358.4	1381.1	1433.0	1488.1	1523.7	1507.5	1452.4	1397.3	1387.6	1387.6	1394.0
40°	1283.8	1293.5	1316.2	1387.6	1452.4	1403.8	1335.7	1319.5	1319.5	1316.2	1319.5
42.5°	1209.3	1219.0	1219.0	1274.1	1377.8	1300.0	1248.2	1248.2	1248.2	1251.4	1261.1
45°	1141.2	1144.4	1141.2	1180.1	1277.3	1212.5	1176.8	1186.6	1193.0	1199.5	1206.0
47.5°	1082.8	1086.1	1082.8	1115.2	1163.9	1137.9	1118.5	1131.4	1144.4	1154.1	1160.6
50°	1030.9	1027.7	1034.2	1053.6	1076.3	1082.8	1069.9	1089.3	1095.8	1108.8	1125.0
52.5°	985.6	982.3	988.8	998.5	1030.9	1030.9	1030.9	1047.2	1060.1	1073.1	1095.8
55°	933.7	936.9	946.7	959.6	1001.8	995.3	998.5	1011.5	1024.5	1043.9	1056.9
57.5°	885.1	891.5	904.5	924.0	966.1	962.9	966.1	972.6	988.8	998.5	1011.5
60°	829.9	842.9	859.1	872.1	914.2	911.0	927.2	940.2	949.9	949.9	956.4
62.5°	774.8	794.3	810.5	820.2	865.6	868.8	891.5	901.3	907.8	901.3	911.0
65°	719.7	748.9	755.4	768.3	813.7	817.0	842.9	865.6	859.1	852.6	868.8
67.5°	664.6	700.3	697.0	713.2	758.6	765.1	787.8	826.7	813.7	807.3	820.2
70°	603.0	628.9	632.2	641.9	703.5	693.8	729.4	765.1	755.4	758.6	758.6
72.5°	534.9	557.6	557.6	577.1	641.9	625.7	654.9	693.8	693.8	690.5	690.5
75°	453.9	466.8	479.8	509.0	577.1	557.6	577.1	612.7	619.2	612.7	612.7
77.5°	366.3	385.8	392.3	431.2	479.8	476.6	496.0	512.2	525.2	518.7	518.7
80°	259.4	278.8	304.7	346.9	376.1	385.8	395.5	408.5	415.0	415.0	421.5
82.5°	145.9	175.1	197.8	239.9	252.9	301.5	298.3	308.0	298.3	262.6	291.8
85°	32.4	61.6	87.5	110.2	126.4	175.1	184.8	207.5	171.8	158.9	158.9
87.5°	0.0	0.0	0.0	0.0	0.0	25.9	51.9	71.3	61.6	51.9	51.9
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°	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9	15794.9
2.5°	13784.9	14066.9	14407.3	14994.1	15405.9	15850.0	16297.4	16774.0	16900.4	17030.1
5°	11175.1	11729.5	12031.0	12818.8	13645.5	14695.9	15555.0	16495.2	16887.4	16978.2
7.5°	8464.8	8840.9	9631.9	10429.4	11453.9	12556.2	13872.4	15337.8	15794.9	15986.2
10°	6710.9	7223.1	7916.9	8772.8	9670.8	10857.4	12342.2	14054.0	14702.3	14809.3
12.5°	5712.4	6282.9	7038.3	7942.8	8792.2	9687.0	11184.8	12951.7	13645.5	13875.6
15°	4567.9	5258.5	6130.6	7083.7	8007.7	8986.7	10504.0	12497.8	13298.6	13567.7
17.5°	3588.9	4146.5	5089.9	6124.1	7219.9	8458.3	10361.3	12715.0	13700.6	13950.2
20°	2746.0	3144.7	3939.0	5031.5	6315.4	7936.3	10397.0	13535.2	14715.3	15055.7
22.5°	2373.1	2577.4	3060.4	4101.1	5537.3	7482.5	10542.9	14660.2	16083.4	16650.8
25°	2149.4	2256.4	2528.7	3209.6	4794.9	7041.6	10876.8	16174.2	17996.2	18372.3
27.5°	1958.2	2036.0	2204.5	2694.1	4120.5	6633.1	11265.9	17853.5	19782.5	20343.4
30°	1776.6	1880.3	2039.2	2392.6	3689.4	6260.2	11755.4	19215.2	21286.8	21808.8
32.5°	1637.2	1740.9	1886.8	2181.8	3323.0	5868.0	12047.2	20411.5	22515.5	22959.7
35°	1523.7	1611.3	1763.6	2013.3	3044.2	5569.7	11988.8	21361.4	23705.3	24159.2
37.5°	1442.7	1517.2	1669.6	1854.4	2833.5	5258.5	11959.6	22616.0	25154.5	25679.7
40°	1368.1	1445.9	1585.3	1750.7	2622.8	4892.1	11975.8	23860.9	26697.6	27222.8
42.5°	1309.8	1397.3	1510.8	1721.5	2405.5	4597.1	11975.8	24943.7	28039.8	28545.6
45°	1261.1	1355.1	1465.4	1718.2	2233.7	4373.4	11894.8	25874.2	29109.7	29540.9
47.5°	1219.0	1322.7	1481.6	1659.9	2191.6	4211.3	11823.5	26619.8	29981.8	30387.0
50°	1189.8	1313.0	1575.6	1591.8	2204.5	4162.7	12167.1	27560.0	30750.1	31100.2
52.5°	1167.1	1316.2	1572.4	1491.3	2181.8	4195.1	12883.6	29028.6	31816.7	31842.7
55°	1121.7	1313.0	1491.3	1377.8	2087.8	4250.2	13804.3	31161.8	33486.3	33505.8
57.5°	1076.3	1277.3	1384.3	1280.6	1896.6	4250.2	14913.1	33181.6	35499.6	35515.8
60°	1030.9	1329.2	1215.7	1196.3	1646.9	4172.4	16083.4	34069.9	36131.8	36297.1
62.5°	985.6	1338.9	1086.1	1121.7	1465.4	3984.4	16955.5	33087.6	35275.9	35512.6
65°	933.7	1079.6	1001.8	1043.9	1371.4	3669.9	16679.9	31288.3	33667.9	33949.9
67.5°	872.1	914.2	911.0	962.9	1338.9	3206.3	15227.5	29012.4	31936.7	31920.5
70°	797.5	820.2	829.9	885.1	1277.3	2846.5	12689.1	26059.0	29625.1	29988.2
72.5°	719.7	739.2	748.9	797.5	1215.7	2642.2	9849.1	21990.3	25660.2	26227.6
75°	635.4	648.4	661.4	703.5	1150.9	2340.7	7015.6	16786.9	19652.8	20544.4
77.5°	547.9	547.9	564.1	606.2	969.3	1932.2	4707.3	11774.8	13314.8	14225.8
80°	444.2	447.4	440.9	486.3	713.2	1322.7	2674.6	7865.0	8860.3	9035.4
82.5°	340.4	330.7	333.9	356.6	531.7	901.3	1426.5	4885.7	4979.7	4882.4
85°	214.0	214.0	207.5	233.4	340.4	470.1	778.1	2992.3	2337.5	2224.0
87.5°	87.5	71.3	81.0	94.0	162.1	191.3	304.7	616.0	236.7	217.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)