

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: P458439

Luminaire Tested: **GLAN-SA9D-760-U-SLL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458439
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-760-U-SLL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 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: 60451 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

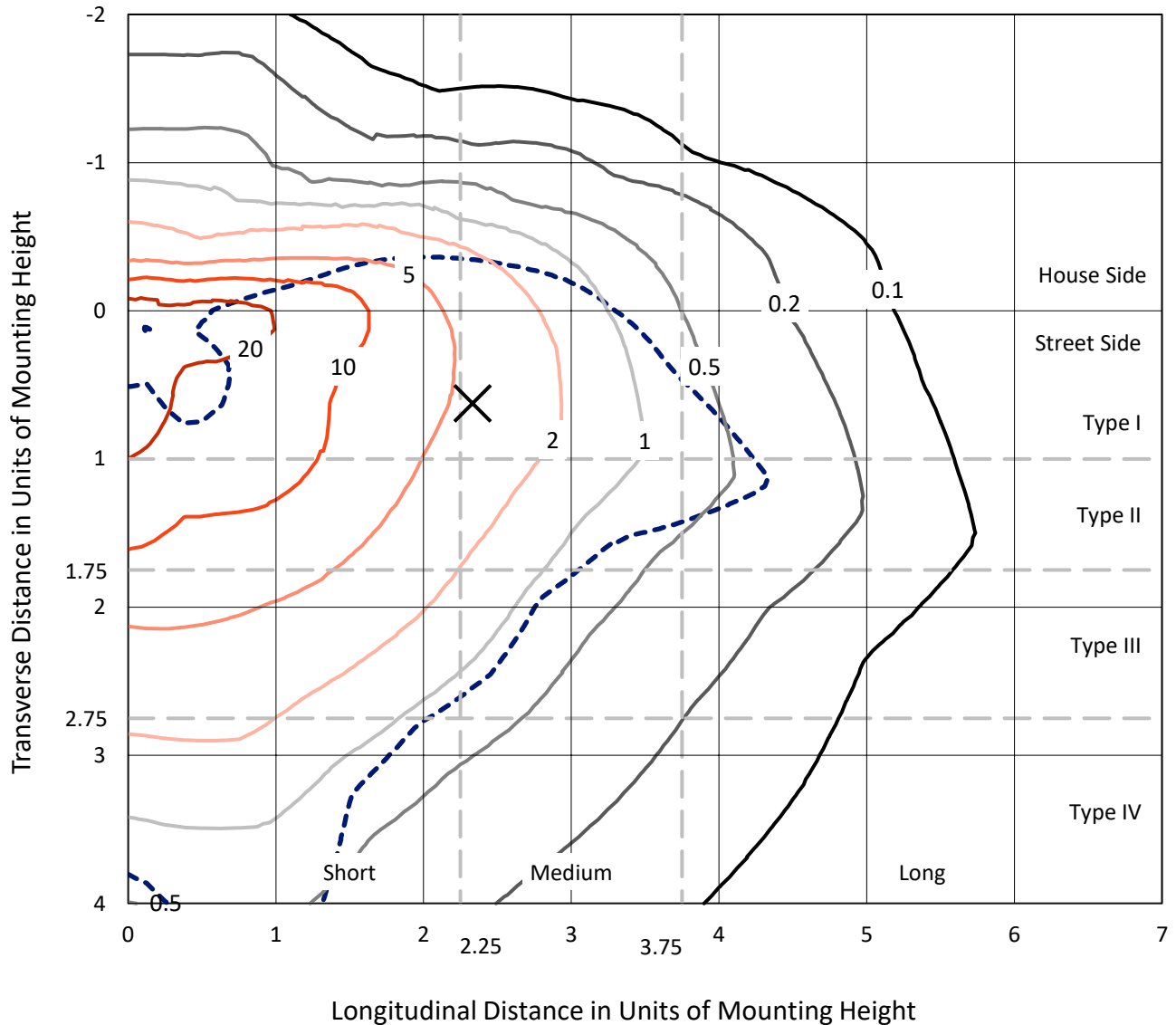
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

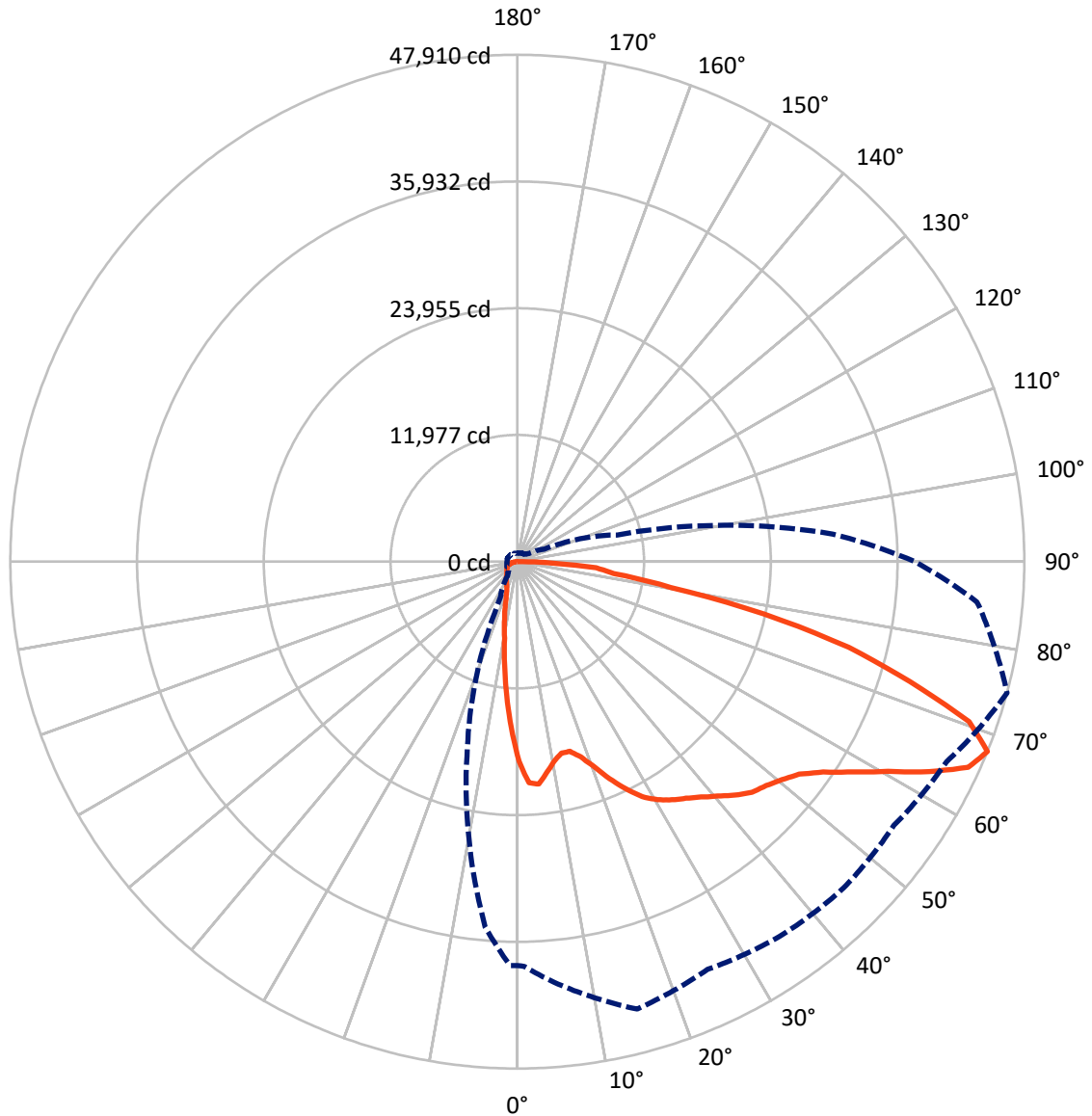
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 37.2 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	10217.5	0.0	10217.5
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	50233.5	0.0	50233.5
	% Fixture	83.1	0.0	83.1
Total	Lumens	60451.0	0.0	60451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1432.5	2.4
10°-20°	2987.5	4.9
20°-30°	4299.0	7.1
30°-40°	6191.8	10.2
40°-50°	8697.8	14.4
50°-60°	12130.3	20.1
60°-70°	14422.2	23.9
70°-80°	8493.9	14.1
80°-90°	1796.1	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°	60451.0	100.0
0°-180°	60451.0	100.0

Coefficient of Utilization



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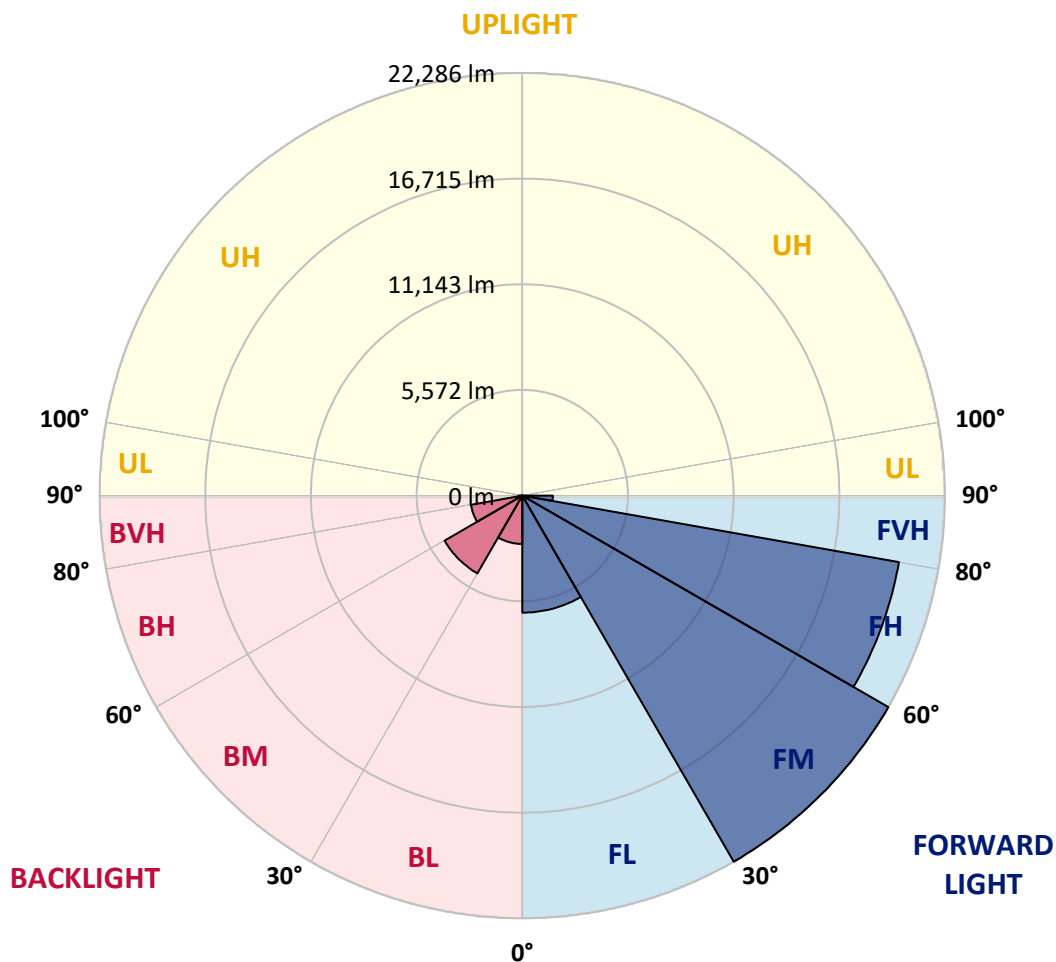
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6170.4	10.2			
FM	(30°-60°)	22286.0	36.9			
FH	(60°-80°)	20166.7	33.4			G5
FVH	(80°-90°)	1610.4	2.7			G5
BL	(0°-30°)	2548.6	4.2	B4/5000		
BM	(30°-60°)	4733.8	7.8	B3/5000		
BH	(60°-80°)	2749.3	4.5	B4/5000		G4/5000
BVH	(80°-90°)	185.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3
2.5°	20363.3	20390.4	20564.8	21072.7	21421.6	21549.5	21638.6	21472.0	21309.1	20913.7	20316.8
5°	20301.2	20460.2	20913.7	22053.4	22952.8	23340.4	23456.7	22956.7	22131.0	21115.3	19894.2
7.5°	19115.0	19328.2	20026.0	21937.1	23522.6	24429.7	24309.6	23406.3	21917.7	20107.4	18401.8
10°	17707.9	17944.3	18785.5	21095.9	23138.8	24387.1	24387.1	23286.2	21309.1	19157.7	17192.3
12.5°	16591.4	16839.5	17800.9	20231.5	22340.3	23522.6	23720.3	22774.5	20871.1	18556.8	16397.6
15°	16223.2	16463.5	17498.5	19708.1	21495.2	22216.2	22282.1	21972.0	20657.9	18599.5	16362.7
17.5°	16680.6	16990.7	18037.4	19863.2	20719.9	20762.6	20812.9	21057.2	20681.1	19378.6	17068.2
20°	18002.5	18335.9	19429.0	20363.3	20041.5	19599.6	19626.7	20254.7	20956.4	20665.6	18754.5
22.5°	19909.7	20200.5	21320.8	21243.2	19754.7	18843.7	18653.7	19529.8	21363.4	22270.5	20549.3
25°	21968.1	22309.3	23596.3	22549.6	19836.1	18394.0	18273.8	19103.4	21785.9	23770.7	22623.3
27.5°	24325.1	24658.4	25674.1	23867.6	20262.5	18359.1	18215.7	19064.6	22165.8	25158.5	24604.2
30°	26077.2	26383.5	27073.5	24976.3	20785.8	18591.7	18413.4	19370.9	22491.5	26108.2	26534.7
32.5°	27453.4	27771.3	28147.3	25666.3	21475.8	19014.2	18684.7	19929.1	22917.9	26833.2	27965.1
35°	28887.7	29263.7	29236.6	26278.8	22119.3	19502.7	19180.9	20735.4	23588.5	27465.0	29779.3
37.5°	30705.8	30857.0	30663.1	26829.3	22890.8	20382.7	20204.3	21933.3	24542.1	28228.7	31899.7
40°	32551.0	32853.4	31857.1	27496.0	23828.9	22037.9	22018.5	23704.8	25674.1	29124.2	33954.3
42.5°	34132.6	34388.5	32973.5	28077.5	24964.7	24057.6	24204.9	26081.1	27158.8	30163.1	35605.7
45°	35322.7	35551.4	34004.7	28639.6	26461.0	26391.2	27259.6	28628.0	29031.1	31097.3	36574.8
47.5°	36334.5	36555.4	34721.8	29492.4	28310.1	29178.4	30690.3	31283.4	30632.1	31632.3	37660.2
50°	37187.3	37253.2	35214.2	30508.1	30605.0	32593.6	34059.0	34442.7	32213.7	32399.8	38602.2
52.5°	38075.0	37989.7	36063.1	31787.3	33086.0	35834.4	36900.4	37299.7	33729.5	33345.7	39974.5
55°	40063.7	40145.1	37966.5	33400.0	35594.1	39017.0	40420.3	40036.5	35408.0	35086.2	41718.9
57.5°	42467.1	42397.3	40645.1	35923.6	38148.7	41978.7	43025.3	42408.9	37648.6	37478.0	43486.6
60°	43401.3	43494.4	42885.8	38637.1	40668.4	44572.0	45641.9	44684.5	40335.0	40257.5	44820.1
62.5°	42463.2	42986.5	43397.5	41052.2	42816.0	46479.3	47541.4	46448.3	43137.7	43699.8	45754.4
65°	40594.7	40707.2	42106.6	43099.0	43851.0	46793.3	47347.6	46766.1	45479.1	46835.9	45711.7
67.5°	38168.0	38265.0	39904.7	43769.6	42517.5	43226.9	43614.5	43444.0	44754.2	47909.7	43606.8
70°	35857.7	35780.1	37512.9	42060.1	37012.9	35935.2	36256.9	35722.0	38617.7	45285.3	39478.3
72.5°	31360.9	31640.0	33500.7	37307.5	29306.4	27554.2	28255.8	26871.9	29701.8	38784.4	32043.2
75°	24565.4	24631.3	27736.4	31310.5	22107.7	19343.8	20293.5	19715.9	22751.2	32353.3	22127.1
77.5°	17010.1	16862.8	20200.5	23914.1	15765.7	14160.9	14176.4	13901.1	15885.9	23821.1	15033.1
80°	10803.8	10579.0	12645.2	14773.4	10834.8	11590.7	11210.8	11199.2	10342.5	14695.8	9090.4
82.5°	5838.0	6086.1	7989.5	9261.0	7772.4	8958.6	8210.4	7970.1	7097.9	9198.9	5814.8
85°	2659.3	2891.9	4260.3	6299.3	5903.9	5969.8	3988.9	4706.1	5872.9	7470.0	3105.1
87.5°	259.7	333.4	880.0	2973.3	2015.8	1589.4	593.1	1143.6	1476.9	2655.4	248.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3
2.5°	20072.5	19871.0	19184.8	18618.8	18018.0	17560.6	16963.6	16564.3	16289.1	15874.3	15823.9
5°	19149.9	18657.6	17463.6	16246.4	15195.9	14405.1	13602.6	12866.1	12431.9	12296.3	12121.8
7.5°	17595.4	16765.9	15230.8	13835.2	12629.6	11451.2	10544.1	9900.6	9470.3	9218.3	8916.0
10°	16316.2	15354.8	13486.4	11776.8	10784.4	10051.8	9253.2	8563.2	8032.1	7578.6	7330.5
12.5°	15455.6	14370.2	12269.1	10881.3	10113.8	9334.6	8400.4	7625.1	6842.0	6326.5	6105.5
15°	15195.9	14048.4	11893.1	10435.5	9334.6	8315.1	7268.4	6256.7	5481.4	4992.9	4830.1
17.5°	15831.6	14443.9	11889.2	9842.4	8419.8	7202.5	5861.3	4911.5	4116.8	3752.5	3636.2
20°	17017.8	15203.6	11924.1	9257.1	7427.4	5714.0	4264.2	3485.0	3105.1	2950.0	2891.9
22.5°	18673.1	16362.7	12028.8	8679.5	6342.0	4388.2	3194.2	2798.8	2663.2	2636.0	2624.4
25°	20712.2	17797.0	12381.6	8160.0	5427.1	3349.3	2670.9	2492.6	2415.1	2387.9	2384.0
27.5°	22588.4	19650.0	12808.0	7714.2	4543.3	2888.0	2415.1	2263.9	2186.3	2182.5	2190.2
30°	24282.4	21200.6	13164.6	7214.2	3872.6	2566.2	2248.4	2097.2	2023.5	2019.7	2042.9
32.5°	25747.7	22476.0	13428.2	6721.9	3500.5	2368.5	2097.2	1934.4	1872.4	1860.7	1872.4
35°	27313.8	23747.5	13308.0	6338.1	3287.3	2205.7	1984.8	1825.8	1752.2	1717.3	1717.3
37.5°	29100.9	25057.7	13102.6	6020.2	3190.4	2070.1	1887.9	1732.8	1659.1	1624.3	1620.4
40°	31050.8	26368.0	12819.6	5737.2	3093.4	1988.6	1822.0	1659.1	1570.0	1535.1	1527.3
42.5°	32772.0	27488.3	12587.0	5551.2	2934.5	2004.2	1763.8	1604.9	1492.5	1445.9	1442.1
45°	34268.3	28616.3	12544.4	5442.6	2802.7	1980.9	1748.3	1562.2	1430.4	1380.0	1372.3
47.5°	35439.0	29790.9	12788.6	5380.6	2659.3	1856.8	1849.1	1535.1	1376.2	1321.9	1314.1
50°	36865.5	31457.8	13346.8	5252.7	2527.5	1740.5	1953.8	1531.2	1333.5	1263.7	1244.4
52.5°	38765.0	33628.7	14102.7	5023.9	2337.5	1632.0	1864.6	1531.2	1283.1	1213.3	1190.1
55°	41637.5	36396.5	14843.1	4702.2	2070.1	1488.6	1682.4	1484.7	1209.5	1147.4	1131.9
57.5°	43540.9	38420.0	15316.1	4256.4	1736.7	1383.9	1449.8	1411.0	1135.8	1069.9	1069.9
60°	43637.8	38962.7	15091.2	3694.3	1527.3	1287.0	1259.9	1422.7	1069.9	1000.1	992.4
62.5°	42521.4	37633.1	13920.5	3190.4	1414.9	1182.3	1139.7	1248.2	1004.0	934.2	922.6
65°	40776.9	34241.2	11889.2	2950.0	1352.9	1089.3	1027.3	1023.4	934.2	868.3	852.8
67.5°	37571.1	29922.7	9768.8	2810.5	1321.9	984.6	926.5	907.1	852.8	798.6	790.8
70°	32845.6	25061.6	7834.4	2752.3	1306.4	876.1	829.6	806.3	759.8	717.2	713.3
72.5°	25553.9	20328.4	6466.0	2713.6	1298.6	775.3	724.9	693.9	666.8	628.0	628.0
75°	18355.2	14955.5	4934.8	2446.1	1201.7	666.8	612.5	593.1	554.3	523.3	531.1
77.5°	11571.4	10071.2	3248.5	1798.7	930.4	535.0	488.4	476.8	445.8	403.2	430.3
80°	7815.0	7082.4	1895.6	1131.9	585.4	391.5	376.0	372.1	337.3	290.7	294.6
82.5°	5318.6	5217.8	984.6	643.5	337.3	228.7	221.0	228.7	189.9	155.1	155.1
85°	2077.8	2837.6	465.2	252.0	108.5	34.9	50.4	54.3	31.0	15.5	19.4
87.5°	38.8	290.7	11.6	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°	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3
2.5°	15746.4	15711.5	15769.6	15521.5	15571.9	15664.9	15711.5	15738.6	16122.4	16033.2	16277.4
5°	12284.6	12249.7	12474.6	12505.6	12621.9	12598.6	12711.1	12738.2	12877.7	12928.1	13269.3
7.5°	8935.3	9086.5	9342.4	9474.2	9671.9	9733.9	9675.8	9819.2	9528.4	9737.8	9799.8
10°	7179.3	6997.1	6888.5	7190.9	7229.7	7516.5	7400.2	7307.2	7477.8	7485.5	7648.3
12.5°	5977.6	5586.0	5326.3	5411.6	5504.6	5628.7	5648.1	5834.1	5958.2	6074.5	6171.4
15°	4686.7	4551.0	4314.5	4198.3	4330.1	4380.4	4500.6	4655.7	4787.5	4822.4	4954.2
17.5°	3597.4	3620.7	3581.9	3512.1	3593.5	3632.3	3640.0	3643.9	3678.8	3655.5	3849.4
20°	2895.7	2977.2	3074.1	3089.6	3116.7	3136.1	3101.2	2969.4	2973.3	3054.7	3116.7
22.5°	2620.5	2636.0	2744.6	2779.5	2864.7	2829.8	2729.1	2667.0	2659.3	2678.7	2709.7
25°	2403.4	2426.7	2504.2	2558.5	2624.4	2562.4	2488.7	2430.6	2422.8	2442.2	2473.2
27.5°	2209.6	2244.5	2314.3	2368.5	2430.6	2372.4	2302.6	2252.2	2248.4	2244.5	2263.9
30°	2054.5	2093.3	2143.7	2205.7	2248.4	2198.0	2132.1	2104.9	2101.1	2093.3	2101.1
32.5°	1899.5	1961.5	2011.9	2042.9	2085.6	2046.8	1996.4	1980.9	1953.8	1930.5	1918.9
35°	1725.0	1790.9	1868.5	1907.2	1949.9	1911.1	1876.2	1810.3	1763.8	1759.9	1767.7
37.5°	1624.3	1651.4	1713.4	1779.3	1822.0	1802.6	1736.7	1670.8	1659.1	1659.1	1666.9
40°	1535.1	1546.7	1573.9	1659.1	1736.7	1678.5	1597.1	1577.7	1577.7	1573.9	1577.7
42.5°	1445.9	1457.6	1457.6	1523.5	1647.5	1554.5	1492.5	1492.5	1492.5	1496.3	1508.0
45°	1364.5	1368.4	1364.5	1411.0	1527.3	1449.8	1407.2	1418.8	1426.6	1434.3	1442.1
47.5°	1294.8	1298.6	1294.8	1333.5	1391.7	1360.7	1337.4	1352.9	1368.4	1380.0	1387.8
50°	1232.7	1228.9	1236.6	1259.9	1287.0	1294.8	1279.2	1302.5	1310.3	1325.8	1345.1
52.5°	1178.5	1174.6	1182.3	1194.0	1232.7	1232.7	1232.7	1252.1	1267.6	1283.1	1310.3
55°	1116.4	1120.3	1131.9	1147.4	1197.8	1190.1	1194.0	1209.5	1225.0	1248.2	1263.7
57.5°	1058.3	1066.0	1081.5	1104.8	1155.2	1151.3	1155.2	1163.0	1182.3	1194.0	1209.5
60°	992.4	1007.9	1027.3	1042.8	1093.2	1089.3	1108.7	1124.2	1135.8	1135.8	1143.6
62.5°	926.5	949.7	969.1	980.8	1035.0	1038.9	1066.0	1077.7	1085.4	1077.7	1089.3
65°	860.6	895.5	903.2	918.7	973.0	976.9	1007.9	1035.0	1027.3	1019.5	1038.9
67.5°	794.7	837.3	833.4	852.8	907.1	914.9	942.0	988.5	973.0	965.2	980.8
70°	721.0	752.0	755.9	767.5	841.2	829.6	872.2	914.9	903.2	907.1	907.1
72.5°	639.6	666.8	666.8	690.0	767.5	748.2	783.1	829.6	829.6	825.7	825.7
75°	542.7	558.2	573.7	608.6	690.0	666.8	690.0	732.7	740.4	732.7	732.7
77.5°	438.0	461.3	469.1	515.6	573.7	569.8	593.1	612.5	628.0	620.2	620.2
80°	310.1	333.4	364.4	414.8	449.7	461.3	472.9	488.4	496.2	496.2	503.9
82.5°	174.4	209.3	236.5	286.9	302.4	360.5	356.6	368.3	356.6	314.0	348.9
85°	38.8	73.7	104.7	131.8	151.2	209.3	221.0	248.1	205.5	189.9	189.9
87.5°	0.0	0.0	0.0	0.0	0.0	31.0	62.0	85.3	73.7	62.0	62.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3	18886.3
2.5°	16482.9	16820.1	17227.2	17928.8	18421.1	18952.2	19487.2	20057.0	20208.2	20363.3
5°	13362.3	14025.2	14385.7	15327.7	16316.2	17572.2	18599.5	19723.6	20192.7	20301.2
7.5°	10121.5	10571.2	11517.1	12470.7	13695.7	15013.7	16587.6	18339.7	18886.3	19115.0
10°	8024.4	8636.8	9466.4	10489.8	11563.6	12982.4	14757.8	16804.6	17579.9	17707.9
12.5°	6830.4	7512.7	8415.9	9497.4	10513.1	11583.0	13373.9	15486.6	16316.2	16591.4
15°	5462.0	6287.7	7330.5	8470.2	9575.0	10745.7	12559.9	14943.9	15901.4	16223.2
17.5°	4291.3	4958.0	6086.1	7322.7	8633.0	10113.8	12389.3	15203.6	16382.1	16680.6
20°	3283.4	3760.2	4710.0	6016.3	7551.4	9489.7	12431.9	16184.4	17595.4	18002.5
22.5°	2837.6	3081.8	3659.4	4903.8	6621.1	8947.0	12606.4	17529.5	19231.3	19909.7
25°	2570.1	2698.0	3023.7	3837.7	5733.3	8419.8	13005.7	19339.9	21518.5	21968.1
27.5°	2341.4	2434.4	2636.0	3221.4	4927.0	7931.3	13470.8	21347.9	23654.4	24325.1
30°	2124.3	2248.4	2438.3	2860.9	4411.5	7485.5	14056.2	22976.0	25453.1	26077.2
32.5°	1957.6	2081.7	2256.1	2608.9	3973.4	7016.5	14405.1	24406.5	26922.3	27453.4
35°	1822.0	1926.6	2108.8	2407.3	3640.0	6659.8	14335.3	25542.3	28345.0	28887.7
37.5°	1725.0	1814.2	1996.4	2217.4	3388.1	6287.7	14300.4	27042.5	30077.8	30705.8
40°	1635.9	1728.9	1895.6	2093.3	3136.1	5849.6	14319.8	28531.1	31923.0	32551.0
42.5°	1566.1	1670.8	1806.5	2058.4	2876.4	5496.9	14319.8	29825.8	33527.9	34132.6
45°	1508.0	1620.4	1752.2	2054.5	2670.9	5229.4	14222.9	30938.4	34807.1	35322.7
47.5°	1457.6	1581.6	1771.6	1984.8	2620.5	5035.6	14137.6	31830.0	35849.9	36334.5
50°	1422.7	1570.0	1884.0	1903.4	2636.0	4977.4	14548.5	32954.2	36768.6	37187.3
52.5°	1395.5	1573.9	1880.1	1783.2	2608.9	5016.2	15405.2	34710.2	38044.0	38075.0
55°	1341.3	1570.0	1783.2	1647.5	2496.5	5082.1	16506.2	37260.9	40040.4	40063.7
57.5°	1287.0	1527.3	1655.3	1531.2	2267.8	5082.1	17831.9	39676.0	42447.7	42467.1
60°	1232.7	1589.4	1453.7	1430.4	1969.3	4989.1	19231.3	40738.2	43203.6	43401.3
62.5°	1178.5	1601.0	1298.6	1341.3	1752.2	4764.2	20274.1	39563.6	42180.2	42463.2
65°	1116.4	1290.9	1197.8	1248.2	1639.8	4388.2	19944.6	37412.1	40257.5	40594.7
67.5°	1042.8	1093.2	1089.3	1151.3	1601.0	3833.9	18207.9	34690.8	38187.4	38168.0
70°	953.6	980.8	992.4	1058.3	1527.3	3403.6	15172.6	31159.3	35423.5	35857.7
72.5°	860.6	883.8	895.5	953.6	1453.7	3159.3	11776.8	26294.3	30682.5	31360.9
75°	759.8	775.3	790.8	841.2	1376.2	2798.8	8388.8	20072.5	23499.4	24565.4
77.5°	655.1	655.1	674.5	724.9	1159.1	2310.4	5628.7	14079.5	15920.8	17010.1
80°	531.1	535.0	527.2	581.5	852.8	1581.6	3198.1	9404.4	10594.5	10803.8
82.5°	407.0	395.4	399.3	426.4	635.7	1077.7	1705.7	5841.9	5954.3	5838.0
85°	255.8	255.8	248.1	279.1	407.0	562.1	930.4	3578.0	2795.0	2659.3
87.5°	104.7	85.3	96.9	112.4	193.8	228.7	364.4	736.5	283.0	259.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)