

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: P529304

Luminaire Tested: **GLAN-SA4C-722-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA4C-722-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15226 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 213
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



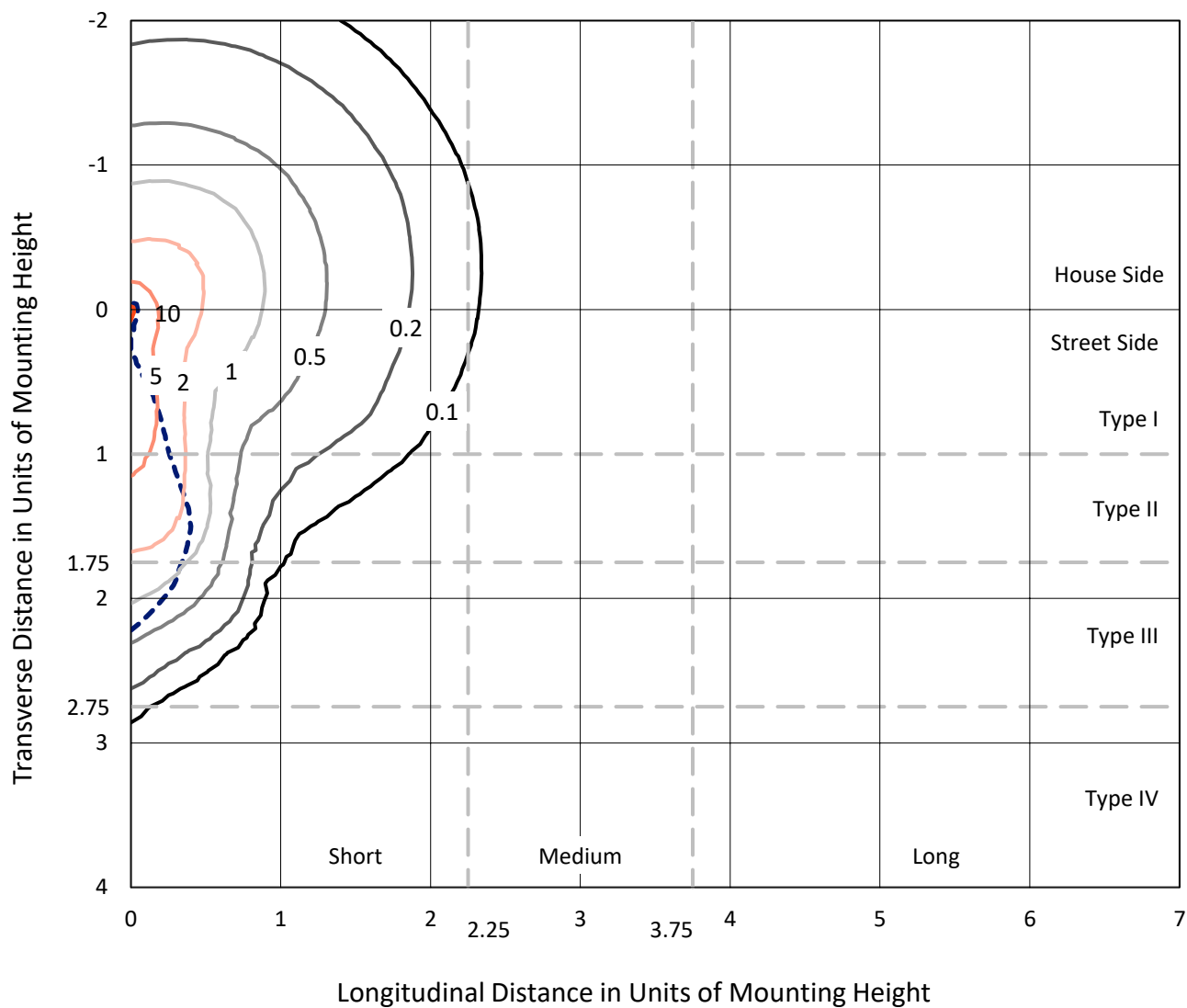
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

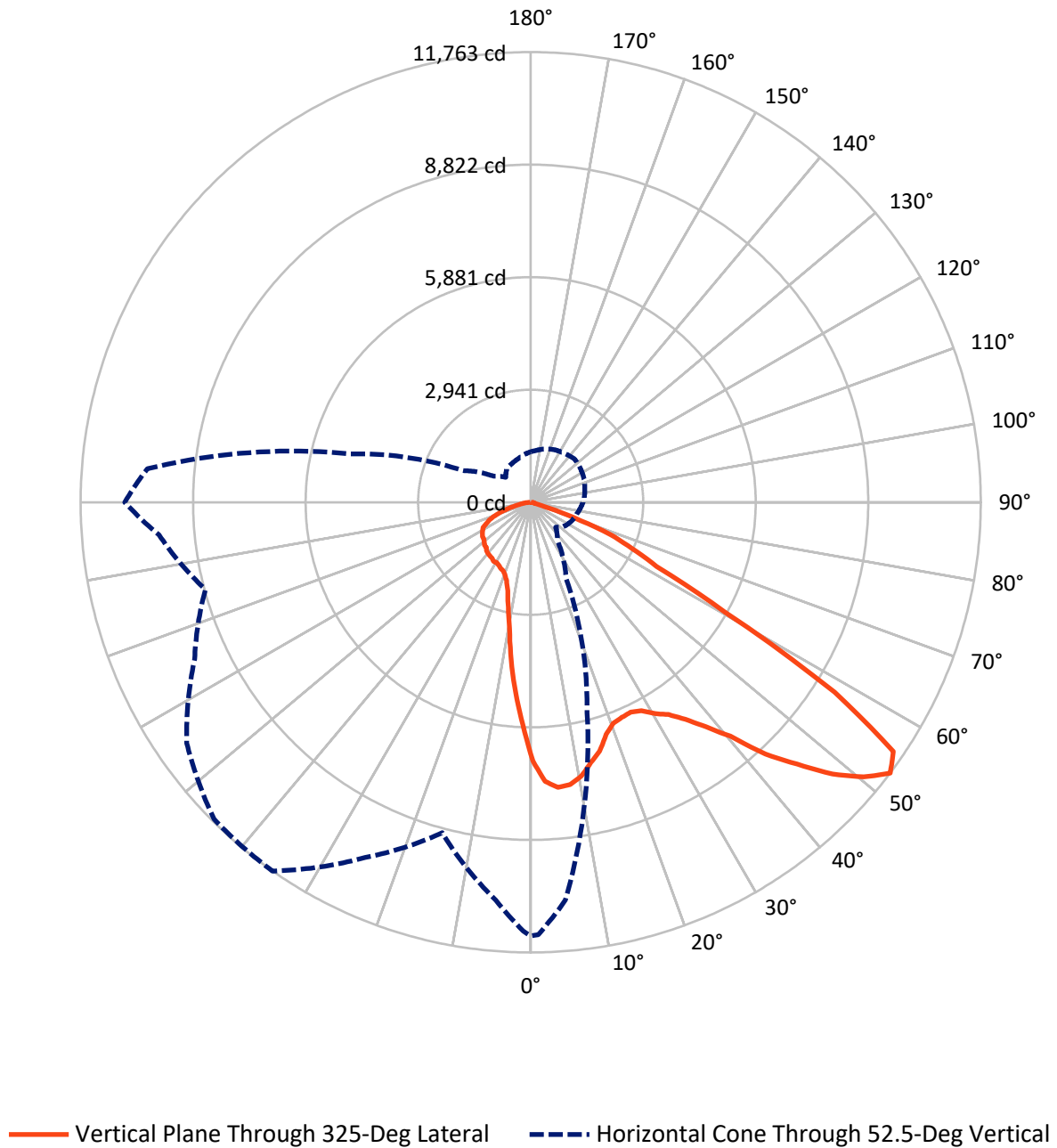
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4590.0	0.0	4590.0
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	10636.0	0.0	10636.0
	% Fixture	69.9	0.0	69.9
Total	Lumens	15226.0	0.0	15226.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	515.5	3.4
10°-20°	1117.6	7.3
20°-30°	1688.6	11.1
30°-40°	2440.1	16.0
40°-50°	3247.3	21.3
50°-60°	3632.2	23.9
60°-70°	2047.1	13.4
70°-80°	456.3	3.0
80°-90°	81.3	0.5
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°	15226.0	100.0
0°-180°	15226.0	100.0

Coefficient of Utilization



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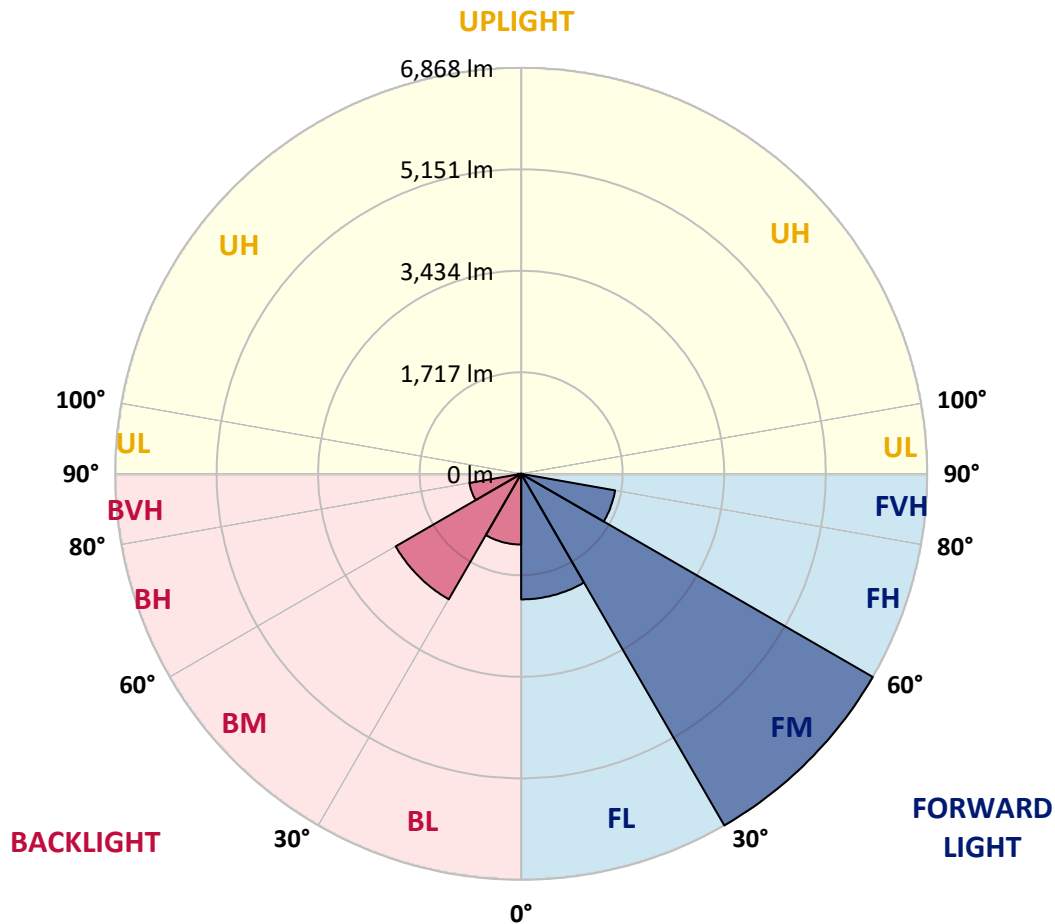
CATALOG NUMBER: GLAN-SA4C-722-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2124.8	14.0			
FM	(30°-60°)	6868.1	45.1			
FH	(60°-80°)	1613.7	10.6			G1/1800
FVH	(80°-90°)	29.4	0.2			G1/100
BL	(0°-30°)	1197.0	7.9	B3/2500		
BM	(30°-60°)	2451.5	16.1	B2/2500		
BH	(60°-80°)	889.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	51.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4
2.5°	6869.9	6980.3	6861.1	6649.3	6499.2	6362.4	6218.9	6190.2	6002.6	5969.5	5832.7
5°	6479.3	6455.1	6309.4	6031.3	5724.6	5446.5	5241.3	5042.7	4908.0	4751.4	4740.3
7.5°	6004.9	5863.6	5779.8	5358.2	4978.7	4541.7	4354.1	4051.8	3956.9	3815.7	3742.8
10°	5581.1	5477.4	5281.0	4859.5	4329.9	4040.8	3839.9	3676.6	3566.3	3420.6	3237.5
12.5°	5371.5	5329.6	5108.9	4455.6	4062.8	3753.9	3612.6	3453.7	3266.1	3032.2	2941.7
15°	5409.0	5267.8	5100.0	4378.4	3835.5	3537.6	3312.5	3113.9	2873.3	2650.4	2520.2
17.5°	5689.3	5581.1	5245.7	4427.0	3749.4	3319.1	2910.8	2617.3	2401.1	2200.2	2109.8
20°	6241.0	6084.3	5706.9	4488.7	3564.1	3014.6	2546.7	2184.8	1953.1	1847.1	1816.2
22.5°	6852.3	6759.6	6157.1	4627.8	3416.2	2732.1	2160.5	1798.6	1712.5	1683.8	1741.2
25°	7596.0	7355.5	6856.7	4855.1	3301.5	2491.5	1833.9	1633.1	1588.9	1617.6	1683.8
27.5°	8161.0	8097.0	7346.6	5069.1	3144.8	2202.4	1650.7	1518.3	1531.6	1560.2	1622.0
30°	8831.8	8507.4	7821.1	5217.0	3003.5	2003.8	1522.7	1487.4	1500.7	1549.2	1580.1
32.5°	9235.7	9114.3	8119.0	5439.9	2840.2	1831.7	1423.4	1390.3	1410.2	1483.0	1555.8
35°	9749.9	9509.3	8487.6	5497.3	2725.5	1763.3	1352.8	1328.5	1374.9	1425.6	1507.3
37.5°	10350.2	10184.6	8997.4	5457.6	2663.7	1692.7	1293.2	1282.2	1315.3	1385.9	1480.8
40°	10705.5	10654.7	9264.4	5481.8	2566.6	1630.9	1224.8	1238.0	1306.5	1361.6	1454.3
42.5°	11047.5	10716.5	9659.4	5473.0	2504.8	1547.0	1231.4	1216.0	1268.9	1332.9	1421.2
45°	11122.6	10793.7	9752.1	5411.2	2429.7	1465.4	1180.7	1187.3	1251.3	1330.7	1388.1
47.5°	11074.0	10831.2	9924.2	5393.6	2359.1	1408.0	1105.6	1185.1	1222.6	1286.6	1368.3
50°	11040.9	11027.7	10069.9	5477.4	2264.2	1317.5	1015.2	1156.4	1193.9	1257.9	1346.2
52.5°	11332.2	11303.5	10434.0	5698.1	2189.2	1220.4	922.5	1083.6	1174.0	1235.8	1321.9
55°	11508.8	11383.0	11058.6	5969.5	2063.4	1092.4	858.5	993.1	1125.5	1180.7	1268.9
57.5°	10352.4	10266.3	10003.7	5572.3	1851.6	924.7	779.0	900.4	1059.3	1145.4	1235.8
60°	8613.4	8478.7	7805.6	4735.9	1366.0	719.4	730.5	827.6	1041.6	1074.7	1180.7
62.5°	8121.2	7788.0	6872.1	3811.2	1048.3	617.9	655.4	761.4	948.9	1004.1	1110.0
65°	6444.0	6196.9	4916.9	2751.9	701.8	536.3	598.1	686.3	818.7	926.9	1024.0
67.5°	4034.1	3798.0	2624.0	1302.0	489.9	459.0	534.1	626.7	734.9	832.0	940.1
70°	2107.5	1849.3	1211.6	470.1	337.6	375.2	445.8	534.1	640.0	719.4	803.3
72.5°	785.6	637.8	395.0	203.0	233.9	286.9	361.9	425.9	501.0	598.1	644.4
75°	121.4	103.7	101.5	123.6	158.9	207.4	258.2	322.2	388.4	450.2	481.1
77.5°	57.4	55.2	61.8	81.7	105.9	147.9	187.6	249.4	302.3	342.1	359.7
80°	37.5	35.3	39.7	55.2	79.4	110.3	150.1	192.0	240.5	273.7	269.2
82.5°	22.1	24.3	24.3	37.5	55.2	79.4	108.1	145.7	178.8	207.4	189.8
85°	13.2	11.0	11.0	22.1	37.5	64.0	90.5	61.8	64.0	64.0	72.8
87.5°	4.4	4.4	4.4	2.2	4.4	4.4	6.6	11.0	13.2	15.4	19.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4
2.5°	5828.3	5896.7	5872.4	5786.4	5852.6	5863.6	5819.5	5971.8	6000.4	5954.1	5967.3
5°	4724.9	4742.5	4782.3	4866.1	4925.7	4996.3	4996.3	5000.7	4941.2	5091.2	5047.1
7.5°	3681.0	3692.1	3738.4	3917.2	3967.9	4102.5	4159.9	4120.2	4001.0	3950.3	3992.2
10°	3177.9	3113.9	3098.4	3120.5	3235.3	3292.6	3341.2	3327.9	3308.1	3268.4	3224.2
12.5°	2842.4	2796.1	2758.6	2705.6	2712.2	2767.4	2804.9	2774.0	2782.8	2791.7	2804.9
15°	2478.3	2445.2	2425.3	2345.9	2337.1	2374.6	2387.8	2405.5	2438.6	2440.8	2425.3
17.5°	2092.1	2063.4	2107.5	2151.7	2120.8	2123.0	2147.3	2162.7	2153.9	2114.2	2094.3
20°	1827.3	1858.2	1902.3	1944.2	1977.3	1997.2	2006.0	1981.8	1953.1	1871.4	1869.2
22.5°	1750.0	1789.8	1827.3	1891.3	1922.2	1972.9	1926.6	1871.4	1831.7	1792.0	1745.6
25°	1692.7	1725.8	1800.8	1825.1	1884.7	1926.6	1893.5	1838.3	1769.9	1712.5	1677.2
27.5°	1650.7	1688.2	1736.8	1803.0	1849.3	1873.6	1840.5	1818.4	1747.8	1679.4	1628.7
30°	1624.2	1664.0	1752.2	1807.4	1847.1	1867.0	1809.6	1783.1	1732.4	1675.0	1630.9
32.5°	1606.6	1641.9	1716.9	1787.6	1814.0	1814.0	1822.9	1792.0	1721.3	1624.2	1586.7
35°	1549.2	1597.8	1659.6	1741.2	1789.8	1818.4	1774.3	1739.0	1692.7	1593.3	1524.9
37.5°	1516.1	1549.2	1628.7	1705.9	1747.8	1778.7	1761.1	1699.3	1637.5	1555.8	1500.7
40°	1480.8	1533.8	1604.4	1677.2	1723.6	1754.5	1741.2	1668.4	1593.3	1516.1	1478.6
42.5°	1456.5	1491.8	1564.7	1646.3	1701.5	1761.1	1721.3	1630.9	1577.9	1472.0	1430.0
45°	1436.7	1494.0	1571.3	1604.4	1661.8	1723.6	1652.9	1597.8	1536.0	1458.7	1423.4
47.5°	1412.4	1465.4	1516.1	1604.4	1630.9	1659.6	1646.3	1558.0	1505.1	1421.2	1396.9
50°	1403.6	1423.4	1516.1	1564.7	1602.2	1630.9	1595.6	1529.4	1478.6	1392.5	1339.6
52.5°	1368.3	1405.8	1465.4	1529.4	1575.7	1611.0	1553.6	1511.7	1443.3	1352.8	1319.7
55°	1324.1	1346.2	1452.1	1518.3	1542.6	1566.9	1544.8	1476.4	1405.8	1313.1	1280.0
57.5°	1266.7	1317.5	1403.6	1496.2	1527.1	1540.4	1505.1	1449.9	1361.6	1280.0	1227.0
60°	1207.2	1260.1	1355.0	1430.0	1460.9	1509.5	1456.5	1423.4	1321.9	1231.4	1174.0
62.5°	1147.6	1207.2	1277.8	1372.7	1399.1	1419.0	1405.8	1359.4	1277.8	1176.3	1105.6
65°	1076.9	1121.1	1209.4	1257.9	1275.6	1321.9	1275.6	1257.9	1185.1	1088.0	1028.4
67.5°	971.0	1008.5	1085.8	1132.1	1145.4	1165.2	1163.0	1143.2	1061.5	995.3	942.3
70°	849.6	882.7	931.3	986.5	993.1	1017.4	995.3	990.9	937.9	847.4	818.7
72.5°	681.9	712.8	776.8	801.1	803.3	812.1	801.1	785.6	772.4	677.5	648.8
75°	523.0	540.7	571.6	593.6	593.6	604.7	598.1	582.6	547.3	487.7	459.0
77.5°	364.1	381.8	421.5	434.8	432.5	437.0	417.1	401.6	348.7	317.8	293.5
80°	264.8	275.9	295.7	304.5	306.8	313.4	289.1	275.9	245.0	209.7	198.6
82.5°	192.0	198.6	200.8	211.9	211.9	200.8	194.2	181.0	158.9	136.8	128.0
85°	79.4	81.7	83.9	97.1	99.3	119.2	110.3	103.7	90.5	77.2	70.6
87.5°	19.9	22.1	28.7	24.3	28.7	28.7	30.9	35.3	35.3	28.7	28.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4
2.5°	6018.1	6035.8	6260.8	6289.5	6399.9	6512.4	6739.7	6903.0	7035.5	7121.5	7145.8
5°	5093.4	5206.0	5309.7	5477.4	5629.7	5846.0	6095.3	6404.3	6792.7	6991.3	7070.8
7.5°	3987.8	4120.2	4270.3	4433.6	4656.5	5044.9	5378.1	5735.6	6232.2	6437.4	6748.6
10°	3255.1	3403.0	3601.6	3727.4	3996.6	4367.4	4755.8	5168.5	5642.9	5938.6	6298.4
12.5°	2877.7	2999.1	3182.3	3447.1	3647.9	3888.5	4177.6	4698.4	5378.1	5658.4	5905.5
15°	2460.6	2595.3	2807.1	3100.6	3341.2	3628.1	3952.5	4519.6	5243.5	5676.0	5885.7
17.5°	2116.4	2213.5	2436.4	2690.2	2966.0	3279.4	3745.0	4510.8	5384.7	5938.6	6280.7
20°	1878.0	1891.3	2012.7	2228.9	2604.1	3012.4	3617.0	4466.7	5837.1	6391.1	6823.6
22.5°	1728.0	1714.7	1716.9	1900.1	2162.7	2749.7	3416.2	4616.7	6351.3	7110.5	7401.8
25°	1652.9	1617.6	1595.6	1635.3	1873.6	2438.6	3263.9	4815.4	6905.3	7704.1	8061.6
27.5°	1613.2	1551.4	1507.3	1513.9	1688.2	2281.9	3169.0	4901.4	7454.8	8531.7	8657.5
30°	1597.8	1520.5	1456.5	1434.5	1549.2	2063.4	2966.0	5049.3	7946.9	8986.3	9094.5
32.5°	1542.6	1447.7	1385.9	1366.0	1412.4	1871.4	2820.4	5155.2	8381.6	9480.7	9443.1
35°	1478.6	1399.1	1321.9	1284.4	1317.5	1747.8	2703.4	5104.5	8893.6	9864.6	9844.8
37.5°	1472.0	1368.3	1304.3	1242.5	1240.3	1595.6	2544.5	5153.0	9220.2	10553.2	10281.7
40°	1414.6	1348.4	1264.5	1213.8	1185.1	1518.3	2390.0	5038.3	9699.1	10831.2	10564.2
42.5°	1416.8	1317.5	1244.7	1185.1	1156.4	1405.8	2284.1	5007.4	9866.9	11283.7	10696.6
45°	1381.5	1284.4	1222.6	1152.0	1136.5	1319.7	2182.6	4863.9	10162.6	11305.7	10531.1
47.5°	1346.2	1260.1	1193.9	1110.0	1074.7	1288.8	2103.1	4744.7	10008.1	11098.3	10301.6
50°	1321.9	1222.6	1160.8	1101.2	1001.9	1235.8	1999.4	4716.1	9791.8	10818.0	9875.7
52.5°	1280.0	1191.7	1127.7	1081.4	922.5	1187.3	1959.7	4883.8	10056.6	10608.4	9752.1
55°	1240.3	1149.8	1068.1	977.6	856.3	1059.3	1849.3	5040.5	10442.8	11091.7	10312.6
57.5°	1198.3	1112.3	1024.0	915.8	792.3	926.9	1734.6	5069.1	9719.0	10250.8	9789.6
60°	1143.2	1032.8	966.6	825.4	723.8	768.0	1374.9	4468.9	7538.6	8560.4	8575.8
62.5°	1081.4	962.2	904.8	739.3	653.2	662.1	1121.1	3756.1	6115.2	7086.2	7507.7
65°	999.7	884.9	816.5	684.1	602.5	573.8	821.0	2751.9	4645.4	5748.9	6227.7
67.5°	893.8	785.6	699.6	595.9	538.5	492.1	560.5	1549.2	2743.1	3859.8	4005.4
70°	781.2	688.5	598.1	512.0	448.0	414.9	410.5	686.3	1310.9	2076.7	2363.5
72.5°	615.7	549.5	476.7	412.7	370.8	322.2	293.5	284.7	443.6	845.2	1167.4
75°	441.4	386.2	344.3	302.3	271.4	245.0	222.9	203.0	185.4	211.9	291.3
77.5°	278.1	258.2	225.1	214.1	196.4	189.8	181.0	169.9	156.7	147.9	147.9
80°	187.6	174.3	163.3	161.1	154.5	152.3	154.5	143.4	130.2	119.2	123.6
82.5°	125.8	123.6	121.4	119.2	121.4	123.6	128.0	125.8	114.8	108.1	110.3
85°	75.0	79.4	83.9	88.3	97.1	86.1	70.6	59.6	53.0	48.6	46.3
87.5°	28.7	39.7	35.3	33.1	35.3	33.1	30.9	28.7	24.3	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P529304

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4	6757.4
2.5°	7306.9	7351.0	7388.6	7379.7	7302.5	7198.8	7156.8	6942.8	6898.6	6869.9
5°	7406.2	7662.2	7717.4	7684.3	7483.4	7229.7	6982.5	6669.1	6485.9	6479.3
7.5°	7223.0	7538.6	7637.9	7713.0	7445.9	7004.6	6580.8	6110.8	5996.0	6004.9
10°	6757.4	7260.6	7505.5	7582.8	7276.0	6894.2	6307.2	5830.5	5585.6	5581.1
12.5°	6499.2	6894.2	6962.6	7070.8	6980.3	6594.1	6148.3	5614.2	5375.9	5371.5
15°	6269.7	6530.1	6549.9	6702.2	6750.8	6490.4	6190.2	5620.9	5428.9	5409.0
17.5°	6470.5	6289.5	6214.5	6234.4	6377.8	6472.7	6433.0	5996.0	5799.6	5689.3
20°	6605.1	6201.3	5974.0	5996.0	6166.0	6512.4	6794.9	6538.9	6227.7	6241.0
22.5°	6964.8	6214.5	5859.2	5834.9	6104.2	6719.9	7203.2	7225.2	6925.1	6852.3
25°	7503.3	6366.8	5823.9	5817.3	6075.5	6942.8	7679.9	8037.4	7730.6	7596.0
27.5°	7935.9	6605.1	5934.2	5956.3	6166.0	7123.7	8085.9	8560.4	8326.5	8161.0
30°	8315.4	6852.3	6088.7	5987.2	6408.7	7218.6	8260.3	9156.2	8968.7	8831.8
32.5°	8472.1	7203.2	6333.7	6166.0	6609.5	7333.4	8622.2	9734.4	9573.3	9235.7
35°	8736.9	7399.6	6466.1	6452.8	6960.4	7609.2	8792.1	10116.2	10050.0	9749.9
37.5°	8948.8	7598.2	6936.1	6790.5	7441.5	8072.7	9065.8	10643.7	10491.4	10350.2
40°	9112.1	7953.5	7375.3	7567.3	8033.0	8494.2	9317.3	10676.8	11115.9	10705.5
42.5°	8962.0	8271.3	8097.0	8556.0	8997.4	8975.3	9346.0	10932.8	11261.6	11047.5
45°	8924.5	8809.8	9237.9	9655.0	9756.5	9374.7	9140.8	10650.3	11217.4	11122.6
47.5°	8834.0	9339.4	10085.3	10765.0	10610.6	9641.8	8895.8	10599.5	11243.9	11074.0
50°	8803.1	9454.2	10712.1	11374.1	11281.4	9873.5	8781.1	10272.9	11056.3	11040.9
52.5°	8800.9	9690.3	10972.5	11705.2	11762.5	10239.8	8937.8	10438.4	11202.0	11332.2
55°	8900.2	9615.3	10939.4	11522.0	11499.9	10076.5	8955.4	10548.8	11380.8	11508.8
57.5°	8394.9	8613.4	9028.2	9489.5	9370.3	8346.3	7997.6	9752.1	10445.0	10352.4
60°	7249.5	6565.4	6097.5	6075.5	5843.8	5523.8	6545.5	8703.8	8703.8	8613.4
62.5°	6349.1	4310.0	3703.1	3531.0	3696.5	4065.0	6313.8	8465.5	8225.0	8121.2
65°	5552.4	3290.4	2676.9	2628.4	2915.3	3471.4	5709.1	7212.0	6788.3	6444.0
67.5°	3572.9	2409.9	1990.6	1904.5	2251.0	2548.9	3800.2	4435.8	4168.8	4034.1
70°	2304.0	1569.1	1107.8	1039.4	1174.0	1571.3	2427.5	2586.4	2198.0	2107.5
72.5°	1090.2	677.5	388.4	320.0	359.7	600.3	960.0	1032.8	858.5	785.6
75°	346.5	249.4	158.9	136.8	130.2	154.5	220.7	169.9	123.6	121.4
77.5°	154.5	147.9	125.8	105.9	92.7	77.2	64.0	53.0	55.2	57.4
80°	128.0	117.0	103.7	92.7	77.2	59.6	46.3	35.3	35.3	37.5
82.5°	112.5	101.5	90.5	77.2	66.2	48.6	35.3	24.3	22.1	22.1
85°	48.6	57.4	61.8	66.2	53.0	39.7	24.3	15.4	13.2	13.2
87.5°	19.9	17.7	15.4	13.2	11.0	11.0	8.8	6.6	4.4	4.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)