

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: P456614

Luminaire Tested: **GLAN-SA7D-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456614
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7D-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 34143 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 433
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

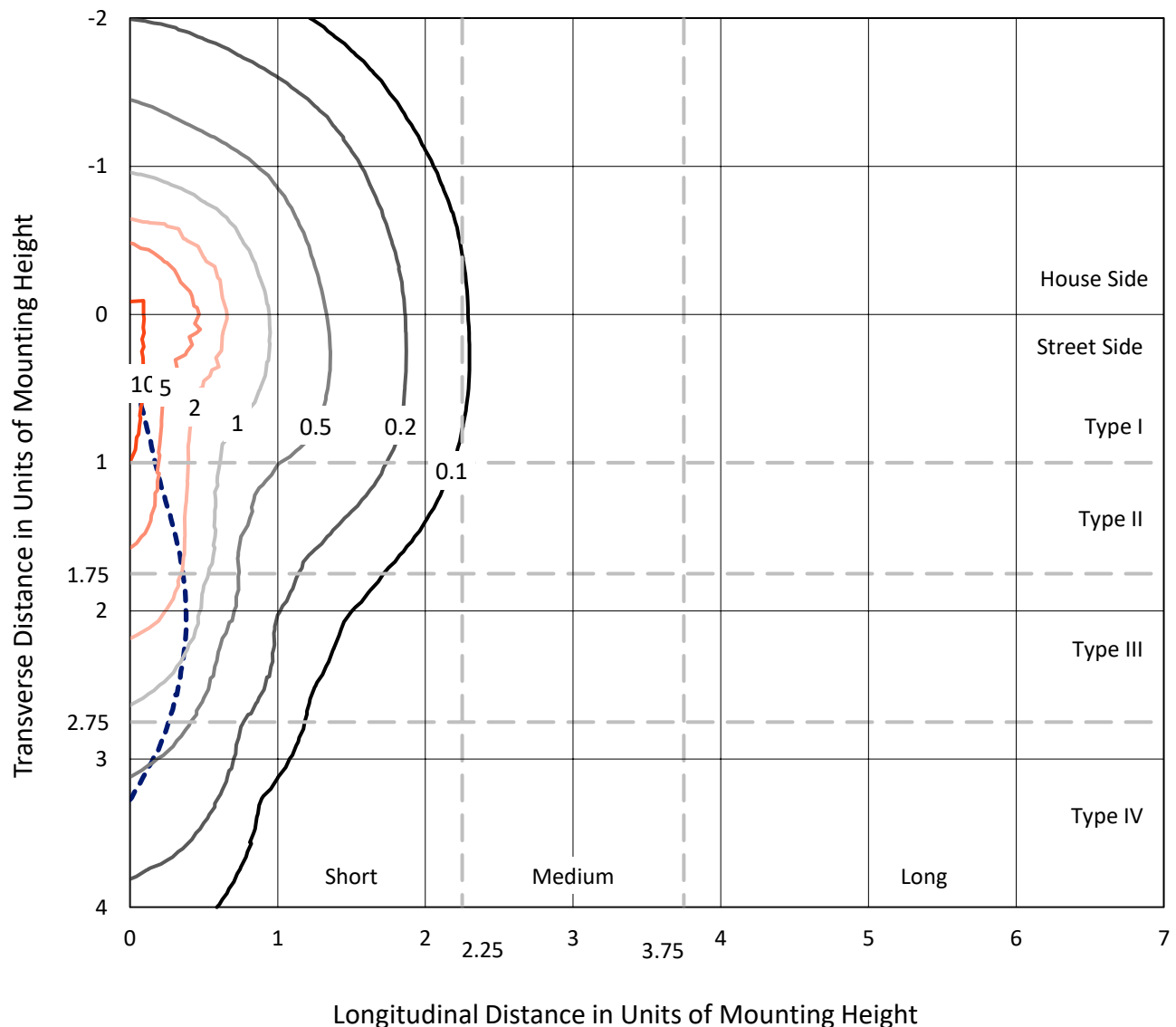


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd



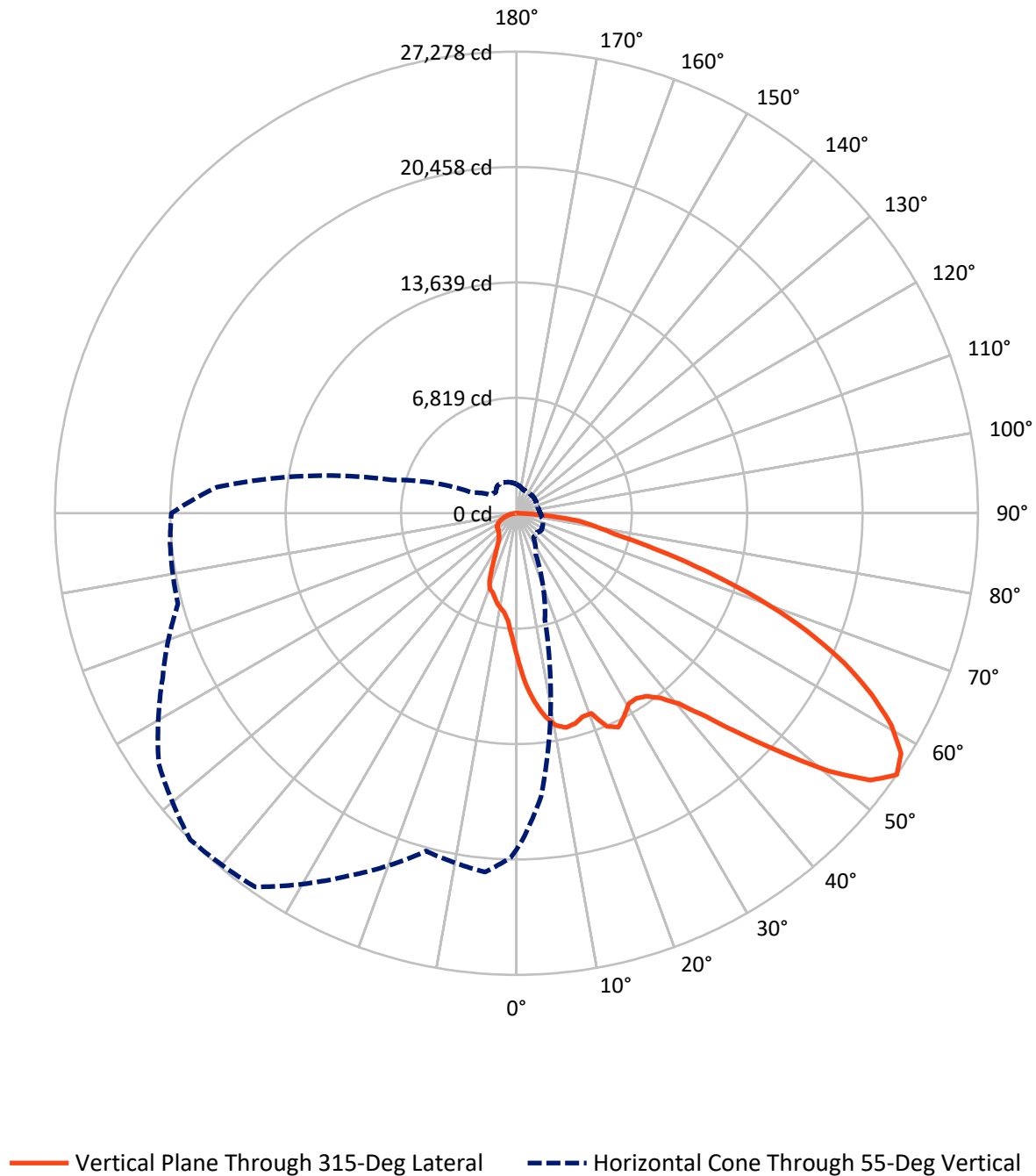
Based on 25 foot mounting height. Maximum calculated value = 14.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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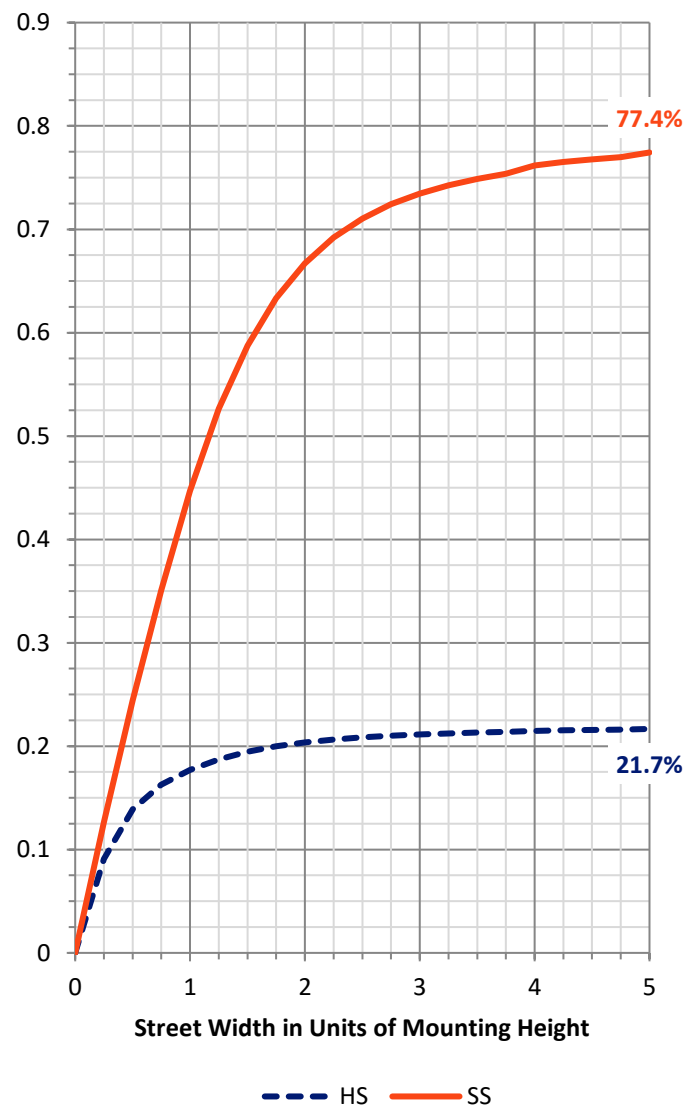
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7468.6	0.0	7468.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	26674.4	0.0	26674.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	34143.0	0.0	34143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.2	2.1
10°-20°	1926.7	5.6
20°-30°	3328.4	9.7
30°-40°	3868.1	11.3
40°-50°	5396.8	15.8
50°-60°	7322.9	21.4
60°-70°	6966.8	20.4
70°-80°	3763.7	11.0
80°-90°	843.5	2.5
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°	34143.0	100.0
0°-180°	34143.0	100.0

Coefficient of Utilization



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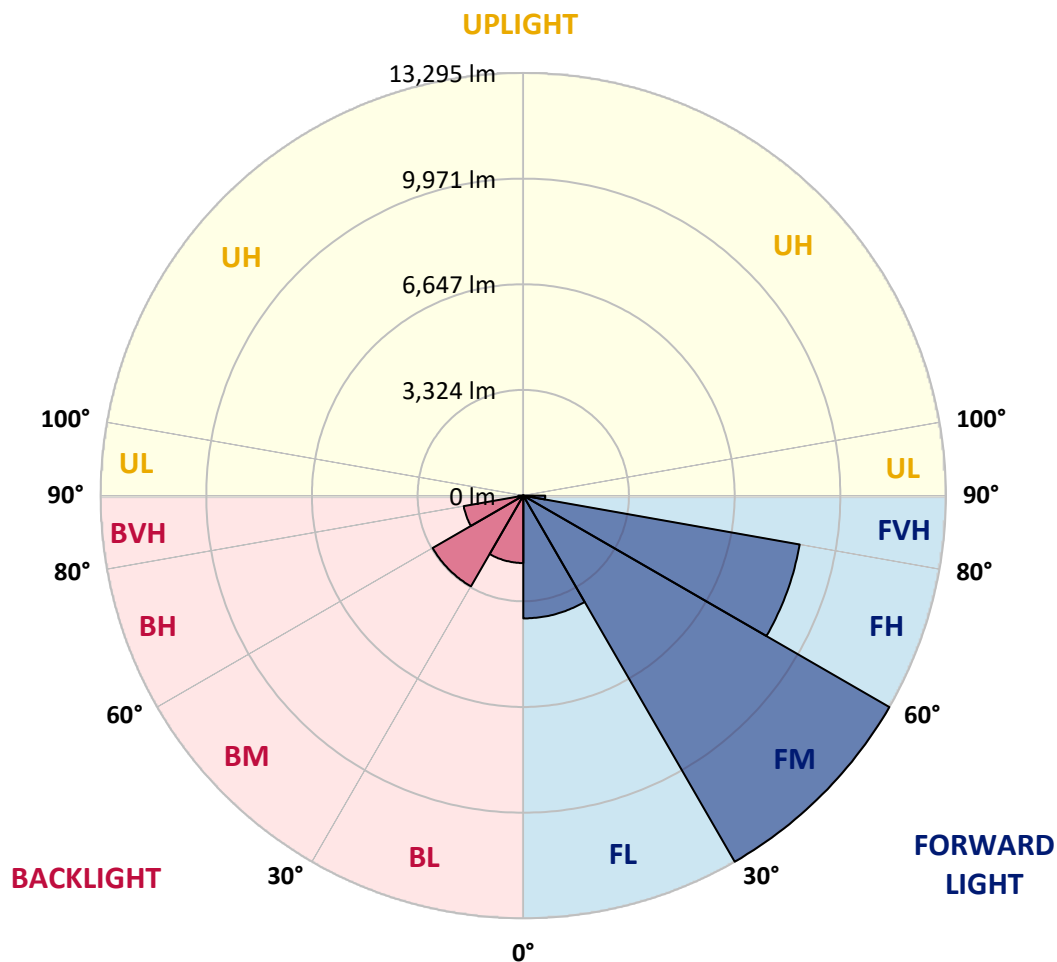
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3861.6	11.3			
FM	(30°-60°)	13294.6	38.9			
FH	(60°-80°)	8828.8	25.9			G4/12000
FVH	(80°-90°)	689.4	2.0			G4/750
BL	(0°-30°)	2119.6	6.2	B3/2500		
BM	(30°-60°)	3293.2	9.6	B3/5000		
BH	(60°-80°)	1901.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	154.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6
2.5°	9519.1	9483.1	9381.7	9115.9	8847.9	8575.3	8365.8	8104.5	7832.0	7685.6	7498.6
5°	9649.8	9609.2	9370.5	8771.3	8228.4	7658.5	7203.5	6804.8	6642.7	6403.9	6212.4
7.5°	9343.4	9325.4	8967.3	8106.8	7363.5	6617.9	6102.1	5782.2	5491.6	5383.5	5406.0
10°	9064.1	8992.0	8543.8	7419.8	6552.6	5946.6	5577.2	5264.1	5059.1	5005.1	5016.3
12.5°	8832.1	8735.2	8205.9	6958.0	6198.9	5714.6	5243.9	4917.2	4730.3	4782.1	4957.8
15°	8784.8	8654.2	8064.0	6800.3	6005.2	5381.3	4865.4	4489.3	4349.6	4462.2	4743.8
17.5°	9091.1	8926.7	8307.3	6852.1	5820.5	5041.1	4408.2	3977.9	3860.8	4041.0	4408.2
20°	10075.5	9832.2	9066.4	7151.7	5802.5	4872.2	4142.4	3709.9	3759.4	4101.8	4484.8
22.5°	11895.5	11530.6	10395.3	7588.7	5897.1	4829.4	4088.3	3863.1	4135.6	4426.2	4678.5
25°	12255.9	11969.9	10634.1	7687.8	5876.8	4800.1	4241.5	4354.1	4658.2	4802.4	4714.5
27.5°	12458.6	12132.0	10618.3	7196.8	5255.1	4354.1	4054.5	4241.5	4318.1	4178.4	3939.6
30°	12931.7	12591.5	10886.4	6681.0	4327.1	3230.1	2831.4	2754.8	2806.6	2833.7	2748.1
32.5°	13582.7	13247.0	11391.0	6343.1	3741.4	2671.5	2279.5	2171.4	2146.6	2117.4	2083.6
35°	14425.1	13909.3	11886.5	6126.8	3500.4	2471.0	2110.6	2027.3	1993.5	1952.9	1916.9
37.5°	15281.0	14740.4	12512.7	5899.3	3340.5	2331.4	1998.0	1959.7	1901.1	1858.3	1806.5
40°	16191.1	15585.1	13082.6	5701.1	3185.1	2241.3	1916.9	1912.4	1835.8	1786.2	1725.4
42.5°	16979.4	16355.5	13591.7	5579.5	3065.7	2146.6	1867.3	1880.8	1802.0	1727.7	1648.8
45°	17605.6	16993.0	14062.4	5579.5	2968.8	2052.0	1858.3	1849.3	1770.5	1678.1	1588.0
47.5°	18155.3	17522.3	14522.0	5721.4	2908.0	1973.2	1808.8	1824.5	1743.4	1626.3	1538.5
50°	18581.0	18022.4	15141.4	5942.1	2847.2	1910.1	1745.7	1831.3	1720.9	1599.3	1497.9
52.5°	19123.8	18623.8	15887.0	6244.0	2795.4	1840.3	1689.4	1831.3	1718.7	1601.5	1491.2
55°	19876.2	19349.1	16785.7	6494.0	2712.0	1775.0	1639.8	1779.5	1711.9	1590.3	1473.1
57.5°	20403.3	20009.1	17420.9	6660.7	2592.6	1691.6	1594.8	1729.9	1682.6	1547.5	1419.1
58°	20428.0	20042.9	17513.3	6699.0	2563.4	1675.9	1583.5	1707.4	1669.1	1529.5	1401.1
60°	20144.2	19813.1	17531.3	6644.9	2396.7	1597.0	1525.0	1615.1	1597.0	1423.6	1304.2
62.5°	19112.6	18758.9	16803.7	6205.7	2175.9	1500.2	1434.9	1491.2	1450.6	1274.9	1164.5
65°	17646.2	16995.2	15308.1	5516.4	2018.3	1396.6	1313.2	1317.7	1274.9	1148.8	1051.9
67.5°	15693.3	14965.7	12961.0	4649.2	1898.9	1281.7	1169.1	1157.8	1106.0	1024.9	946.1
70°	13289.8	12792.0	10532.8	3782.0	1766.0	1155.5	1006.9	1000.1	968.6	907.8	837.9
72.5°	10771.5	10138.6	8505.5	3027.4	1603.8	1033.9	856.0	869.5	828.9	786.1	723.1
75°	7949.1	7534.7	6575.1	2428.2	1385.3	901.0	714.0	718.6	700.5	655.5	605.9
77.5°	5234.8	5111.0	4703.2	1594.8	1065.4	716.3	583.4	587.9	574.4	533.8	482.0
80°	3522.9	3439.6	3187.3	1027.1	711.8	518.1	450.5	455.0	452.8	410.0	340.1
82.5°	2171.4	2135.4	2054.3	693.8	493.3	371.7	297.3	310.8	335.6	288.3	232.0
85°	1024.9	1027.1	1241.1	378.4	290.6	238.8	162.2	173.4	173.4	173.4	130.6
87.5°	132.9	139.7	171.2	159.9	105.9	90.1	58.6	49.6	42.8	56.3	40.5
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°	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6
2.5°	7433.3	7388.2	7291.4	7268.9	7255.3	7293.6	7192.3	7219.3	7174.3	7300.4	7280.1
5°	6223.7	6228.2	6307.0	6358.8	6376.9	6358.8	6291.3	6174.1	6084.0	6048.0	6057.0
7.5°	5363.2	5442.1	5577.2	5728.1	5865.5	5906.1	5867.8	5644.8	5401.5	5248.4	5198.8
10°	5077.2	5183.0	5338.5	5457.8	5579.5	5676.3	5696.6	5523.2	5234.8	4872.2	4730.3
12.5°	5092.9	5237.1	5385.8	5424.1	5412.8	5451.1	5433.1	5403.8	5214.6	4752.8	4516.3
15°	4944.3	5115.5	5219.1	5198.8	5162.8	5129.0	5081.7	5007.3	4939.8	4615.4	4354.1
17.5°	4601.9	4777.6	4863.2	4869.9	4869.9	4860.9	4746.0	4719.0	4710.0	4552.3	4392.4
20°	4665.0	4761.8	4723.5	4660.4	4678.5	4739.3	4671.7	4658.2	4710.0	4779.8	4750.5
22.5°	4701.0	4667.2	4378.9	4099.6	4036.5	4225.7	4264.0	4414.9	4624.4	4876.7	5041.1
25°	4478.0	4205.4	3689.6	3374.3	3196.3	3372.0	3601.8	3881.1	4194.2	4518.5	4710.0
27.5°	3743.7	3536.4	3167.0	2883.2	2727.8	2754.8	2950.8	3205.3	3495.9	3714.4	3854.0
30°	2820.1	2727.8	2536.3	2439.5	2344.9	2322.3	2405.7	2502.5	2630.9	2658.0	2694.0
32.5°	2076.8	2063.3	2074.6	2043.0	2025.0	2022.8	1998.0	2020.5	2034.0	2049.8	2018.3
35°	1878.6	1860.6	1829.0	1820.0	1808.8	1813.3	1802.0	1790.7	1799.8	1813.3	1822.3
37.5°	1777.2	1750.2	1705.2	1689.4	1689.4	1696.1	1678.1	1673.6	1689.4	1732.2	1754.7
40°	1698.4	1666.9	1615.1	1594.8	1608.3	1626.3	1601.5	1592.5	1630.8	1675.9	1711.9
42.5°	1624.1	1599.3	1549.7	1527.2	1538.5	1572.3	1536.2	1529.5	1579.0	1628.6	1671.4
45°	1561.0	1536.2	1491.2	1479.9	1484.4	1515.9	1491.2	1491.2	1538.5	1592.5	1630.8
47.5°	1511.4	1479.9	1450.6	1441.6	1446.1	1464.1	1459.6	1459.6	1504.7	1561.0	1599.3
50°	1461.9	1434.9	1396.6	1401.1	1412.3	1437.1	1434.9	1441.6	1486.7	1556.5	1597.0
52.5°	1439.4	1398.8	1356.0	1360.5	1394.3	1423.6	1414.6	1421.3	1473.1	1603.8	1662.4
55°	1414.6	1360.5	1311.0	1317.7	1356.0	1398.8	1387.5	1396.6	1457.4	1635.3	1716.4
57.5°	1367.3	1304.2	1250.1	1254.6	1311.0	1356.0	1338.0	1349.3	1421.3	1601.5	1687.1
58°	1347.0	1292.9	1241.1	1243.4	1297.4	1347.0	1326.7	1335.7	1410.1	1592.5	1673.6
60°	1261.4	1229.9	1184.8	1187.1	1238.9	1281.7	1270.4	1279.4	1351.5	1527.2	1588.0
62.5°	1144.3	1126.3	1115.0	1115.0	1146.5	1187.1	1198.3	1209.6	1274.9	1380.8	1434.9
65°	1018.1	1018.1	1020.4	1020.4	1040.7	1092.5	1099.2	1128.5	1189.3	1241.1	1281.7
67.5°	932.5	928.0	932.5	921.3	930.3	961.8	995.6	1022.6	1085.7	1121.8	1135.3
70°	822.2	819.9	822.2	806.4	817.7	844.7	867.2	912.3	977.6	1004.6	1011.4
72.5°	714.0	714.0	718.6	707.3	707.3	736.6	752.3	801.9	862.7	878.5	880.7
75°	601.4	608.2	608.2	592.4	596.9	614.9	635.2	675.8	732.1	743.3	743.3
77.5°	477.5	502.3	502.3	486.5	493.3	495.6	522.6	542.9	585.7	590.2	572.1
80°	346.9	371.7	391.9	378.4	389.7	376.2	391.9	405.5	448.3	428.0	398.7
82.5°	247.8	265.8	281.6	283.8	272.6	247.8	268.0	270.3	290.6	263.5	247.8
85°	137.4	153.2	173.4	164.4	146.4	130.6	137.4	141.9	139.7	132.9	123.9
87.5°	36.0	38.3	42.8	31.5	29.3	24.8	33.8	33.8	38.3	40.5	38.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6
2.5°	7295.9	7395.0	7609.0	7771.2	7969.4	8210.4	8494.2	8780.3	9088.9	9185.7	9320.9
5°	6036.7	6284.5	6388.1	6683.2	6976.0	7415.3	7883.8	8426.7	9021.3	9307.4	9582.2
7.5°	5158.3	5291.2	5399.3	5615.5	5966.9	6500.8	7088.7	7766.7	8609.1	9025.8	9429.0
10°	4685.2	4698.7	4831.6	5099.7	5406.0	5876.8	6433.2	7192.3	8131.6	8638.4	9111.4
12.5°	4372.1	4313.6	4457.7	4737.0	5083.9	5518.7	6030.0	6753.0	7786.9	8307.3	8879.4
15°	4097.3	4005.0	4113.1	4399.2	4741.5	5252.9	5802.5	6568.3	7651.8	8257.7	8892.9
17.5°	4104.1	3849.5	3887.8	4128.9	4469.0	4989.3	5656.1	6561.6	7856.8	8555.0	9307.4
20°	4610.9	4203.2	4029.7	4074.8	4403.7	4971.3	5723.6	6876.9	8530.3	9548.4	10352.5
22.5°	5108.7	4863.2	4583.9	4491.5	4671.7	5266.4	6153.9	7622.5	9994.4	11528.4	12981.2
25°	4935.3	5144.7	5074.9	4944.3	4984.8	5478.1	6446.7	8235.2	11131.9	12859.6	14224.6
27.5°	3948.7	4329.3	4405.9	4403.7	4419.4	4824.9	5798.0	7823.0	11273.8	13114.1	14418.3
30°	2775.1	2808.9	2849.4	2928.3	3000.3	3363.0	4536.6	6867.9	11210.8	13229.0	14535.5
32.5°	2002.5	2047.5	2103.8	2212.0	2383.2	2844.9	3968.9	6563.8	11544.1	13704.3	14877.8
35°	1831.3	1883.1	1937.2	2061.0	2223.2	2651.2	3743.7	6437.7	12091.5	14474.6	15492.8
37.5°	1777.2	1835.8	1883.1	1973.2	2103.8	2511.6	3538.7	6352.1	12652.4	15290.1	16317.2
40°	1738.9	1806.5	1844.8	1916.9	2007.0	2383.2	3356.2	6284.5	13195.2	16035.6	16979.4
42.5°	1705.2	1775.0	1824.5	1876.3	1950.7	2268.3	3194.1	6216.9	13666.0	16758.7	17639.4
45°	1664.6	1752.5	1815.5	1856.1	1921.4	2171.4	3070.2	6162.9	14202.1	17400.7	18306.2
47.5°	1630.8	1727.7	1806.5	1853.8	1878.6	2103.8	2971.1	6237.2	14846.3	18071.9	18925.6
50°	1633.1	1725.4	1824.5	1898.9	1833.5	2047.5	2910.2	6532.3	15684.2	18869.3	19414.4
52.5°	1705.2	1817.8	1896.6	1914.6	1770.5	1980.0	2878.7	7048.1	16675.4	19574.3	19907.7
55°	1786.2	1903.4	1989.0	1977.7	1736.7	1894.4	2872.0	7597.7	17761.1	20396.5	20549.7
57.5°	1757.0	1928.2	2058.8	2000.2	1738.9	1811.0	2842.7	8041.5	18668.8	21011.4	21184.9
58°	1748.0	1919.1	2067.8	1995.7	1732.2	1786.2	2835.9	8079.8	18795.0	21054.2	21275.0
60°	1660.1	1840.3	2061.0	1961.9	1693.9	1718.7	2761.6	8203.7	18761.2	20833.5	21329.0
62.5°	1500.2	1648.8	1905.6	1797.5	1576.8	1628.6	2594.9	8050.5	17846.7	19770.3	20538.4
65°	1320.0	1430.3	1601.5	1581.3	1410.1	1536.2	2367.4	7444.6	16015.4	18044.9	18853.5
67.5°	1184.8	1274.9	1383.0	1353.8	1268.2	1412.3	2121.9	6419.7	13961.1	15972.6	16990.7
70°	1047.4	1117.2	1171.3	1151.0	1124.0	1290.7	1903.4	5210.1	11992.4	14003.9	14990.5
72.5°	907.8	973.1	1018.1	988.9	973.1	1162.3	1725.4	4043.3	9471.8	11553.1	12821.3
75°	759.1	824.4	856.0	822.2	813.2	1024.9	1461.9	3020.6	7106.7	8906.4	10001.2
77.5°	587.9	657.7	698.3	687.0	691.5	842.4	1180.3	2067.8	5081.7	6070.5	7223.8
80°	412.2	488.8	515.8	504.6	536.1	642.0	833.4	1313.2	3504.9	3939.6	4752.8
82.5°	254.5	326.6	331.1	342.4	364.9	475.3	628.5	799.6	2200.7	2275.0	2865.2
85°	128.4	155.4	166.7	184.7	205.0	290.6	358.1	495.6	1416.8	1072.2	1601.5
87.5°	42.8	45.1	54.1	67.6	83.3	119.4	153.2	202.7	351.4	193.7	495.6
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: P456614

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6	8568.6
2.5°	9593.5	9784.9	9924.6	10053.0	9929.1	9917.8	9796.2	9600.2	9519.1	9519.1
5°	10158.8	10607.1	10969.7	11201.7	11102.6	10863.9	10469.7	9967.4	9697.1	9649.8
7.5°	10314.3	11199.5	11873.0	12111.8	11945.1	11418.0	10663.4	9816.5	9429.0	9343.4
10°	10219.7	11370.7	12359.5	12738.0	12506.0	11708.6	10679.2	9640.8	9163.2	9064.1
12.5°	10120.5	11393.2	12449.6	12997.0	12846.1	11942.8	10794.0	9525.9	8974.0	8832.1
15°	10192.6	11402.2	12339.3	12904.6	13001.5	12224.4	10983.3	9609.2	8935.7	8784.8
17.5°	10647.6	11573.4	12181.6	12638.9	12979.0	12607.3	11521.6	10007.9	9278.1	9091.1
20°	11598.2	11983.4	12271.7	12625.3	13172.7	13388.9	12623.1	11102.6	10239.9	10075.5
22.5°	14350.8	14280.9	13690.8	13684.0	14476.9	15344.1	15292.3	13328.1	12030.7	11895.5
25°	15382.4	15058.0	14204.3	13997.1	14346.3	15684.2	15490.5	13783.1	12584.8	12255.9
27.5°	14979.2	14175.1	13614.2	13566.9	13452.0	14715.7	15181.9	13967.8	12778.5	12458.6
30°	14954.4	13771.9	12970.0	13064.6	13174.9	14382.3	15353.1	14546.7	13274.1	12931.7
32.5°	15015.3	13828.2	13017.3	13035.3	13364.2	14431.9	15542.3	15177.4	13925.0	13582.7
35°	15260.8	14148.0	13319.1	13276.3	13789.9	14756.2	15864.4	16168.5	14814.8	14425.1
37.5°	15657.2	14785.5	13871.0	13859.7	14605.3	15341.9	16265.4	17168.7	15700.0	15281.0
40°	16240.6	15531.1	14853.1	14792.3	15713.5	16294.7	16785.7	18234.1	16729.4	16191.1
42.5°	16945.7	16425.3	16148.3	16389.3	17274.5	17364.6	17596.6	19218.4	17605.6	16979.4
45°	17598.9	17574.1	17959.3	18599.0	19114.8	18574.2	18443.6	19878.4	18285.9	17605.6
47.5°	18376.0	19047.2	20209.5	21146.6	21687.2	19982.0	19166.6	20308.7	18781.5	18155.3
50°	19164.4	20811.0	22667.0	23973.5	24088.4	21511.5	19664.4	20714.1	19232.0	18581.0
52.5°	19993.3	22218.8	24689.8	26208.0	25985.0	22842.7	20146.5	20988.9	19696.0	19123.8
55°	20714.1	23081.5	25820.6	27277.9	26951.3	23653.6	20666.8	21286.2	20358.2	19876.2
57.5°	21117.3	23153.6	25539.0	26811.7	26458.0	23496.0	20905.6	21507.0	20781.7	20403.3
58°	21175.9	23056.7	25289.0	26541.4	26181.0	23363.1	20903.3	21498.0	20808.7	20428.0
60°	21124.1	22428.3	24358.7	25473.7	25095.2	22529.6	20817.7	21329.0	20466.3	20144.2
62.5°	20644.3	21338.1	22752.6	23563.5	23455.4	21227.7	20466.3	20691.6	19423.4	19112.6
65°	20013.6	19851.4	20696.1	21270.5	21351.6	20252.3	20117.2	19313.0	18085.4	17646.2
67.5°	19247.7	18166.5	18164.3	18490.9	18626.0	18752.2	19389.6	17815.1	16157.3	15693.3
70°	17948.0	15569.4	14853.1	15238.3	15125.6	16191.1	18089.9	15711.3	13832.7	13289.8
72.5°	15564.9	12355.0	11208.5	11704.1	11420.2	12697.4	15828.4	12929.4	11438.3	10771.5
75°	12616.3	9242.1	8059.5	8514.5	8338.8	9631.7	13170.4	9390.7	8203.7	7949.1
77.5°	9796.2	6696.7	6009.7	5946.6	6077.3	7167.5	9661.0	6340.8	5408.3	5234.8
80°	6293.5	4793.3	4833.9	4752.8	4820.4	4518.5	5865.5	4045.5	3662.6	3522.9
82.5°	4142.4	3340.5	3982.4	3676.1	3491.4	3038.6	3847.3	2649.0	2248.0	2171.4
85°	2822.4	2459.7	2239.0	1711.9	2016.0	2340.4	2885.5	1425.8	1130.8	1024.9
87.5°	1274.9	856.0	628.5	387.4	612.7	707.3	1401.1	166.7	128.4	132.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)