

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: P653553

Luminaire Tested: **GLAN-SA8D-840-U-SLR-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P653553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GLAN-SA8D-840-U-SLR-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29043.1 lumens  
Efficiency: N/A  
Efficacy: 58.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G2

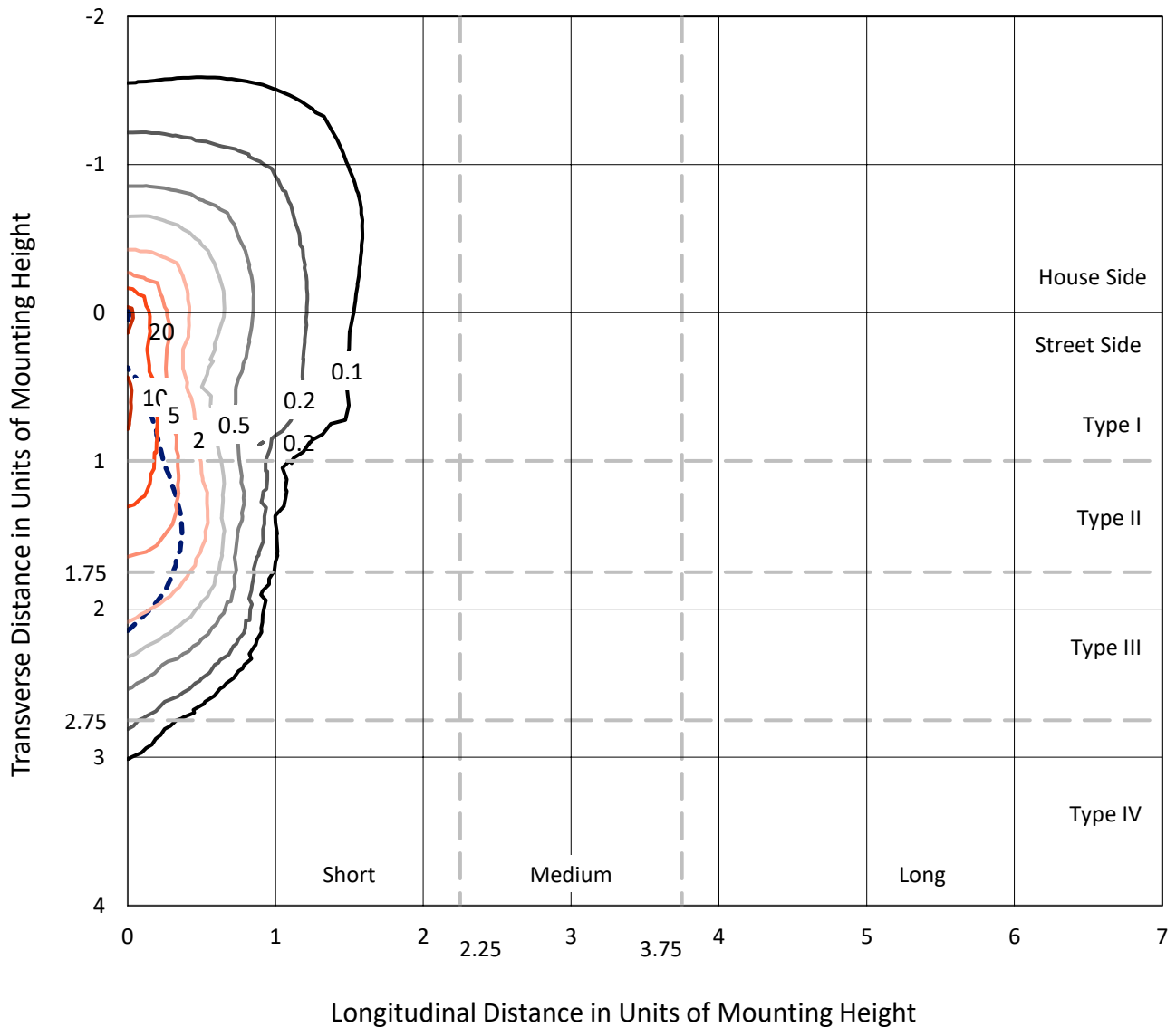
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

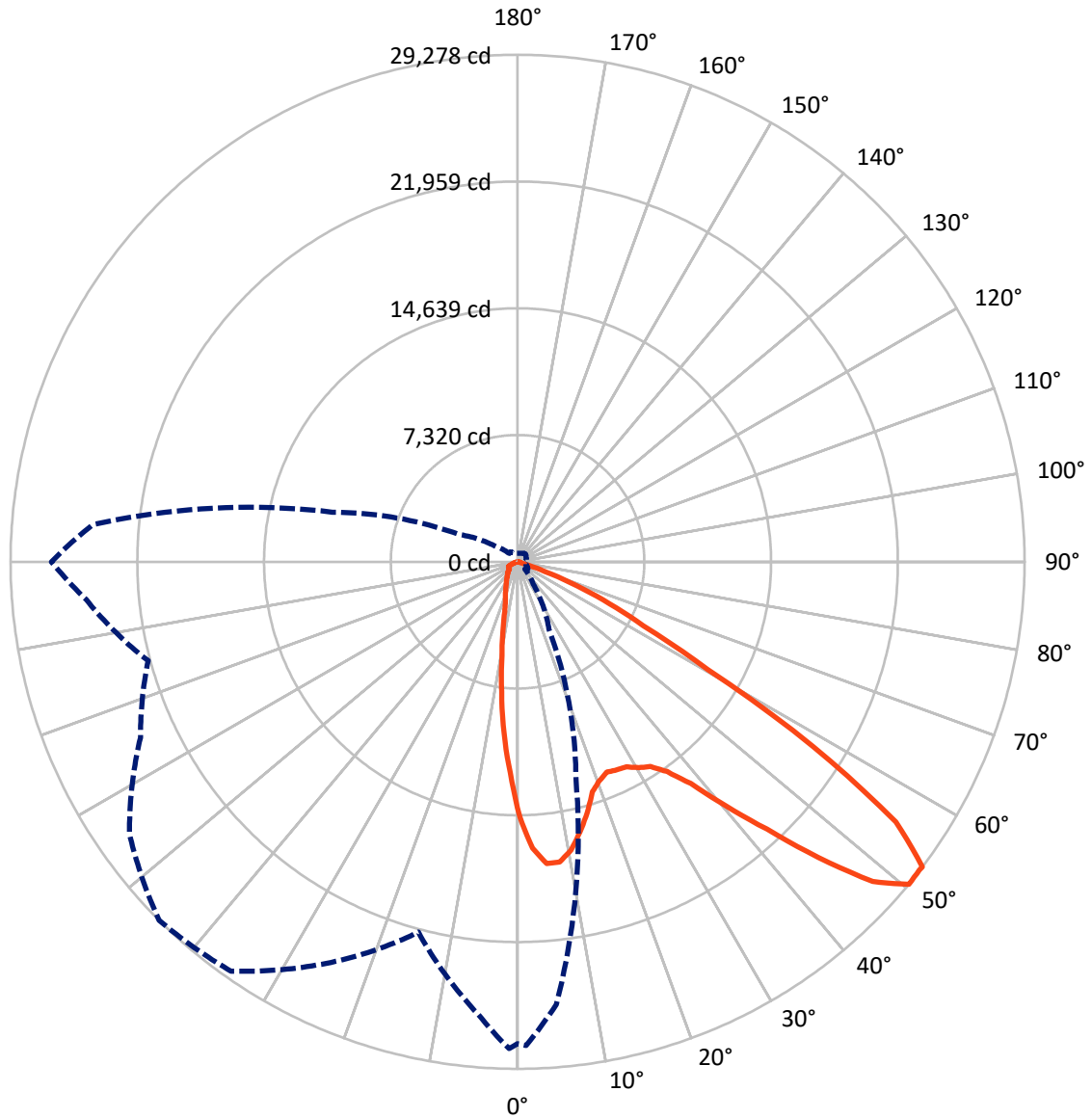
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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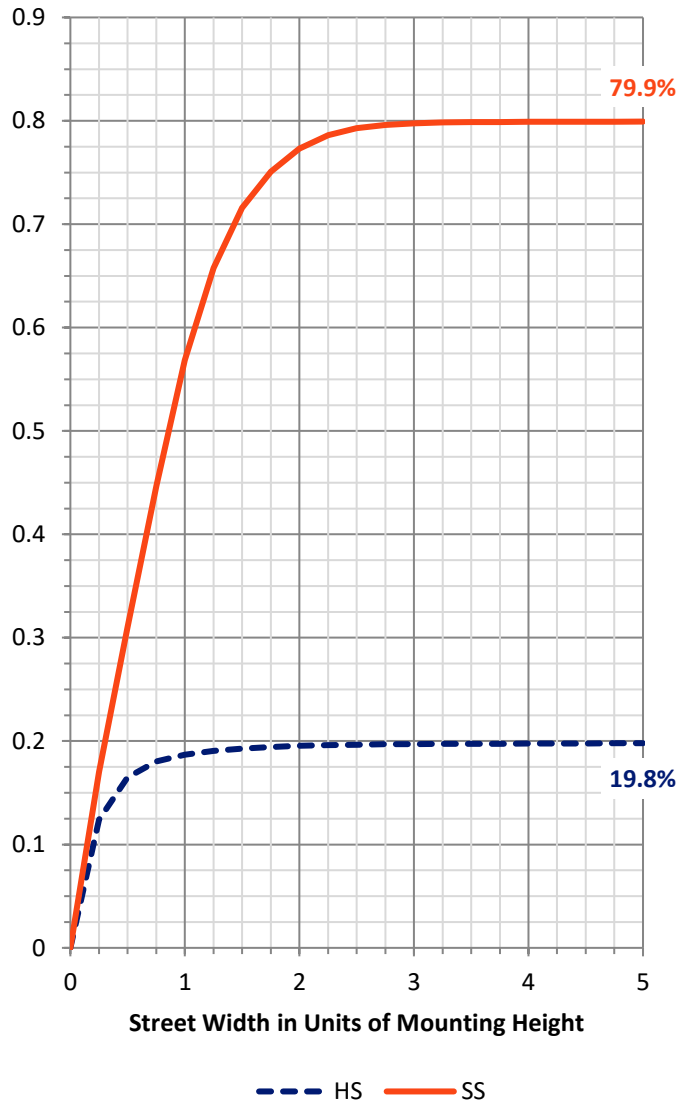
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5817.3	0.0	5817.3
	% Fixture	20.0	0.0	20.0
<b>Street Side</b>	Lumens	23225.8	0.0	23225.8
	% Fixture	80.0	0.0	80.0
<b>Total</b>	Lumens	29043.1	0.0	29043.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1073.5	3.7
10°-20°	2133.6	7.3
20°-30°	3205.4	11.0
30°-40°	4811.2	16.6
40°-50°	6761.8	23.3
50°-60°	7293.8	25.1
60°-70°	3386.5	11.7
70°-80°	318.6	1.1
80°-90°	58.7	0.2
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°	29043.1	100.0
0°-180°	29043.1	100.0

**Coefficient of Utilization**



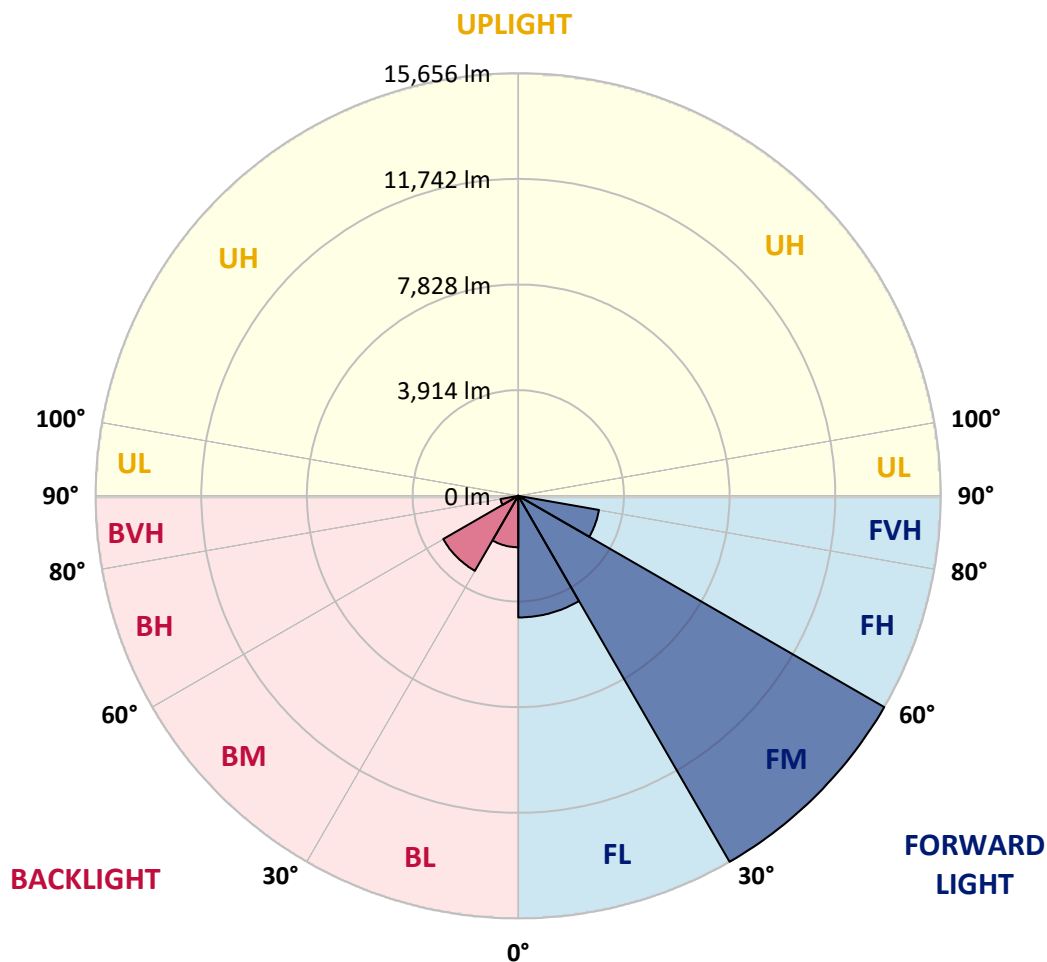
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4505.8	15.5			
FM (30°-60°)	15656.4	53.9			
FH (60°-80°)	3037.1	10.5			G2/5000
FVH (80°-90°)	26.5	0.1			G1/100
BL (0°-30°)	1906.8	6.6	B3/2500		
BM (30°-60°)	3210.3	11.1	B3/5000		
BH (60°-80°)	668.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	32.3	0.1			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°	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5
2.5°	15310.5	15074.3	14774.6	14526.8	14158.1	13414.7	13213.0	12971.0	12769.3	12498.5	12118.1
5°	13921.7	13846.9	13708.6	12775.0	12100.9	11202.0	10464.4	10153.2	9744.1	9409.9	9167.8
7.5°	12861.5	12561.8	12123.9	11184.7	10107.1	9144.8	8326.6	7848.3	7306.6	7122.3	6793.8
10°	11726.3	11795.4	11150.1	9830.5	8528.2	7750.3	7243.3	6782.2	6292.4	5969.8	5503.0
12.5°	11363.3	11138.5	10643.0	9012.2	7900.2	7174.1	6557.5	5987.1	5468.4	4949.9	4500.4
15°	11599.6	11253.8	10562.4	8839.4	7416.1	6511.4	5739.3	4967.1	4488.8	3826.2	3359.5
17.5°	12446.6	12170.0	11242.3	9023.8	7168.3	5877.6	4730.9	3935.7	3203.9	2604.6	2368.3
20°	13858.4	13466.6	12302.6	9260.1	6799.6	5111.2	3837.7	2858.1	2166.7	1913.1	1780.6
22.5°	15241.4	15028.2	13558.8	9715.3	6471.1	4431.2	2881.2	1924.6	1619.2	1573.1	1486.7
25°	17874.8	17235.1	15477.6	10539.3	6217.5	3791.6	2172.4	1550.0	1371.4	1336.9	1348.4
27.5°	19442.1	18906.2	17252.4	11086.7	5935.2	3301.9	1838.2	1423.3	1302.3	1227.4	1198.6
30°	20946.0	20323.7	18134.1	11409.4	5330.2	2783.2	1630.7	1365.7	1336.9	1227.4	1192.8
32.5°	22104.3	21493.5	19407.5	11893.4	5082.3	2449.0	1342.7	1066.1	991.1	979.6	1083.3
35°	23879.1	23227.9	20496.6	12158.5	4892.2	2276.1	1164.0	950.8	864.4	829.8	835.5
37.5°	25532.8	25089.2	21505.0	12262.2	4690.5	2224.3	1043.0	852.9	777.9	754.9	749.1
40°	26915.9	25924.8	22461.5	12371.7	4604.1	2126.3	968.1	777.9	726.0	691.5	691.5
42.5°	27549.7	26541.3	23533.4	12308.4	4581.0	1970.7	968.1	714.5	674.2	639.6	633.9
45°	27411.4	27002.2	24011.6	12279.5	4581.0	1815.1	881.6	697.3	639.6	593.5	582.0
47.5°	27768.6	27232.8	24610.9	12400.5	4488.8	1705.6	743.4	731.8	605.0	547.4	535.9
50°	27832.1	27935.7	25653.9	13028.6	4287.2	1567.4	582.0	720.3	582.0	495.6	484.0
52°	28246.9	27601.5	25970.8	13362.8	4074.0	1463.6	489.8	616.5	558.9	461.0	449.4
52.5°	27676.5	28097.1	26045.7	13483.8	4097.0	1394.5	472.5	605.0	547.4	461.0	432.2
55°	27036.8	27440.2	25740.3	13743.1	3757.0	1094.8	368.8	437.9	495.6	403.3	386.1
57.5°	23498.8	23907.9	22369.3	12584.9	3059.8	772.1	305.4	328.5	437.9	374.6	357.3
60°	20888.4	20594.6	18773.6	10499.0	2172.4	432.2	242.0	253.6	478.3	345.7	340.0
62.5°	19090.6	18462.5	15690.8	8107.6	1325.3	288.1	190.2	196.0	368.8	322.7	322.7
65°	14123.5	13420.4	10424.0	4903.7	651.1	201.7	144.1	155.6	230.5	276.6	276.6
67.5°	8061.5	7790.7	5036.2	2212.8	270.8	126.7	109.5	121.0	178.6	224.7	213.2
70°	3705.2	3324.9	1936.2	466.8	126.7	86.5	86.5	98.0	144.1	167.1	155.6
72.5°	1083.3	1025.7	472.5	74.9	51.9	51.9	57.6	74.9	109.5	126.7	115.2
75°	80.7	51.9	34.6	23.0	23.0	34.6	46.1	74.9	109.5	121.0	98.0
77.5°	5.8	11.5	5.8	5.8	17.3	34.6	51.9	92.2	144.1	149.8	109.5
80°	5.8	5.8	0.0	5.8	17.3	34.6	57.6	103.7	161.3	172.9	92.2
82.5°	0.0	0.0	0.0	5.8	23.0	46.1	69.1	109.5	149.8	184.4	98.0
85°	0.0	0.0	0.0	5.8	34.6	63.4	80.7	28.8	17.3	0.0	0.0
87.5°	0.0	0.0	0.0	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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5
2.5°	12389.0	12239.2	12181.5	12233.4	12216.1	12198.9	12515.8	12446.6	12435.1	12538.8	12515.8
5°	9300.4	9035.4	9761.4	9467.5	9772.9	9957.3	9991.8	10009.2	10222.4	9997.6	10291.5
7.5°	6626.7	6695.8	6690.1	6885.9	7237.5	7548.6	7733.1	7589.0	7577.5	7548.6	7421.9
10°	5295.6	5174.6	5151.5	5105.5	5214.9	5480.0	5704.7	5526.0	5399.3	5572.1	5520.3
12.5°	4327.5	4160.4	4068.2	3883.8	3889.5	4068.2	4068.2	4068.2	4195.0	4293.0	4367.8
15°	3319.1	3180.8	3180.8	2996.4	2956.1	2961.8	3054.0	3065.5	3267.2	3324.9	3353.7
17.5°	2322.3	2247.3	2333.8	2408.6	2362.5	2374.1	2408.6	2420.1	2449.0	2425.9	2483.6
20°	1786.3	1774.8	1797.8	1930.3	2028.3	2085.9	2045.6	1988.0	1953.4	1872.7	1872.7
22.5°	1515.5	1538.5	1578.9	1688.4	1815.1	1849.7	1803.6	1671.1	1567.4	1555.8	1561.6
25°	1348.4	1371.4	1434.8	1504.0	1573.1	1630.7	1584.6	1486.7	1429.0	1377.2	1377.2
27.5°	1244.7	1256.2	1290.8	1342.7	1400.3	1446.4	1429.0	1377.2	1313.8	1290.8	1238.9
30°	1164.0	1181.3	1221.6	1233.2	1285.0	1308.0	1279.2	1267.7	1227.4	1198.6	1181.3
32.5°	1123.7	1117.9	1146.7	1158.2	1164.0	1181.3	1146.7	1164.0	1158.2	1112.1	1094.8
35°	847.1	893.1	968.1	1031.5	1048.7	1071.8	1066.1	1043.0	979.6	927.7	864.4
37.5°	760.6	789.4	829.8	881.6	950.8	979.6	968.1	910.5	835.5	801.0	789.4
40°	703.0	720.3	754.9	789.4	858.6	910.5	870.1	818.2	760.6	731.8	714.5
42.5°	651.1	656.9	674.2	708.8	760.6	841.3	772.1	703.0	679.9	662.7	651.1
45°	593.5	593.5	616.5	633.9	691.5	766.4	697.3	633.9	622.3	610.8	605.0
47.5°	547.4	553.2	564.7	587.8	633.9	685.8	639.6	587.8	558.9	553.2	541.7
50°	489.8	495.6	518.6	541.7	599.3	628.1	599.3	541.7	512.8	495.6	495.6
52°	443.7	461.0	484.0	530.2	570.5	616.5	582.0	518.6	484.0	466.8	455.2
52.5°	437.9	449.4	472.5	524.4	570.5	610.8	576.3	512.8	472.5	461.0	449.4
55°	391.8	409.1	449.4	512.8	564.7	610.8	564.7	507.1	449.4	420.7	409.1
57.5°	374.6	386.1	437.9	518.6	558.9	610.8	564.7	507.1	449.4	397.6	386.1
60°	357.3	380.3	437.9	501.3	553.2	616.5	570.5	501.3	437.9	374.6	374.6
62.5°	340.0	357.3	432.2	489.8	530.2	593.5	547.4	489.8	420.7	357.3	351.5
65°	293.8	322.7	380.3	409.1	455.2	512.8	466.8	426.4	368.8	316.9	311.2
67.5°	224.7	236.2	282.3	316.9	345.7	397.6	374.6	322.7	282.3	242.0	242.0
70°	155.6	167.1	201.7	219.0	247.8	276.6	259.3	219.0	190.2	167.1	161.3
72.5°	109.5	115.2	126.7	138.3	149.8	161.3	155.6	126.7	109.5	103.7	98.0
75°	86.5	98.0	103.7	98.0	92.2	86.5	86.5	74.9	63.4	57.6	57.6
77.5°	86.5	92.2	86.5	74.9	63.4	57.6	51.9	46.1	34.6	28.8	34.6
80°	74.9	74.9	74.9	63.4	57.6	51.9	46.1	40.4	34.6	28.8	28.8
82.5°	80.7	80.7	74.9	63.4	63.4	51.9	51.9	46.1	40.4	28.8	28.8
85°	0.0	0.0	0.0	11.5	28.8	51.9	51.9	46.1	40.4	34.6	34.6
87.5°	0.0	0.0	0.0	0.0	5.8	11.5	23.0	28.8	34.6	34.6	34.6
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°	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5
2.5°	12723.2	12942.1	13357.1	13772.0	14025.5	14325.2	14866.8	15154.9	15529.5	15713.8	16076.9
5°	10251.2	10769.8	10954.2	11426.7	11933.8	12440.8	13247.6	14135.0	14872.6	15379.6	16036.5
7.5°	7479.5	7600.5	8315.1	8631.9	9461.8	10383.7	11484.4	12602.2	13535.7	14365.5	14866.8
10°	5606.8	6050.4	6499.9	7104.9	7773.4	8724.2	9778.6	11011.8	12221.9	13051.6	13685.5
12.5°	4506.2	4857.6	5456.9	6108.1	6932.1	7560.2	8620.4	9842.1	11409.4	12221.9	13057.5
15°	3411.3	3860.8	4540.7	5214.9	6085.1	6747.7	7819.4	9358.1	11374.9	12492.7	13213.0
17.5°	2529.6	2835.1	3445.9	4200.7	5088.1	6021.6	7468.0	9306.2	11760.9	13092.0	13835.4
20°	1936.2	2039.8	2425.9	3100.1	4062.5	5284.1	6897.5	9530.9	12901.9	14549.9	15304.8
22.5°	1567.4	1613.5	1763.2	2230.0	3163.5	4638.7	6626.7	9686.5	14186.8	16295.9	17304.2
25°	1365.7	1354.2	1452.1	1653.8	2472.0	4033.6	6280.9	10274.2	15760.0	18347.3	19251.9
27.5°	1244.7	1244.7	1290.8	1434.8	2051.4	3641.8	6061.9	10694.9	17344.6	20150.9	20640.7
30°	1181.3	1192.8	1325.3	1371.4	1705.6	3175.0	5699.0	11121.3	18860.1	21303.3	21977.5
32.5°	1094.8	1048.7	1020.0	1135.2	1434.8	2754.4	5335.9	11299.9	20087.5	22715.1	23291.3
35°	841.3	818.2	852.9	939.2	1233.2	2397.1	4932.5	11501.6	21499.2	24351.6	24466.9
37.5°	760.6	754.9	777.9	852.9	1037.2	2085.9	4644.4	11449.7	22576.8	25705.8	25394.6
40°	703.0	703.0	720.3	783.6	927.7	1867.0	4344.8	11403.6	23619.8	27227.0	26316.6
42.5°	656.9	656.9	685.8	726.0	881.6	1723.0	4120.1	11340.3	24495.6	28160.5	26858.2
45°	593.5	610.8	656.9	697.3	893.1	1625.0	3953.0	11098.3	24795.3	28148.9	26598.9
47.5°	547.4	570.5	616.5	674.2	806.7	1596.1	3837.7	10885.1	24691.6	27457.5	25786.4
50°	495.6	524.4	587.8	685.8	685.8	1538.5	3716.7	11075.2	24616.7	26921.6	25008.5
52°	461.0	484.0	564.7	668.4	599.3	1417.5	3641.8	11444.0	24922.0	26852.5	24662.7
52.5°	455.2	472.5	547.4	656.9	570.5	1394.5	3589.9	11530.4	25020.0	26679.5	24899.0
55°	403.3	426.4	501.3	512.8	466.8	1146.7	3422.8	11726.3	24536.0	26339.6	24674.3
57.5°	380.3	391.8	443.7	420.7	403.3	864.4	2944.5	11420.9	21793.1	23395.0	22957.1
60°	351.5	363.1	414.9	328.5	340.0	605.0	2212.8	9917.0	17500.2	19494.0	20283.4
62.5°	340.0	334.2	391.8	265.1	288.1	437.9	1561.6	8061.5	13483.8	16048.0	17413.7
65°	299.6	293.8	282.3	224.7	247.8	340.0	933.5	5261.0	9502.0	12141.3	12890.3
67.5°	230.5	242.0	207.5	178.6	207.5	265.1	518.6	2356.8	4984.4	7283.6	7888.7
70°	161.3	172.9	167.1	155.6	184.4	219.0	299.6	806.7	2062.9	3826.2	4218.0
72.5°	98.0	121.0	126.7	132.5	161.3	190.2	213.2	259.3	547.4	1354.2	1682.6
75°	57.6	80.7	98.0	115.2	132.5	161.3	178.6	184.4	190.2	253.6	409.1
77.5°	40.4	57.6	86.5	109.5	132.5	161.3	190.2	201.7	190.2	178.6	190.2
80°	34.6	57.6	80.7	103.7	138.3	167.1	190.2	190.2	184.4	161.3	172.9
82.5°	34.6	57.6	86.5	109.5	132.5	161.3	184.4	190.2	172.9	161.3	167.1
85°	40.4	63.4	92.2	115.2	144.1	132.5	121.0	98.0	92.2	74.9	80.7
87.5°	40.4	57.6	57.6	63.4	69.1	69.1	69.1	63.4	51.9	46.1	46.1
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: P653553

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5	14728.5
2.5°	16094.2	16555.2	16537.8	16549.4	16480.2	16013.5	15788.8	15218.3	15379.6	15310.5
5°	16710.8	17166.0	17557.8	17511.7	16981.6	16347.7	15408.5	14521.0	14279.1	13921.7
7.5°	16094.2	17189.0	17552.1	17500.2	16716.5	15904.0	14405.8	13518.4	13097.7	12861.5
10°	15114.6	16382.3	16831.8	16923.9	16393.8	15160.7	13783.5	12360.2	12135.5	11726.3
12.5°	14555.6	15477.6	15754.2	16002.0	15817.6	14895.6	13311.0	11945.3	11634.1	11363.3
15°	14100.4	14647.9	14763.1	15045.4	15154.9	14659.4	13558.8	12394.7	11628.3	11599.6
17.5°	14521.0	14296.3	13875.7	13962.1	14307.8	14665.1	14198.4	13282.2	12538.8	12446.6
20°	15218.3	14227.2	13276.4	13489.6	13777.8	14872.6	15166.4	14521.0	14094.7	13858.4
22.5°	16019.3	14348.2	13086.2	13190.0	13737.4	15339.3	16733.8	16376.5	15581.4	15241.4
25°	17500.2	14682.4	13236.1	13305.2	14054.3	15990.4	18151.3	18416.4	17943.9	17874.8
27.5°	18946.6	15546.7	13564.5	13408.9	14215.7	16624.3	19009.9	20433.2	19603.5	19442.1
30°	19684.1	16249.8	14054.3	13789.3	14884.1	17010.4	19528.5	21747.0	21021.0	20946.0
32.5°	20813.5	16889.4	14434.7	14094.7	15258.7	17488.7	20496.6	23181.8	22478.8	22104.3
35°	21286.0	17586.7	15270.2	14872.6	16330.5	18157.1	20992.2	24461.1	24242.1	23879.1
37.5°	22196.5	18335.7	16255.5	16232.5	17626.9	19027.2	21885.3	26201.3	26161.0	25532.8
40°	22271.4	19153.9	17811.4	18537.4	19632.2	20542.7	22669.0	26685.4	27342.3	26915.9
42.5°	22386.7	20588.8	20502.4	21101.6	22040.9	21845.0	22697.8	26800.6	27803.2	27549.7
45°	22438.5	22023.6	23239.4	24345.9	24737.7	23550.6	22426.9	26581.7	28045.2	27411.4
47.5°	22023.6	23256.8	25452.2	27590.0	27705.2	24599.4	22311.7	26356.9	28189.3	27768.6
50°	22081.2	24028.9	27365.3	29278.4	28857.7	25527.1	22133.1	26218.6	28114.4	27832.1
52°	21943.0	24046.2	27636.1	29243.8	28949.9	25014.3	21827.7	25688.4	28045.2	28246.9
52.5°	22098.5	23942.5	27353.8	29266.9	28886.6	25267.8	21787.4	25982.4	28085.6	27676.5
55°	21562.7	22709.4	25700.0	26512.4	26454.8	22934.1	20548.5	25008.5	27031.1	27036.8
57.5°	19488.2	19684.1	20156.6	20139.3	19874.3	18030.3	17575.1	22997.5	24098.0	23498.8
60°	17171.7	14411.5	13138.1	12619.5	12325.6	12026.0	15546.7	21038.3	21142.0	20888.4
62.5°	14838.0	9991.8	8297.7	8153.7	8222.9	9317.7	15028.2	20260.4	19638.0	19090.6
65°	11974.2	7283.6	6027.4	5837.2	6511.4	7692.7	12164.3	15535.2	14578.7	14123.5
67.5°	7519.8	5312.8	4074.0	3716.7	4529.2	5295.6	7992.4	9761.4	8689.5	8061.5
70°	4460.1	2967.6	1844.0	1653.8	1861.2	2823.6	4477.3	4869.1	4027.9	3705.2
72.5°	1757.5	1089.1	512.8	437.9	455.2	991.1	1648.0	1607.7	1215.8	1083.3
75°	472.5	328.5	178.6	144.1	121.0	184.4	265.1	172.9	63.4	80.7
77.5°	219.0	196.0	155.6	121.0	92.2	69.1	34.6	11.5	11.5	5.8
80°	190.2	167.1	144.1	121.0	92.2	57.6	28.8	5.8	5.8	5.8
82.5°	178.6	155.6	132.5	109.5	86.5	57.6	28.8	5.8	0.0	0.0
85°	74.9	98.0	109.5	103.7	92.2	57.6	28.8	5.8	0.0	0.0
87.5°	40.4	34.6	28.8	23.0	17.3	11.5	11.5	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

(END OF REPORT)