

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: P324503

Luminaire Tested: **GAN-SA9D-740-U-SLR-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324503  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-740-U-SLR-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

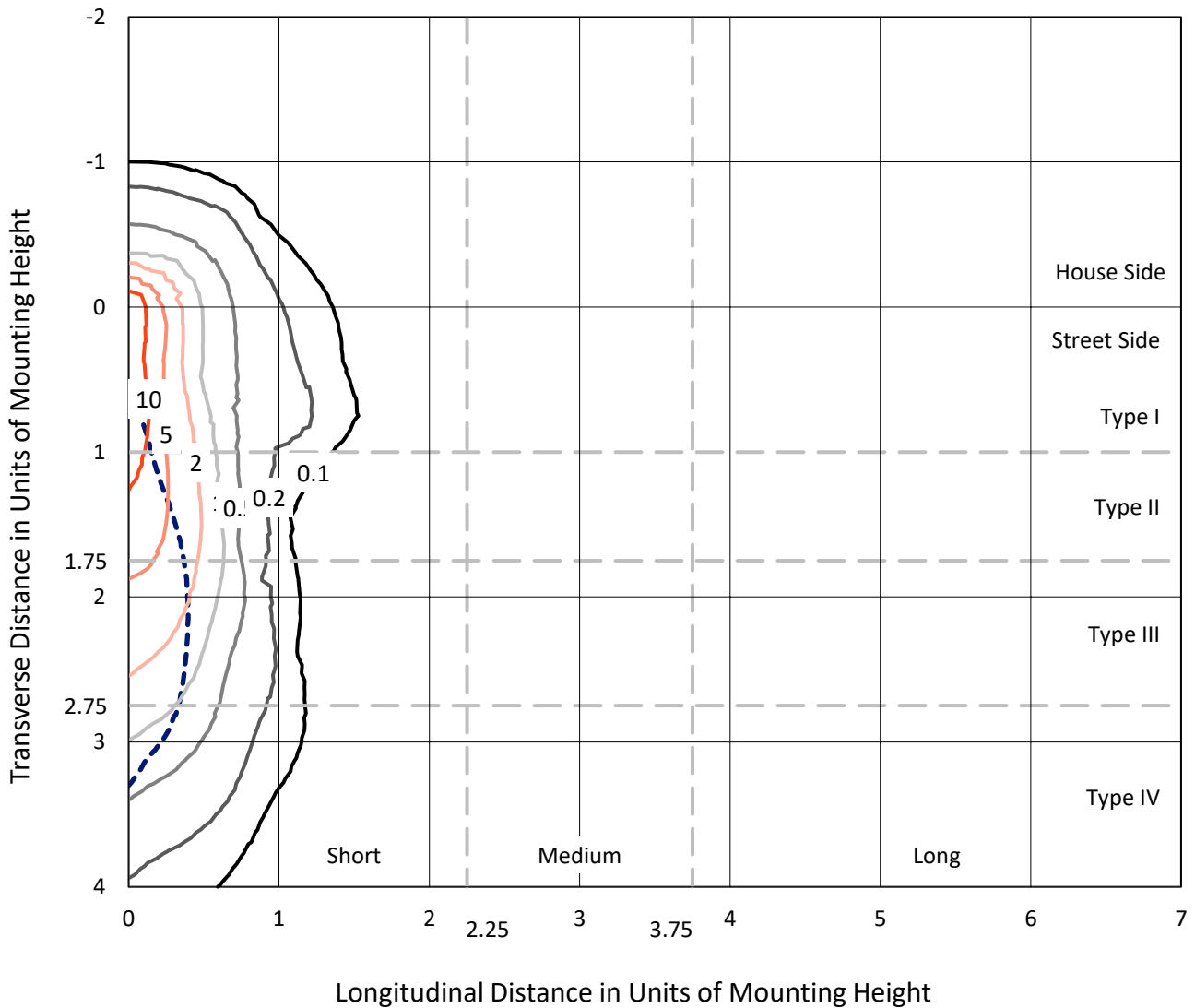
Lumens per Lamp: N/A  
Luminaire Lumens: 51420 lumens  
Efficiency: N/A  
Efficacy: 89.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

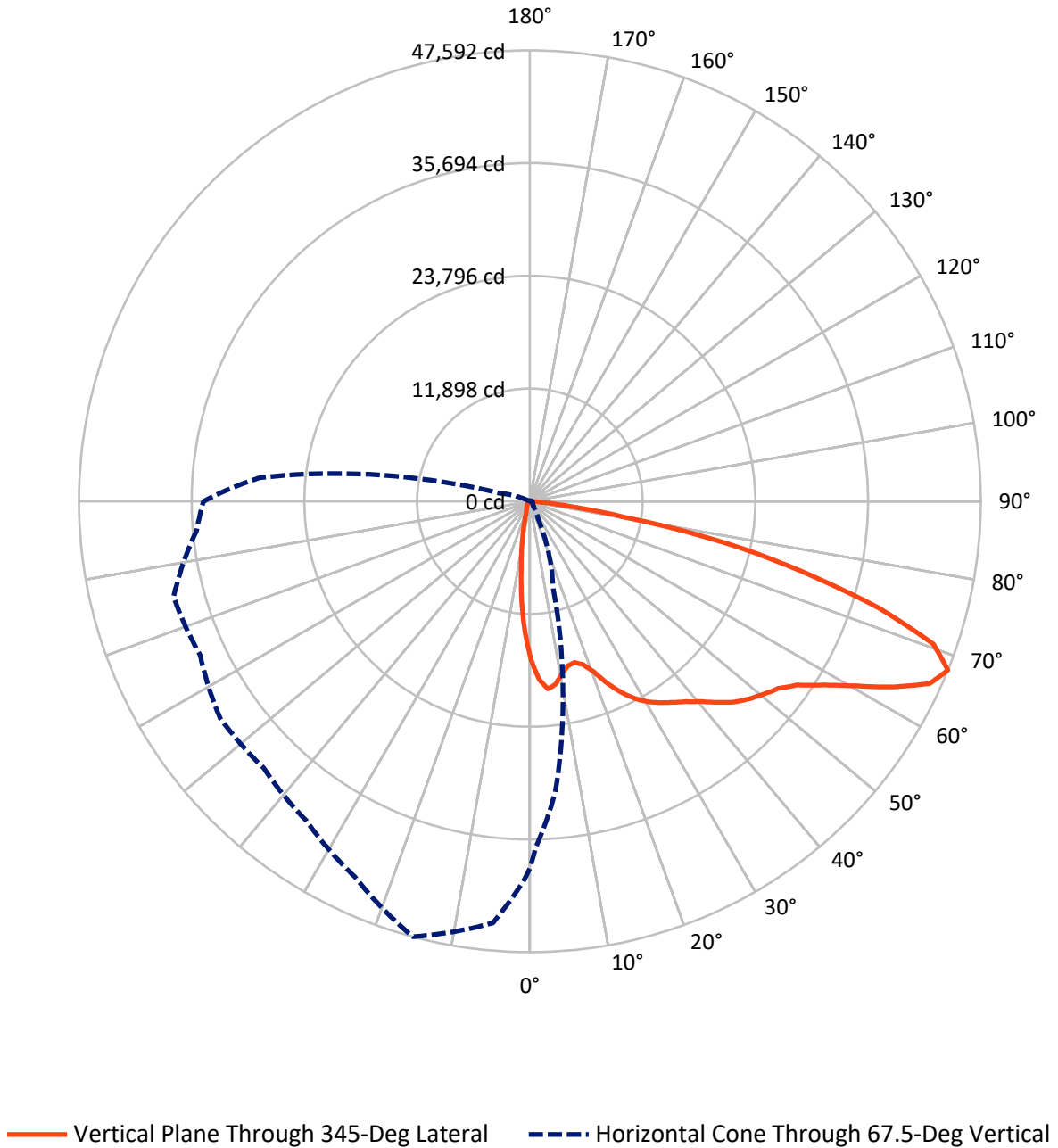
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 18.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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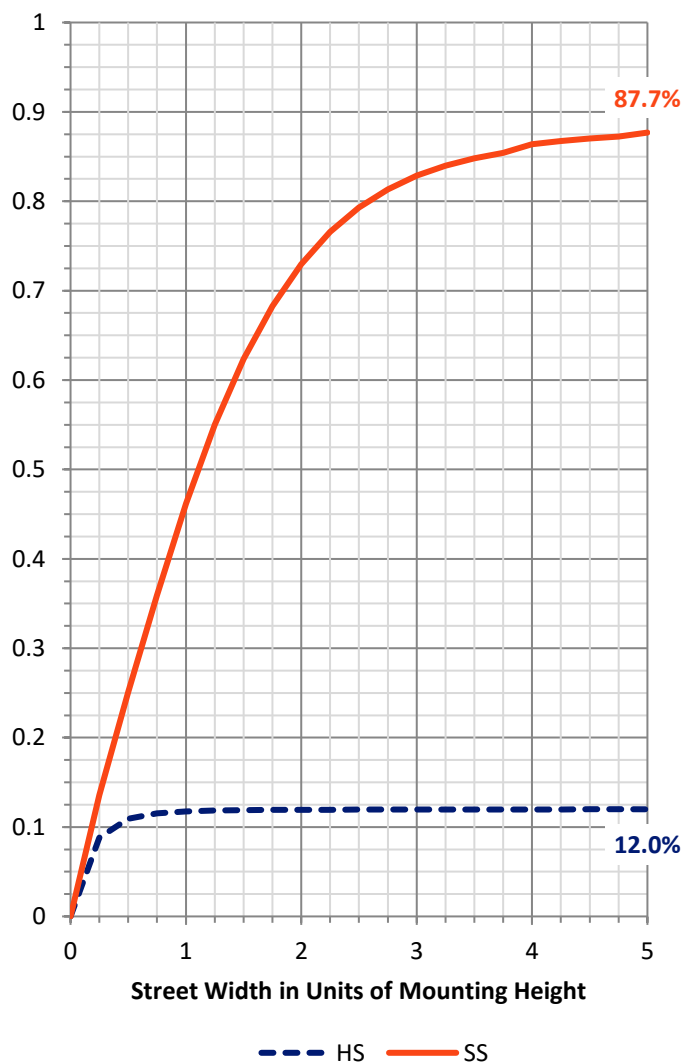
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6223.5	0.0	6223.5
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	45196.5	0.0	45196.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	51420.0	0.0	51420.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1285.5	2.5
10°-20°	2558.8	5.0
20°-30°	3633.6	7.1
30°-40°	5367.0	10.4
40°-50°	7740.4	15.1
50°-60°	10865.9	21.1
60°-70°	12666.5	24.6
70°-80°	6475.3	12.6
80°-90°	827.0	1.6
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°	51420.0	100.0
0°-180°	51420.0	100.0

**Coefficient of Utilization**

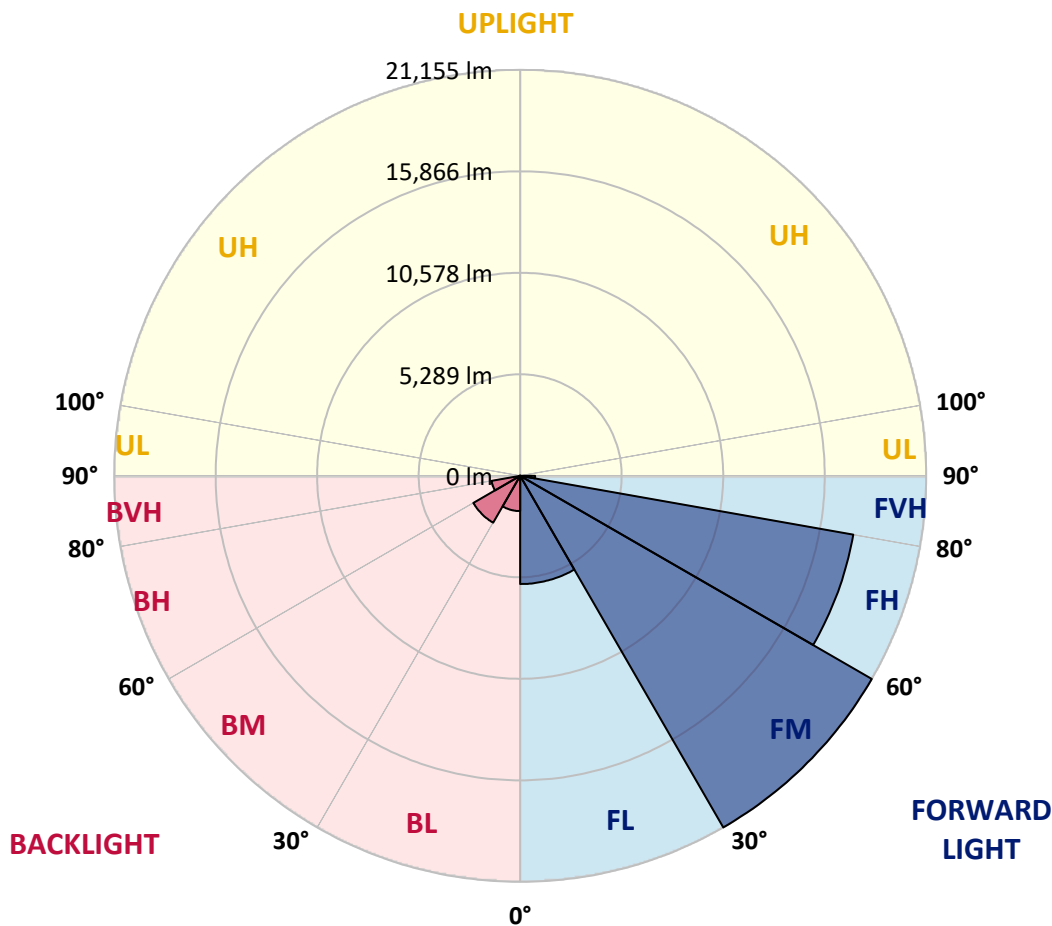


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5639.8	11.0			
FM (30°-60°)	21155.0	41.1			
FH (60°-80°)	17625.0	34.3			G5
FVH (80°-90°)	776.7	1.5			G5
BL (0°-30°)	1838.2	3.6	B3/2500		
BM (30°-60°)	2818.2	5.5	B3/5000		
BH (60°-80°)	1516.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	50.2	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0
2.5°	18340.7	18199.4	18043.5	17534.4	17061.8	16521.0	16080.1	15773.1	15388.2	14888.9	14762.2
5°	18209.1	18058.1	17568.5	16435.7	15444.3	14479.6	13549.1	13003.4	12326.2	11639.2	11468.7
7.5°	16886.4	16728.0	16021.6	14469.9	13134.9	11741.5	10533.3	9785.4	9020.5	8392.0	8058.3
10°	15510.0	15337.1	14542.9	12659.9	11015.6	9756.2	8869.5	8155.7	7432.3	6759.9	6224.0
12.5°	14562.4	14335.9	13473.5	11339.6	9907.2	9052.2	8224.0	7368.9	6389.6	5668.6	5079.1
15°	14165.4	13907.2	12996.1	10830.5	9515.0	8511.4	7432.3	6382.3	5235.0	4409.2	3868.4
17.5°	14472.3	14136.1	13159.3	10796.4	9023.0	7656.4	6292.2	5059.6	3814.8	2979.2	2594.3
20°	15514.9	15074.0	13834.1	10786.6	8426.1	6640.5	4911.0	3517.6	2514.0	2021.9	1819.7
22.5°	17156.8	16574.6	14803.6	10864.6	7809.8	5573.6	3546.8	2389.7	1887.9	1632.1	1512.8
25°	19139.7	18464.9	16199.4	11139.9	7269.0	4535.8	2577.3	1887.9	1593.1	1405.6	1305.7
27.5°	21025.2	20477.1	17963.1	11536.9	6850.0	3697.9	2092.5	1600.5	1361.7	1237.5	1157.1
30°	22908.2	22218.8	19773.1	12009.5	6345.8	3130.3	1839.2	1459.2	1220.4	1088.9	1037.7
32.5°	24277.2	23704.8	21190.8	12350.5	5807.4	2760.0	1644.3	1334.9	1140.1	1006.1	930.6
35°	25887.4	25239.4	22406.4	12426.1	5461.5	2526.1	1478.7	1201.0	989.0	869.7	789.3
37.5°	27626.7	26820.4	23809.5	12260.4	5191.1	2411.6	1354.4	1140.1	923.2	801.4	716.2
40°	29551.2	28640.1	25156.6	12021.7	4925.6	2372.7	1259.4	1093.8	872.1	747.9	660.2
42.5°	31577.9	30503.7	26323.5	11770.8	4757.5	2238.7	1249.7	1047.5	833.1	699.1	611.4
45°	33280.7	32191.8	27522.0	11688.0	4638.2	2092.5	1291.1	1015.8	806.3	660.2	574.9
47.5°	34637.6	33607.1	28749.7	11873.1	4569.9	1958.5	1176.6	1057.2	791.7	626.1	543.2
50°	36257.5	35090.7	30479.3	12426.1	4470.1	1824.6	1064.5	1210.7	791.7	604.1	516.4
52.5°	38289.1	37134.5	32408.6	13283.5	4270.3	1639.4	957.3	1213.1	799.0	574.9	482.3
55°	40844.5	40006.5	35163.7	14223.8	3951.2	1366.6	828.2	1042.6	769.8	521.3	450.7
57.5°	43295.1	42610.6	37675.3	14866.9	3524.9	1067.0	721.1	840.4	704.0	458.0	401.9
59°	43965.0	43217.2	38596.1	14896.2	3205.8	930.6	667.5	694.3	689.4	428.7	372.7
60°	43965.0	43170.9	38861.6	14740.3	2974.4	855.0	633.4	618.7	718.6	409.2	355.7
62.5°	43168.4	42052.8	37999.2	13685.5	2426.3	728.4	553.0	511.6	645.5	367.8	314.2
65°	41512.0	39887.1	35061.4	11778.1	2163.2	667.5	477.5	419.0	448.2	324.0	275.3
67.5°	38749.5	36547.4	30825.2	9515.0	2058.4	650.4	411.7	355.7	338.6	277.7	241.2
70°	33884.8	31441.5	25682.8	7481.0	1968.3	643.1	345.9	299.6	272.8	233.9	204.6
72.5°	24662.1	22114.1	18233.5	5848.8	1914.7	657.7	277.7	250.9	224.1	182.7	158.3
75°	14106.9	12438.2	10248.3	3863.5	1632.1	628.5	214.4	209.5	160.8	131.5	109.6
77.5°	7288.5	7066.9	6141.2	1483.5	782.0	275.3	141.3	121.8	95.0	80.4	65.8
80°	3144.9	3110.8	2691.8	428.7	207.1	153.5	80.4	51.2	43.8	34.1	26.8
82.5°	1086.5	1086.5	957.3	143.7	92.6	75.5	9.7	0.0	0.0	0.0	0.0
85°	219.2	246.0	173.0	0.0	31.7	0.0	0.0	0.0	0.0	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°	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0
2.5°	14608.7	14314.0	14294.5	14109.3	13877.9	13773.2	13712.3	13819.5	13951.0	13965.6	14162.9
5°	11339.6	11030.2	11159.3	10830.5	10896.2	10830.5	10723.3	10742.8	10801.2	10618.5	10845.1
7.5°	7963.3	7729.4	7878.0	7790.3	7907.3	7953.6	7887.8	7790.3	7502.9	7468.8	7666.1
10°	6002.3	5736.8	5578.5	5412.8	5449.3	5524.9	5500.5	5429.9	5247.2	5256.9	5446.9
12.5°	4823.3	4526.1	4211.9	3805.0	3705.2	3761.2	3705.2	3663.8	3488.4	3503.0	3671.1
15°	3658.9	3415.3	3086.4	2760.0	2582.2	2599.2	2443.3	2333.7	2224.1	2092.5	2194.8
17.5°	2470.1	2321.5	2224.1	2126.6	1914.7	1866.0	1668.7	1456.7	1373.9	1313.0	1356.9
20°	1749.1	1668.7	1629.7	1624.8	1503.0	1442.1	1249.7	1118.1	1076.7	1064.5	1091.3
22.5°	1461.6	1403.1	1347.1	1315.4	1254.5	1183.9	1037.7	972.0	942.7	928.1	947.6
25°	1271.6	1227.7	1169.3	1115.7	1091.3	1015.8	911.1	862.3	842.9	828.2	838.0
27.5°	1130.3	1091.3	1023.1	989.0	969.5	903.8	813.6	774.6	757.6	752.7	750.3
30°	1018.3	981.7	918.4	879.4	845.3	786.8	733.2	694.3	677.2	672.3	667.5
32.5°	906.2	877.0	835.5	796.6	760.0	706.4	660.2	628.5	601.7	596.8	594.4
35°	764.9	735.7	713.7	711.3	677.2	626.1	591.9	550.5	528.6	521.3	523.7
37.5°	679.6	640.7	591.9	609.0	599.3	562.7	516.4	475.0	453.1	448.2	448.2
40°	626.1	584.6	528.6	499.4	528.6	521.3	448.2	406.8	384.9	382.5	377.6
42.5°	574.9	533.5	470.1	421.4	436.0	458.0	387.3	348.3	326.4	321.6	314.2
45°	538.4	494.5	423.9	367.8	338.6	384.9	331.3	282.6	270.4	260.7	255.8
47.5°	504.3	462.8	382.5	319.1	270.4	277.7	265.5	231.4	216.8	207.1	204.6
50°	475.0	431.2	345.9	272.8	224.1	204.6	214.4	182.7	170.5	160.8	155.9
52.5°	440.9	399.5	306.9	236.3	187.6	160.8	163.2	143.7	131.5	124.2	121.8
55°	414.1	372.7	275.3	207.1	165.6	131.5	116.9	112.1	104.7	99.9	97.4
57.5°	377.6	338.6	243.6	175.4	141.3	107.2	90.1	90.1	87.7	82.8	80.4
59°	355.7	321.6	224.1	158.3	129.1	92.6	80.4	82.8	80.4	75.5	73.1
60°	338.6	306.9	209.5	146.2	121.8	85.3	73.1	78.0	75.5	70.6	68.2
62.5°	299.6	277.7	180.3	121.8	107.2	68.2	60.9	65.8	65.8	63.3	60.9
65°	263.1	238.7	153.5	102.3	99.9	58.5	48.7	58.5	60.9	56.0	51.2
67.5°	229.0	204.6	134.0	82.8	92.6	46.3	36.5	48.7	65.8	51.2	46.3
70°	194.9	170.5	104.7	65.8	97.4	31.7	29.2	43.8	78.0	56.0	43.8
72.5°	151.0	131.5	73.1	48.7	104.7	21.9	21.9	36.5	87.7	60.9	41.4
75°	104.7	85.3	43.8	29.2	85.3	14.6	14.6	34.1	82.8	56.0	39.0
77.5°	60.9	46.3	14.6	2.4	43.8	0.0	2.4	24.4	58.5	34.1	17.1
80°	21.9	9.7	0.0	0.0	26.8	0.0	0.0	0.0	4.9	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):**

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0
2.5°	14214.1	14542.9	14837.7	15283.5	15812.1	16421.1	16944.9	17507.6	18036.2	18255.4	18406.5
5°	10891.4	11298.2	11773.2	12428.5	13300.6	14374.9	15380.9	16518.5	17741.4	18352.9	18927.8
7.5°	7700.2	8114.3	8703.8	9400.5	10455.3	11734.2	13049.7	14620.9	16277.4	17244.5	18197.0
10°	5537.0	6046.2	6596.7	7549.2	8621.0	9834.2	11188.6	12942.5	14789.0	15860.8	17008.2
12.5°	3768.5	4348.3	5181.4	6248.4	7507.8	8696.5	9873.1	11546.7	13690.3	14752.4	15982.6
15°	2260.6	2582.2	3464.0	4699.1	6243.5	7724.6	9013.2	10691.6	12976.6	14277.4	15556.3
17.5°	1393.4	1542.0	2021.9	3035.3	4657.6	6530.9	8297.0	10401.7	13078.9	14662.3	16031.3
20°	1110.8	1169.3	1322.8	1792.9	3086.4	5215.5	7490.7	10343.3	13914.5	15863.3	17332.2
22.5°	964.7	1020.7	1123.0	1303.3	1941.5	3904.9	6725.8	10396.9	15113.0	17663.5	19378.4
25°	850.2	898.9	996.3	1144.9	1422.6	2750.2	5907.3	10635.6	16674.5	19897.3	21719.4
27.5°	760.0	801.4	891.6	1028.0	1220.4	1919.6	4979.2	10925.5	18525.8	22182.3	23980.0
30°	677.2	713.7	794.1	920.8	1059.7	1476.2	3960.9	11122.8	20379.6	23980.0	25595.1
32.5°	606.6	633.4	706.4	813.6	920.8	1176.6	3010.9	11091.1	21756.0	25475.7	26757.1
35°	533.5	560.3	623.6	716.2	801.4	972.0	2367.8	10499.2	22954.5	27027.5	28087.1
37.5°	453.1	487.2	548.1	630.9	689.4	855.0	1914.7	9785.4	24170.0	28800.9	29570.7
40°	384.9	419.0	472.6	562.7	599.3	811.2	1471.3	8915.8	25536.6	30783.8	31197.9
42.5°	319.1	350.8	406.8	484.8	565.2	699.1	1088.9	7921.9	26849.6	32479.3	32681.4
45°	258.2	289.9	348.3	426.3	604.1	579.8	842.9	6857.4	27909.3	33889.7	33955.5
47.5°	204.6	233.9	294.8	401.9	562.7	462.8	601.7	6021.8	28798.4	34990.8	34817.8
50°	158.3	182.7	246.0	460.4	492.1	382.5	455.5	5744.1	29595.0	35672.9	35224.6
52.5°	124.2	146.2	202.2	431.2	382.5	316.7	382.5	6004.8	30686.4	36238.0	35453.6
55°	99.9	121.8	158.3	246.0	260.7	268.0	326.4	6248.4	32569.4	37563.2	36805.6
57.5°	82.8	104.7	129.1	173.0	197.3	226.5	289.9	6275.1	34788.6	39765.3	39049.2
59°	75.5	95.0	116.9	153.5	173.0	207.1	272.8	6129.0	35570.5	40566.8	40208.7
60°	70.6	90.1	109.6	141.3	160.8	194.9	263.1	5990.1	35604.6	40537.6	40703.2
62.5°	60.9	80.4	97.4	119.4	136.4	165.6	236.3	5476.1	34162.5	39209.9	40406.0
65°	53.6	70.6	87.7	102.3	116.9	148.6	214.4	4538.3	31699.7	37068.7	38371.9
67.5°	48.7	60.9	80.4	90.1	104.7	131.5	190.0	3235.0	28623.1	34450.0	35295.3
70°	43.8	58.5	73.1	82.8	95.0	114.5	163.2	1858.7	24170.0	30615.7	31217.4
72.5°	41.4	56.0	65.8	78.0	85.3	102.3	148.6	874.5	17697.6	24525.7	26096.9
75°	36.5	51.2	60.9	73.1	80.4	92.6	126.7	419.0	11770.8	17748.7	19534.3
77.5°	21.9	41.4	56.0	65.8	70.6	80.4	104.7	241.2	7512.6	12284.8	14469.9
80°	0.0	14.6	41.4	56.0	60.9	68.2	80.4	190.0	4019.4	7018.1	8423.7
82.5°	0.0	0.0	29.2	43.8	41.4	46.3	60.9	119.4	1812.4	4587.0	5169.2
85°	0.0	0.0	9.7	34.1	29.2	21.9	41.4	41.4	397.1	2321.5	2896.4
87.5°	0.0	0.0	0.0	2.4	14.6	9.7	17.1	4.9	2.4	173.0	701.6
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: P324503

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**CANDELA DISTRIBUTION (continued):**

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0	16750.0
2.5°	18935.1	19115.3	19419.8	19563.6	19492.9	19193.3	18835.2	18469.8	18255.4	18340.7
5°	20099.5	21027.6	21563.5	21741.3	21444.2	20771.8	19892.4	18732.9	18321.2	18209.1
7.5°	20099.5	21846.1	22952.0	23146.9	22484.3	21166.4	19517.3	17707.3	17105.6	16886.4
10°	19393.0	21770.6	23312.6	23621.9	22696.3	20725.5	18516.1	16450.3	15736.6	15510.0
12.5°	18596.5	21156.7	22781.5	23207.8	22447.8	20287.0	17821.8	15600.2	14759.8	14562.4
15°	18106.8	20401.5	21746.2	22055.6	21734.0	20031.3	17656.2	15344.4	14355.4	14165.4
17.5°	18282.2	19816.9	20301.7	20481.9	20698.7	19941.1	18106.8	15904.7	14652.6	14472.3
20°	18942.4	19200.6	18949.7	19176.2	19760.9	20028.8	19181.1	17259.1	15756.1	15514.9
22.5°	20062.9	18881.5	18177.5	18267.6	18978.9	20318.7	20823.0	19193.3	17458.8	17156.8
25°	21368.6	19139.7	17748.7	17668.3	18399.1	20701.2	22323.5	21298.0	19473.4	19139.7
27.5°	23010.5	19719.5	17661.0	17580.6	18197.0	21059.3	23570.8	23378.3	21595.2	21025.2
30°	24277.2	20289.5	17921.7	17736.6	18399.1	21307.7	24572.0	25144.4	23285.8	22908.2
32.5°	25185.9	20961.8	18345.6	18077.6	18969.2	21736.5	25344.2	26761.9	24849.7	24277.2
35°	25877.7	21692.6	19030.1	18589.2	19753.6	22386.9	26067.7	28484.2	26513.5	25887.4
37.5°	26525.7	22718.2	20099.5	19573.3	20983.7	23434.4	26832.6	30437.9	28374.6	27626.7
40°	27429.4	23880.2	21748.7	21280.9	23051.9	24861.9	27787.5	32474.4	30491.5	29551.2
42.5°	28333.2	25127.4	23436.8	23563.5	25631.6	26596.3	29020.1	34627.8	32581.6	31577.9
45°	29159.0	26413.6	25841.1	26425.8	28026.2	28498.8	30245.4	35872.6	34250.2	33280.7
47.5°	29894.7	28021.4	28230.9	29787.5	30749.7	30221.1	31161.4	36946.9	35492.6	34637.6
50°	30749.7	30101.7	31380.6	33582.8	33884.8	31780.1	31994.5	38218.5	36944.5	36257.5
52.5°	31685.1	32294.1	34869.0	36810.5	36713.0	33473.1	32832.5	39643.5	38934.7	38289.1
55°	32747.2	34065.1	37940.8	39831.1	39748.3	35363.5	34221.0	41404.8	41429.1	40844.5
57.5°	34323.3	35590.0	40026.0	42274.4	42413.3	37546.1	36574.2	43377.9	43684.9	43295.1
59°	35453.6	36579.0	40851.8	43295.1	43860.3	39234.3	38294.0	44522.9	44320.7	43965.0
60°	36291.6	37207.5	41261.1	43828.6	44700.7	40379.2	39563.2	45195.2	44396.2	43965.0
62.5°	38364.6	38576.6	41999.2	44432.7	45667.8	42922.4	43134.3	46340.1	43872.4	43168.4
65°	39331.7	39441.4	41989.4	43351.1	44732.4	44902.9	46374.2	46374.2	42593.5	41512.0
67.5°	38927.4	38398.7	39906.6	39765.3	41144.1	43726.3	47592.2	44673.9	40147.8	38749.5
70°	35638.8	33604.7	32934.8	32995.7	34050.5	38033.3	45180.6	39670.3	35519.4	33884.8
72.5°	29653.5	24774.2	23120.1	25008.0	25283.3	29229.6	38503.5	29875.2	26194.4	24662.1
75°	23850.9	17463.7	14774.4	16767.0	17234.7	21390.6	29785.0	18606.2	15300.5	14106.9
77.5°	17134.9	12535.7	10601.5	10462.6	11066.8	13566.1	21134.8	9364.0	7809.8	7288.5
80°	9734.3	8250.7	8884.1	8382.3	8686.8	8482.2	10041.2	4107.1	3364.1	3144.9
82.5°	5875.6	4876.9	5281.3	4397.0	5563.8	4845.2	3868.4	1315.4	1142.5	1086.5
85°	3822.1	2665.0	1388.5	930.6	1917.1	3096.2	864.8	358.1	275.3	219.2
87.5°	1317.9	679.6	68.2	29.2	204.6	577.3	31.7	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)