

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: McGRAW-EDISON

Report Number: P454205

Luminaire Tested: **GALN-SA5B-740-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454205  
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: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-740-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA 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: 24563 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

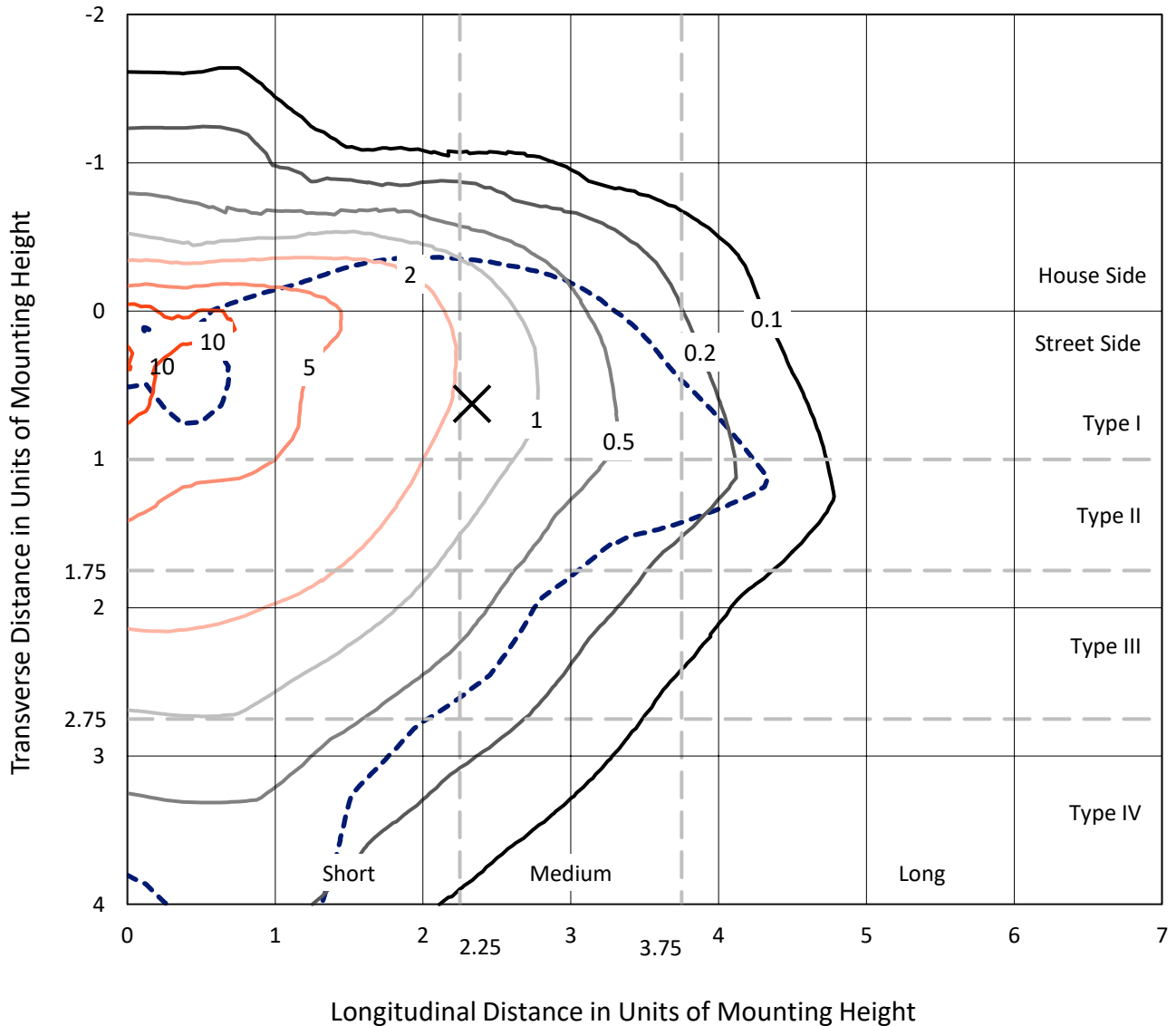
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

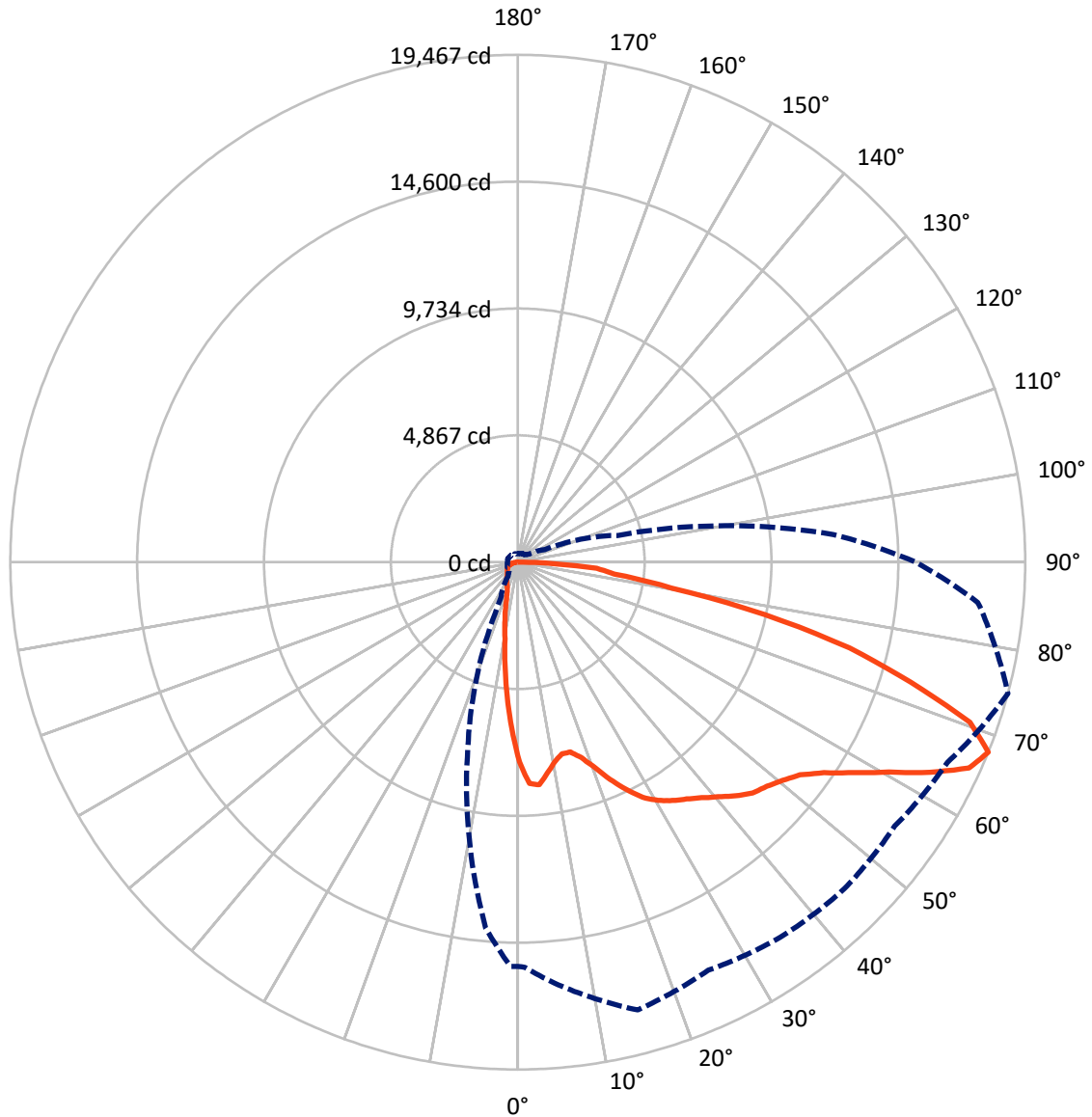
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 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
<b>House Side</b>	Lumens	4151.7	0.0	4151.7
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	20411.3	0.0	20411.3
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	24563.0	0.0	24563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	582.1	2.4
10°-20°	1213.9	4.9
20°-30°	1746.8	7.1
30°-40°	2515.9	10.2
40°-50°	3534.2	14.4
50°-60°	4928.9	20.1
60°-70°	5860.1	23.9
70°-80°	3451.3	14.1
80°-90°	729.8	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°	24563.0	100.0
0°-180°	24563.0	100.0

**Coefficient of Utilization**

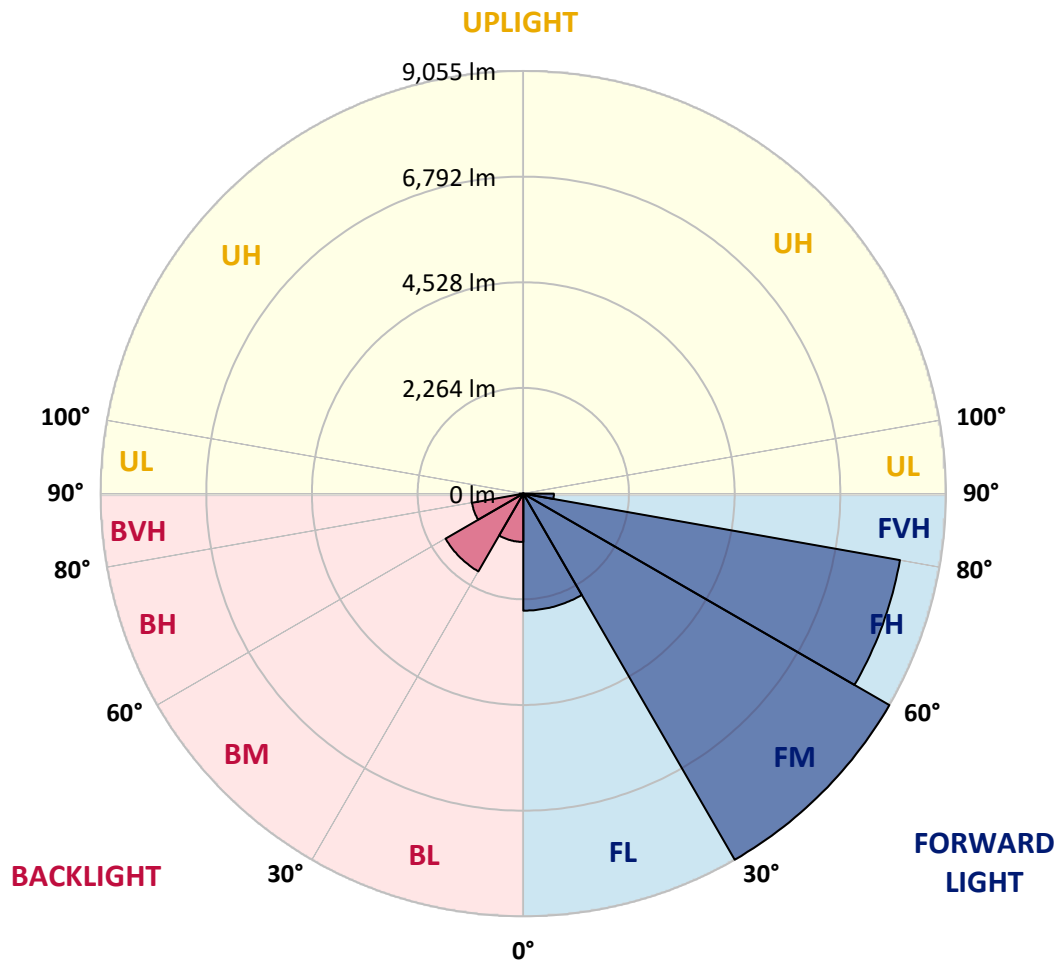


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2507.2	10.2			
FM	(30°-60°)	9055.5	36.9			
FH	(60°-80°)	8194.3	33.4			G4/12000
FVH	(80°-90°)	654.3	2.7			G4/750
BL	(0°-30°)	1035.6	4.2	B3/2500		
BM	(30°-60°)	1923.5	7.8	B2/2500		
BH	(60°-80°)	1117.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	75.5	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1
2.5°	8274.2	8285.2	8356.1	8562.4	8704.2	8756.2	8792.4	8724.7	8658.5	8497.9	8255.3
5°	8249.0	8313.6	8497.9	8960.9	9326.4	9483.9	9531.1	9328.0	8992.5	8579.8	8083.6
7.5°	7767.0	7853.6	8137.2	8913.7	9557.9	9926.5	9877.7	9510.7	8905.8	8170.2	7477.2
10°	7195.2	7291.3	7633.1	8571.9	9402.0	9909.2	9909.2	9461.8	8658.5	7784.3	6985.7
12.5°	6741.6	6842.4	7233.0	8220.6	9077.5	9557.9	9638.3	9253.9	8480.5	7540.2	6662.8
15°	6591.9	6689.6	7110.2	8008.0	8734.1	9027.1	9053.9	8927.9	8393.9	7557.5	6648.6
17.5°	6777.8	6903.8	7329.1	8071.0	8419.1	8436.4	8456.9	8556.1	8403.4	7874.1	6935.3
20°	7314.9	7450.4	7894.6	8274.2	8143.5	7963.9	7974.9	8230.1	8515.2	8397.0	7620.5
22.5°	8089.9	8208.0	8663.2	8631.7	8026.9	7656.7	7579.6	7935.5	8680.6	9049.2	8349.8
25°	8926.3	9064.9	9587.9	9162.6	8060.0	7474.0	7425.2	7762.3	8852.3	9658.7	9192.5
27.5°	9884.0	10019.4	10432.1	9698.1	8233.2	7459.8	7401.6	7746.5	9006.6	10222.6	9997.4
30°	10595.9	10720.4	11000.7	10148.6	8445.9	7554.4	7481.9	7871.0	9138.9	10608.5	10781.8
32.5°	11155.1	11284.3	11437.1	10429.0	8726.3	7726.0	7592.2	8097.8	9312.2	10903.1	11363.0
35°	11737.9	11890.7	11879.7	10677.8	8987.7	7924.5	7793.8	8425.4	9584.7	11159.8	12100.2
37.5°	12476.7	12538.1	12459.3	10901.5	9301.2	8282.1	8209.6	8912.1	9972.2	11470.1	12961.8
40°	13226.4	13349.3	12944.5	11172.4	9682.4	8954.6	8946.8	9632.0	10432.1	11834.0	13796.6
42.5°	13869.1	13973.0	13398.1	11408.7	10143.9	9775.3	9835.1	10597.5	11035.4	12256.1	14467.6
45°	14352.6	14445.6	13817.1	11637.1	10751.9	10723.5	11076.4	11632.4	11796.2	12635.7	14861.4
47.5°	14763.7	14853.5	14108.5	11983.6	11503.2	11856.0	12470.4	12711.3	12446.7	12853.1	15302.4
50°	15110.3	15137.1	14308.5	12396.3	12435.7	13243.7	13839.1	13995.1	13089.4	13165.0	15685.2
52.5°	15471.0	15436.3	14653.5	12916.1	13443.8	14560.6	14993.7	15156.0	13705.3	13549.3	16242.8
55°	16279.0	16312.1	15426.9	13571.4	14462.9	15853.7	16423.9	16268.0	14387.3	14256.6	16951.6
57.5°	17255.6	17227.3	16515.3	14596.8	15500.9	17057.1	17482.4	17232.0	15297.7	15228.4	17669.9
60°	17635.2	17673.0	17425.7	15699.4	16524.8	18110.9	18545.7	18156.6	16389.3	16357.8	18211.7
62.5°	17254.0	17466.7	17633.6	16680.7	17397.4	18885.9	19317.5	18873.3	17528.1	17756.5	18591.3
65°	16494.8	16540.5	17109.1	17512.4	17817.9	19013.5	19238.7	19002.4	18479.5	19030.8	18574.0
67.5°	15508.8	15548.2	16214.4	17784.9	17276.1	17564.3	17721.9	17652.5	18184.9	19467.1	17718.7
70°	14570.0	14538.5	15242.6	17090.2	15039.4	14601.5	14732.2	14514.9	15691.5	18400.7	16041.2
72.5°	12742.9	12856.3	13612.3	15159.1	11908.0	11196.1	11481.2	10918.8	12068.7	15759.2	13020.1
75°	9981.6	10008.4	11270.1	12722.4	8983.0	7859.9	8245.8	8011.1	9244.5	13146.1	8990.9
77.5°	6911.7	6851.8	8208.0	9717.0	6406.1	5754.0	5760.3	5648.4	6454.9	9679.2	6108.4
80°	4389.9	4298.5	5138.1	6002.8	4402.5	4709.7	4555.3	4550.6	4202.5	5971.3	3693.7
82.5°	2372.2	2473.0	3246.4	3763.0	3158.1	3640.1	3336.1	3238.5	2884.1	3737.8	2362.7
85°	1080.5	1175.1	1731.1	2559.6	2398.9	2425.7	1620.8	1912.2	2386.3	3035.3	1261.7
87.5°	105.5	135.5	357.6	1208.1	819.1	645.8	241.0	464.7	600.1	1079.0	100.8
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°	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1
2.5°	8156.1	8074.1	7795.3	7565.4	7321.2	7135.4	6892.8	6730.6	6618.7	6450.2	6429.7
5°	7781.2	7581.1	7096.0	6601.4	6174.5	5853.2	5527.2	5227.9	5051.5	4996.3	4925.5
7.5°	7149.5	6812.5	6188.7	5621.7	5131.8	4653.0	4284.4	4022.9	3848.1	3745.7	3622.8
10°	6629.7	6239.1	5479.9	4785.3	4382.0	4084.3	3759.8	3479.5	3263.7	3079.4	2978.6
12.5°	6280.1	5839.0	4985.3	4421.4	4109.5	3792.9	3413.3	3098.3	2780.1	2570.6	2480.8
15°	6174.5	5708.3	4832.5	4240.3	3792.9	3378.7	2953.4	2542.3	2227.2	2028.8	1962.6
17.5°	6432.9	5869.0	4830.9	3999.3	3421.2	2926.6	2381.6	1995.7	1672.8	1524.7	1477.5
20°	6914.8	6177.7	4845.1	3761.4	3018.0	2321.8	1732.6	1416.0	1261.7	1198.7	1175.1
22.5°	7587.4	6648.6	4887.6	3526.7	2576.9	1783.1	1297.9	1137.2	1082.1	1071.1	1066.4
25°	8416.0	7231.4	5031.0	3315.7	2205.2	1360.9	1085.3	1012.8	981.3	970.3	968.7
27.5°	9178.3	7984.4	5204.2	3134.5	1846.1	1173.5	981.3	919.9	888.4	886.8	890.0
30°	9866.7	8614.4	5349.2	2931.3	1573.6	1042.7	913.6	852.1	822.2	820.6	830.1
32.5°	10462.1	9132.6	5456.3	2731.3	1422.3	962.4	852.1	786.0	760.8	756.1	760.8
35°	11098.4	9649.3	5407.4	2575.3	1335.7	896.3	806.5	741.9	712.0	697.8	697.8
37.5°	11824.5	10181.7	5324.0	2446.2	1296.3	841.1	767.1	704.1	674.2	660.0	658.4
40°	12616.8	10714.1	5209.0	2331.2	1257.0	808.0	740.3	674.2	637.9	623.8	620.6
42.5°	13316.2	11169.3	5114.5	2255.6	1192.4	814.3	716.7	652.1	606.4	587.5	586.0
45°	13924.2	11627.7	5097.1	2211.5	1138.8	804.9	710.4	634.8	581.2	560.7	557.6
47.5°	14399.9	12104.9	5196.4	2186.3	1080.5	754.5	751.3	623.8	559.2	537.1	534.0
50°	14979.5	12782.2	5423.2	2134.3	1027.0	707.2	793.9	622.2	541.8	513.5	505.6
52.5°	15751.4	13664.3	5730.3	2041.4	949.8	663.1	757.6	622.2	521.4	493.0	483.6
55°	16918.5	14789.0	6031.2	1910.6	841.1	604.9	683.6	603.3	491.4	466.2	459.9
57.5°	17691.9	15611.2	6223.4	1729.5	705.7	562.3	589.1	573.3	461.5	434.7	434.7
60°	17731.3	15831.7	6132.0	1501.1	620.6	522.9	511.9	578.1	434.7	406.4	403.2
62.5°	17277.7	15291.4	5656.3	1296.3	574.9	480.4	463.1	507.2	408.0	379.6	374.9
65°	16568.9	13913.2	4830.9	1198.7	549.7	442.6	417.4	415.8	379.6	352.8	346.5
67.5°	15266.2	12158.5	3969.3	1142.0	537.1	400.1	376.5	368.6	346.5	324.5	321.3
70°	13346.1	10183.3	3183.3	1118.3	530.8	356.0	337.1	327.6	308.7	291.4	289.8
72.5°	10383.3	8260.0	2627.3	1102.6	527.7	315.0	294.6	281.9	270.9	255.2	255.2
75°	7458.3	6076.9	2005.1	993.9	488.3	270.9	248.9	241.0	225.2	212.6	215.8
77.5°	4701.8	4092.2	1320.0	730.9	378.0	217.4	198.5	193.7	181.1	163.8	174.8
80°	3175.5	2877.8	770.2	459.9	237.8	159.1	152.8	151.2	137.0	118.1	119.7
82.5°	2161.1	2120.1	400.1	261.5	137.0	92.9	89.8	92.9	77.2	63.0	63.0
85°	844.3	1153.0	189.0	102.4	44.1	14.2	20.5	22.1	12.6	6.3	7.9
87.5°	15.8	118.1	4.7	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°	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1
2.5°	6398.2	6384.0	6407.7	6306.8	6327.3	6365.1	6384.0	6395.1	6551.0	6514.8	6614.0
5°	4991.6	4977.4	5068.8	5081.4	5128.6	5119.2	5164.9	5175.9	5232.6	5253.1	5391.7
7.5°	3630.7	3692.1	3796.1	3849.6	3930.0	3955.2	3931.5	3989.8	3871.7	3956.7	3981.9
10°	2917.2	2843.1	2799.0	2921.9	2937.6	3054.2	3006.9	2969.1	3038.4	3041.6	3107.7
12.5°	2428.9	2269.8	2164.2	2198.9	2236.7	2287.1	2295.0	2370.6	2421.0	2468.2	2507.6
15°	1904.3	1849.2	1753.1	1705.9	1759.4	1779.9	1828.7	1891.7	1945.3	1959.5	2013.0
17.5°	1461.7	1471.2	1455.4	1427.1	1460.2	1475.9	1479.1	1480.6	1494.8	1485.4	1564.1
20°	1176.6	1209.7	1249.1	1255.4	1266.4	1274.3	1260.1	1206.6	1208.1	1241.2	1266.4
22.5°	1064.8	1071.1	1115.2	1129.4	1164.0	1149.8	1108.9	1083.7	1080.5	1088.4	1101.0
25°	976.6	986.0	1017.5	1039.6	1066.4	1041.2	1011.2	987.6	984.5	992.3	1004.9
27.5°	897.8	912.0	940.4	962.4	987.6	964.0	935.6	915.2	913.6	912.0	919.9
30°	834.8	850.6	871.1	896.3	913.6	893.1	866.3	855.3	853.7	850.6	853.7
32.5°	771.8	797.0	817.5	830.1	847.4	831.7	811.2	804.9	793.9	784.4	779.7
35°	700.9	727.7	759.2	775.0	792.3	776.5	762.4	735.6	716.7	715.1	718.3
37.5°	660.0	671.0	696.2	723.0	740.3	732.4	705.7	678.9	674.2	674.2	677.3
40°	623.8	628.5	639.5	674.2	705.7	682.0	649.0	641.1	641.1	639.5	641.1
42.5°	587.5	592.3	592.3	619.0	669.4	631.6	606.4	606.4	606.4	608.0	612.7
45°	554.4	556.0	554.4	573.3	620.6	589.1	571.8	576.5	579.7	582.8	586.0
47.5°	526.1	527.7	526.1	541.8	565.5	552.9	543.4	549.7	556.0	560.7	563.9
50°	500.9	499.3	502.5	511.9	522.9	526.1	519.8	529.2	532.4	538.7	546.6
52.5°	478.8	477.3	480.4	485.1	500.9	500.9	500.9	508.8	515.1	521.4	532.4
55°	453.6	455.2	459.9	466.2	486.7	483.6	485.1	491.4	497.7	507.2	513.5
57.5°	430.0	433.2	439.5	448.9	469.4	467.8	469.4	472.5	480.4	485.1	491.4
60°	403.2	409.5	417.4	423.7	444.2	442.6	450.5	456.8	461.5	461.5	464.7
62.5°	376.5	385.9	393.8	398.5	420.6	422.1	433.2	437.9	441.0	437.9	442.6
65°	349.7	363.9	367.0	373.3	395.4	396.9	409.5	420.6	417.4	414.3	422.1
67.5°	322.9	340.2	338.7	346.5	368.6	371.7	382.8	401.7	395.4	392.2	398.5
70°	293.0	305.6	307.2	311.9	341.8	337.1	354.4	371.7	367.0	368.6	368.6
72.5°	259.9	270.9	270.9	280.4	311.9	304.0	318.2	337.1	337.1	335.5	335.5
75°	220.5	226.8	233.1	247.3	280.4	270.9	280.4	297.7	300.9	297.7	297.7
77.5°	178.0	187.4	190.6	209.5	233.1	231.5	241.0	248.9	255.2	252.0	252.0
80°	126.0	135.5	148.1	168.5	182.7	187.4	192.2	198.5	201.6	201.6	204.8
82.5°	70.9	85.1	96.1	116.6	122.9	146.5	144.9	149.6	144.9	127.6	141.8
85°	15.8	29.9	42.5	53.6	61.4	85.1	89.8	100.8	83.5	77.2	77.2
87.5°	0.0	0.0	0.0	0.0	0.0	12.6	25.2	34.7	29.9	25.2	25.2
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°	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1	7674.1
2.5°	6697.5	6834.5	6999.9	7285.0	7485.0	7700.8	7918.2	8149.8	8211.2	8274.2
5°	5429.5	5698.8	5845.3	6228.1	6629.7	7140.1	7557.5	8014.3	8204.9	8249.0
7.5°	4112.7	4295.4	4679.7	5067.2	5565.0	6100.5	6740.0	7452.0	7674.1	7767.0
10°	3260.5	3509.4	3846.5	4262.3	4698.6	5275.1	5996.5	6828.2	7143.2	7195.2
12.5°	2775.4	3052.6	3419.6	3859.1	4271.8	4706.5	5434.2	6292.7	6629.7	6741.6
15°	2219.4	2554.9	2978.6	3441.7	3890.6	4366.3	5103.4	6072.1	6461.2	6591.9
17.5°	1743.7	2014.6	2473.0	2975.4	3507.8	4109.5	5034.1	6177.7	6656.5	6777.8
20°	1334.1	1527.9	1913.8	2444.6	3068.4	3855.9	5051.5	6576.2	7149.5	7314.9
22.5°	1153.0	1252.2	1486.9	1992.5	2690.3	3635.4	5122.3	7122.8	7814.2	8089.9
25°	1044.3	1096.3	1228.6	1559.4	2329.6	3421.2	5284.6	7858.4	8743.6	8926.3
27.5°	951.4	989.2	1071.1	1308.9	2002.0	3222.7	5473.6	8674.3	9611.5	9884.0
30°	863.2	913.6	990.8	1162.5	1792.5	3041.6	5711.4	9335.8	10342.3	10595.9
32.5°	795.4	845.8	916.7	1060.1	1614.5	2851.0	5853.2	9917.1	10939.3	11155.1
35°	740.3	782.8	856.9	978.2	1479.1	2706.1	5824.9	10378.6	11517.4	11737.9
37.5°	700.9	737.2	811.2	901.0	1376.7	2554.9	5810.7	10988.1	12221.5	12476.7
40°	664.7	702.5	770.2	850.6	1274.3	2376.9	5818.6	11593.0	12971.2	13226.4
42.5°	636.4	678.9	734.0	836.4	1168.8	2233.5	5818.6	12119.1	13623.4	13869.1
45°	612.7	658.4	712.0	834.8	1085.3	2124.9	5779.2	12571.2	14143.1	14352.6
47.5°	592.3	642.7	719.8	806.5	1064.8	2046.1	5744.5	12933.4	14566.9	14763.7
50°	578.1	637.9	765.5	773.4	1071.1	2022.5	5911.5	13390.2	14940.2	15110.3
52.5°	567.0	639.5	763.9	724.6	1060.1	2038.2	6259.6	14103.8	15458.4	15471.0
55°	545.0	637.9	724.6	669.4	1014.4	2065.0	6706.9	15140.2	16269.6	16279.0
57.5°	522.9	620.6	672.6	622.2	921.5	2065.0	7245.6	16121.5	17247.7	17255.6
60°	500.9	645.8	590.7	581.2	800.2	2027.2	7814.2	16553.1	17554.9	17635.2
62.5°	478.8	650.5	527.7	545.0	712.0	1935.8	8238.0	16075.8	17139.1	17254.0
65°	453.6	524.5	486.7	507.2	666.3	1783.1	8104.1	15201.6	16357.8	16494.8
67.5°	423.7	444.2	442.6	467.8	650.5	1557.8	7398.4	14095.9	15516.7	15508.8
70°	387.5	398.5	403.2	430.0	620.6	1383.0	6165.1	12660.9	14393.6	14570.0
72.5°	349.7	359.1	363.9	387.5	590.7	1283.7	4785.3	10684.1	12467.2	12742.9
75°	308.7	315.0	321.3	341.8	559.2	1137.2	3408.6	8156.1	9548.5	9981.6
77.5°	266.2	266.2	274.1	294.6	471.0	938.8	2287.1	5720.9	6469.1	6911.7
80°	215.8	217.4	214.2	236.3	346.5	642.7	1299.5	3821.3	4304.8	4389.9
82.5°	165.4	160.7	162.2	173.3	258.3	437.9	693.1	2373.7	2419.4	2372.2
85°	104.0	104.0	100.8	113.4	165.4	228.4	378.0	1453.9	1135.7	1080.5
87.5°	42.5	34.7	39.4	45.7	78.8	92.9	148.1	299.3	115.0	105.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)