

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: P319352

Luminaire Tested: **GAN-SA8A-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36589 lumens  
Efficiency: N/A  
Efficacy: 142.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

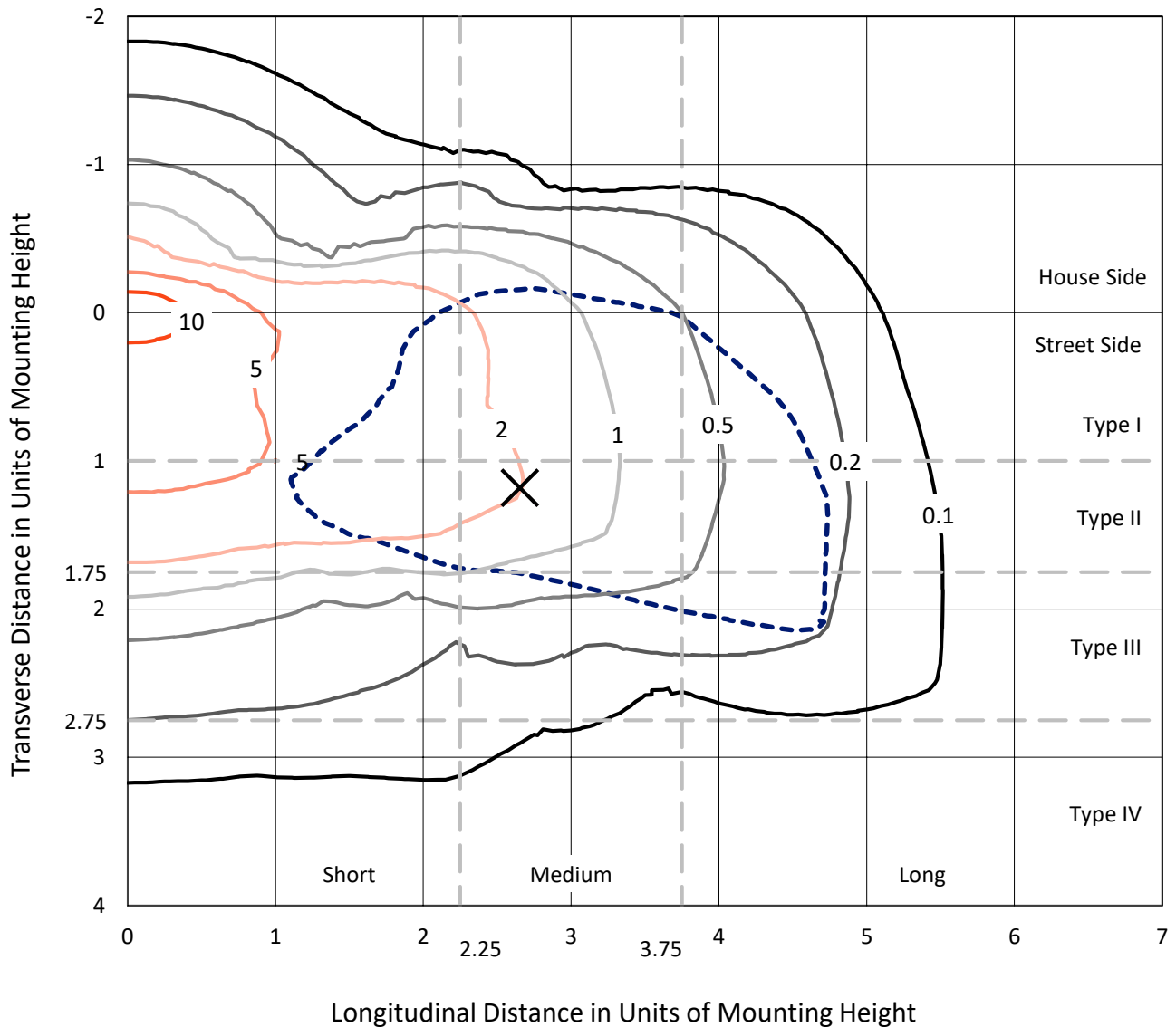
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

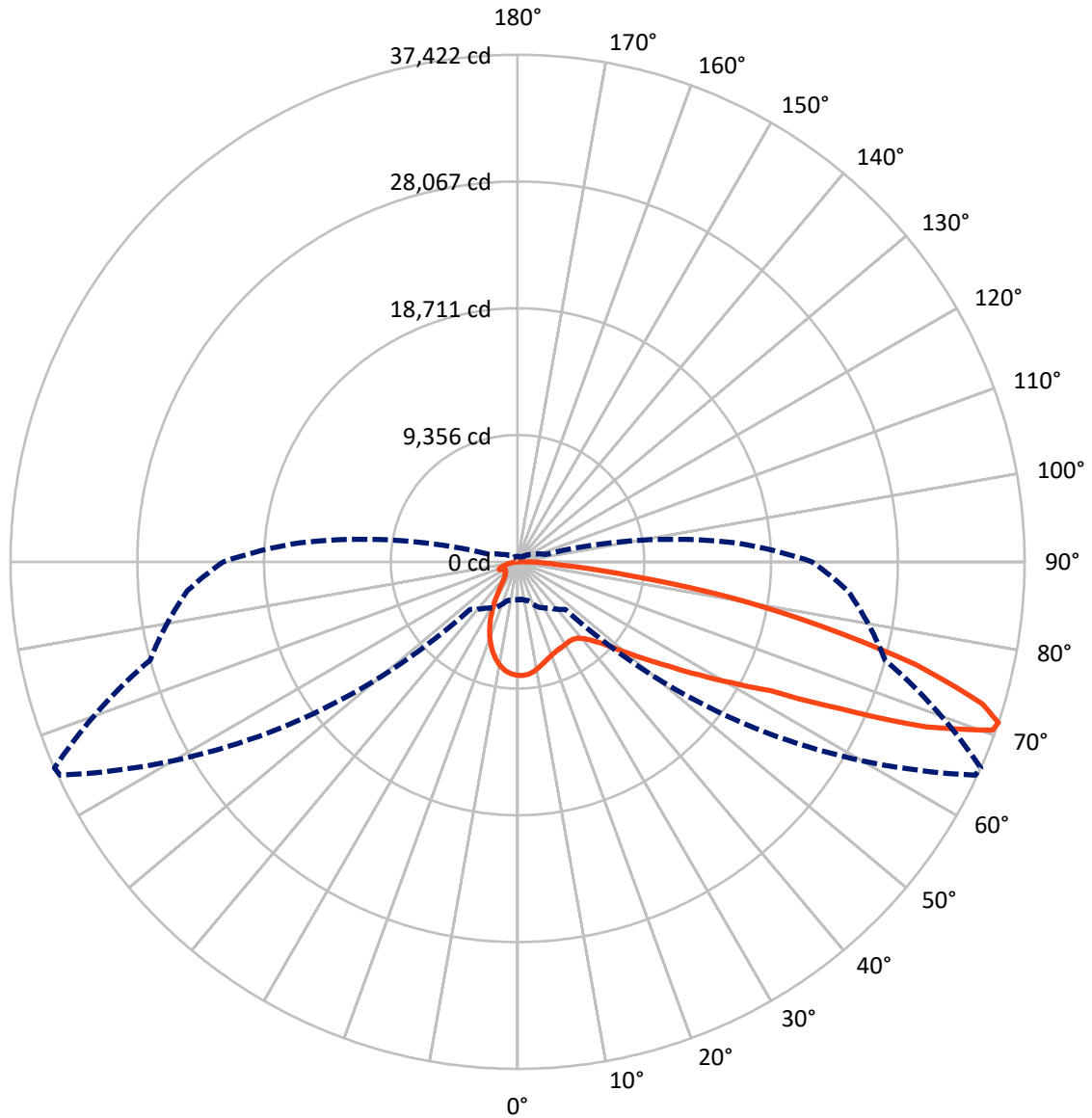
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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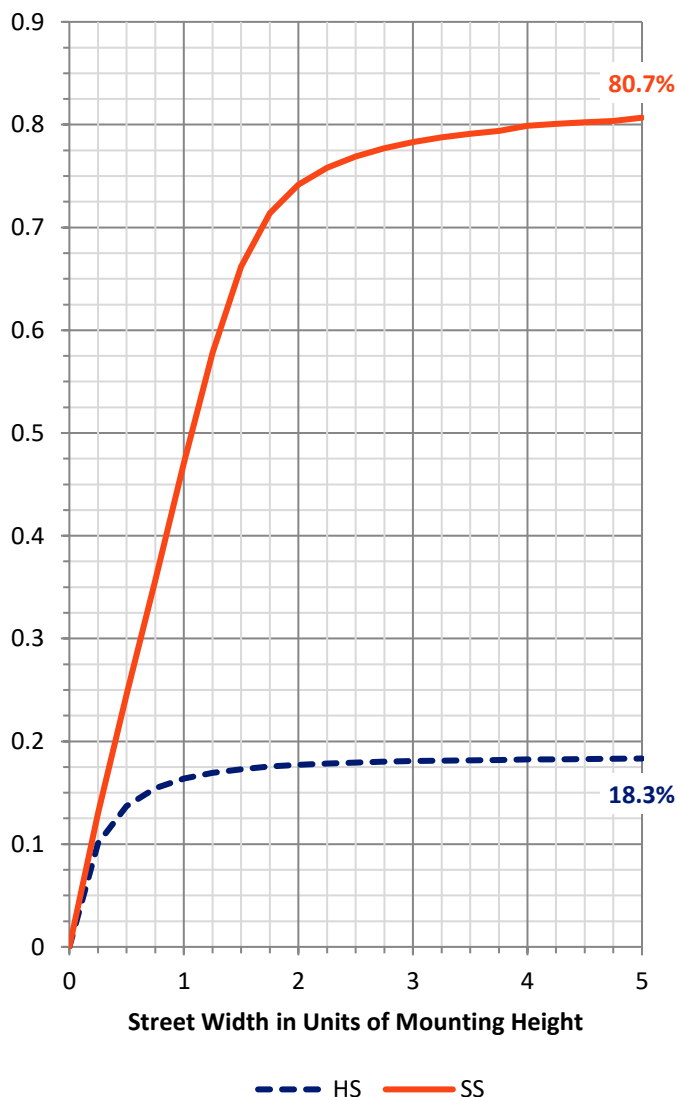
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6781.0	0.0	6781.0
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	29808.0	0.0	29808.0
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	36589.0	0.0	36589.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.8	2.0
10°-20°	1769.6	4.8
20°-30°	2377.0	6.5
30°-40°	3126.9	8.5
40°-50°	4548.8	12.4
50°-60°	7105.7	19.4
60°-70°	8901.0	24.3
70°-80°	6789.5	18.6
80°-90°	1232.9	3.4
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°	36589.0	100.0
0°-180°	36589.0	100.0

**Coefficient of Utilization**



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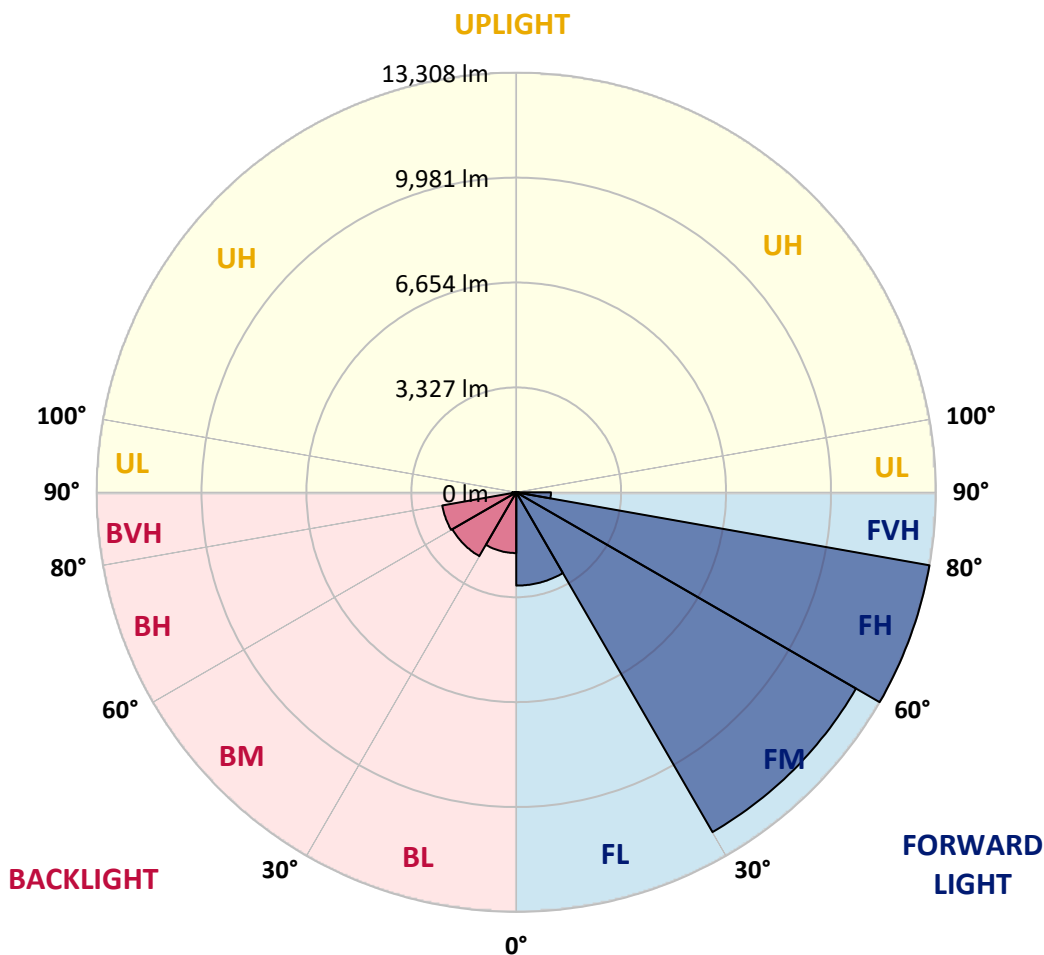
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2958.7	8.1			
FM (30°-60°)	12442.1	34.0			
FH (60°-80°)	13307.8	36.4			G5
FVH (80°-90°)	1099.4	3.0			G5
BL (0°-30°)	1925.6	5.3	B3/2500		
BM (30°-60°)	2339.2	6.4	B2/2500		
BH (60°-80°)	2382.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	133.5	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8
2.5°	8226.4	8213.8	8251.7	8290.9	8306.0	8331.3	8369.2	8390.7	8389.4	8393.2	8380.6
5°	7680.7	7664.3	7740.1	7802.0	7920.7	8054.6	8217.6	8333.8	8336.4	8402.0	8419.7
7.5°	7164.0	7152.7	7239.8	7339.6	7477.3	7682.0	7946.0	8196.1	8211.3	8389.4	8451.3
10°	6749.7	6747.2	6831.8	6940.4	7100.9	7329.5	7632.7	7999.1	8021.8	8328.8	8456.4
12.5°	6426.3	6431.3	6504.6	6628.4	6797.7	7036.4	7364.9	7778.0	7814.6	8232.8	8427.3
15°	6187.5	6207.7	6267.1	6392.2	6558.9	6801.5	7138.8	7573.3	7628.9	8125.4	8410.9
17.5°	6051.1	6073.8	6115.5	6219.1	6375.8	6609.5	6929.1	7405.3	7455.9	8043.3	8412.2
20°	6010.7	6029.6	6053.6	6116.8	6249.4	6461.7	6763.6	7253.7	7308.0	7977.6	8424.8
22.5°	6090.3	6104.1	6106.7	6101.6	6182.5	6355.5	6643.6	7142.6	7200.7	7934.6	8433.6
25°	6260.8	6279.7	6265.8	6219.1	6192.6	6298.7	6581.7	7069.3	7127.4	7903.1	8415.9
27.5°	6517.2	6519.8	6508.4	6447.8	6322.7	6305.0	6562.7	7026.3	7081.9	7866.4	8379.3
30°	6865.9	6882.3	6862.1	6780.0	6575.3	6406.1	6585.5	6984.6	7035.2	7819.7	8319.9
32.5°	7273.9	7314.4	7313.1	7227.2	6934.1	6632.2	6678.9	6959.4	6998.5	7770.4	8247.9
35°	7697.1	7752.7	7856.3	7819.7	7457.1	6989.7	6858.3	6999.8	7026.3	7764.1	8197.4
37.5°	8136.8	8192.3	8405.8	8504.4	8079.9	7501.3	7141.3	7142.6	7155.2	7841.1	8193.6
40°	8596.6	8656.0	8976.8	9233.3	8887.1	8149.4	7597.3	7440.7	7426.8	8030.6	8268.1
42.5°	9240.9	9293.9	9679.2	10006.4	9782.8	8979.4	8227.7	7900.5	7871.5	8402.0	8506.9
45°	10055.7	10101.1	10510.5	10860.4	10745.4	9926.8	9019.8	8533.4	8528.4	9021.0	8990.7
47.5°	11024.6	11060.0	11427.6	11766.1	11807.8	11017.0	10015.2	9509.9	9427.8	9870.0	9739.9
50°	12034.0	12073.1	12323.3	12687.1	12996.6	12476.1	11296.2	10706.3	10596.4	10990.5	10801.0
52.5°	12702.2	12754.0	12971.3	13432.4	14333.1	14075.4	12810.9	12156.5	11989.7	12348.5	12203.2
55°	12404.1	12520.3	12852.6	13591.6	15401.9	16518.6	14679.3	13848.0	13659.8	13957.9	13872.0
57.5°	11048.6	11207.8	11661.3	12802.0	15552.2	18671.2	17503.9	15840.2	15707.6	15621.7	15660.8
60°	8571.3	8724.2	9286.3	10773.2	14504.9	20242.7	21754.9	18296.0	18104.0	17291.7	17327.1
62.5°	6066.2	5989.2	6374.5	7462.2	11786.4	20427.2	26591.9	21580.5	20948.9	19055.2	18899.9
65°	4626.1	4608.4	4781.5	5127.6	7138.8	18220.2	29473.5	27101.0	26114.4	21129.5	20763.2
67.5°	3801.2	3769.6	3940.2	4444.2	4597.1	11754.8	29536.6	33505.9	32536.9	23711.7	22918.3
70°	3125.3	3090.0	3249.1	3899.7	4248.4	5961.4	24858.7	37256.5	37204.7	26981.0	24545.4
71°	2801.9	2776.7	2967.4	3690.0	4173.9	4968.5	21463.0	37266.6	37422.0	28087.7	24449.4
72.5°	2281.5	2290.3	2492.4	3284.5	4118.3	4387.4	15774.5	35529.6	35858.1	29142.5	23576.5
75°	1515.9	1523.5	1788.8	2526.6	3993.2	4292.6	8669.9	29813.3	30417.1	28510.9	21513.6
77.5°	1018.2	1015.7	1196.3	1733.2	3479.1	4292.6	5083.4	22298.1	22961.3	22685.9	16585.5
80°	701.1	696.1	823.7	1196.3	2633.9	4344.4	3930.0	15626.7	15827.6	12251.2	6740.8
82.5°	429.5	433.3	538.2	845.1	1792.6	3909.8	3710.2	8520.8	8302.2	3436.1	1683.9
85°	246.3	245.1	343.6	572.3	1150.8	3299.7	3618.0	3667.3	3364.1	1034.6	608.9
87.5°	88.4	94.7	184.4	317.1	659.4	2297.9	3069.8	1907.5	1719.3	467.4	275.4
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°	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8	8381.8
2.5°	8371.7	8379.3	8370.5	8319.9	8277.0	8207.5	8168.3	8114.0	8097.6	8090.0	8110.2
5°	8403.3	8405.8	8331.3	8198.7	8049.6	7874.0	7747.7	7592.3	7519.0	7487.4	7507.6
7.5°	8432.4	8421.0	8258.0	8004.1	7728.7	7423.0	7151.4	6902.5	6757.3	6697.9	6702.9
10°	8436.2	8388.1	8126.6	7733.8	7306.8	6858.3	6441.4	6057.4	5814.9	5656.9	5705.0
12.5°	8397.0	8316.1	7933.4	7383.8	6791.4	6179.9	5616.5	5040.5	4694.3	4533.9	4538.9
15°	8366.7	8220.1	7695.9	6972.0	6176.2	5366.4	4597.1	3919.9	3551.1	3386.8	3309.8
17.5°	8341.4	8116.5	7420.5	6508.4	5449.8	4422.7	3498.0	2894.2	2692.0	2644.0	2623.8
20°	8306.0	8006.6	7113.5	5971.5	4622.3	3366.6	2554.3	2256.2	2257.5	2313.1	2320.6
22.5°	8256.8	7881.6	6786.3	5368.9	3734.2	2452.0	2002.3	1916.4	2003.6	2109.7	2128.6
25°	8183.5	7733.8	6422.5	4703.2	2847.4	1884.8	1710.5	1706.7	1812.8	1924.0	1940.4
27.5°	8079.9	7540.5	6018.2	3988.2	2098.3	1601.8	1532.4	1558.9	1637.2	1718.1	1724.4
30°	7940.9	7315.6	5572.3	3234.0	1644.8	1426.2	1418.7	1442.7	1490.7	1547.5	1552.6
32.5°	7788.1	7087.0	5096.1	2503.8	1408.6	1331.5	1339.1	1350.4	1373.2	1395.9	1401.0
35°	7649.1	6853.3	4608.4	1902.5	1296.1	1269.6	1264.5	1262.0	1264.5	1257.0	1258.2
37.5°	7559.4	6660.0	4100.6	1514.7	1231.7	1215.3	1200.1	1181.2	1159.7	1147.1	1149.6
40°	7526.6	6516.0	3586.4	1308.8	1178.6	1167.3	1138.2	1097.8	1072.5	1064.9	1064.9
42.5°	7615.0	6441.4	3090.0	1205.2	1134.4	1115.5	1067.5	1020.7	1001.8	1000.5	999.3
45°	7885.4	6471.8	2617.5	1148.3	1094.0	1057.4	994.2	955.0	942.4	944.9	943.7
47.5°	8370.5	6662.5	2213.3	1110.4	1053.6	1005.6	934.8	903.2	888.1	888.1	889.3
50°	9195.4	7108.5	1891.1	1078.8	1019.5	957.6	891.9	852.7	832.5	831.2	831.2
52.5°	10396.8	7906.8	1690.3	1052.3	981.6	914.6	848.9	799.7	775.7	770.6	768.1
55°	11902.6	9051.4	1634.7	1034.6	931.0	867.9	797.1	747.9	721.3	710.0	708.7
57.5°	13586.5	10443.5	1744.6	1013.1	879.2	812.3	740.3	693.5	665.7	651.9	650.6
60°	15290.7	11963.2	2193.0	982.8	836.3	751.6	682.2	639.2	611.4	596.3	593.7
62.5°	16997.4	13565.1	3108.9	980.3	806.0	693.5	622.8	586.2	559.6	543.2	539.4
65°	18922.6	15318.5	4149.9	1047.3	795.9	640.5	562.2	533.1	510.4	495.2	493.9
67.5°	21133.3	17298.0	4050.1	1185.0	830.0	592.5	505.3	482.6	466.1	453.5	452.3
70°	22170.5	16988.5	2517.7	1282.2	878.0	545.7	451.0	434.6	421.9	413.1	409.3
71°	21735.9	16130.8	2110.9	1270.9	872.9	525.5	429.5	416.9	404.2	396.7	392.9
72.5°	20551.0	14710.8	1761.0	1182.4	816.1	488.9	401.7	389.1	377.7	368.9	366.3
75°	18441.3	13138.1	1409.8	944.9	650.6	413.1	352.5	338.6	329.7	324.7	319.6
77.5°	13556.2	9376.0	1090.2	746.6	478.8	337.3	300.7	290.6	281.7	274.1	270.3
80°	5193.3	3631.9	734.0	557.1	351.2	266.6	242.5	237.5	228.7	223.6	223.6
82.5°	1398.4	1085.2	391.6	337.3	235.0	194.5	185.7	183.2	175.6	165.5	166.8
85°	565.9	478.8	219.8	185.7	144.0	115.0	125.1	126.3	117.5	104.9	106.1
87.5°	248.9	203.4	122.5	82.1	63.2	44.2	56.8	56.8	51.8	43.0	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)