

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: P319322

Luminaire Tested: **GAN-SA8B-730-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319322  
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-SA8B-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 800mA 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: 40860 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

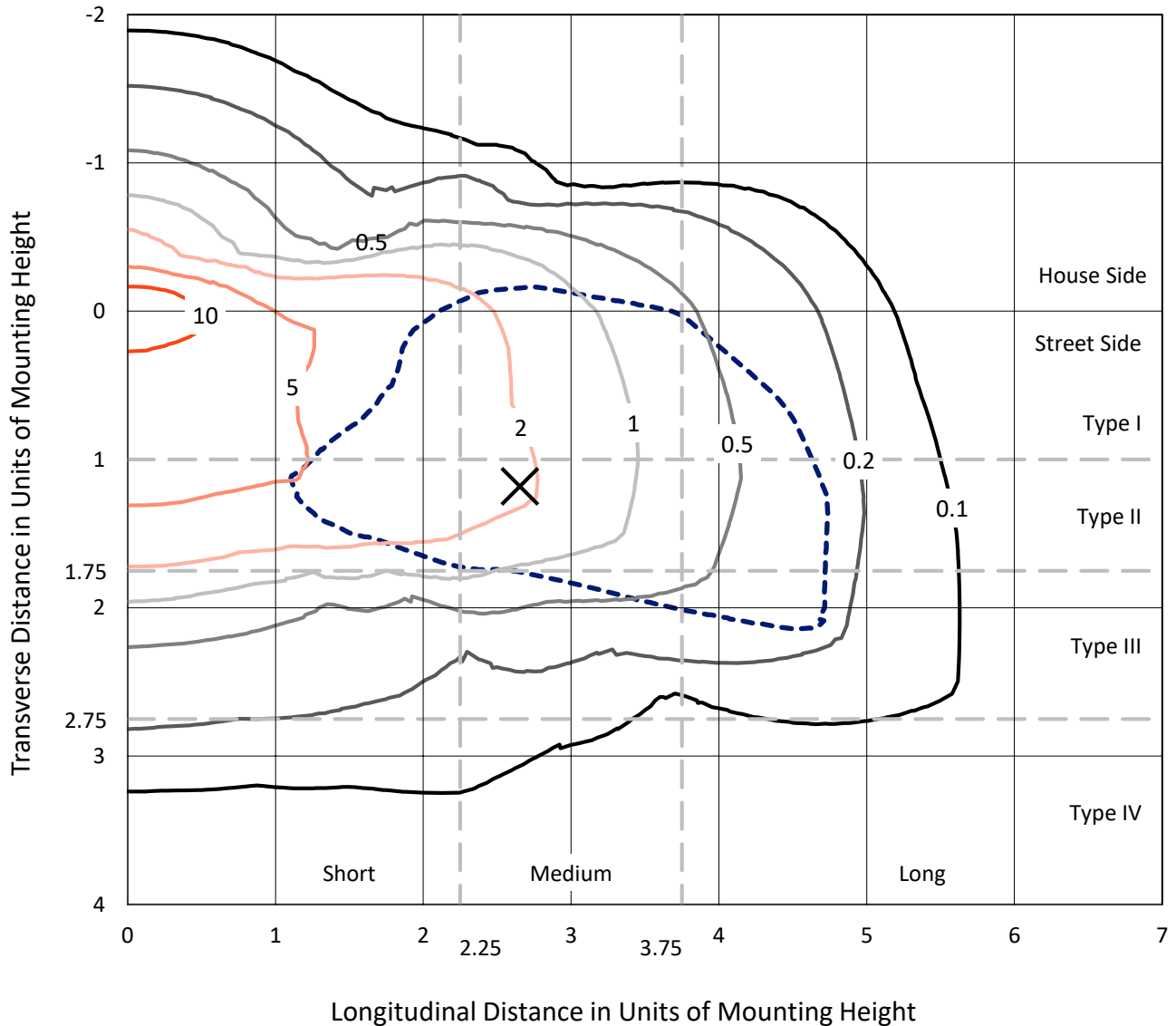
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

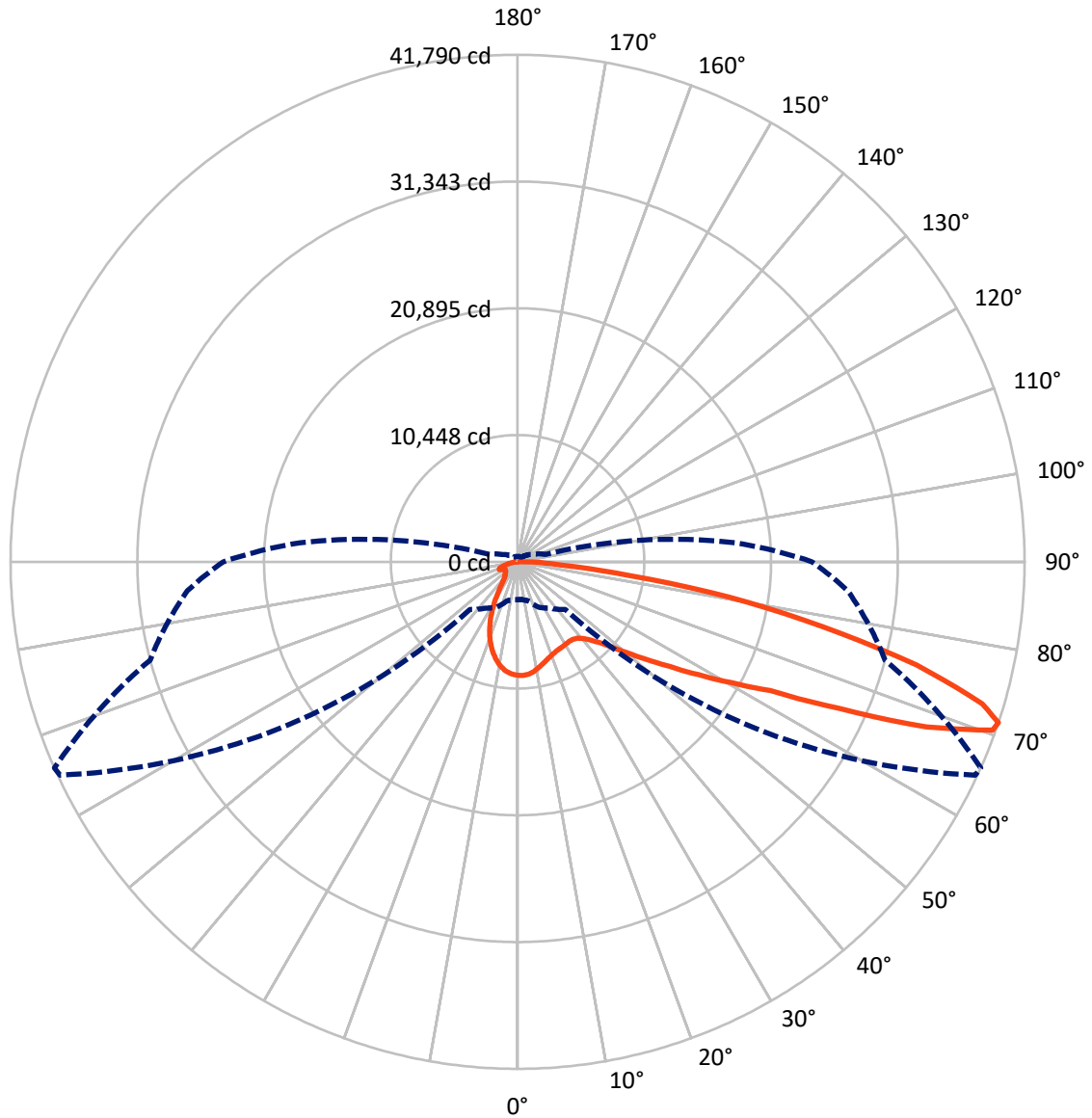
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 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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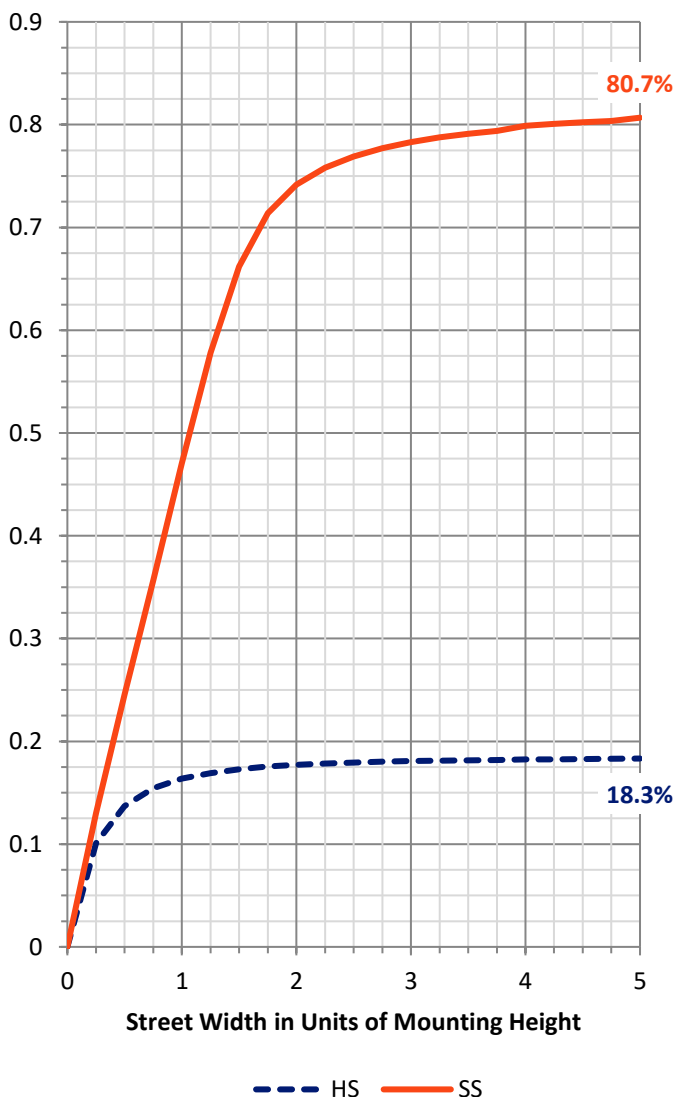
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7572.5	0.0	7572.5
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	33287.5	0.0	33287.5
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	40860.0	0.0	40860.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	823.9	2.0
10°-20°	1976.1	4.8
20°-30°	2654.4	6.5
30°-40°	3491.9	8.5
40°-50°	5079.7	12.4
50°-60°	7935.1	19.4
60°-70°	9940.0	24.3
70°-80°	7582.0	18.6
80°-90°	1376.8	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°	40860.0	100.0
0°-180°	40860.0	100.0

**Coefficient of Utilization**



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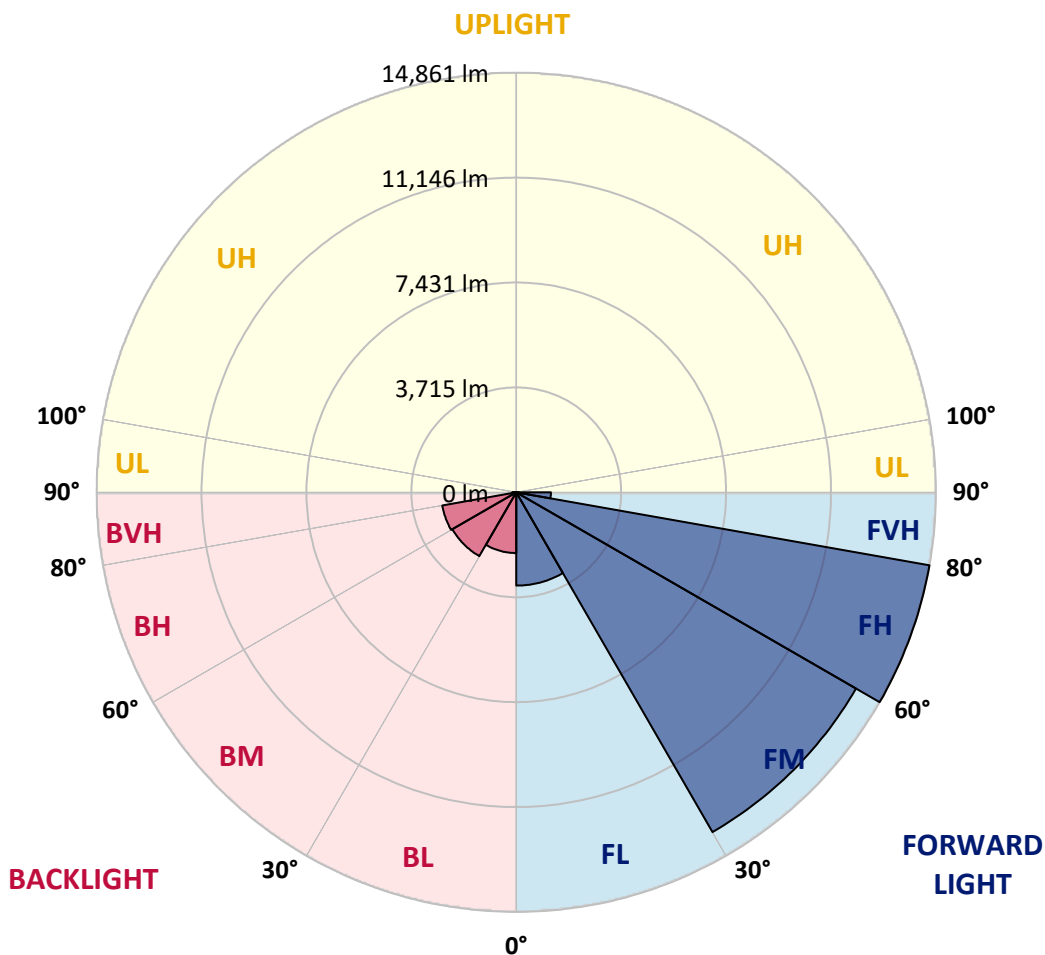
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3304.1	8.1			
FM (30°-60°)	13894.4	34.0			
FH (60°-80°)	14861.2	36.4			G5
FVH (80°-90°)	1227.8	3.0			G5
BL (0°-30°)	2150.4	5.3	B3/2500		
BM (30°-60°)	2612.3	6.4	B3/5000		
BH (60°-80°)	2660.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	149.0	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2
2.5°	9186.7	9172.6	9214.9	9258.7	9275.6	9303.8	9346.1	9370.1	9368.7	9372.9	9358.8
5°	8577.3	8558.9	8643.6	8712.7	8845.3	8994.9	9176.8	9306.6	9309.4	9382.8	9402.6
7.5°	8000.3	7987.6	8084.9	8196.4	8350.1	8578.7	8873.5	9152.9	9169.8	9368.7	9437.8
10°	7537.6	7534.7	7629.3	7750.6	7929.7	8185.1	8523.7	8932.8	8958.2	9301.0	9443.5
12.5°	7176.4	7182.1	7263.9	7402.1	7591.2	7857.8	8224.6	8685.9	8726.8	9193.8	9411.0
15°	6909.8	6932.4	6998.7	7138.3	7324.5	7595.4	7972.1	8457.4	8519.4	9073.9	9392.7
17.5°	6757.4	6782.8	6829.4	6945.1	7120.0	7381.0	7737.9	8269.7	8326.2	8982.2	9394.1
20°	6712.3	6733.4	6760.2	6830.8	6978.9	7215.9	7553.1	8100.4	8161.1	8908.8	9408.2
22.5°	6801.2	6816.7	6819.5	6813.9	6904.1	7097.4	7419.1	7976.3	8041.2	8860.8	9418.1
25°	6991.6	7012.8	6997.3	6945.1	6915.4	7033.9	7349.9	7894.5	7959.4	8825.6	9398.3
27.5°	7278.0	7280.8	7268.1	7200.4	7060.7	7041.0	7328.8	7846.5	7908.6	8784.7	9357.4
30°	7667.4	7685.7	7663.1	7571.4	7342.9	7153.8	7354.2	7800.0	7856.4	8732.5	9291.1
32.5°	8123.0	8168.2	8166.8	8070.8	7743.5	7406.4	7458.6	7771.7	7815.5	8677.4	9210.7
35°	8595.6	8657.7	8773.4	8732.5	8327.6	7805.6	7658.9	7816.9	7846.5	8670.4	9154.3
37.5°	9086.6	9148.6	9387.0	9497.1	9023.1	8377.0	7974.9	7976.3	7990.4	8756.4	9150.0
40°	9600.1	9666.4	10024.7	10311.1	9924.5	9100.7	8484.2	8309.2	8293.7	8968.1	9233.3
42.5°	10319.5	10378.8	10809.1	11174.4	10924.7	10027.5	9188.1	8822.7	8790.3	9382.8	9499.9
45°	11229.5	11280.2	11737.3	12128.1	11999.7	11085.6	10072.7	9529.5	9523.9	10074.1	10040.2
47.5°	12311.5	12351.0	12761.5	13139.6	13186.2	12303.0	11184.3	10620.0	10528.3	11022.1	10876.8
50°	13438.7	13482.4	13761.7	14168.0	14513.7	13932.4	12614.8	11956.0	11833.3	12273.4	12061.8
52.5°	14185.0	14242.8	14485.4	15000.4	16006.2	15718.4	14306.3	13575.5	13389.3	13789.9	13627.7
55°	13852.0	13981.8	14352.8	15178.1	17199.7	18446.8	16392.8	15464.5	15254.3	15587.2	15491.3
57.5°	12338.3	12516.1	13022.5	14296.4	17367.6	20850.7	19547.2	17689.2	17541.1	17445.2	17488.9
60°	9571.8	9742.5	10370.3	12030.8	16198.1	22605.6	24294.3	20431.7	20217.3	19310.2	19349.7
62.5°	6774.4	6688.3	7118.6	8333.2	13162.2	22811.6	29696.0	24099.6	23394.2	21279.5	21106.0
65°	5166.1	5146.4	5339.6	5726.2	7972.1	20347.0	32913.9	30264.5	29162.7	23596.0	23186.9
67.5°	4244.9	4209.6	4400.1	4963.0	5133.7	13126.9	32984.4	37417.0	36334.9	26479.5	25593.6
70°	3490.2	3450.7	3628.4	4354.9	4744.3	6657.3	27760.5	41605.4	41547.6	30130.5	27410.6
71°	3129.0	3100.8	3313.8	4120.8	4661.1	5548.4	23968.4	41616.7	41790.2	31366.3	27303.4
72.5°	2547.8	2557.7	2783.4	3667.9	4599.0	4899.5	17615.9	39677.0	40043.7	32544.3	26328.6
75°	1692.9	1701.3	1997.6	2821.5	4459.3	4793.7	9681.9	33293.4	33967.7	31838.9	24024.8
77.5°	1137.1	1134.2	1336.0	1935.5	3885.2	4793.7	5676.8	24900.9	25641.5	25334.0	18521.6
80°	783.0	777.3	919.8	1336.0	2941.4	4851.5	4388.8	17450.8	17675.1	13681.3	7527.7
82.5°	479.7	483.9	601.0	943.8	2001.8	4366.2	4143.3	9515.4	9271.4	3837.2	1880.5
85°	275.1	273.7	383.7	639.1	1285.2	3684.8	4040.3	4095.4	3756.8	1155.4	680.0
87.5°	98.8	105.8	206.0	354.1	736.4	2566.1	3428.1	2130.2	1920.0	522.0	307.5
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°	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2	9360.2
2.5°	9348.9	9357.4	9347.5	9291.1	9243.1	9165.6	9121.8	9061.2	9042.8	9034.4	9056.9
5°	9384.2	9387.0	9303.8	9155.7	8989.2	8793.1	8652.0	8478.5	8396.7	8361.4	8384.0
7.5°	9416.7	9404.0	9222.0	8938.4	8630.9	8289.5	7986.2	7708.3	7546.0	7479.7	7485.4
10°	9420.9	9367.3	9075.3	8636.5	8159.7	7658.9	7193.3	6764.5	6493.6	6317.3	6370.9
12.5°	9377.2	9286.9	8859.4	8245.8	7584.1	6901.3	6272.1	5628.8	5242.3	5063.1	5068.8
15°	9343.3	9179.7	8594.2	7785.9	6897.1	5992.8	5133.7	4377.5	3965.6	3782.2	3696.1
17.5°	9315.1	9064.0	8286.7	7268.1	6085.9	4939.0	3906.3	3232.0	3006.3	2952.7	2930.1
20°	9275.6	8941.2	7943.9	6668.6	5161.9	3759.6	2852.5	2519.6	2521.0	2583.1	2591.5
22.5°	9220.6	8801.6	7578.5	5995.6	4170.1	2738.2	2236.0	2140.1	2237.4	2355.9	2377.1
25°	9138.7	8636.5	7172.2	5252.2	3179.8	2104.8	1910.1	1905.9	2024.4	2148.6	2166.9
27.5°	9023.1	8420.7	6720.7	4453.7	2343.2	1788.8	1711.2	1740.8	1828.3	1918.6	1925.7
30°	8867.9	8169.6	6222.8	3611.5	1836.8	1592.7	1584.3	1611.1	1664.7	1728.2	1733.8
32.5°	8697.2	7914.2	5690.9	2796.1	1573.0	1486.9	1495.4	1508.1	1533.5	1558.9	1564.5
35°	8542.0	7653.2	5146.4	2124.6	1447.4	1417.8	1412.1	1409.3	1412.1	1403.7	1405.1
37.5°	8441.8	7437.4	4579.2	1691.5	1375.5	1357.1	1340.2	1319.0	1295.1	1280.9	1283.8
40°	8405.2	7276.6	4005.1	1461.5	1316.2	1303.5	1271.1	1225.9	1197.7	1189.3	1189.3
42.5°	8503.9	7193.3	3450.7	1345.8	1266.8	1245.7	1192.1	1139.9	1118.7	1117.3	1115.9
45°	8805.8	7227.2	2923.0	1282.4	1221.7	1180.8	1110.2	1066.5	1052.4	1055.2	1053.8
47.5°	9347.5	7440.2	2471.6	1240.0	1176.6	1122.9	1043.9	1008.7	991.7	991.7	993.2
50°	10268.7	7938.2	2111.9	1204.8	1138.5	1069.3	996.0	952.2	929.7	928.3	928.3
52.5°	11610.4	8829.8	1887.6	1175.1	1096.1	1021.4	948.0	893.0	866.2	860.5	857.7
55°	13292.0	10107.9	1825.5	1155.4	1039.7	969.2	890.2	835.2	805.5	792.8	791.4
57.5°	15172.5	11662.6	1948.2	1131.4	981.9	907.1	826.7	774.5	743.5	727.9	726.5
60°	17075.6	13359.7	2449.0	1097.6	933.9	839.4	761.8	713.8	682.8	665.9	663.0
62.5°	18981.5	15148.5	3471.8	1094.7	900.0	774.5	695.5	654.6	625.0	606.6	602.4
65°	21131.4	17106.6	4634.3	1169.5	888.8	715.2	627.8	595.3	569.9	553.0	551.6
67.5°	23600.2	19317.2	4522.8	1323.3	926.9	661.6	564.3	538.9	520.6	506.5	505.0
70°	24758.4	18971.6	2811.6	1431.9	980.5	609.4	503.6	485.3	471.2	461.3	457.1
71°	24273.1	18013.7	2357.3	1419.2	974.8	586.9	479.7	465.5	451.4	443.0	438.7
72.5°	22949.9	16428.0	1966.6	1320.4	911.3	546.0	448.6	434.5	421.8	411.9	409.1
75°	20593.9	14671.7	1574.4	1055.2	726.5	461.3	393.6	378.1	368.2	362.6	356.9
77.5°	15138.6	10470.5	1217.5	833.7	534.7	376.7	335.8	324.5	314.6	306.1	301.9
80°	5799.5	4055.9	819.6	622.1	392.2	297.7	270.9	265.2	255.3	249.7	249.7
82.5°	1561.7	1211.8	437.3	376.7	262.4	217.3	207.4	204.6	196.1	184.8	186.2
85°	632.0	534.7	245.5	207.4	160.8	128.4	139.7	141.1	131.2	117.1	118.5
87.5°	277.9	227.1	136.8	91.7	70.5	49.4	63.5	63.5	57.8	48.0	43.7
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)