

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: P319384

Luminaire Tested: **GAN-SA0D-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319384  
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-SA0D-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 4000K, 1200mA 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: 75235 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

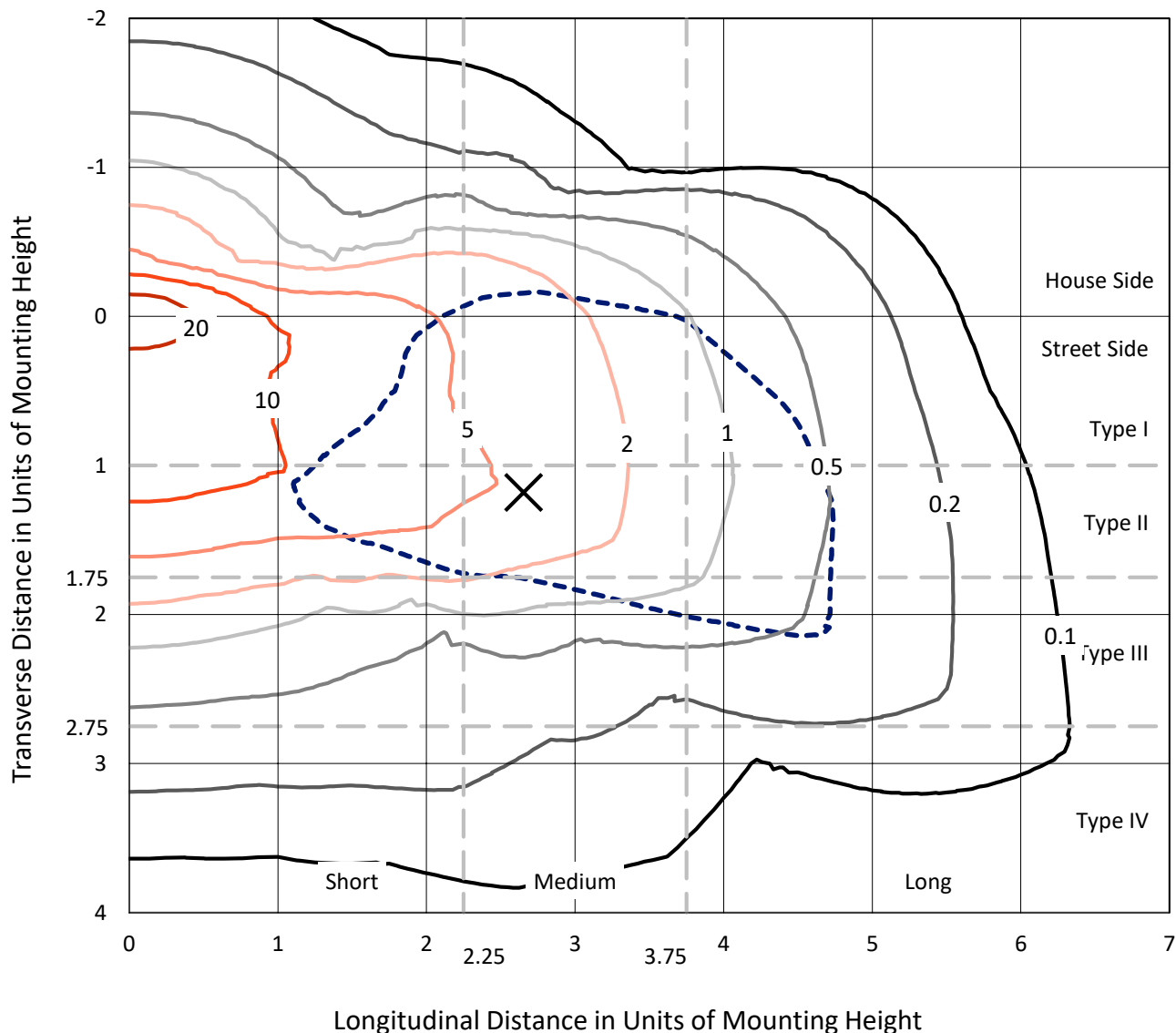
Input Watts (W): 640  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

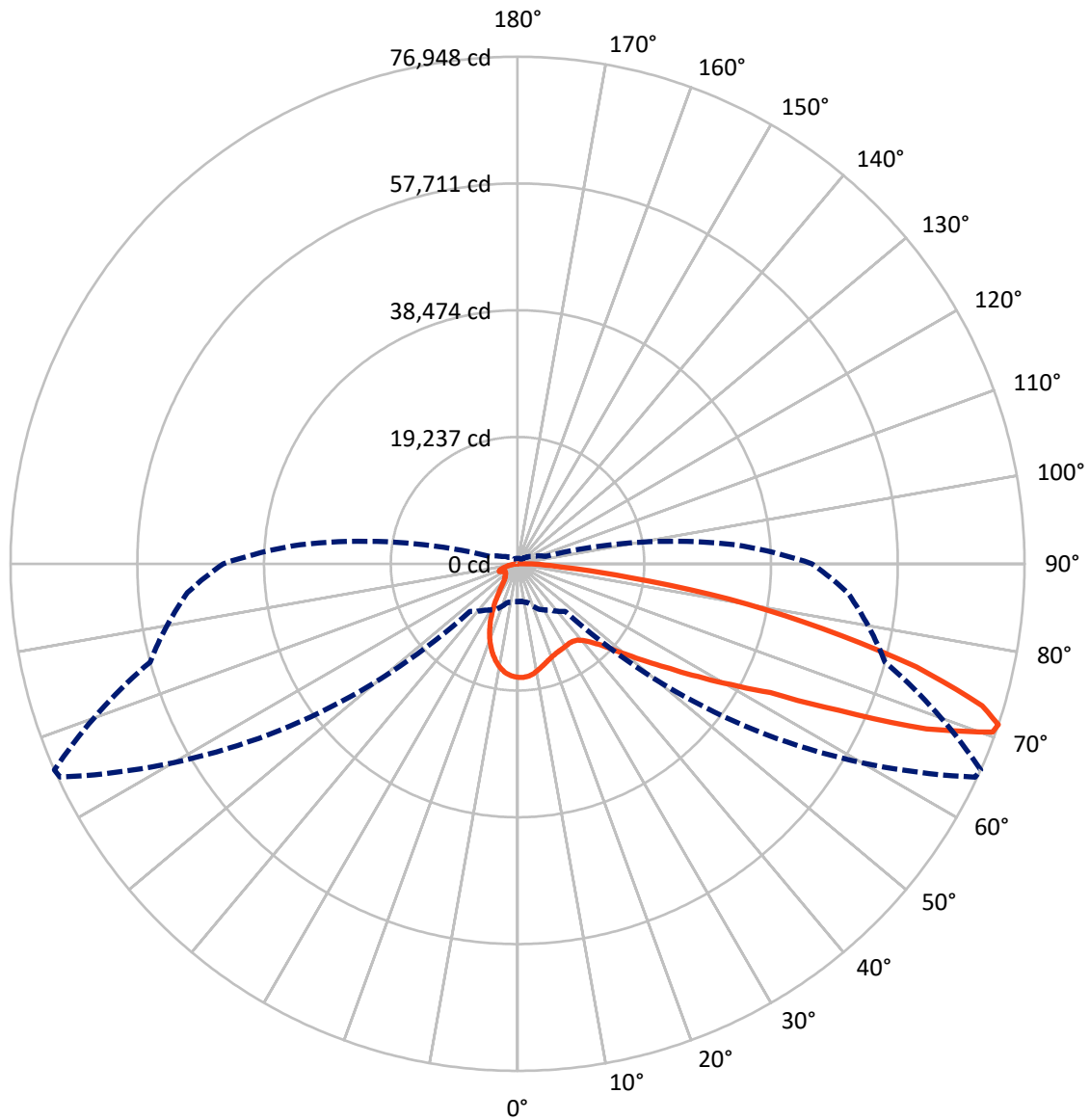
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.6 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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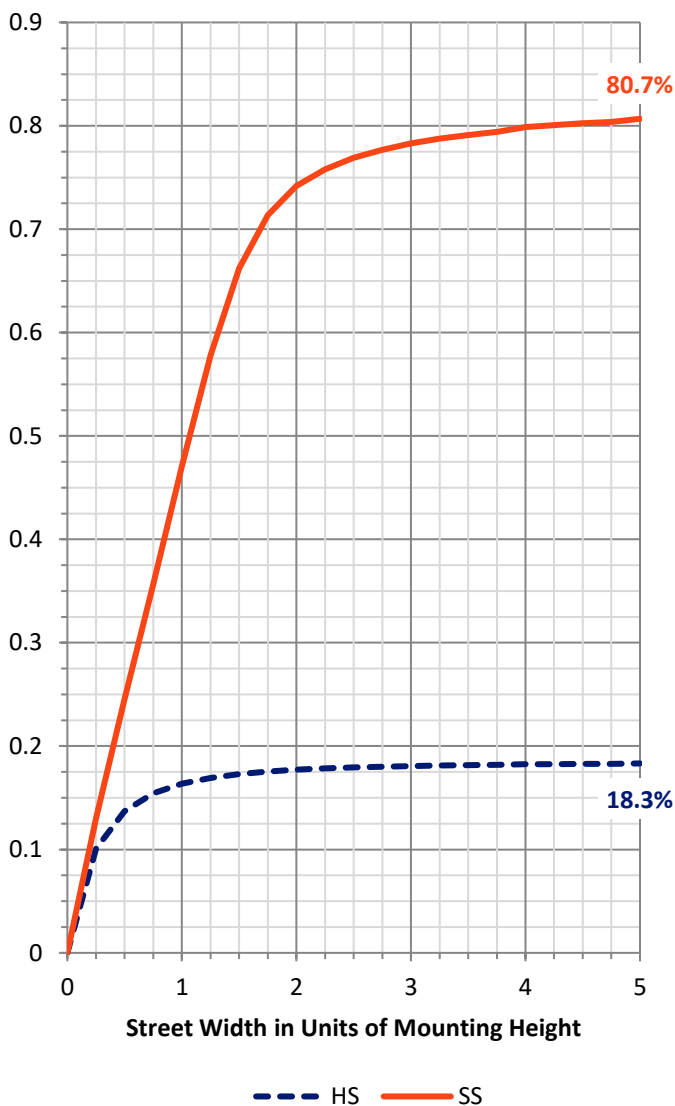
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13943.1	0.0	13943.1
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	61291.9	0.0	61291.9
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	75235.0	0.0	75235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1517.1	2.0
10°-20°	3638.6	4.8
20°-30°	4887.6	6.5
30°-40°	6429.5	8.5
40°-50°	9353.3	12.4
50°-60°	14610.8	19.4
60°-70°	18302.4	24.3
70°-80°	13960.6	18.6
80°-90°	2535.1	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°	75235.0	100.0
0°-180°	75235.0	100.0

**Coefficient of Utilization**



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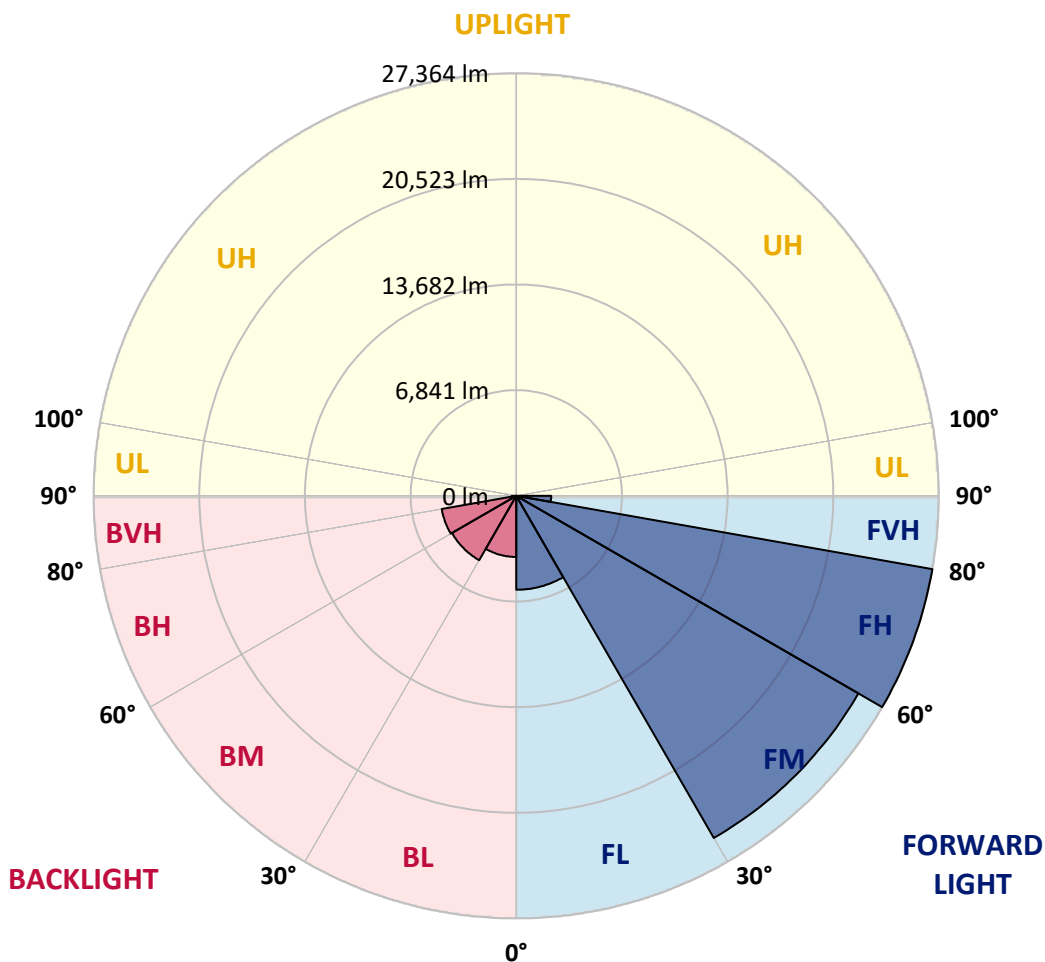
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6083.8	8.1			
FM (30°-60°)	25583.7	34.0			
FH (60°-80°)	27363.8	36.4			G5
FVH (80°-90°)	2260.7	3.0			G5
BL (0°-30°)	3959.5	5.3	B4/5000		
BM (30°-60°)	4809.9	6.4	B3/5000		
BH (60°-80°)	4899.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	274.4	0.4			G3/500
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°	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9
2.5°	16915.4	16889.4	16967.3	17047.9	17079.0	17131.0	17208.9	17253.1	17250.5	17258.3	17232.3
5°	15793.2	15759.5	15915.3	16042.6	16286.8	16562.1	16897.2	17136.2	17141.4	17276.4	17312.8
7.5°	14730.8	14707.4	14886.7	15091.9	15375.0	15795.8	16338.7	16853.0	16884.2	17250.5	17377.7
10°	13878.8	13873.6	14047.7	14271.1	14600.9	15071.1	15694.5	16447.8	16494.6	17125.8	17388.1
12.5°	13213.8	13224.2	13374.9	13629.5	13977.5	14468.5	15143.8	15993.2	16068.6	16928.4	17328.4
15°	12722.9	12764.5	12886.5	13143.7	13486.6	13985.3	14678.9	15572.4	15686.7	16707.6	17294.6
17.5°	12442.4	12489.1	12574.8	12787.8	13109.9	13590.5	14247.7	15227.0	15330.9	16538.7	17297.2
20°	12359.2	12398.2	12447.6	12577.4	12850.2	13286.6	13907.4	14915.3	15026.9	16403.7	17323.2
22.5°	12522.9	12551.5	12556.7	12546.3	12712.5	13068.4	13660.6	14686.7	14806.2	16315.3	17341.4
25°	12873.6	12912.5	12884.0	12787.8	12733.3	12951.5	13533.3	14536.0	14655.5	16250.4	17305.0
27.5°	13400.9	13406.1	13382.7	13258.0	13000.8	12964.5	13494.4	14447.7	14562.0	16175.1	17229.7
30°	14117.8	14151.6	14110.0	13941.2	13520.4	13172.3	13541.1	14362.0	14465.9	16079.0	17107.6
32.5°	14956.8	15039.9	15037.3	14860.7	14258.1	13637.2	13733.4	14310.0	14390.5	15977.7	16959.5
35°	15827.0	15941.3	16154.3	16079.0	15333.5	14372.4	14102.2	14393.1	14447.7	15964.7	16855.6
37.5°	16731.0	16845.2	17284.2	17486.8	16614.1	15424.4	14684.1	14686.7	14712.6	16123.1	16847.8
40°	17676.5	17798.6	18458.3	18985.6	18273.9	16756.9	15621.8	15299.7	15271.1	16512.8	17001.1
42.5°	19001.2	19110.3	19902.6	20575.4	20115.6	18463.5	16918.0	16245.2	16185.5	17276.4	17492.0
45°	20676.7	20770.2	21611.8	22331.3	22094.9	20411.7	18546.7	17546.6	17536.2	18549.3	18486.9
47.5°	22669.0	22741.7	23497.6	24193.8	24279.5	22653.4	20593.5	19554.5	19385.7	20294.8	20027.3
50°	24744.5	24825.0	25339.3	26087.4	26723.8	25653.6	23227.5	22014.4	21788.4	22598.9	22209.2
52.5°	26118.6	26225.1	26671.9	27620.0	29472.0	28942.1	26342.0	24996.4	24653.5	25391.3	25092.5
55°	25505.5	25744.5	26427.7	27947.3	31669.6	33965.8	30183.8	28474.6	28087.5	28700.6	28523.9
57.5°	22718.4	23045.6	23978.2	26323.8	31978.7	38392.1	35991.9	32570.9	32298.2	32121.6	32202.1
60°	17624.5	17938.8	19094.7	22152.1	29825.3	41623.5	44732.8	37620.6	37225.8	35555.5	35628.3
62.5°	12473.5	12315.1	13107.3	15343.9	24235.3	42002.7	54678.9	44374.3	43075.5	39181.8	38862.3
65°	9512.3	9475.9	9831.8	10543.5	14678.9	37464.8	60603.9	55725.7	53697.0	43447.0	42693.7
67.5°	7816.1	7751.2	8101.8	9138.3	9452.6	24170.4	60733.8	68895.4	66903.0	48756.4	47125.1
70°	6426.4	6353.7	6681.0	8018.7	8735.6	12257.9	51115.0	76607.6	76501.1	55478.9	50470.8
71°	5761.4	5709.5	6101.7	7587.5	8582.4	10216.2	44132.7	76628.3	76947.8	57754.4	50273.4
72.5°	4691.2	4709.4	5125.0	6753.7	8468.1	9021.4	32435.9	73056.7	73732.0	59923.4	48478.5
75°	3117.1	3132.7	3678.2	5195.1	8210.9	8826.5	17827.1	61302.7	62544.3	58624.6	44236.6
77.5°	2093.6	2088.4	2459.9	3563.9	7153.7	8826.5	10452.6	45849.7	47213.4	46647.2	34103.5
80°	1441.7	1431.3	1693.6	2459.9	5415.9	8933.0	8081.0	32132.0	32545.0	25191.2	13860.6
82.5°	883.2	891.0	1106.6	1737.8	3686.0	8039.5	7629.1	17520.6	17071.2	7065.4	3462.6
85°	506.5	503.9	706.5	1176.7	2366.4	6784.9	7439.4	7540.7	6917.3	2127.4	1252.0
87.5°	181.8	194.8	379.2	652.0	1355.9	4725.0	6312.1	3922.3	3535.3	961.1	566.3
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°	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9	17234.9
2.5°	17214.1	17229.7	17211.5	17107.6	17019.3	16876.4	16795.9	16684.2	16650.4	16634.8	16676.4
5°	17279.0	17284.2	17131.0	16858.2	16551.7	16190.7	15930.9	15611.4	15460.7	15395.8	15437.4
7.5°	17338.8	17315.4	16980.3	16458.2	15891.9	15263.3	14704.8	14193.1	13894.4	13772.3	13782.7
10°	17346.6	17247.9	16710.2	15902.3	15024.3	14102.2	13245.0	12455.4	11956.6	11631.9	11730.6
12.5°	17266.1	17099.8	16312.7	15182.8	13964.5	12707.3	11548.8	10364.3	9652.6	9322.7	9333.1
15°	17203.7	16902.4	15824.4	14336.0	12699.5	11034.5	9452.6	8060.3	7301.8	6964.1	6805.6
17.5°	17151.8	16689.4	15258.1	13382.7	11205.9	9094.1	7192.7	5951.0	5535.4	5436.7	5395.2
20°	17079.0	16463.4	14626.9	12278.7	9504.5	6922.5	5252.3	4639.3	4641.9	4756.2	4771.7
22.5°	16977.7	16206.2	13954.2	11039.7	7678.4	5041.9	4117.1	3940.5	4119.7	4337.9	4376.9
25°	16827.1	15902.3	13206.0	9670.8	5854.9	3875.6	3517.1	3509.3	3727.5	3956.1	3989.9
27.5°	16614.1	15504.9	12374.8	8200.5	4314.6	3293.7	3150.9	3205.4	3366.5	3532.7	3545.7
30°	16328.3	15042.5	11457.9	6649.8	3382.0	2932.7	2917.1	2966.4	3065.1	3182.0	3192.4
32.5°	16014.0	14572.4	10478.6	5148.4	2896.3	2737.8	2753.4	2776.8	2823.6	2870.3	2880.7
35°	15728.3	14091.8	9475.9	3911.9	2665.1	2610.6	2600.2	2595.0	2600.2	2584.6	2587.2
37.5°	15543.9	13694.4	8431.7	3114.5	2532.6	2498.9	2467.7	2428.7	2384.6	2358.6	2363.8
40°	15476.3	13398.3	7374.5	2691.1	2423.5	2400.2	2340.4	2257.3	2205.3	2189.8	2189.8
42.5°	15658.2	13245.0	6353.7	2478.1	2332.6	2293.7	2194.9	2098.8	2059.9	2057.3	2054.7
45°	16214.0	13307.4	5382.2	2361.2	2249.5	2174.2	2044.3	1963.8	1937.8	1943.0	1940.4
47.5°	17211.5	13699.6	4550.9	2283.3	2166.4	2067.7	1922.2	1857.3	1826.1	1826.1	1828.7
50°	18907.7	14616.5	3888.6	2218.3	2096.2	1969.0	1833.9	1753.4	1711.8	1709.2	1709.2
52.5°	21378.0	16258.2	3475.5	2163.8	2018.3	1880.6	1745.6	1644.3	1594.9	1584.5	1579.3
55°	24474.3	18611.6	3361.3	2127.4	1914.4	1784.5	1639.1	1537.8	1483.2	1459.8	1457.2
57.5°	27936.9	21474.1	3587.2	2083.3	1807.9	1670.2	1522.2	1426.1	1368.9	1340.3	1337.7
60°	31441.0	24599.0	4509.4	2020.9	1719.6	1545.6	1402.7	1314.4	1257.2	1226.1	1220.9
62.5°	34950.3	27892.7	6392.6	2015.7	1657.3	1426.1	1280.6	1205.3	1150.7	1117.0	1109.2
65°	38909.0	31498.1	8533.0	2153.4	1636.5	1317.0	1155.9	1096.2	1049.4	1018.2	1015.7
67.5°	43454.8	35568.5	8327.8	2436.5	1706.6	1218.3	1039.0	992.3	958.5	932.5	929.9
70°	45587.4	34932.1	5177.0	2636.5	1805.3	1122.2	927.3	893.6	867.6	849.4	841.6
71°	44693.8	33168.4	4340.5	2613.2	1794.9	1080.6	883.2	857.2	831.2	815.6	807.8
72.5°	42257.3	30248.7	3621.0	2431.3	1678.0	1005.3	826.0	800.1	776.7	758.5	753.3
75°	37919.3	27014.7	2898.9	1943.0	1337.7	849.4	724.7	696.1	678.0	667.6	657.2
77.5°	27874.5	19279.2	2241.7	1535.2	984.5	693.6	618.2	597.4	579.3	563.7	555.9
80°	10678.6	7468.0	1509.2	1145.5	722.1	548.1	498.7	488.3	470.2	459.8	459.8
82.5°	2875.5	2231.3	805.2	693.6	483.1	400.0	381.8	376.6	361.1	340.3	342.9
85°	1163.7	984.5	452.0	381.8	296.1	236.4	257.2	259.8	241.6	215.6	218.2
87.5°	511.7	418.2	252.0	168.8	129.9	90.9	116.9	116.9	106.5	88.3	80.5
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)