

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: P320011

Luminaire Tested: **GAN-SA7C-740-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7C-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47538 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

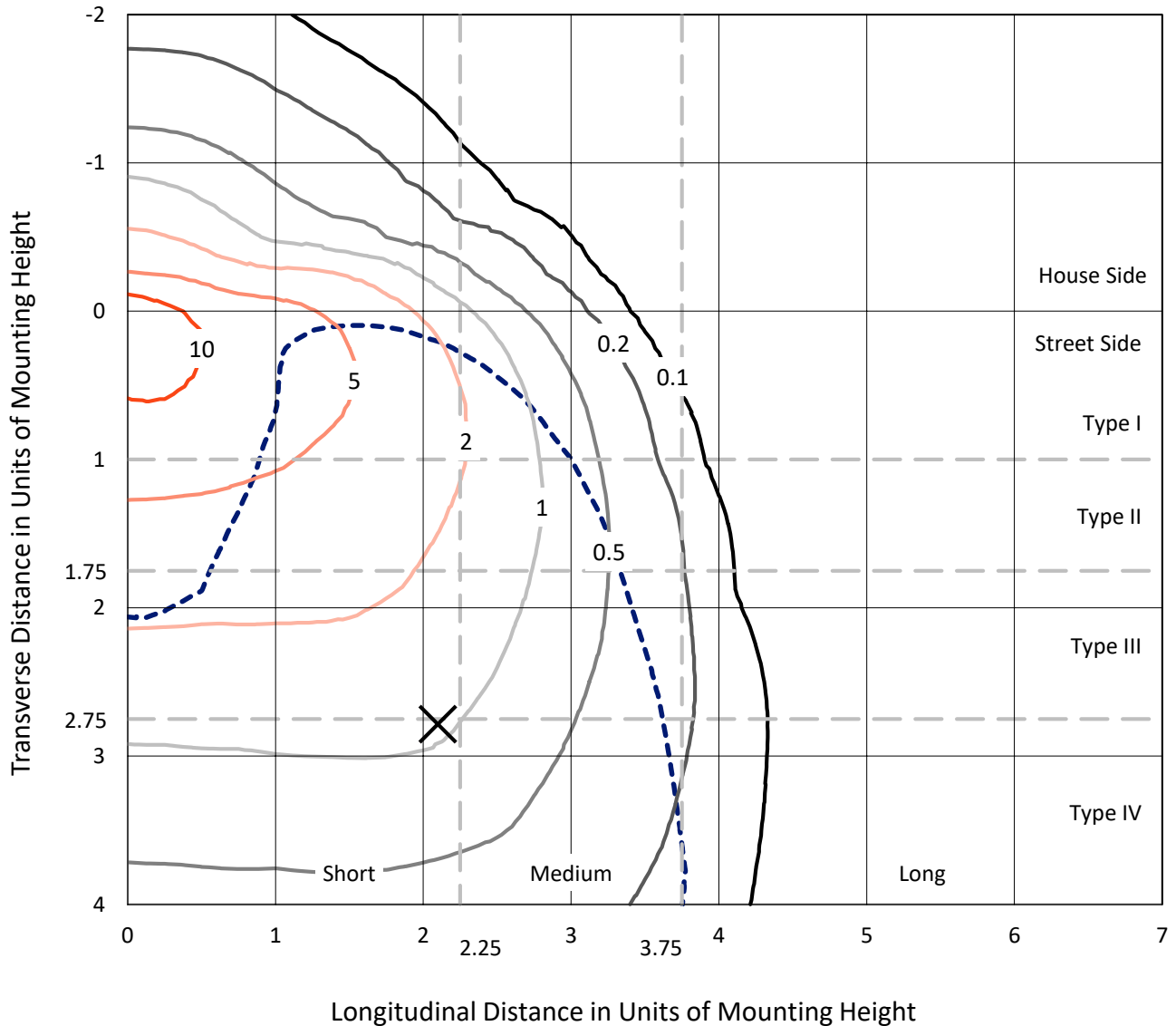
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

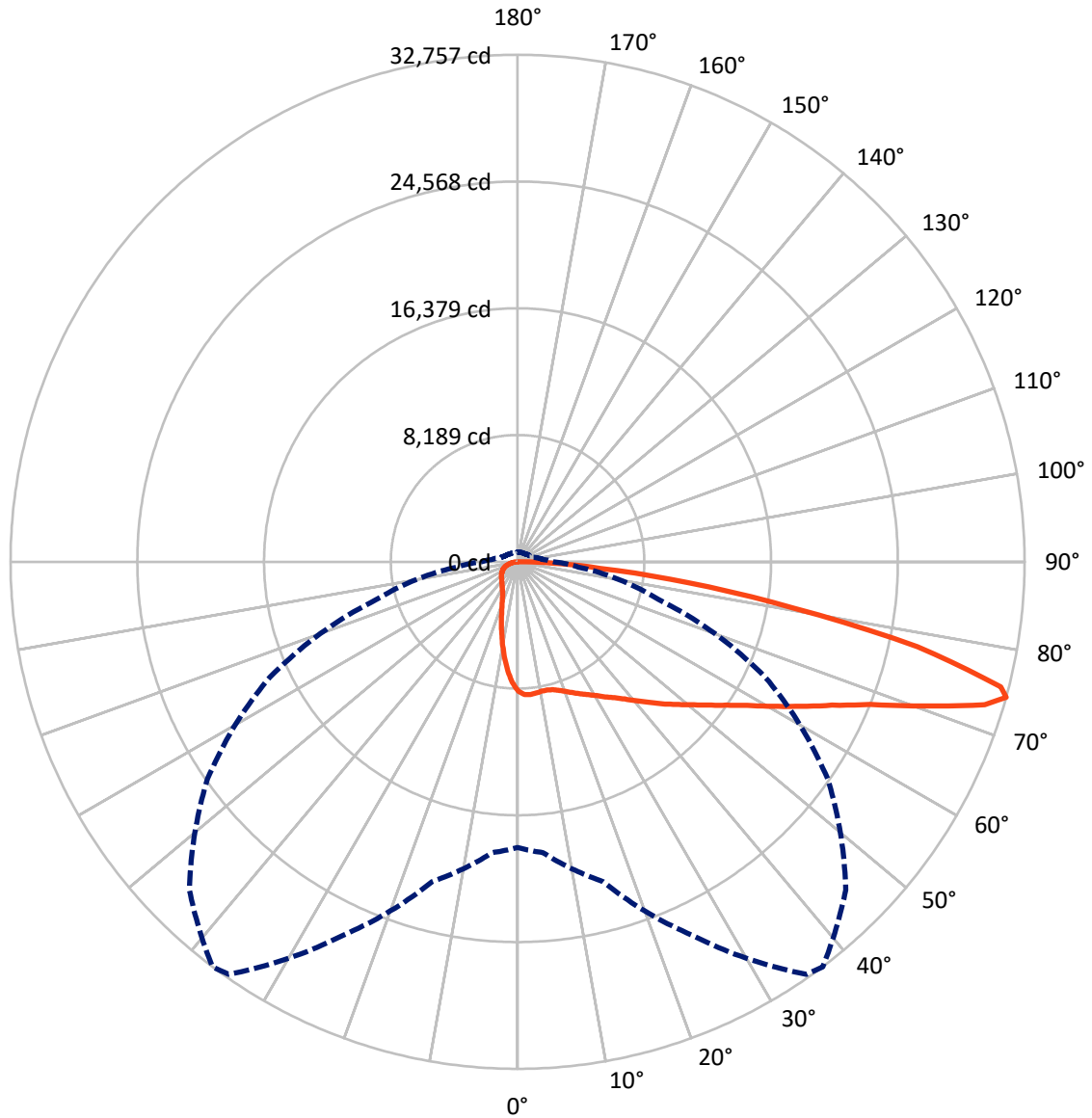
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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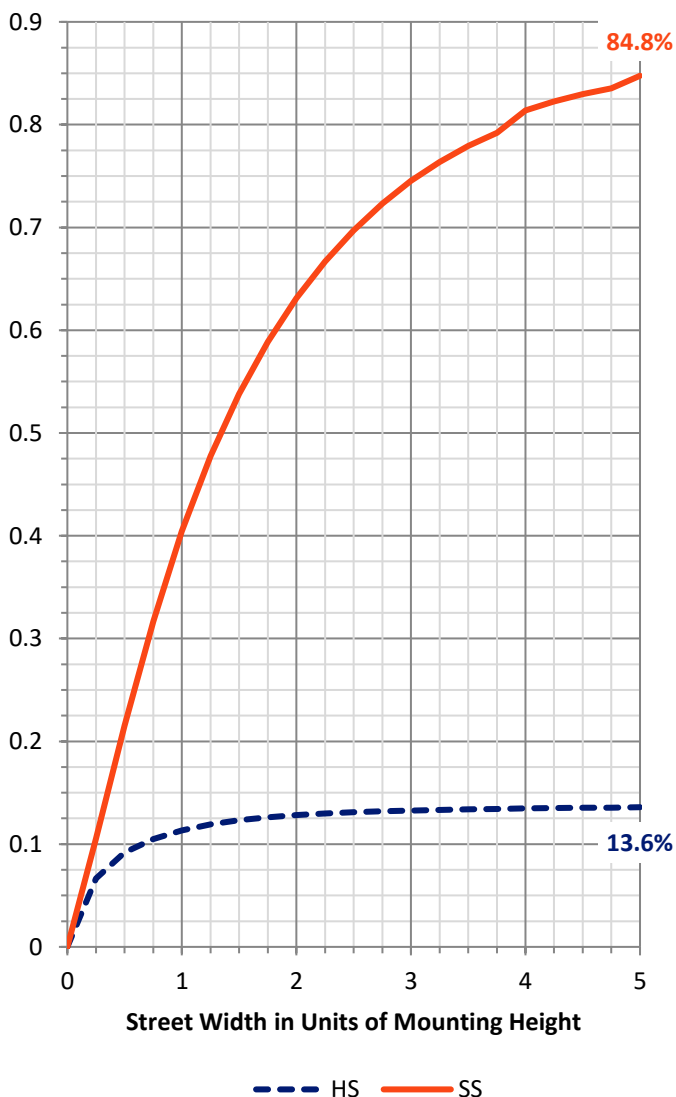
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6540.9	0.0	6540.9
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	40997.1	0.0	40997.1
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	47538.0	0.0	47538.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	737.6	1.6
10°-20°	1890.7	4.0
20°-30°	2913.2	6.1
30°-40°	4236.1	8.9
40°-50°	6234.9	13.1
50°-60°	8755.8	18.4
60°-70°	11082.1	23.3
70°-80°	9758.2	20.5
80°-90°	1929.4	4.1
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°	47538.0	100.0
0°-180°	47538.0	100.0

**Coefficient of Utilization**

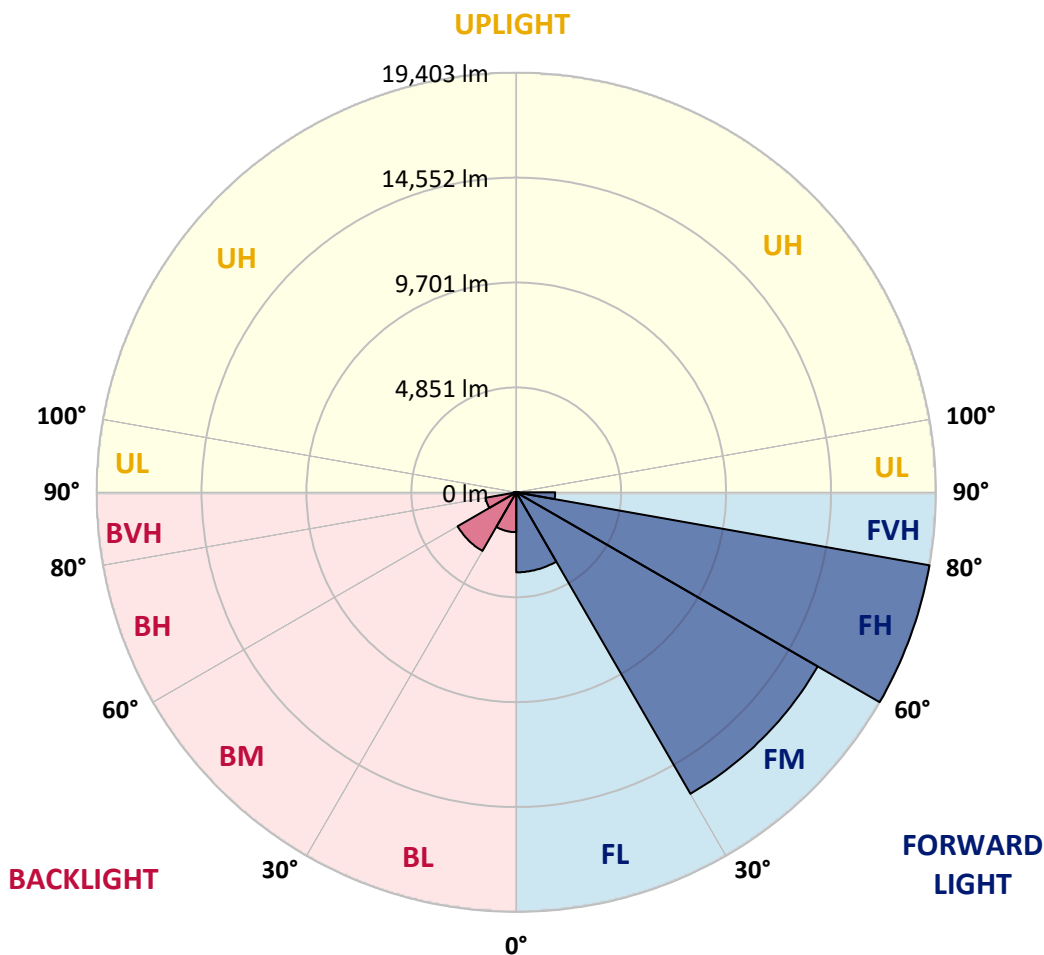


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3699.0	7.8			
FM (30°-60°)	16096.7	33.9			
FH (60°-80°)	19402.6	40.8			G5
FVH (80°-90°)	1798.8	3.8			G5
BL (0°-30°)	1842.4	3.9	B3/2500		
BM (30°-60°)	3130.1	6.6	B3/5000		
BH (60°-80°)	1437.8	3.0	B3/2500		G3/2500
BVH (80°-90°)	130.7	0.3			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0
2.5°	8662.4	8664.0	8662.4	8649.0	8617.1	8590.4	8568.6	8536.8	8466.4	8412.9	8332.5
5°	8744.4	8734.4	8727.7	8702.5	8652.3	8622.2	8580.3	8520.0	8404.5	8297.3	8166.7
7.5°	8705.9	8694.2	8679.1	8649.0	8592.0	8566.9	8508.3	8429.6	8290.6	8149.9	7962.4
10°	8587.0	8583.7	8577.0	8570.3	8521.7	8501.6	8448.0	8364.3	8227.0	8056.2	7836.8
12.5°	8454.7	8463.1	8489.9	8525.0	8503.3	8493.2	8459.7	8402.8	8262.1	8077.9	7813.4
15°	8371.0	8394.4	8466.4	8558.5	8577.0	8573.6	8565.2	8528.4	8379.4	8175.1	7867.0
17.5°	8342.5	8381.0	8518.3	8670.7	8724.3	8736.0	8739.4	8675.8	8510.0	8294.0	7922.2
20°	8394.4	8443.0	8643.9	8853.3	8938.7	8945.4	8930.3	8819.8	8633.9	8396.1	7952.4
22.5°	8551.8	8595.4	8846.6	9082.7	9179.8	9189.8	9144.6	8977.2	8764.5	8516.7	7994.2
25°	8854.9	8908.5	9159.7	9395.8	9446.0	9447.7	9382.4	9174.8	8935.3	8685.8	8084.6
27.5°	9250.1	9303.7	9529.8	9760.8	9734.1	9719.0	9630.2	9422.6	9158.0	8918.6	8245.4
30°	9690.5	9749.1	9963.5	10127.6	10063.9	10033.8	9961.8	9693.9	9467.8	9236.7	8491.6
32.5°	10146.0	10199.6	10387.1	10499.3	10418.9	10405.5	10296.7	10052.2	9871.4	9722.3	8890.1
35°	10613.2	10651.7	10835.9	10899.5	10792.4	10789.0	10758.9	10534.5	10420.6	10490.9	9469.5
37.5°	11090.4	11100.5	11257.9	11261.2	11229.4	11242.8	11274.6	11134.0	11165.8	11385.1	10223.0
40°	11515.8	11542.6	11656.4	11691.6	11746.8	11793.7	11952.8	11860.7	12106.9	12495.4	11160.8
42.5°	11830.6	11882.5	12065.0	12155.4	12334.6	12408.3	12632.7	12718.1	13213.7	13796.5	12276.0
45°	12096.8	12177.2	12470.2	12656.1	12959.2	13088.1	13409.7	13696.0	14464.6	15208.1	13449.8
47.5°	12384.8	12487.0	12853.7	13208.7	13620.6	13766.3	14350.7	14779.4	15799.2	16628.1	14556.7
50°	12808.5	12887.2	13245.6	13803.2	14317.3	14504.8	15313.6	15928.2	17155.6	17981.1	15516.2
52.5°	13399.6	13369.5	13672.6	14454.6	15144.5	15375.6	16341.8	17150.6	18530.4	19205.2	16326.7
55°	13994.1	13943.8	14156.5	15136.1	16109.0	16351.8	17473.7	18378.0	19838.2	20307.1	16947.9
57.5°	14655.5	14560.1	14739.2	15904.7	17207.5	17497.2	18741.4	19682.5	21124.2	21197.9	17343.1
60°	15337.0	15208.1	15409.0	16857.5	18602.4	18944.0	20225.0	20955.1	22336.6	21911.3	17470.4
62.5°	15933.2	15842.8	16152.5	17920.8	20174.8	20549.9	21681.8	22308.1	23532.2	22207.6	17011.6
65°	16454.0	16469.0	17004.9	19116.5	21928.0	22328.2	23353.0	23976.0	24473.3	22031.8	15938.2
67.5°	17075.2	17160.6	18074.9	20690.5	24135.0	24573.8	25784.5	25794.5	24999.1	21000.3	13824.9
70°	17981.1	18157.0	19546.8	22874.1	27273.1	27875.9	28810.3	26862.8	24260.6	18203.8	10877.8
72.5°	18784.9	19113.1	21112.5	25372.5	31097.7	31554.9	30580.3	26246.6	21174.5	13642.4	6776.8
74°	18458.4	18865.3	21397.2	26603.3	32537.8	32757.2	29982.5	24448.2	17654.6	9447.7	3938.5
75°	17755.1	18197.1	20981.9	26591.6	32355.3	32233.1	28539.1	22393.5	14540.0	6443.6	2620.6
77.5°	14329.0	14796.2	17679.7	22790.4	26529.6	26414.1	21923.0	15022.2	6368.2	2113.3	1331.3
80°	8330.8	8687.5	10974.9	14473.0	17889.0	18098.3	14417.7	7433.2	2505.1	1187.2	902.6
82.5°	3700.7	3946.9	5301.6	7388.0	10795.7	11065.3	7550.5	3895.0	1547.3	721.7	542.5
85°	2428.1	2610.6	3218.5	3518.2	5140.8	5325.0	3695.7	3032.6	1021.5	396.9	398.5
87.5°	1746.5	1922.4	2391.2	2088.1	2359.4	2233.8	2011.1	2806.5	410.3	226.1	134.0
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°	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0	8376.0
2.5°	8297.3	8270.5	8210.2	8096.4	8032.7	7979.1	7890.4	7838.5	7815.0	7813.4	7823.4
5°	8091.3	8029.4	7873.7	7682.8	7530.4	7391.4	7218.9	7115.1	7041.4	6997.9	7009.6
7.5°	7851.9	7754.8	7510.3	7205.5	6961.0	6691.4	6425.2	6266.1	6142.2	6050.1	6066.8
10°	7687.8	7553.8	7197.1	6758.4	6351.5	5959.7	5592.9	5373.6	5199.4	5065.5	5075.5
12.5°	7632.5	7451.7	6957.7	6371.6	5800.6	5264.7	4785.8	4449.2	4270.1	4117.7	4129.4
15°	7640.9	7398.1	6756.7	6023.3	5304.9	4630.1	4049.0	3655.5	3412.7	3307.2	3308.9
17.5°	7647.6	7336.1	6545.7	5649.9	4814.3	4037.3	3406.0	3007.5	2778.0	2680.9	2682.6
20°	7625.8	7235.7	6284.5	5221.2	4301.9	3493.1	2881.9	2543.6	2369.5	2294.1	2294.1
22.5°	7597.4	7116.8	5989.8	4790.8	3796.2	3020.9	2506.8	2248.9	2148.4	2098.2	2096.5
25°	7610.8	7028.0	5688.4	4348.8	3330.6	2644.1	2257.3	2086.5	2019.5	1987.7	1986.0
27.5°	7682.8	6986.1	5410.4	3908.4	2923.7	2361.1	2089.8	1969.3	1925.7	1905.6	1905.6
30°	7813.4	6986.1	5120.7	3533.3	2585.5	2151.8	1960.9	1878.8	1848.7	1835.3	1835.3
32.5°	8041.1	7024.7	4841.1	3161.5	2315.9	1987.7	1853.7	1798.4	1775.0	1768.3	1768.3
35°	8432.9	7155.3	4568.1	2809.9	2098.2	1853.7	1751.6	1719.7	1703.0	1701.3	1706.3
37.5°	8983.9	7421.5	4311.9	2550.3	1944.1	1744.9	1666.2	1641.0	1631.0	1639.4	1646.1
40°	9677.1	7783.2	4079.2	2315.9	1826.9	1657.8	1587.5	1570.7	1565.7	1577.4	1587.5
42.5°	10514.4	8272.2	3888.3	2146.8	1736.5	1584.1	1520.5	1500.4	1495.4	1508.8	1522.2
45°	11420.3	8798.0	3754.3	2021.2	1666.2	1528.8	1461.9	1440.1	1430.1	1436.7	1451.8
47.5°	12244.2	9295.3	3700.7	1932.4	1599.2	1482.0	1410.0	1383.2	1366.4	1363.1	1374.8
50°	12939.1	9665.4	3725.8	1878.8	1545.6	1430.1	1359.7	1329.6	1304.5	1289.4	1297.8
52.5°	13444.8	9898.2	3749.3	1855.4	1503.7	1373.1	1304.5	1276.0	1242.5	1217.4	1217.4
55°	13811.5	9951.7	3697.4	1837.0	1471.9	1311.2	1242.5	1215.7	1182.2	1153.8	1150.4
57.5°	13955.6	9801.0	3504.8	1810.2	1450.1	1252.6	1177.2	1157.1	1128.6	1095.1	1093.5
60°	13761.3	9335.5	3133.1	1753.2	1421.7	1204.0	1111.9	1098.5	1085.1	1053.3	1051.6
62.5°	12981.0	8314.1	2652.5	1637.7	1364.7	1152.1	1051.6	1058.3	1060.0	1038.2	1034.9
65°	11566.0	6910.8	2183.6	1487.0	1279.3	1090.1	989.6	1021.5	1039.9	1036.5	1031.5
67.5°	9509.7	5378.6	1850.4	1327.9	1167.1	1004.7	922.7	959.5	974.6	986.3	983.0
70°	7058.2	3792.8	1530.5	1160.5	1031.5	904.2	835.6	854.0	844.0	857.4	862.4
72.5°	3935.2	2275.7	1247.5	993.0	890.9	787.0	738.5	735.1	713.4	713.4	713.4
74°	2361.1	1669.5	1096.8	889.2	805.5	710.0	668.1	653.1	633.0	634.6	633.0
75°	1898.9	1435.1	1006.4	820.5	745.2	664.8	622.9	602.8	587.8	587.8	586.1
77.5°	1199.0	1090.1	810.5	653.1	596.1	547.6	519.1	492.3	492.3	490.6	489.0
80°	905.9	867.4	631.3	494.0	457.1	420.3	401.9	390.2	390.2	395.2	393.5
82.5°	621.3	653.1	443.8	345.0	326.5	299.7	296.4	298.1	293.0	286.3	284.7
85°	453.8	490.6	299.7	217.7	199.3	182.5	195.9	202.6	194.2	179.2	172.5
87.5°	174.2	321.5	160.8	90.4	83.7	72.0	83.7	87.1	93.8	73.7	75.4
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)