

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: P319961

Luminaire Tested: **GAN-SA7B-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319961  
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-SA7B-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA 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: 34978 lumens  
Efficiency: N/A  
Efficacy: 118.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

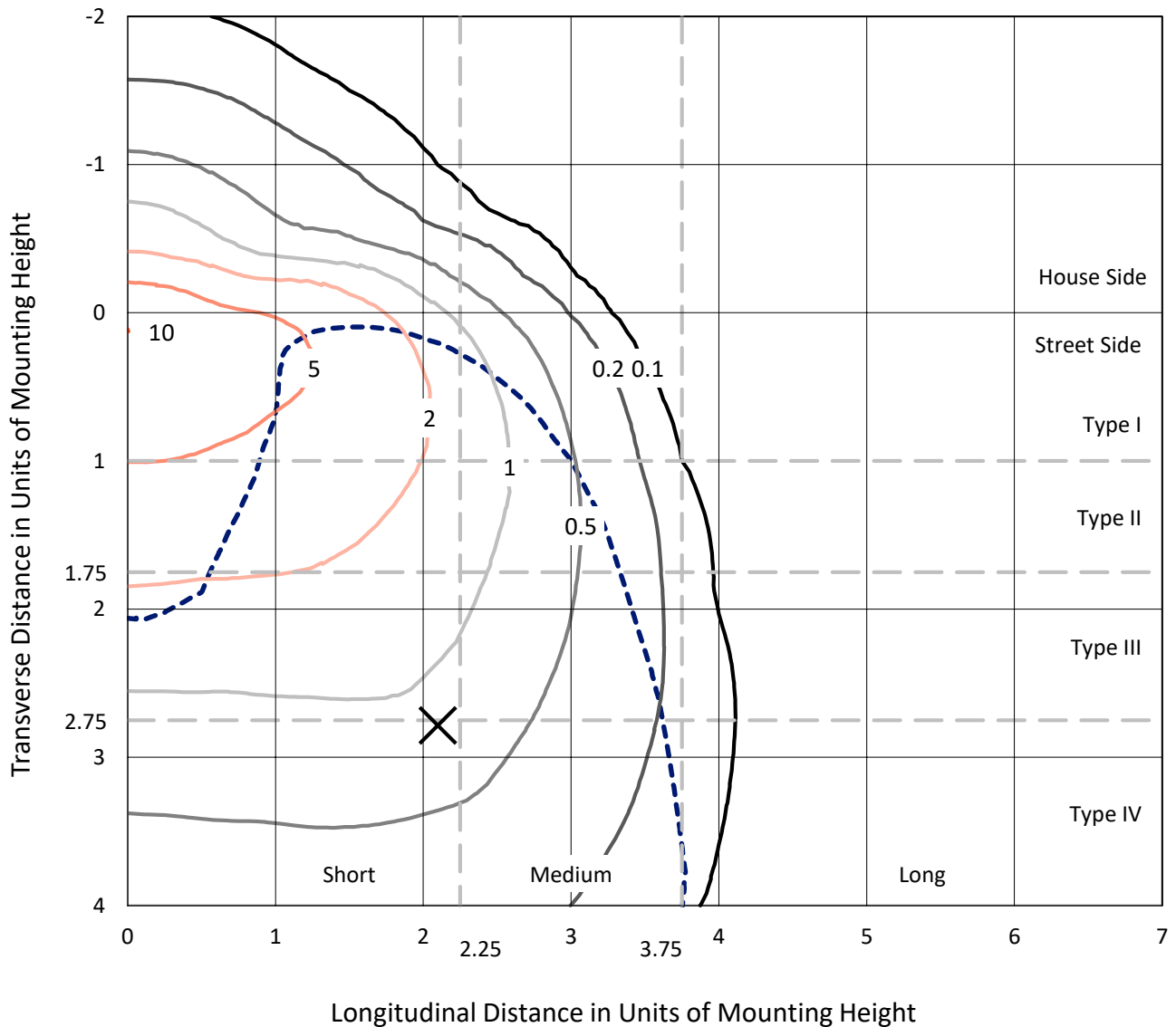
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

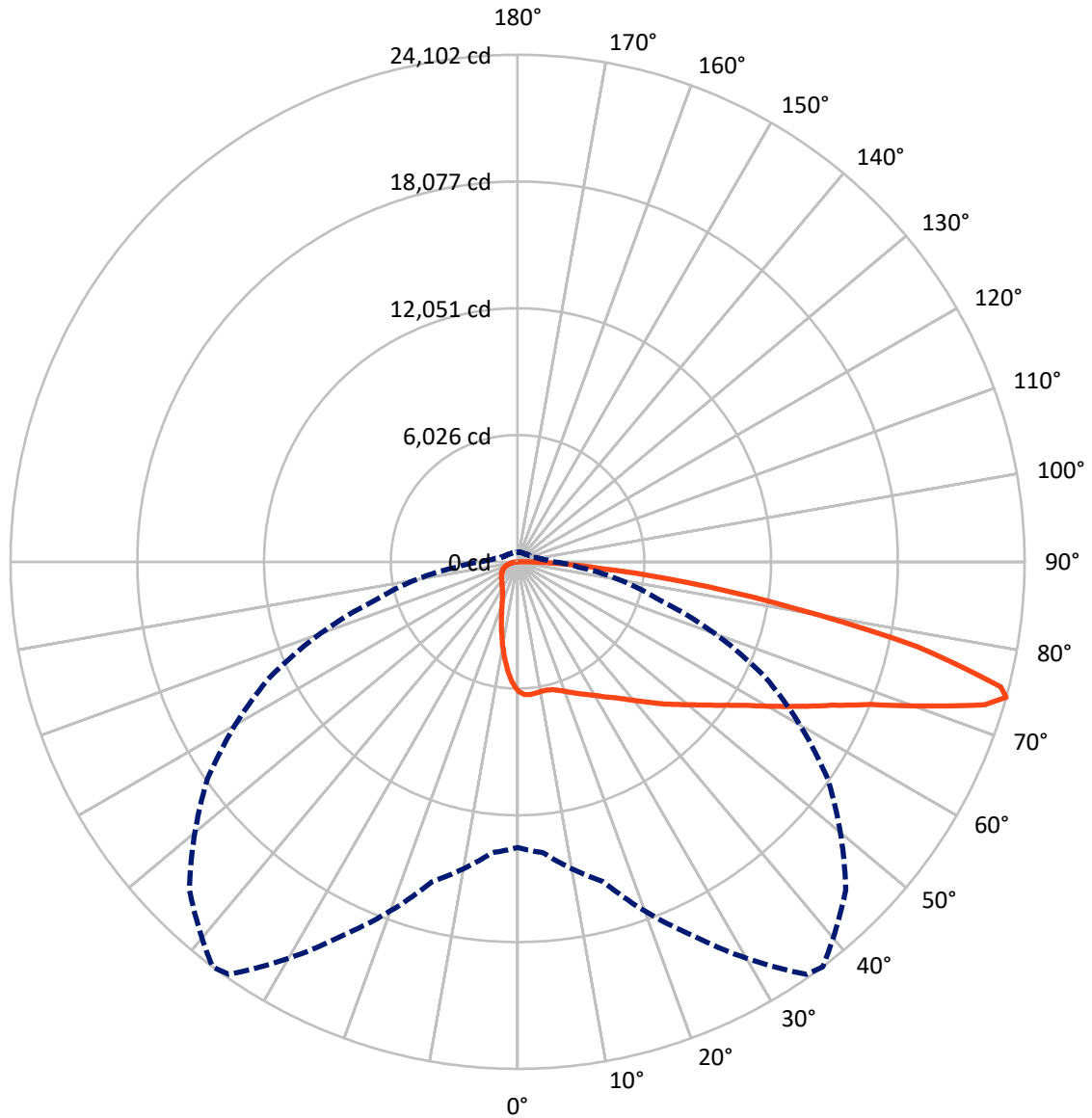
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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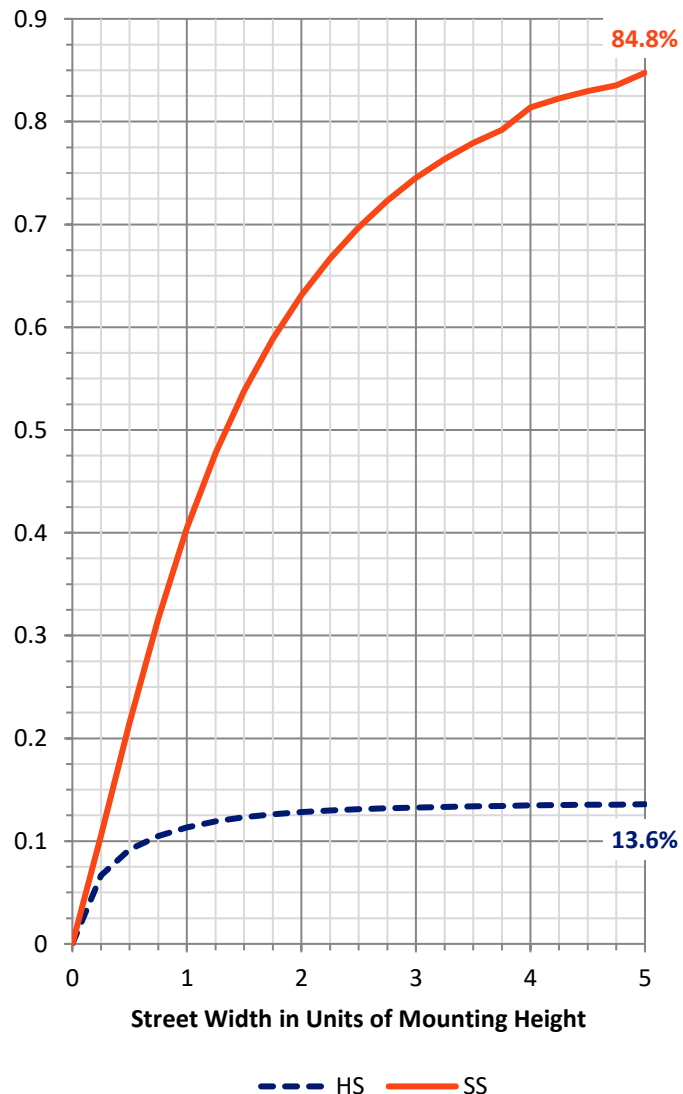
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4812.7	0.0	4812.7
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	30165.3	0.0	30165.3
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	34978.0	0.0	34978.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	542.7	1.6
10°-20°	1391.1	4.0
20°-30°	2143.5	6.1
30°-40°	3116.9	8.9
40°-50°	4587.6	13.1
50°-60°	6442.4	18.4
60°-70°	8154.1	23.3
70°-80°	7180.0	20.5
80°-90°	1419.6	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°	34978.0	100.0
0°-180°	34978.0	100.0

**Coefficient of Utilization**

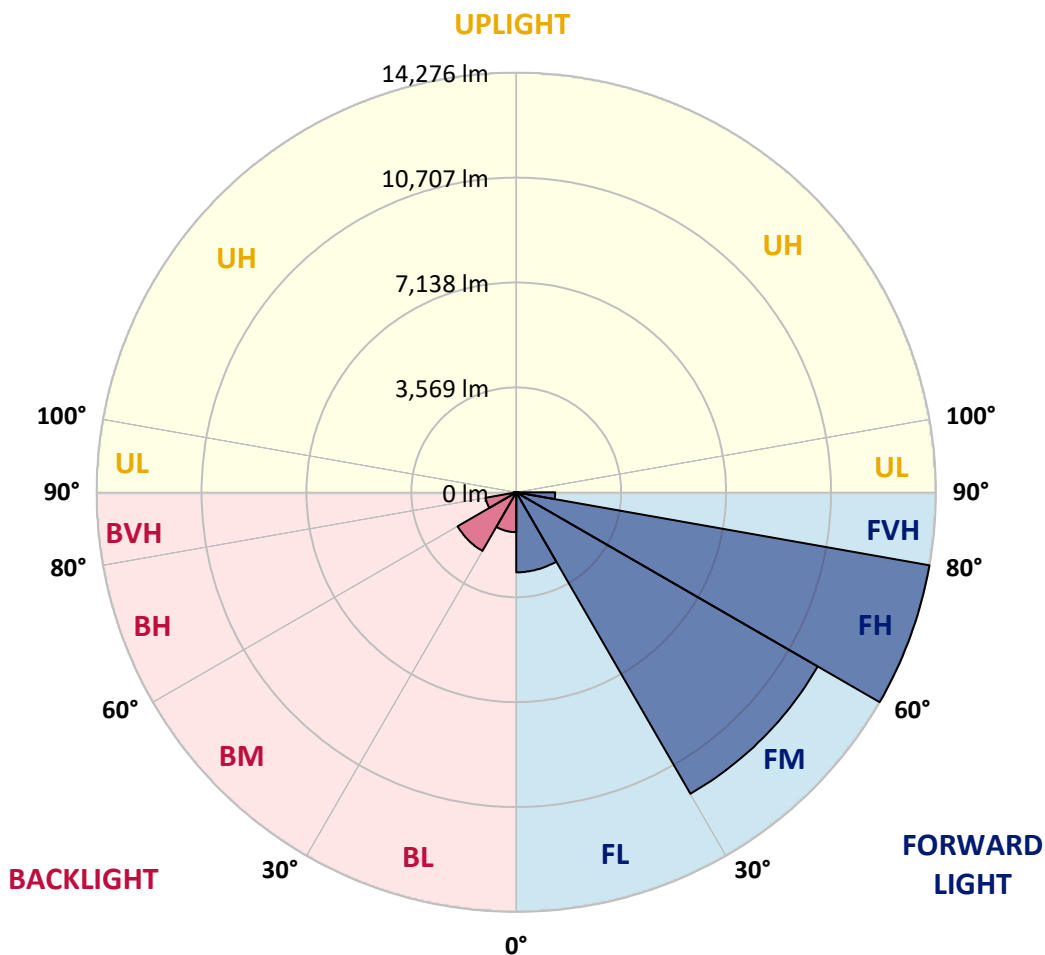


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2721.7	7.8			
FM (30°-60°)	11843.8	33.9			
FH (60°-80°)	14276.2	40.8			G5
FVH (80°-90°)	1323.5	3.8			G5
BL (0°-30°)	1355.6	3.9	B3/2500		
BM (30°-60°)	2303.1	6.6	B2/2500		
BH (60°-80°)	1057.9	3.0	B3/2500		G3/2500
BVH (80°-90°)	96.1	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-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0
2.5°	6373.7	6374.9	6373.7	6363.8	6340.4	6320.7	6304.7	6281.3	6229.5	6190.1	6131.0
5°	6434.1	6426.7	6421.7	6403.2	6366.3	6344.1	6313.3	6268.9	6183.9	6105.1	6009.0
7.5°	6405.7	6397.1	6386.0	6363.8	6321.9	6303.4	6260.3	6202.4	6100.2	5996.7	5858.7
10°	6318.2	6315.8	6310.8	6305.9	6270.2	6255.4	6216.0	6154.4	6053.3	5927.7	5766.3
12.5°	6220.9	6227.1	6246.8	6272.6	6256.6	6249.2	6224.6	6182.7	6079.2	5943.7	5749.0
15°	6159.3	6176.5	6229.5	6297.3	6310.8	6308.4	6302.2	6275.1	6165.5	6015.1	5788.4
17.5°	6138.3	6166.7	6267.7	6379.8	6419.3	6427.9	6430.4	6383.5	6261.6	6102.6	5829.1
20°	6176.5	6212.3	6360.1	6514.1	6577.0	6581.9	6570.8	6489.5	6352.7	6177.8	5851.3
22.5°	6292.4	6324.4	6509.2	6682.9	6754.4	6761.8	6728.5	6605.3	6448.8	6266.5	5882.1
25°	6515.4	6554.8	6739.6	6913.3	6950.3	6951.5	6903.5	6750.7	6574.5	6390.9	5948.6
27.5°	6806.1	6845.6	7011.9	7181.9	7162.2	7151.1	7085.8	6933.1	6738.4	6562.2	6066.9
30°	7130.2	7173.3	7331.0	7451.8	7404.9	7382.8	7329.8	7132.7	6966.3	6796.3	6248.0
32.5°	7465.3	7504.8	7642.7	7725.3	7666.2	7656.3	7576.2	7396.3	7263.3	7153.6	6541.2
35°	7809.1	7837.4	7972.9	8019.8	7940.9	7938.5	7916.3	7751.2	7667.4	7719.1	6967.6
37.5°	8160.2	8167.6	8283.4	8285.9	8262.5	8272.4	8295.8	8192.3	8215.7	8377.1	7522.0
40°	8473.2	8492.9	8576.7	8602.6	8643.2	8677.7	8794.8	8727.0	8908.1	9194.0	8212.0
42.5°	8704.8	8743.0	8877.3	8943.8	9075.7	9129.9	9295.0	9357.8	9722.5	10151.3	9032.6
45°	8900.7	8959.9	9175.5	9312.2	9535.3	9630.1	9866.7	10077.4	10642.9	11190.0	9896.3
47.5°	9112.6	9187.8	9457.6	9718.8	10021.9	10129.1	10559.1	10874.6	11624.9	12234.8	10710.7
50°	9424.4	9482.3	9745.9	10156.2	10534.5	10672.5	11267.6	11719.8	12622.9	13230.3	11416.7
52.5°	9859.3	9837.1	10060.1	10635.5	11143.2	11313.2	12024.1	12619.2	13634.5	14131.0	12013.0
55°	10296.7	10259.7	10416.2	11137.0	11852.8	12031.5	12857.0	13522.3	14596.7	14941.7	12470.1
57.5°	10783.4	10713.2	10845.0	11702.5	12661.1	12874.3	13789.7	14482.2	15543.0	15597.2	12760.9
60°	11284.8	11190.0	11337.8	12403.6	13687.5	13938.8	14881.4	15418.6	16435.0	16122.1	12854.5
62.5°	11723.5	11656.9	11884.9	13186.0	14844.4	15120.4	15953.3	16414.1	17314.8	16340.2	12517.0
65°	12106.7	12117.8	12512.0	14065.7	16134.4	16428.9	17182.9	17641.3	18007.2	16210.8	11727.2
67.5°	12563.8	12626.6	13299.3	15223.9	17758.3	18081.1	18971.9	18979.3	18394.1	15451.8	10172.3
70°	13230.3	13359.7	14382.4	16830.6	20067.3	20510.8	21198.4	19765.4	17850.7	13394.2	8003.8
72.5°	13821.8	14063.2	15534.4	18668.9	22881.4	23217.8	22500.7	19312.0	15580.0	10038.0	4986.3
74°	13581.5	13880.9	15743.8	19574.4	23941.0	24102.4	22060.8	17988.7	12990.1	6951.5	2897.9
75°	13064.0	13389.3	15438.3	19565.8	23806.7	23716.8	20998.8	16476.9	10698.4	4741.1	1928.2
77.5°	10543.1	10886.9	13008.6	16768.9	19520.2	19435.2	16130.7	11053.2	4685.7	1554.9	979.5
80°	6129.7	6392.2	8075.2	10649.1	13162.6	13316.6	10608.4	5469.3	1843.2	873.6	664.1
82.5°	2723.0	2904.1	3900.8	5436.0	7943.4	8141.7	5555.6	2865.9	1138.5	531.0	399.2
85°	1786.6	1920.9	2368.1	2588.7	3782.6	3918.1	2719.3	2231.3	751.6	292.0	293.2
87.5°	1285.1	1414.5	1759.4	1536.4	1736.0	1643.6	1479.8	2065.0	301.9	166.3	98.6
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°	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0	6163.0
2.5°	6105.1	6085.4	6041.0	5957.2	5910.4	5871.0	5805.7	5767.5	5750.2	5749.0	5756.4
5°	5953.5	5907.9	5793.4	5652.9	5540.8	5438.5	5311.6	5235.2	5181.0	5149.0	5157.6
7.5°	5777.3	5705.9	5526.0	5301.7	5121.9	4923.5	4727.6	4610.5	4519.4	4451.6	4463.9
10°	5656.6	5558.0	5295.6	4972.8	4673.4	4385.1	4115.2	3953.8	3825.7	3727.1	3734.5
12.5°	5615.9	5482.9	5119.4	4688.2	4268.0	3873.7	3521.4	3273.7	3141.9	3029.7	3038.4
15°	5622.1	5443.4	4971.5	4431.9	3903.3	3406.8	2979.2	2689.7	2511.0	2433.4	2434.6
17.5°	5627.0	5397.9	4816.3	4157.1	3542.3	2970.6	2506.1	2212.9	2044.1	1972.6	1973.8
20°	5611.0	5323.9	4624.1	3841.7	3165.3	2570.2	2120.5	1871.6	1743.4	1688.0	1688.0
22.5°	5590.1	5236.4	4407.2	3525.1	2793.2	2222.7	1844.5	1654.7	1580.8	1543.8	1542.6
25°	5599.9	5171.1	4185.5	3199.8	2450.7	1945.5	1660.9	1535.2	1485.9	1462.5	1461.3
27.5°	5652.9	5140.3	3980.9	2875.7	2151.3	1737.3	1537.7	1449.0	1416.9	1402.1	1402.1
30°	5749.0	5140.3	3767.8	2599.7	1902.4	1583.3	1442.8	1382.4	1360.2	1350.4	1350.4
32.5°	5916.6	5168.7	3562.0	2326.2	1704.0	1462.5	1363.9	1323.3	1306.0	1301.1	1301.1
35°	6204.9	5264.8	3361.2	2067.5	1543.8	1363.9	1288.8	1265.4	1253.1	1251.8	1255.5
37.5°	6610.2	5460.7	3172.7	1876.5	1430.5	1283.9	1225.9	1207.5	1200.1	1206.2	1211.2
40°	7120.3	5726.8	3001.4	1704.0	1344.2	1219.8	1168.0	1155.7	1152.0	1160.6	1168.0
42.5°	7736.4	6086.6	2860.9	1579.6	1277.7	1165.6	1118.8	1104.0	1100.3	1110.1	1120.0
45°	8403.0	6473.5	2762.4	1487.2	1225.9	1124.9	1075.6	1059.6	1052.2	1057.1	1068.2
47.5°	9009.2	6839.4	2723.0	1421.8	1176.7	1090.4	1037.4	1017.7	1005.4	1002.9	1011.6
50°	9520.5	7111.7	2741.4	1382.4	1137.2	1052.2	1000.5	978.3	959.8	948.7	954.9
52.5°	9892.6	7283.0	2758.7	1365.2	1106.4	1010.3	959.8	938.9	914.2	895.7	895.7
55°	10162.4	7322.4	2720.5	1351.6	1083.0	964.7	914.2	894.5	869.9	848.9	846.5
57.5°	10268.4	7211.5	2578.8	1331.9	1067.0	921.6	866.2	851.4	830.4	805.8	804.6
60°	10125.4	6869.0	2305.3	1290.0	1046.1	885.9	818.1	808.3	798.4	775.0	773.8
62.5°	9551.3	6117.4	1951.7	1205.0	1004.2	847.7	773.8	778.7	779.9	763.9	761.4
65°	8510.1	5084.9	1606.7	1094.1	941.3	802.1	728.2	751.6	765.1	762.7	759.0
67.5°	6997.1	3957.5	1361.5	977.1	858.8	739.3	678.9	706.0	717.1	725.7	723.2
70°	5193.3	2790.7	1126.1	853.8	759.0	665.3	614.8	628.4	621.0	630.8	634.5
72.5°	2895.4	1674.4	917.9	730.6	655.5	579.1	543.4	540.9	524.9	524.9	524.9
74°	1737.3	1228.4	807.0	654.2	592.6	522.4	491.6	480.5	465.7	467.0	465.7
75°	1397.2	1055.9	740.5	603.7	548.3	489.1	458.3	443.6	432.5	432.5	431.2
77.5°	882.2	802.1	596.3	480.5	438.6	402.9	382.0	362.2	362.2	361.0	359.8
80°	666.6	638.2	464.5	363.5	336.4	309.3	295.7	287.1	287.1	290.8	289.5
82.5°	457.1	480.5	326.5	253.8	240.3	220.5	218.1	219.3	215.6	210.7	209.5
85°	333.9	361.0	220.5	160.2	146.6	134.3	144.2	149.1	142.9	131.8	126.9
87.5°	128.1	236.6	118.3	66.5	61.6	53.0	61.6	64.1	69.0	54.2	55.4
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)