

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: P319962

Luminaire Tested: **GAN-SA8B-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319962  
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-SA8B-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 39633 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

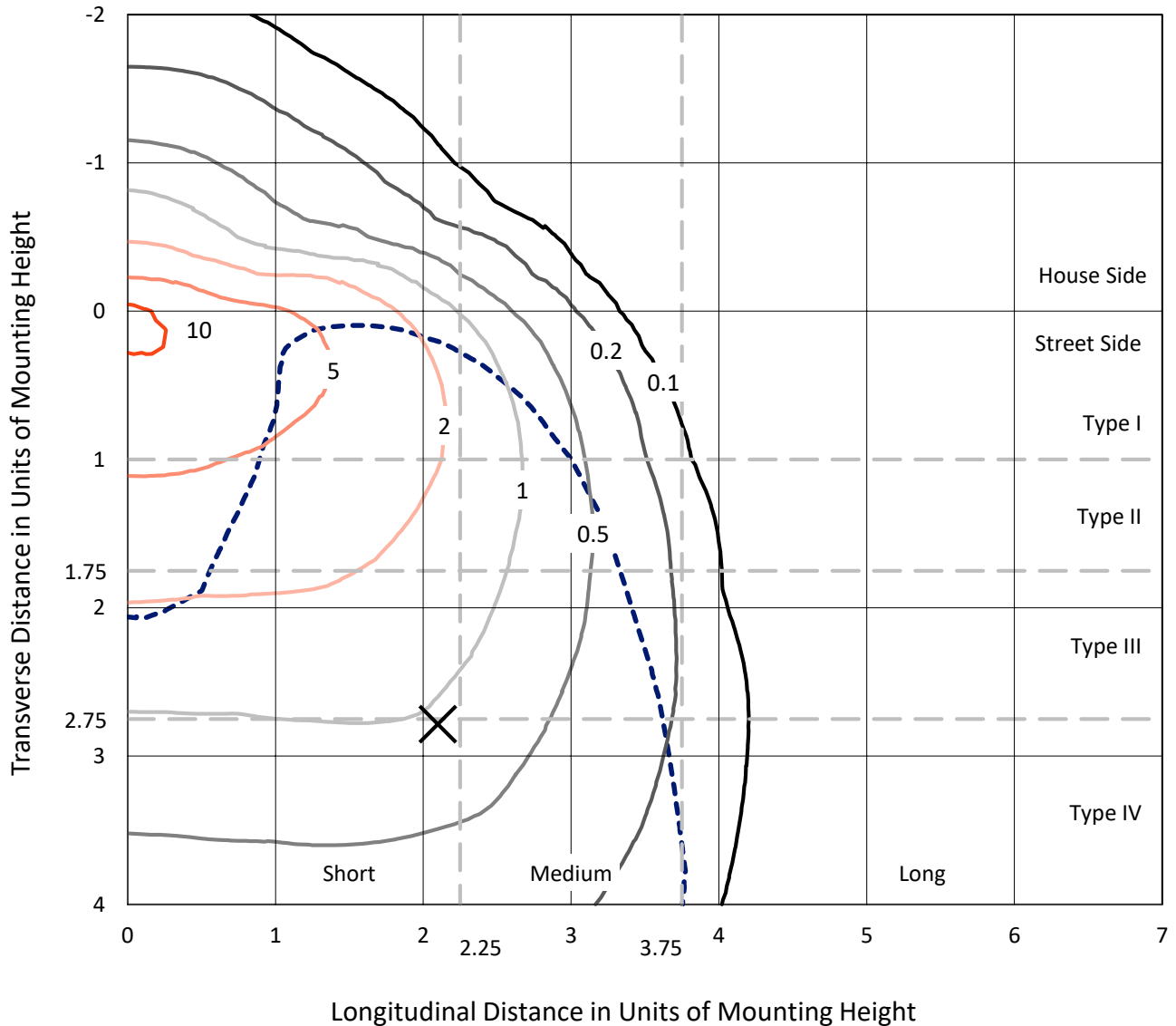
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

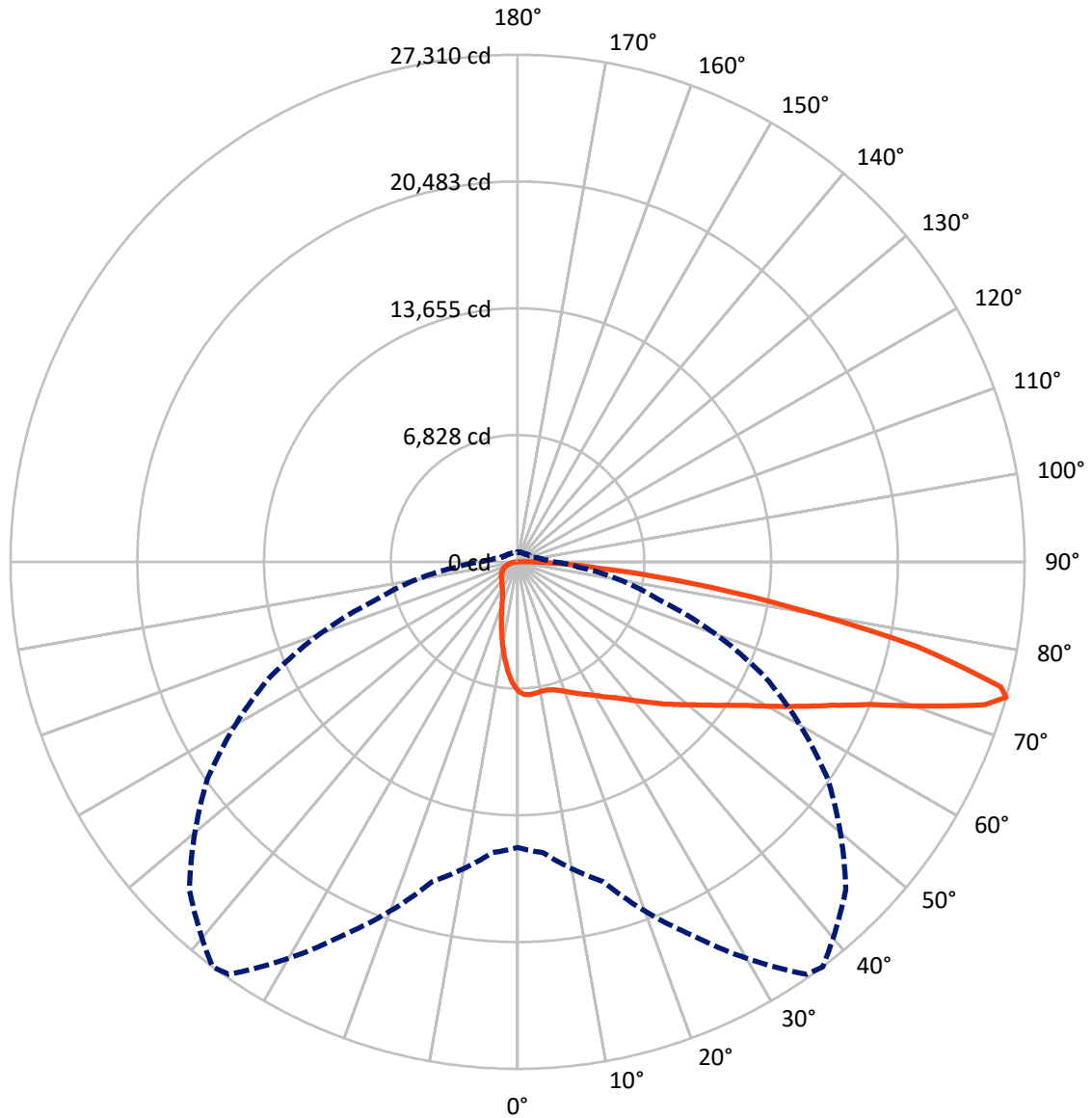
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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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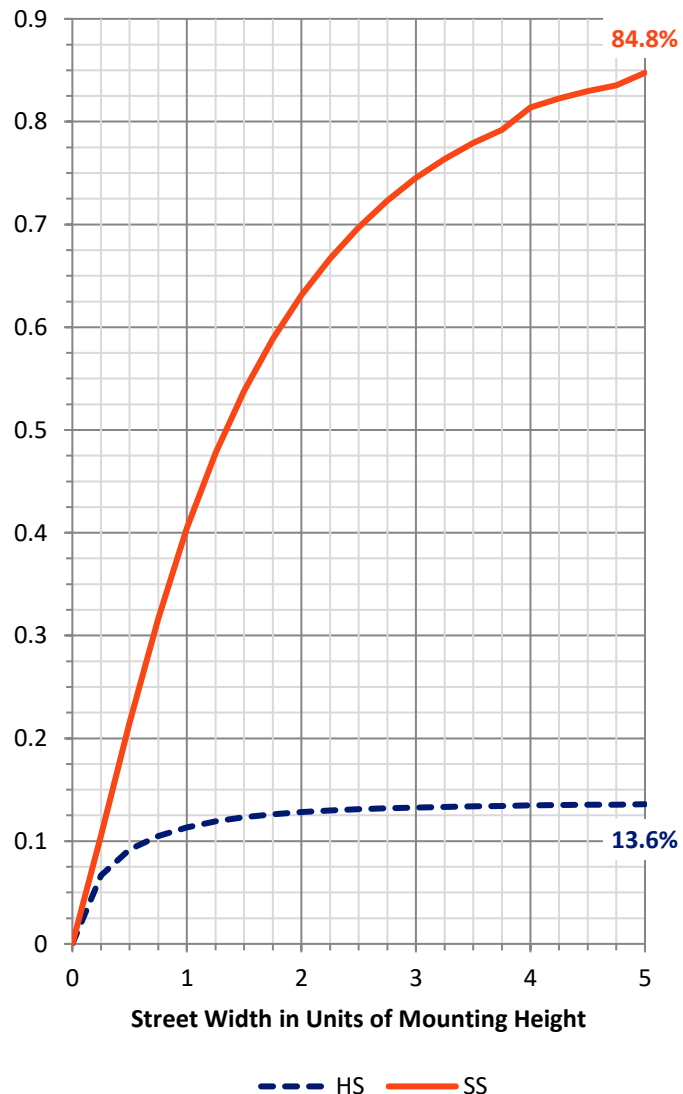
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5453.2	0.0	5453.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	34179.8	0.0	34179.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	39633.0	0.0	39633.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.9	1.6
10°-20°	1576.3	4.0
20°-30°	2428.7	6.1
30°-40°	3531.7	8.9
40°-50°	5198.1	13.1
50°-60°	7299.8	18.4
60°-70°	9239.3	23.3
70°-80°	8135.5	20.5
80°-90°	1608.6	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°	39633.0	100.0
0°-180°	39633.0	100.0

**Coefficient of Utilization**

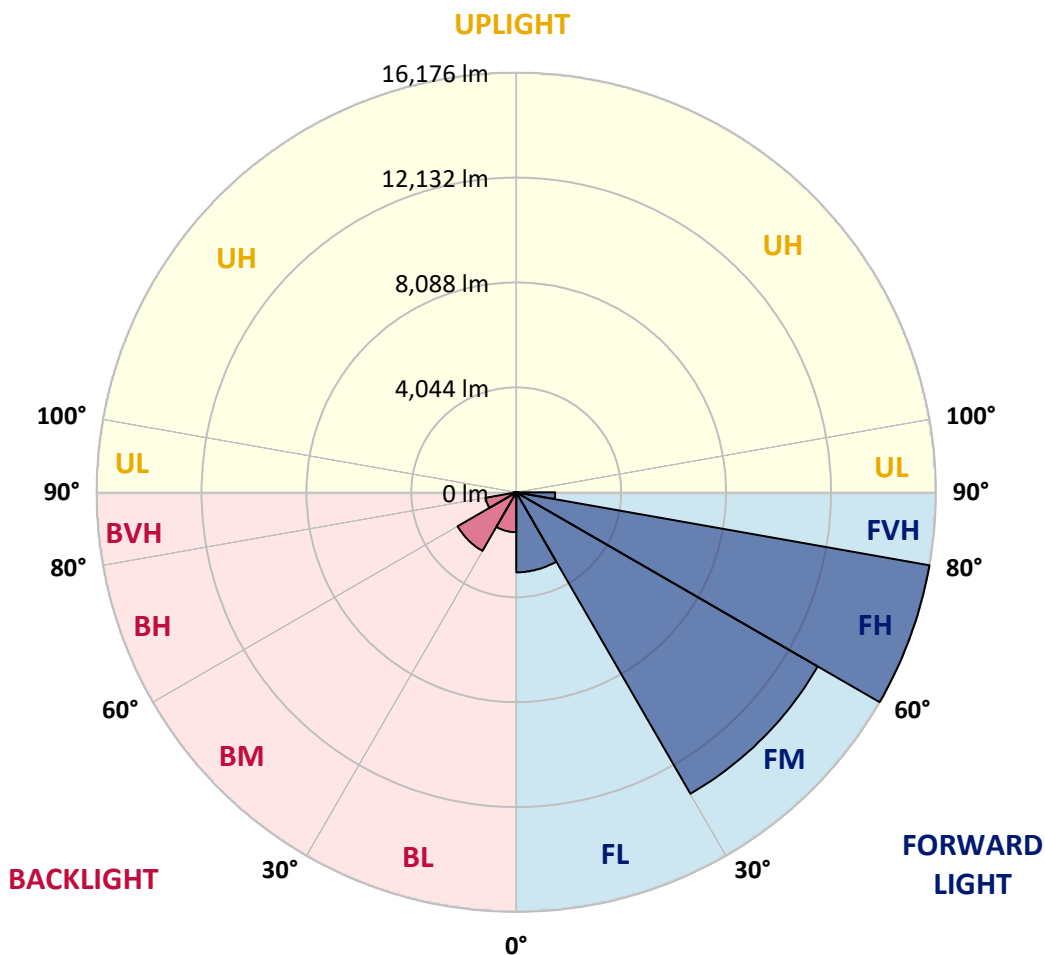


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3083.9	7.8			
FM (30°-60°)	13420.0	33.9			
FH (60°-80°)	16176.2	40.8			G5
FVH (80°-90°)	1499.6	3.8			G5
BL (0°-30°)	1536.0	3.9	B3/2500		
BM (30°-60°)	2609.6	6.6	B3/5000		
BH (60°-80°)	1198.7	3.0	B3/2500		G3/2500
BVH (80°-90°)	108.9	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°	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2
2.5°	7221.9	7223.3	7221.9	7210.7	7184.2	7161.9	7143.7	7117.2	7058.6	7013.9	6946.9
5°	7290.3	7281.9	7276.4	7255.4	7213.5	7188.4	7153.5	7103.2	7006.9	6917.6	6808.7
7.5°	7258.2	7248.4	7235.9	7210.7	7163.3	7142.3	7093.5	7027.9	6912.0	6794.7	6638.3
10°	7159.1	7156.3	7150.7	7145.1	7104.6	7087.9	7043.2	6973.4	6858.9	6716.5	6533.6
12.5°	7048.8	7055.8	7078.1	7107.4	7089.3	7080.9	7053.0	7005.5	6888.2	6734.7	6514.1
15°	6979.0	6998.5	7058.6	7135.4	7150.7	7147.9	7140.9	7110.2	6986.0	6815.7	6558.8
17.5°	6955.3	6987.4	7101.8	7228.9	7273.6	7283.3	7286.1	7233.1	7094.9	6914.8	6604.8
20°	6998.5	7039.0	7206.6	7381.1	7452.3	7457.8	7445.3	7353.1	7198.2	6999.9	6630.0
22.5°	7129.8	7166.1	7375.5	7572.3	7653.3	7661.7	7624.0	7484.4	7307.1	7100.5	6664.9
25°	7382.5	7427.1	7636.5	7833.4	7875.3	7876.7	7822.2	7649.1	7449.5	7241.5	6740.3
27.5°	7711.9	7756.6	7945.1	8137.7	8115.4	8102.8	8028.8	7855.7	7635.1	7435.5	6874.3
30°	8079.1	8128.0	8306.7	8443.5	8390.4	8365.3	8305.3	8081.9	7893.4	7700.8	7079.5
32.5°	8458.8	8503.5	8659.9	8753.4	8686.4	8675.2	8584.5	8380.7	8229.9	8105.6	7411.8
35°	8848.3	8880.5	9034.0	9087.1	8997.7	8994.9	8969.8	8782.7	8687.8	8746.4	7894.8
37.5°	9246.2	9254.6	9385.8	9388.6	9362.1	9373.3	9399.8	9282.5	9309.0	9491.9	8523.1
40°	9600.8	9623.2	9718.1	9747.4	9793.5	9832.6	9965.2	9888.4	10093.6	10417.5	9304.9
42.5°	9863.3	9906.6	10058.7	10134.1	10283.5	10344.9	10532.0	10603.2	11016.4	11502.3	10234.6
45°	10085.3	10152.3	10396.6	10551.6	10804.2	10911.7	11179.8	11418.5	12059.3	12679.2	11213.3
47.5°	10325.4	10410.6	10716.3	11012.3	11355.7	11477.2	11964.4	12321.8	13172.0	13863.1	12136.1
50°	10678.6	10744.2	11043.0	11507.9	11936.5	12092.8	12767.1	13279.5	14302.8	14991.1	12936.1
52.5°	11171.4	11146.3	11399.0	12050.9	12626.1	12818.8	13624.3	14298.6	15449.0	16011.6	13611.8
55°	11667.0	11625.1	11802.4	12619.1	13430.3	13632.7	14568.1	15322.0	16539.3	16930.2	14129.7
57.5°	12218.5	12138.9	12288.3	13259.9	14346.1	14587.6	15624.9	16409.5	17611.5	17672.9	14459.2
60°	12786.7	12679.2	12846.7	14054.3	15509.0	15793.8	16861.8	17470.5	18622.3	18267.7	14565.3
62.5°	13283.7	13208.3	13466.6	14940.8	16819.9	17132.7	18076.4	18598.5	19619.1	18514.8	14182.8
65°	13717.9	13730.4	14177.2	15937.6	18281.6	18615.3	19469.7	19989.0	20403.7	18368.2	13287.9
67.5°	14235.8	14307.0	15069.3	17249.9	20121.7	20487.4	21496.8	21505.2	20842.0	17508.2	11526.0
70°	14991.1	15137.7	16296.4	19070.4	22737.9	23240.5	24019.5	22395.9	20226.4	15176.8	9068.9
72.5°	15661.2	15934.8	17601.7	21153.4	25926.6	26307.7	25495.2	21882.1	17653.4	11373.8	5649.9
74°	15389.0	15728.2	17839.1	22179.5	27127.2	27310.1	24996.8	20382.7	14718.8	7876.7	3283.6
75°	14802.6	15171.2	17492.9	22169.7	26975.0	26873.1	23793.4	18669.7	12122.1	5372.1	2184.9
77.5°	11946.2	12335.7	14739.8	19000.6	22118.1	22021.7	18277.5	12524.2	5309.3	1761.9	1109.9
80°	6945.5	7242.9	9149.9	12066.3	14914.3	15088.8	12020.2	6197.2	2088.5	989.8	752.5
82.5°	3085.3	3290.6	4420.0	6159.5	9000.5	9225.3	6294.9	3247.3	1290.0	601.7	452.3
85°	2024.3	2176.5	2683.3	2933.2	4286.0	4439.5	3081.1	2528.3	851.6	330.9	332.3
87.5°	1456.1	1602.7	1993.6	1740.9	1967.1	1862.4	1676.7	2339.8	342.0	188.5	111.7
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°	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2	6983.2
2.5°	6917.6	6895.2	6845.0	6750.0	6697.0	6652.3	6578.3	6535.0	6515.5	6514.1	6522.5
5°	6745.8	6694.2	6564.4	6405.2	6278.2	6162.3	6018.5	5931.9	5870.5	5834.2	5844.0
7.5°	6546.2	6465.2	6261.4	6007.3	5803.5	5578.7	5356.8	5224.1	5120.8	5044.0	5058.0
10°	6409.4	6297.7	6000.3	5634.6	5295.3	4968.6	4662.9	4480.0	4334.8	4223.1	4231.5
12.5°	6363.3	6212.5	5800.7	5312.1	4836.0	4389.3	3990.0	3709.4	3560.0	3433.0	3442.7
15°	6370.3	6167.9	5633.2	5021.7	4422.8	3860.2	3375.7	3047.6	2845.2	2757.3	2758.6
17.5°	6375.9	6116.2	5457.3	4710.4	4013.7	3365.9	2839.6	2507.4	2316.1	2235.1	2236.5
20°	6357.7	6032.5	5239.5	4353.0	3586.5	2912.2	2402.6	2120.6	1975.5	1912.6	1912.6
22.5°	6334.0	5933.3	4993.8	3994.2	3164.9	2518.5	2089.9	1874.9	1791.2	1749.3	1747.9
25°	6345.2	5859.3	4742.5	3625.6	2776.8	2204.4	1881.9	1739.5	1683.7	1657.1	1655.7
27.5°	6405.2	5824.4	4510.7	3258.4	2437.6	1968.5	1742.3	1641.8	1605.5	1588.7	1588.7
30°	6514.1	5824.4	4269.2	2945.7	2155.5	1794.0	1634.8	1566.4	1541.3	1530.1	1530.1
32.5°	6704.0	5856.5	4036.1	2635.8	1930.8	1657.1	1545.5	1499.4	1479.8	1474.3	1474.3
35°	7030.6	5965.4	3808.5	2342.6	1749.3	1545.5	1460.3	1433.8	1419.8	1418.4	1422.6
37.5°	7490.0	6187.4	3594.9	2126.2	1620.8	1454.7	1389.1	1368.2	1359.8	1366.8	1372.3
40°	8067.9	6489.0	3400.8	1930.8	1523.1	1382.1	1323.5	1309.5	1305.3	1315.1	1323.5
42.5°	8766.0	6896.6	3241.7	1789.8	1447.7	1320.7	1267.6	1250.9	1246.7	1257.9	1269.0
45°	9521.3	7335.0	3130.0	1685.1	1389.1	1274.6	1218.8	1200.6	1192.3	1197.8	1210.4
47.5°	10208.1	7749.6	3085.3	1611.1	1333.3	1235.5	1175.5	1153.2	1139.2	1136.4	1146.2
50°	10787.5	8058.2	3106.3	1566.4	1288.6	1192.3	1133.6	1108.5	1087.5	1075.0	1082.0
52.5°	11209.1	8252.2	3125.8	1546.9	1253.7	1144.8	1087.5	1063.8	1035.9	1014.9	1014.9
55°	11514.8	8296.9	3082.5	1531.5	1227.2	1093.1	1035.9	1013.6	985.6	961.9	959.1
57.5°	11634.9	8171.2	2922.0	1509.2	1209.0	1044.3	981.4	964.7	941.0	913.0	911.6
60°	11473.0	7783.1	2612.1	1461.7	1185.3	1003.8	927.0	915.8	904.7	878.1	876.7
62.5°	10822.4	6931.5	2211.4	1365.4	1137.8	960.5	876.7	882.3	883.7	865.6	862.8
65°	9642.7	5761.6	1820.5	1239.7	1066.6	908.8	825.1	851.6	867.0	864.2	860.0
67.5°	7928.3	4484.2	1542.7	1107.1	973.1	837.6	769.2	800.0	812.5	822.3	819.5
70°	5884.5	3162.1	1276.0	967.5	860.0	753.9	696.6	712.0	703.6	714.8	719.0
72.5°	3280.8	1897.3	1040.1	827.9	742.7	656.2	615.7	612.9	594.7	594.7	594.7
74°	1968.5	1391.9	914.4	741.3	671.5	591.9	557.0	544.5	527.7	529.1	527.7
75°	1583.2	1196.4	839.0	684.1	621.3	554.2	519.3	502.6	490.0	490.0	488.6
77.5°	999.6	908.8	675.7	544.5	497.0	456.5	432.8	410.4	410.4	409.1	407.7
80°	755.3	723.2	526.3	411.8	381.1	350.4	335.1	325.3	325.3	329.5	328.1
82.5°	517.9	544.5	370.0	287.6	272.2	249.9	247.1	248.5	244.3	238.7	237.3
85°	378.3	409.1	249.9	181.5	166.1	152.2	163.3	168.9	161.9	149.4	143.8
87.5°	145.2	268.0	134.0	75.4	69.8	60.0	69.8	72.6	78.2	61.4	62.8
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)