

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: P319975

Luminaire Tested: **GAN-SA1D-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319975  
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-SA1D-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7029 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

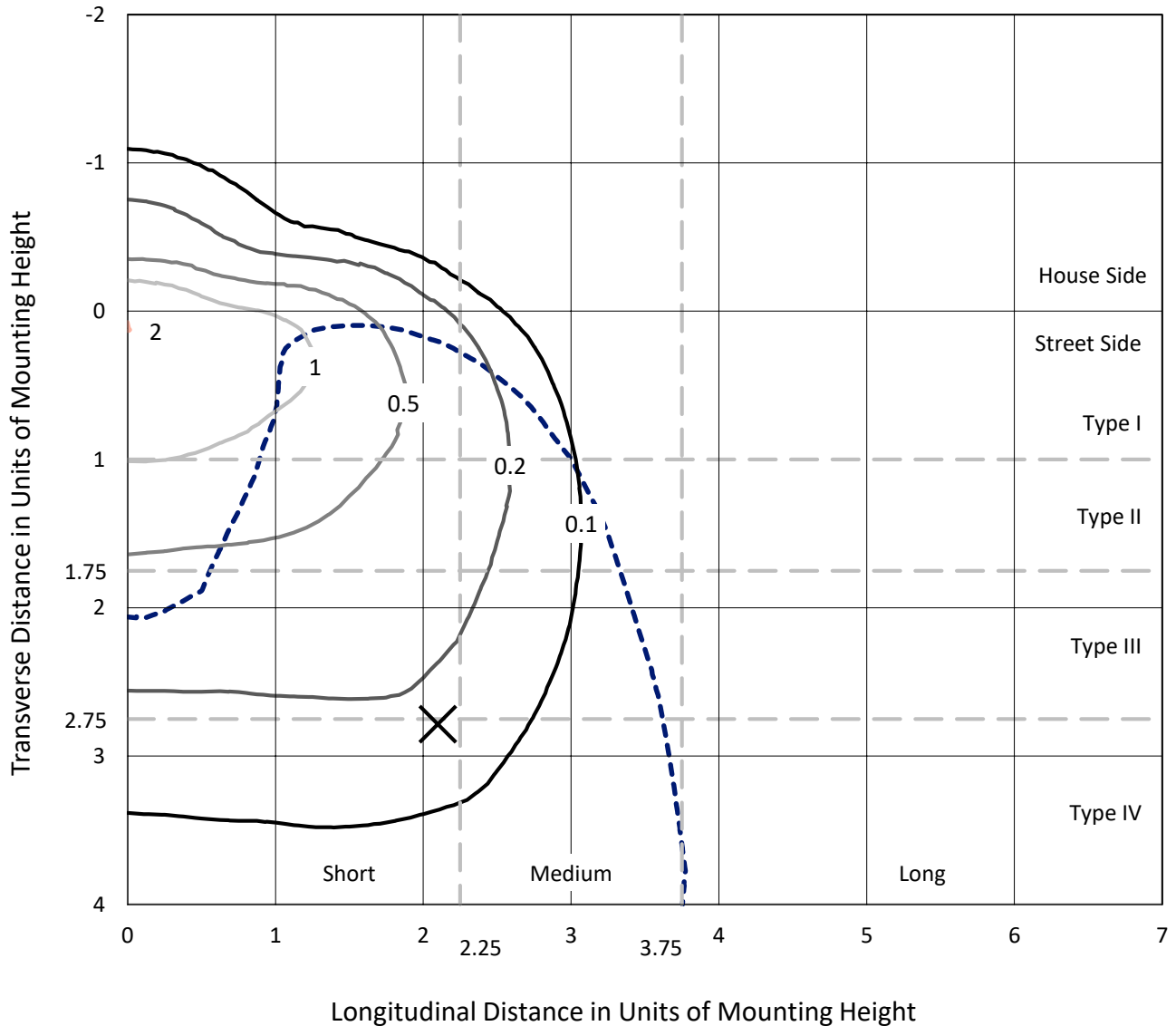
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

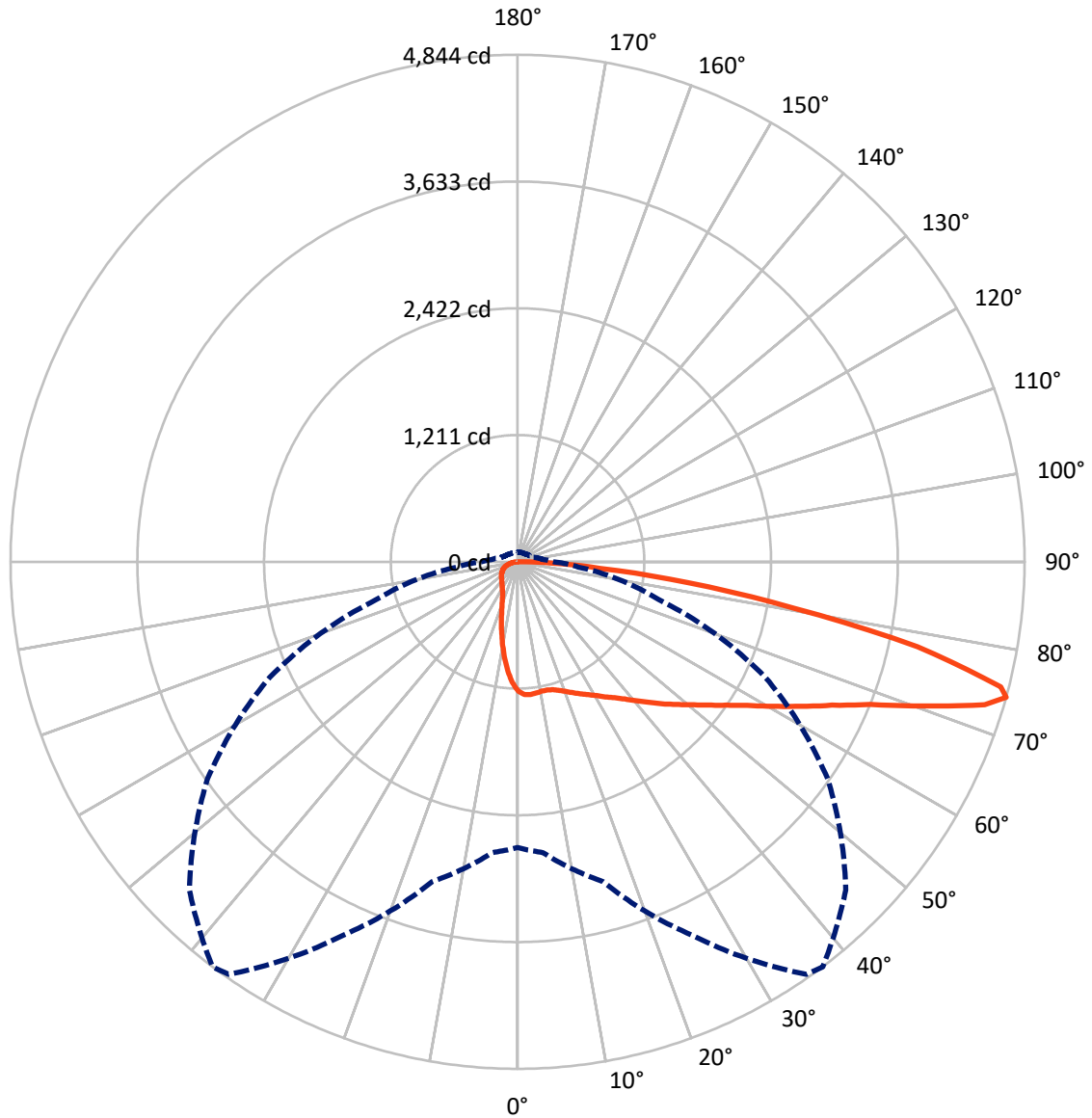
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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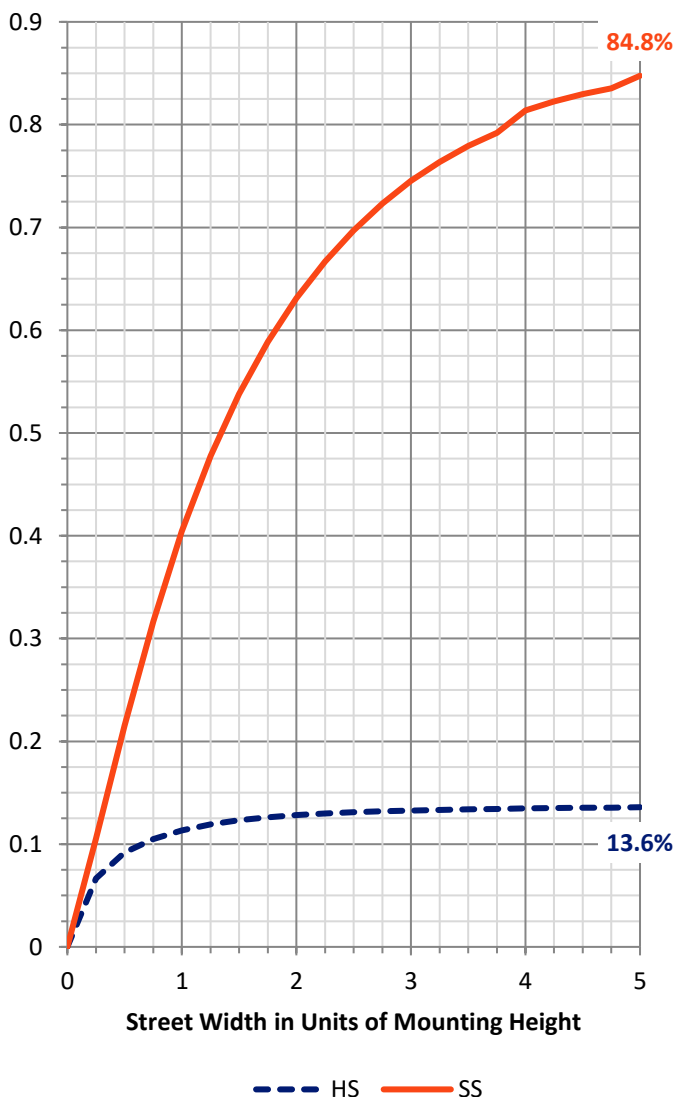
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	967.1	0.0	967.1
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	6061.9	0.0	6061.9
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	7029.0	0.0	7029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.1	1.6
10°-20°	279.6	4.0
20°-30°	430.7	6.1
30°-40°	626.4	8.9
40°-50°	921.9	13.1
50°-60°	1294.6	18.4
60°-70°	1638.6	23.3
70°-80°	1442.9	20.5
80°-90°	285.3	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°	7029.0	100.0
0°-180°	7029.0	100.0

**Coefficient of Utilization**

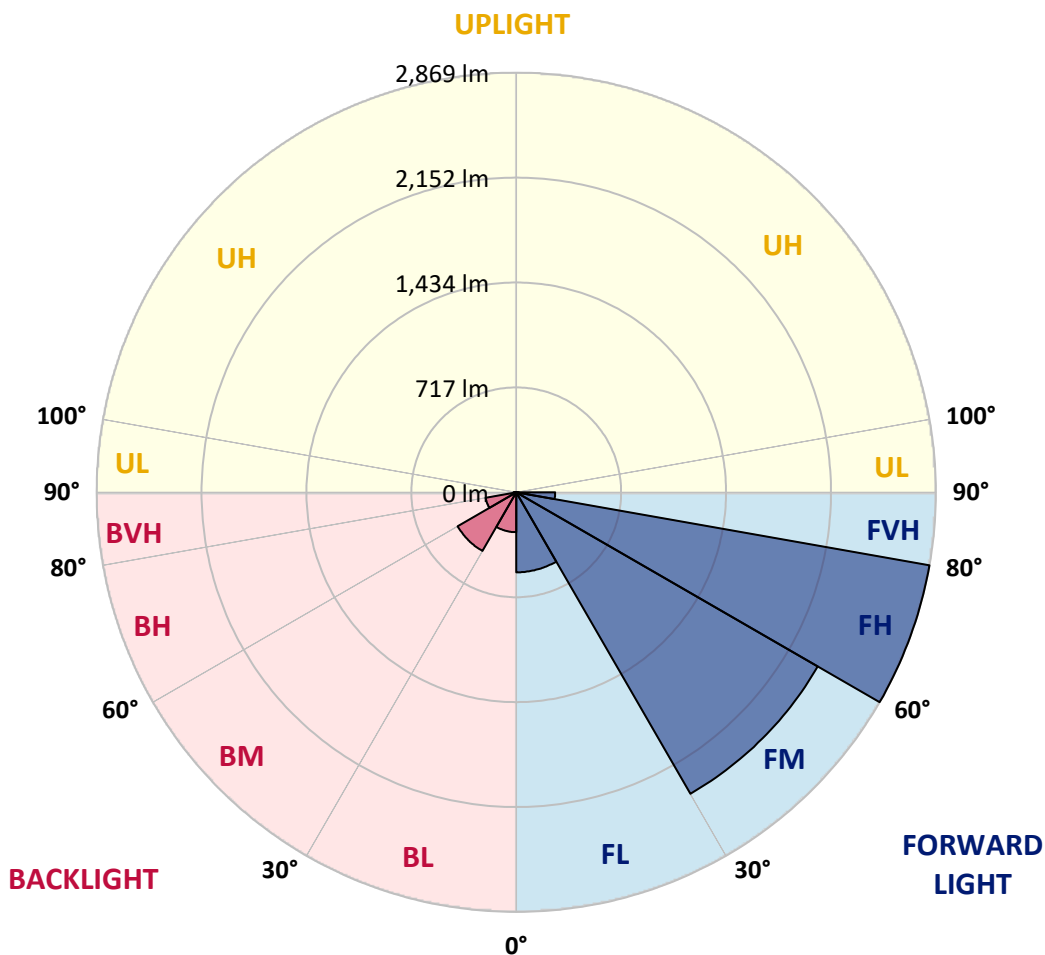


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 CATALOG NUMBER: GAN-SA1D-730-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	546.9	7.8			
FM (30°-60°)	2380.1	33.9			
FH (60°-80°)	2868.9	40.8			G2/5000
FVH (80°-90°)	266.0	3.8			G3/500
BL (0°-30°)	272.4	3.9	B1/500		
BM (30°-60°)	462.8	6.6	B1/1000		
BH (60°-80°)	212.6	3.0	B1/500		G1/500
BVH (80°-90°)	19.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5
2.5°	1280.8	1281.1	1280.8	1278.8	1274.1	1270.2	1267.0	1262.3	1251.9	1243.9	1232.0
5°	1293.0	1291.5	1290.5	1286.8	1279.3	1274.9	1268.7	1259.8	1242.7	1226.8	1207.5
7.5°	1287.3	1285.5	1283.3	1278.8	1270.4	1266.7	1258.0	1246.4	1225.9	1205.1	1177.3
10°	1269.7	1269.2	1268.2	1267.2	1260.0	1257.1	1249.1	1236.7	1216.4	1191.2	1158.8
12.5°	1250.1	1251.4	1255.3	1260.5	1257.3	1255.8	1250.9	1242.4	1221.6	1194.4	1155.3
15°	1237.7	1241.2	1251.9	1265.5	1268.2	1267.7	1266.5	1261.0	1239.0	1208.8	1163.2
17.5°	1233.5	1239.2	1259.5	1282.1	1290.0	1291.7	1292.2	1282.8	1258.3	1226.4	1171.4
20°	1241.2	1248.4	1278.1	1309.0	1321.7	1322.7	1320.4	1304.1	1276.6	1241.5	1175.8
22.5°	1264.5	1270.9	1308.1	1343.0	1357.3	1358.8	1352.1	1327.4	1295.9	1259.3	1182.0
25°	1309.3	1317.2	1354.4	1389.3	1396.7	1396.9	1387.3	1356.6	1321.2	1284.3	1195.4
27.5°	1367.7	1375.7	1409.1	1443.2	1439.3	1437.1	1423.9	1393.2	1354.1	1318.7	1219.2
30°	1432.8	1441.5	1473.2	1497.5	1488.1	1483.6	1473.0	1433.3	1399.9	1365.7	1255.6
32.5°	1500.2	1508.1	1535.8	1552.4	1540.6	1538.6	1522.5	1486.3	1459.6	1437.6	1314.5
35°	1569.3	1575.0	1602.2	1611.6	1595.8	1595.3	1590.8	1557.6	1540.8	1551.2	1400.2
37.5°	1639.8	1641.3	1664.6	1665.1	1660.4	1662.4	1667.1	1646.3	1651.0	1683.4	1511.6
40°	1702.7	1706.7	1723.5	1728.7	1736.9	1743.8	1767.4	1753.7	1790.1	1847.6	1650.2
42.5°	1749.3	1757.0	1783.9	1797.3	1823.8	1834.7	1867.9	1880.5	1953.8	2040.0	1815.1
45°	1788.6	1800.5	1843.9	1871.3	1916.2	1935.2	1982.8	2025.1	2138.7	2248.7	1988.7
47.5°	1831.2	1846.3	1900.6	1953.0	2014.0	2035.5	2121.9	2185.3	2336.1	2458.6	2152.4
50°	1893.9	1905.5	1958.5	2040.9	2117.0	2144.7	2264.3	2355.1	2536.6	2658.7	2294.2
52.5°	1981.3	1976.8	2021.6	2137.3	2239.3	2273.4	2416.3	2535.9	2739.9	2839.7	2414.1
55°	2069.2	2061.7	2093.2	2238.0	2381.9	2417.8	2583.7	2717.4	2933.3	3002.6	2505.9
57.5°	2167.0	2152.9	2179.4	2351.7	2544.3	2587.1	2771.1	2910.3	3123.4	3134.3	2564.4
60°	2267.7	2248.7	2278.4	2492.6	2750.6	2801.1	2990.5	3098.4	3302.7	3239.8	2583.2
62.5°	2355.9	2342.5	2388.3	2649.8	2983.1	3038.5	3205.9	3298.5	3479.5	3283.6	2515.3
65°	2432.9	2435.1	2514.4	2826.6	3242.3	3301.5	3453.0	3545.1	3618.6	3257.6	2356.6
67.5°	2524.8	2537.4	2672.6	3059.3	3568.6	3633.5	3812.5	3814.0	3696.4	3105.1	2044.2
70°	2658.7	2684.7	2890.2	3382.2	4032.6	4121.8	4259.9	3972.0	3587.2	2691.6	1608.4
72.5°	2777.5	2826.1	3121.7	3751.6	4598.1	4665.7	4521.6	3880.8	3130.9	2017.2	1002.0
74°	2729.3	2789.4	3163.8	3933.6	4811.1	4843.5	4433.2	3614.9	2610.4	1396.9	582.3
75°	2625.3	2690.6	3102.4	3931.8	4784.1	4766.0	4219.8	3311.1	2149.9	952.8	387.5
77.5°	2118.7	2187.8	2614.1	3369.8	3922.7	3905.6	3241.5	2221.2	941.6	312.5	196.8
80°	1231.8	1284.5	1622.8	2140.0	2645.1	2676.0	2131.8	1099.1	370.4	175.5	133.5
82.5°	547.2	583.6	783.9	1092.4	1596.3	1636.1	1116.4	575.9	228.8	106.7	80.2
85°	359.0	386.0	475.9	520.2	760.1	787.4	546.4	448.4	151.0	58.7	58.9
87.5°	258.2	284.2	353.6	308.8	348.9	330.3	297.4	415.0	60.7	33.4	19.8
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°	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5	1238.5
2.5°	1226.8	1222.9	1214.0	1197.1	1187.7	1179.8	1166.7	1159.0	1155.5	1155.3	1156.8
5°	1196.4	1187.2	1164.2	1136.0	1113.4	1092.9	1067.4	1052.0	1041.1	1034.7	1036.4
7.5°	1161.0	1146.6	1110.5	1065.4	1029.3	989.4	950.0	926.5	908.2	894.6	897.0
10°	1136.7	1116.9	1064.2	999.3	939.1	881.2	827.0	794.5	768.8	749.0	750.5
12.5°	1128.5	1101.8	1028.8	942.1	857.7	778.4	707.6	657.9	631.4	608.8	610.6
15°	1129.8	1093.9	999.1	890.6	784.4	684.6	598.7	540.5	504.6	489.0	489.3
17.5°	1130.8	1084.7	967.9	835.4	711.8	597.0	503.6	444.7	410.8	396.4	396.7
20°	1127.6	1069.9	929.2	772.0	636.1	516.5	426.1	376.1	350.4	339.2	339.2
22.5°	1123.3	1052.3	885.7	708.4	561.3	446.7	370.7	332.5	317.7	310.2	310.0
25°	1125.3	1039.2	841.1	643.0	492.5	391.0	333.8	308.5	298.6	293.9	293.7
27.5°	1136.0	1033.0	800.0	577.9	432.3	349.1	309.0	291.2	284.7	281.8	281.8
30°	1155.3	1033.0	757.2	522.4	382.3	318.2	289.9	277.8	273.3	271.4	271.4
32.5°	1189.0	1038.7	715.8	467.5	342.4	293.9	274.1	265.9	262.5	261.5	261.5
35°	1246.9	1058.0	675.4	415.5	310.2	274.1	259.0	254.3	251.8	251.6	252.3
37.5°	1328.4	1097.4	637.6	377.1	287.5	258.0	246.4	242.6	241.2	242.4	243.4
40°	1430.9	1150.8	603.1	342.4	270.1	245.1	234.7	232.2	231.5	233.2	234.7
42.5°	1554.7	1223.1	574.9	317.4	256.8	234.2	224.8	221.8	221.1	223.1	225.1
45°	1688.6	1300.9	555.1	298.9	246.4	226.1	216.2	212.9	211.4	212.4	214.7
47.5°	1810.4	1374.4	547.2	285.7	236.5	219.1	208.5	204.5	202.0	201.5	203.3
50°	1913.2	1429.1	550.9	277.8	228.5	211.4	201.0	196.6	192.9	190.7	191.9
52.5°	1988.0	1463.5	554.4	274.3	222.3	203.0	192.9	188.7	183.7	180.0	180.0
55°	2042.2	1471.5	546.7	271.6	217.6	193.9	183.7	179.8	174.8	170.6	170.1
57.5°	2063.5	1449.2	518.2	267.7	214.4	185.2	174.1	171.1	166.9	161.9	161.7
60°	2034.8	1380.4	463.3	259.2	210.2	178.0	164.4	162.4	160.4	155.7	155.5
62.5°	1919.4	1229.3	392.2	242.2	201.8	170.3	155.5	156.5	156.7	153.5	153.0
65°	1710.2	1021.8	322.9	219.9	189.2	161.2	146.3	151.0	153.8	153.3	152.5
67.5°	1406.1	795.3	273.6	196.3	172.6	148.6	136.4	141.9	144.1	145.8	145.3
70°	1043.6	560.8	226.3	171.6	152.5	133.7	123.6	126.3	124.8	126.8	127.5
72.5°	581.9	336.5	184.5	146.8	131.7	116.4	109.2	108.7	105.5	105.5	105.5
74°	349.1	246.9	162.2	131.5	119.1	105.0	98.8	96.6	93.6	93.8	93.6
75°	280.8	212.2	148.8	121.3	110.2	98.3	92.1	89.1	86.9	86.9	86.7
77.5°	177.3	161.2	119.8	96.6	88.1	81.0	76.8	72.8	72.8	72.5	72.3
80°	134.0	128.3	93.3	73.0	67.6	62.1	59.4	57.7	57.7	58.4	58.2
82.5°	91.9	96.6	65.6	51.0	48.3	44.3	43.8	44.1	43.3	42.3	42.1
85°	67.1	72.5	44.3	32.2	29.5	27.0	29.0	30.0	28.7	26.5	25.5
87.5°	25.8	47.5	23.8	13.4	12.4	10.6	12.4	12.9	13.9	10.9	11.1
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)