

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: LUMARK

Report Number: P961833

Luminaire Tested: **NAV-SB2B-722-U-SL4**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961833  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-722-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

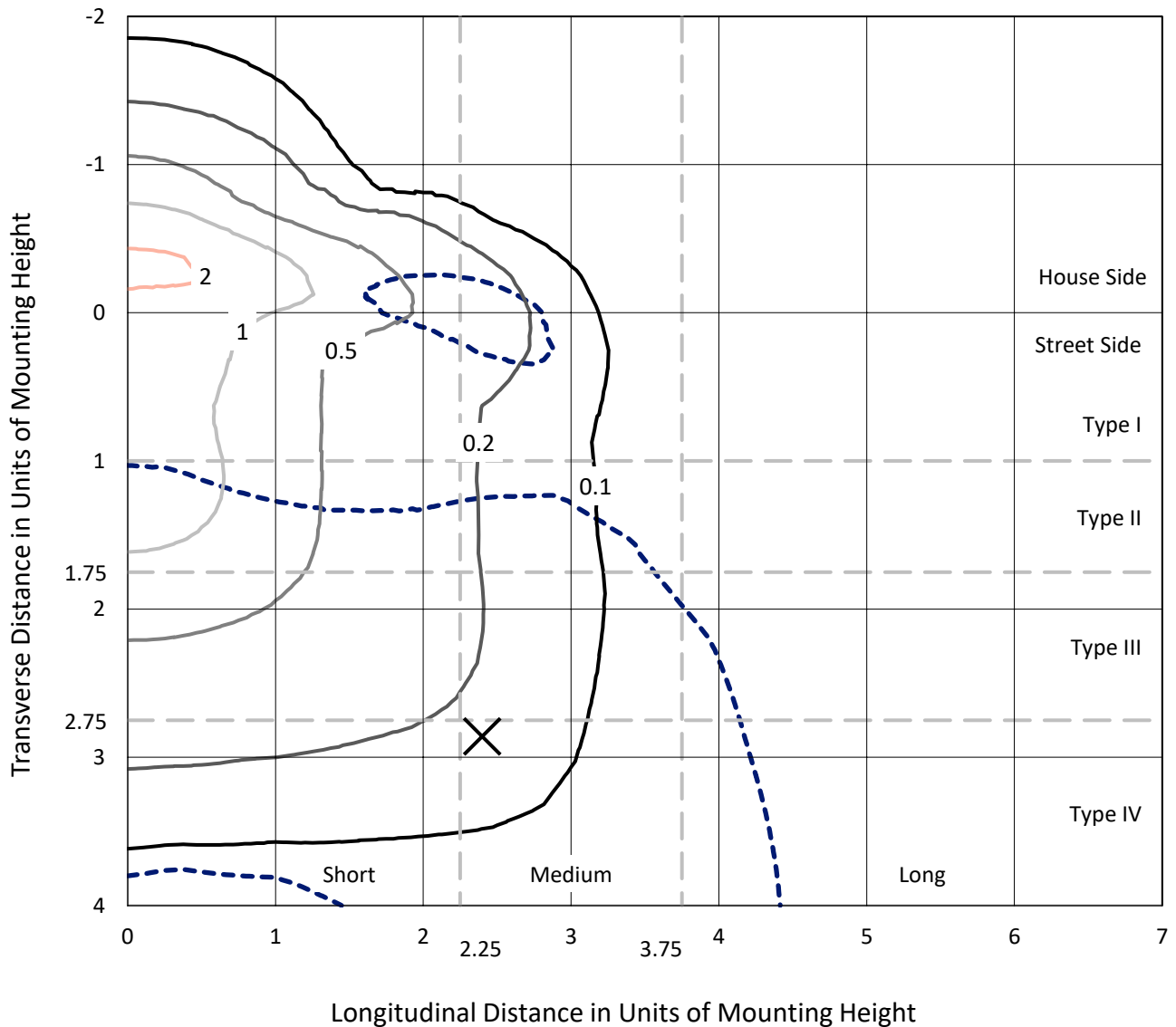
Lumens per Lamp: N/A  
Luminaire Lumens: 9451.5 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

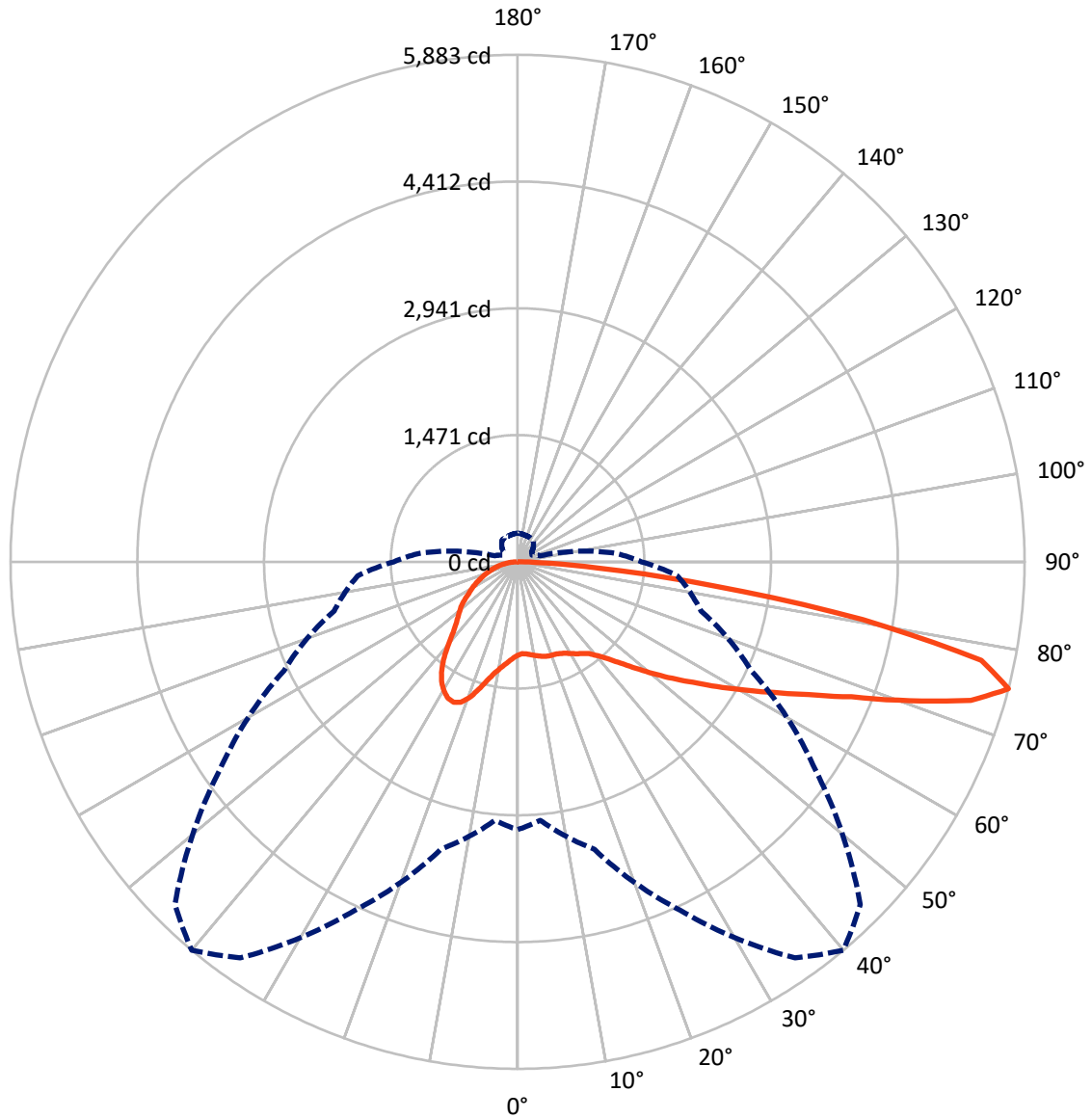
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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 CATALOG NUMBER: NAV-SB2B-722-U-SL4

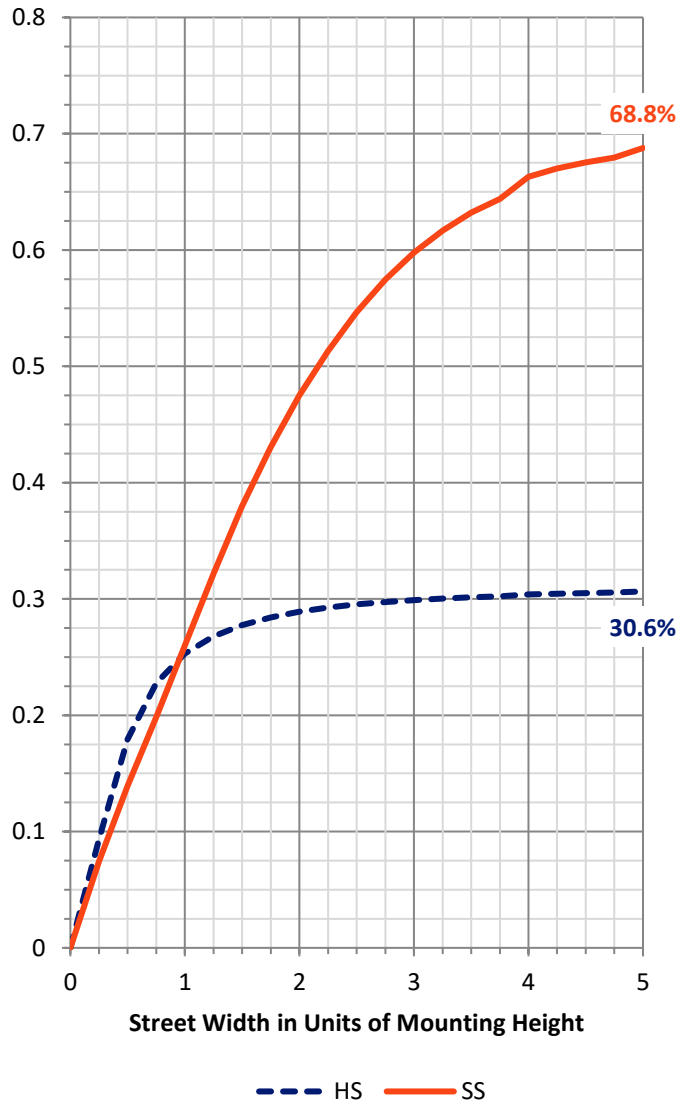
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2928.4	0.0	2928.4
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	6523.1	0.0	6523.1
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	9451.5	0.0	9451.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.9	1.1
10°-20°	362.2	3.8
20°-30°	661.4	7.0
30°-40°	938.0	9.9
40°-50°	1266.6	13.4
50°-60°	1703.9	18.0
60°-70°	2162.7	22.9
70°-80°	1962.7	20.8
80°-90°	286.1	3.0
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°	9451.5	100.0
0°-180°	9451.5	100.0

**Coefficient of Utilization**

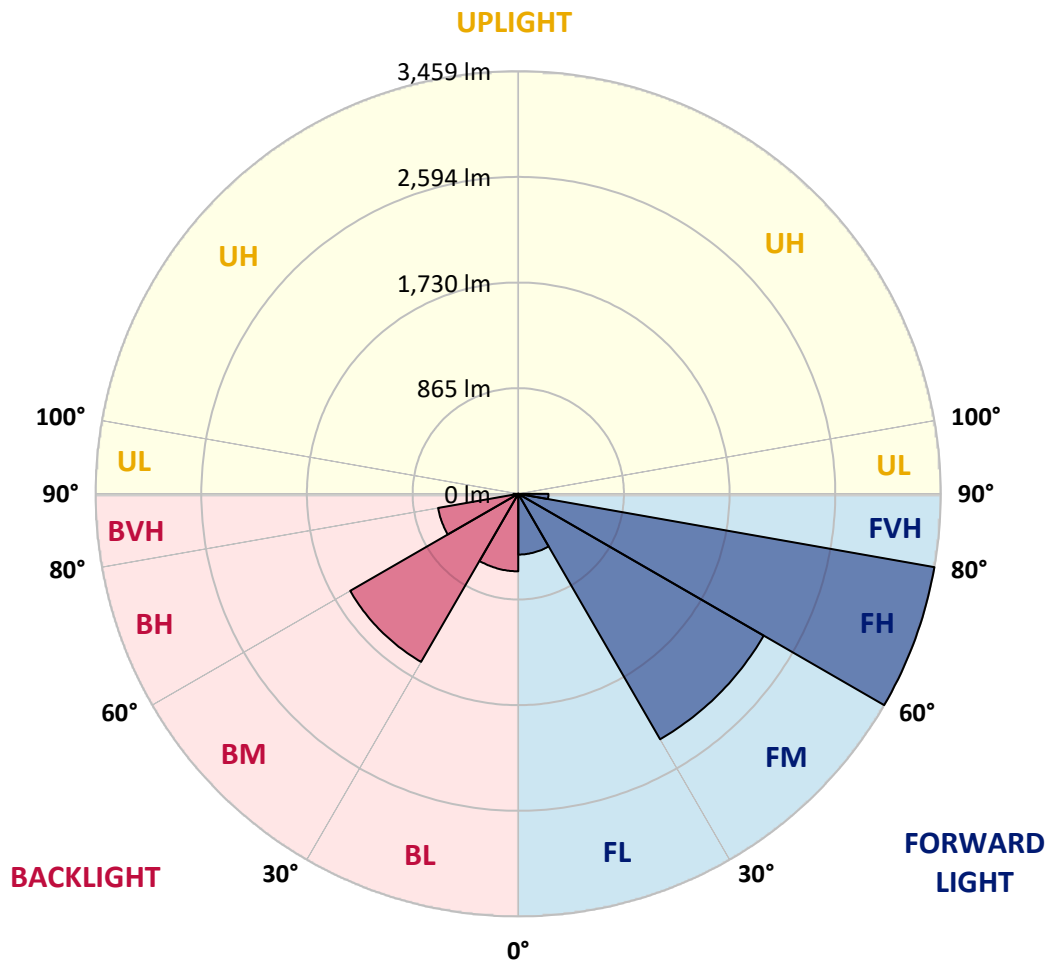


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 CATALOG NUMBER: NAV-SB2B-722-U-SL4

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	497.2	5.3			
FM (30°-60°)	2320.1	24.5			
FH (60°-80°)	3459.1	36.6			G2/5000
FVH (80°-90°)	246.7	2.6			G3/500
BL (0°-30°)	634.3	6.7	B2/1000		
BM (30°-60°)	1588.4	16.8	B2/2500		
BH (60°-80°)	666.3	7.0	B2/1000		G2/1000
BVH (80°-90°)	39.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1064.3	1070.3	1068.8	1066.7	1066.7	1067.2	1066.7	1070.3	1073.8	1077.3	1082.8
5°	1075.3	1081.3	1078.3	1075.7	1073.8	1073.3	1071.7	1071.2	1073.3	1077.8	1085.3
7.5°	1096.9	1102.9	1098.4	1093.8	1089.8	1087.8	1085.8	1082.8	1081.3	1083.8	1094.3
10°	1120.9	1126.9	1121.4	1113.4	1106.9	1104.3	1102.4	1099.3	1097.4	1098.8	1110.4
12.5°	1144.9	1151.0	1143.5	1132.4	1123.9	1122.4	1119.9	1118.9	1118.4	1117.9	1129.4
15°	1167.5	1172.5	1163.0	1149.9	1140.9	1138.5	1135.9	1137.4	1139.9	1143.0	1156.0
17.5°	1185.1	1190.1	1176.1	1159.0	1150.5	1149.4	1148.0	1153.0	1160.0	1167.5	1183.6
20°	1201.1	1206.1	1188.1	1165.0	1155.0	1155.0	1155.5	1166.0	1176.1	1187.1	1209.1
22.5°	1223.6	1227.6	1205.6	1174.0	1159.5	1160.5	1164.5	1175.1	1187.6	1202.6	1233.2
25°	1257.3	1260.2	1233.2	1191.0	1174.5	1177.5	1181.0	1186.0	1198.1	1215.6	1256.8
27.5°	1311.4	1313.9	1278.3	1221.2	1196.1	1201.1	1206.1	1202.6	1208.2	1223.1	1275.8
30°	1387.5	1389.1	1344.0	1268.2	1232.7	1235.2	1236.1	1221.7	1211.1	1223.1	1289.3
32.5°	1477.8	1477.3	1423.7	1325.4	1274.3	1271.8	1263.3	1234.7	1210.1	1220.7	1301.3
35°	1617.7	1612.1	1543.0	1405.7	1321.4	1305.8	1285.9	1249.3	1215.1	1218.1	1311.9
37.5°	1849.3	1832.2	1736.5	1537.0	1391.6	1352.0	1322.5	1272.7	1226.2	1217.2	1324.4
40°	2110.5	2089.0	1983.6	1717.0	1496.9	1433.2	1385.6	1306.4	1244.2	1221.7	1343.0
42.5°	2420.2	2389.7	2276.4	1928.9	1630.3	1538.0	1466.3	1349.0	1270.8	1236.1	1368.1
45°	2800.7	2760.1	2599.7	2168.1	1798.2	1675.4	1579.6	1413.7	1311.4	1264.2	1405.7
47.5°	3185.2	3195.2	2967.2	2441.9	1999.7	1844.8	1721.5	1511.0	1370.5	1309.3	1466.3
50°	3593.8	3600.8	3332.6	2745.1	2228.2	2036.3	1880.9	1619.7	1452.7	1373.6	1557.0
52.5°	3912.6	3913.7	3664.5	3062.4	2466.4	2246.8	2052.8	1744.0	1548.0	1458.8	1677.8
55°	4112.1	4109.6	3897.0	3362.7	2740.1	2467.9	2243.3	1885.4	1664.3	1559.0	1829.7
57.5°	4257.0	4249.4	4057.5	3620.8	3031.8	2729.1	2458.9	2045.8	1801.6	1678.3	2029.7
60°	4312.2	4307.7	4166.3	3844.0	3338.6	3017.8	2707.5	2225.3	1957.5	1819.2	2286.9
62.5°	4333.2	4341.7	4273.0	4060.0	3666.9	3337.6	2980.7	2439.8	2133.0	1978.7	2558.1
65°	4407.4	4423.0	4408.9	4342.7	4038.0	3712.1	3343.1	2694.9	2324.5	2149.5	2841.3
67.5°	4554.3	4569.9	4575.8	4681.1	4491.1	4178.8	3795.3	3012.8	2548.6	2327.1	3054.4
70°	4550.8	4546.3	4652.6	4950.3	5058.6	4825.0	4404.9	3403.8	2815.8	2474.4	3081.5
72.5°	4142.2	4106.2	4357.3	4947.3	5530.8	5499.7	5149.3	3908.1	3046.4	2492.5	2673.9
75°	3107.5	3011.2	3455.0	4458.5	5609.5	5882.7	5622.5	4221.0	2991.8	2202.2	1860.8
77.5°	1328.9	1232.2	1755.0	3300.5	5020.4	5499.2	5188.4	3682.5	2388.1	1456.2	913.9
80°	347.9	347.4	530.3	1496.4	3414.4	4061.0	3562.7	2378.1	1364.5	520.4	252.2
82.5°	143.9	140.3	195.0	582.0	1668.3	2278.9	1859.8	1060.8	492.8	140.8	83.7
85°	53.6	53.1	94.7	201.0	588.6	939.9	680.3	271.2	122.8	68.7	37.6
87.5°	15.1	14.6	20.6	69.7	143.4	217.6	116.3	44.6	34.5	27.1	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

REPORT NUMBER: P961833  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1084.3	1086.8	1091.3	1094.8	1099.3	1104.3	1111.4	1115.9	1120.4	1123.4	1121.4
5°	1088.9	1094.3	1105.9	1117.4	1130.9	1143.5	1158.0	1168.5	1177.0	1179.6	1180.6
7.5°	1098.8	1107.8	1127.4	1147.0	1168.5	1189.1	1210.1	1228.2	1242.7	1248.2	1248.8
10°	1116.4	1128.4	1156.0	1183.6	1212.2	1243.7	1270.8	1296.8	1317.4	1325.9	1326.5
12.5°	1138.5	1153.4	1189.6	1227.6	1267.3	1310.9	1346.0	1378.1	1403.6	1415.1	1415.1
15°	1167.1	1186.5	1232.7	1283.8	1341.9	1402.6	1447.2	1482.9	1511.4	1525.4	1524.5
17.5°	1198.1	1224.2	1282.3	1359.6	1442.7	1522.4	1574.6	1600.6	1630.3	1643.8	1643.3
20°	1228.2	1260.2	1343.5	1455.8	1566.5	1651.3	1693.4	1700.4	1702.4	1703.9	1708.0
22.5°	1259.2	1302.4	1420.1	1577.1	1695.9	1754.5	1760.5	1730.5	1688.4	1668.8	1674.3
25°	1293.3	1350.5	1520.4	1710.9	1807.2	1814.1	1768.0	1694.8	1615.2	1578.6	1584.1
27.5°	1326.5	1406.1	1640.7	1838.7	1887.3	1825.7	1726.5	1622.7	1526.4	1487.9	1492.4
30°	1359.6	1469.8	1773.6	1950.6	1923.9	1797.1	1660.8	1545.0	1448.2	1407.6	1412.1
32.5°	1393.1	1544.0	1926.5	2031.2	1917.5	1736.5	1579.1	1457.8	1372.6	1329.9	1335.5
35°	1431.2	1635.2	2071.3	2075.3	1873.8	1647.3	1471.3	1353.5	1279.3	1245.2	1252.8
37.5°	1480.8	1751.0	2199.1	2086.4	1797.6	1516.4	1337.4	1230.2	1169.0	1153.4	1164.5
40°	1542.5	1890.4	2296.9	2068.9	1684.9	1357.5	1191.0	1105.4	1070.8	1074.3	1086.3
42.5°	1622.7	2046.3	2365.6	2023.8	1528.0	1193.6	1062.7	1024.7	1041.2	1055.2	1068.3
45°	1726.9	2208.3	2408.2	1947.0	1350.5	1054.7	987.1	996.1	1008.6	1010.1	1020.2
47.5°	1860.3	2372.2	2436.3	1831.3	1169.5	956.9	938.9	941.0	938.4	927.9	935.9
50°	2026.7	2531.5	2461.3	1677.8	1015.7	895.8	871.8	864.7	830.1	796.0	800.5
52.5°	2216.3	2677.9	2471.9	1487.4	895.8	844.7	805.5	761.5	696.8	686.2	689.8
55°	2426.8	2813.3	2444.8	1253.3	795.1	779.0	719.9	666.8	659.7	650.7	652.2
57.5°	2678.4	2959.2	2389.7	992.1	691.8	702.3	644.6	650.7	638.2	624.1	621.6
60°	2953.6	3110.1	2292.9	754.0	585.0	606.6	625.1	624.6	621.2	609.6	605.6
62.5°	3201.3	3209.3	2102.5	577.5	491.3	532.4	583.0	582.5	579.5	573.0	570.5
65°	3348.7	3194.3	1784.6	454.7	414.1	471.2	525.8	529.8	530.3	529.8	529.8
67.5°	3322.6	3018.3	1348.5	361.9	350.4	409.1	469.2	474.7	478.8	479.7	480.7
70°	3027.8	2631.8	879.2	288.7	293.8	354.4	415.5	421.1	424.6	428.7	430.6
72.5°	2360.1	1935.0	503.3	233.6	244.2	307.3	362.4	369.0	370.9	378.4	381.5
75°	1438.2	1138.0	271.7	184.0	200.5	262.7	309.8	317.3	320.8	329.8	330.9
77.5°	683.8	492.8	154.9	143.4	161.4	214.5	261.7	270.2	260.7	265.7	261.7
80°	231.1	183.0	97.8	109.3	123.3	167.4	209.5	218.0	198.0	197.0	195.0
82.5°	80.7	74.2	62.1	72.7	79.7	119.8	158.4	169.4	147.4	146.9	139.9
85°	31.6	30.0	34.5	39.6	47.7	73.7	104.2	109.8	90.7	73.2	72.2
87.5°	6.6	7.0	8.5	9.0	14.6	25.5	37.6	46.1	36.6	31.1	28.6
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)