

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: P962081

Luminaire Tested: **NVN-SB2B-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962081
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: STREETWORKS
Catalog Number: NVN-SB2B-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

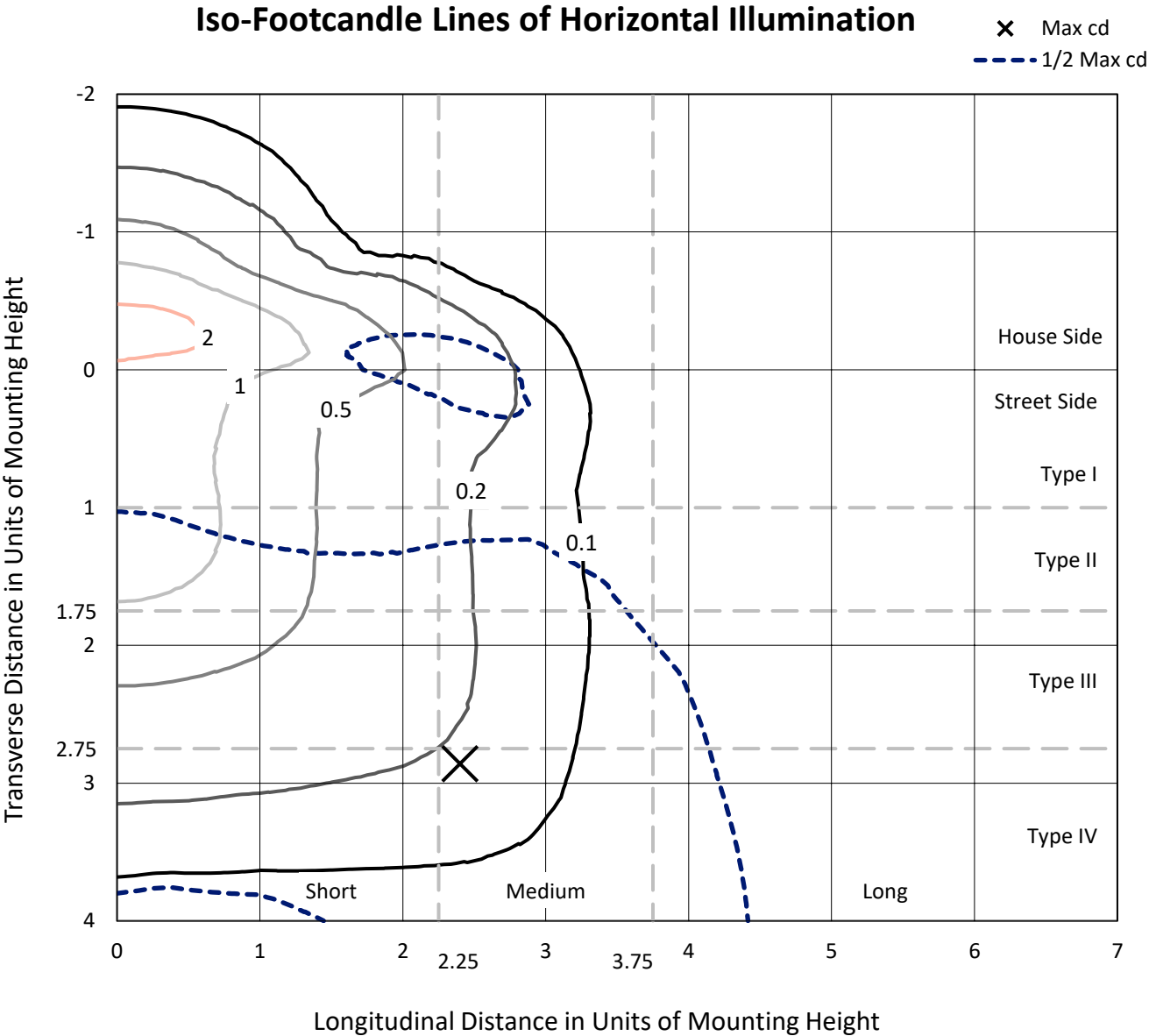
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10280.7 lumens
Efficiency: N/A
Efficacy: 139.1 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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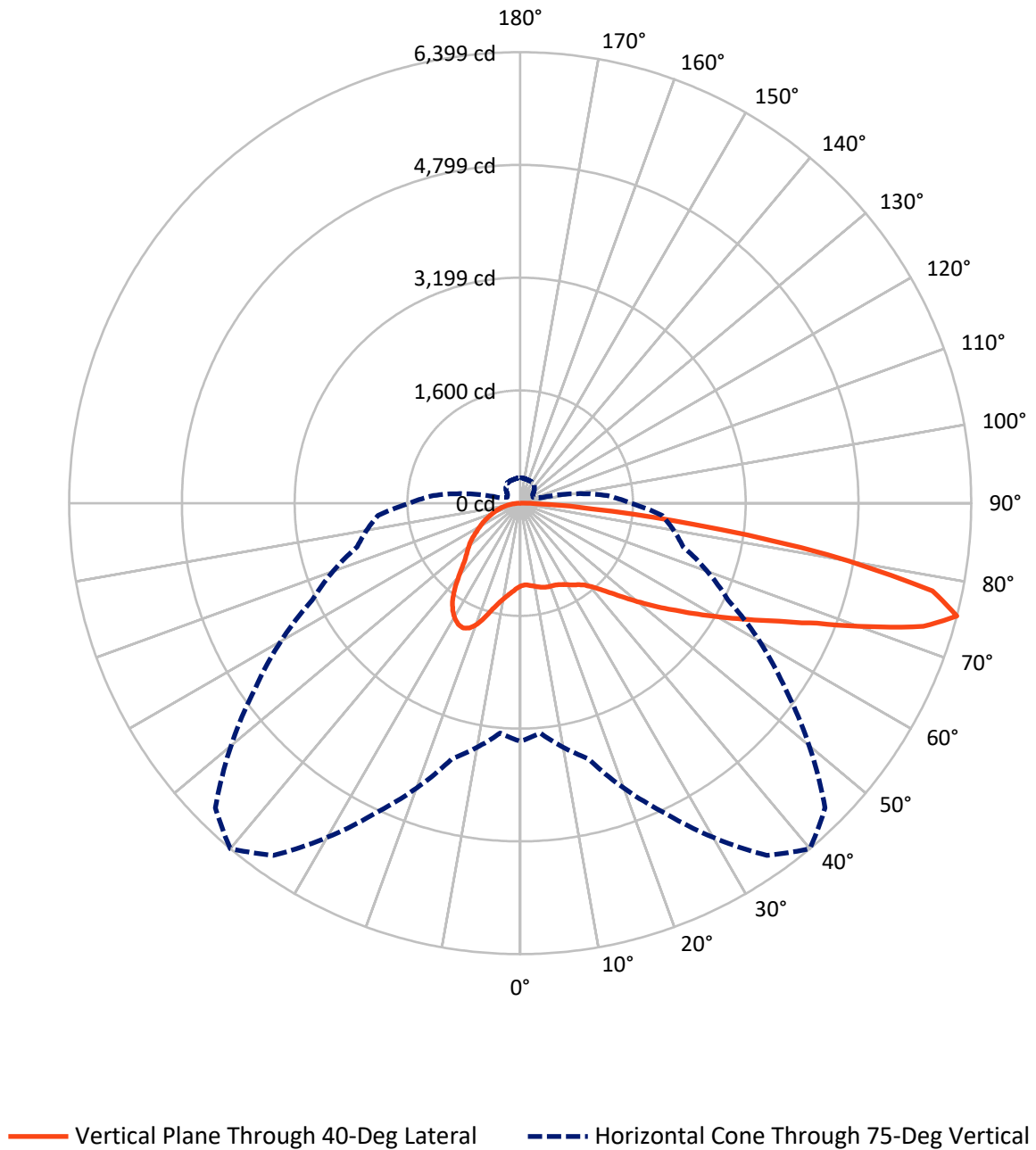


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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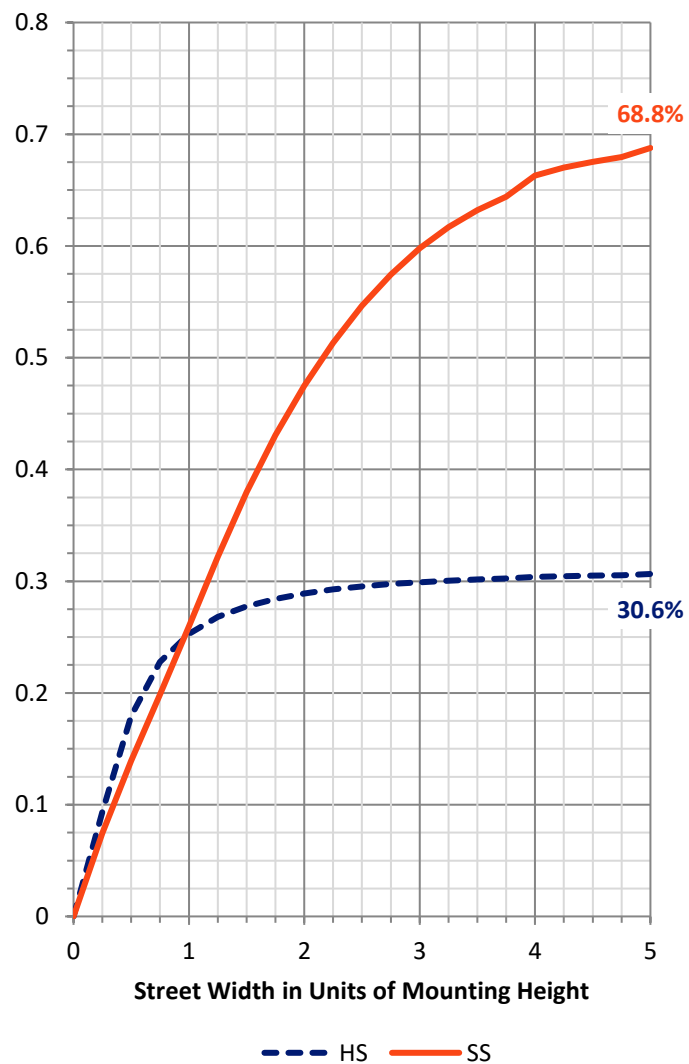
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3185.3	0.0	3185.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7095.4	0.0	7095.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	10280.7	0.0	10280.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	1.1
10°-20°	394.0	3.8
20°-30°	719.4	7.0
30°-40°	1020.3	9.9
40°-50°	1377.7	13.4
50°-60°	1853.4	18.0
60°-70°	2352.4	22.9
70°-80°	2134.9	20.8
80°-90°	311.2	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°	10280.7	100.0
0°-180°	10280.7	100.0

Coefficient of Utilization



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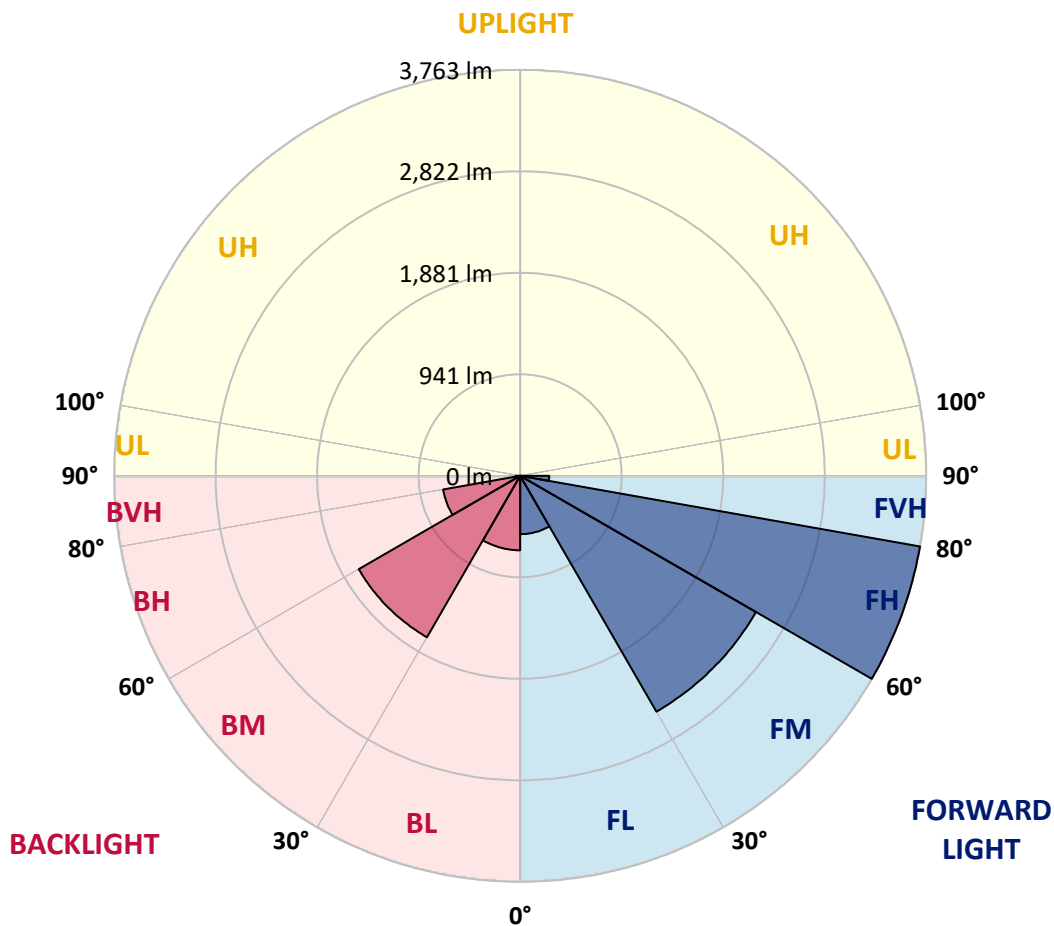
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.8	5.3			
FM	(30°-60°)	2523.7	24.5			
FH	(60°-80°)	3762.6	36.6			G2/5000
FVH	(80°-90°)	268.4	2.6			G3/500
BL	(0°-30°)	690.0	6.7	B2/1000		
BM	(30°-60°)	1727.8	16.8	B2/2500		
BH	(60°-80°)	724.8	7.0	B2/1000		G2/1000
BVH	(80°-90°)	42.8	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°	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6
2.5°	1157.6	1164.2	1162.6	1160.3	1160.3	1160.9	1160.3	1164.2	1168.0	1171.8	1177.8
5°	1169.6	1176.2	1172.9	1170.1	1168.0	1167.5	1165.8	1165.2	1167.5	1172.4	1180.5
7.5°	1193.1	1199.7	1194.7	1189.8	1185.4	1183.3	1181.1	1177.8	1176.2	1178.9	1190.3
10°	1219.2	1225.8	1219.8	1211.0	1204.0	1201.2	1199.0	1195.8	1193.6	1195.3	1207.8
12.5°	1245.4	1251.9	1243.7	1231.7	1222.5	1220.9	1218.1	1217.1	1216.5	1216.0	1228.5
15°	1270.0	1275.4	1265.1	1250.9	1241.1	1238.3	1235.6	1237.3	1239.9	1243.2	1257.4
17.5°	1289.0	1294.5	1279.2	1260.6	1251.4	1250.3	1248.7	1254.1	1261.8	1270.0	1287.4
20°	1306.5	1311.9	1292.3	1267.2	1256.3	1256.3	1256.9	1268.3	1279.2	1291.2	1315.2
22.5°	1331.1	1335.4	1311.4	1277.0	1261.3	1262.3	1266.7	1278.2	1291.8	1308.1	1341.4
25°	1367.6	1370.8	1341.4	1295.6	1277.6	1280.8	1284.6	1290.2	1303.2	1322.2	1367.0
27.5°	1426.5	1429.2	1390.4	1328.3	1301.0	1306.5	1311.9	1308.1	1314.2	1330.4	1387.7
30°	1509.3	1511.0	1461.9	1379.5	1340.8	1343.6	1344.7	1328.8	1317.4	1330.4	1402.4
32.5°	1607.5	1606.9	1548.6	1441.7	1386.1	1383.3	1374.1	1343.1	1316.3	1327.8	1415.5
35°	1759.6	1753.6	1678.3	1529.0	1437.4	1420.4	1398.6	1358.8	1321.7	1325.0	1427.0
37.5°	2011.6	1993.0	1888.9	1671.8	1513.7	1470.6	1438.5	1384.5	1333.7	1323.9	1440.6
40°	2295.6	2272.2	2157.6	1867.5	1628.2	1558.9	1507.2	1421.0	1353.4	1328.8	1460.8
42.5°	2632.6	2599.3	2476.1	2098.3	1773.2	1672.9	1594.9	1467.4	1382.3	1344.7	1488.1
45°	3046.5	3002.3	2827.8	2358.3	1955.9	1822.3	1718.2	1537.7	1426.5	1375.1	1529.0
47.5°	3464.7	3475.6	3227.5	2656.1	2175.2	2006.6	1872.5	1643.5	1490.8	1424.2	1594.9
50°	3909.0	3916.7	3625.0	2985.9	2423.7	2214.9	2045.9	1761.8	1580.2	1494.0	1693.6
52.5°	4255.9	4256.9	3986.0	3331.1	2682.7	2443.9	2232.9	1897.1	1683.8	1586.8	1825.0
55°	4472.9	4470.2	4239.0	3657.7	2980.5	2684.4	2440.1	2050.8	1810.4	1695.9	1990.2
57.5°	4630.5	4622.3	4413.4	3938.6	3297.8	2968.5	2674.6	2225.3	1959.7	1825.6	2207.8
60°	4690.5	4685.6	4531.8	4181.2	3631.6	3282.6	2945.0	2420.4	2129.3	1978.8	2487.6
62.5°	4713.4	4722.7	4648.0	4416.2	3988.7	3630.4	3242.2	2653.8	2320.2	2152.2	2782.6
65°	4794.0	4810.9	4795.7	4723.7	4392.2	4037.8	3636.5	2931.4	2528.5	2338.1	3090.6
67.5°	4953.8	4970.7	4977.3	5091.8	4885.2	4545.5	4128.3	3277.1	2772.2	2531.1	3322.3
70°	4950.0	4945.1	5060.7	5384.6	5502.4	5248.3	4791.4	3702.4	3062.8	2691.4	3351.9
72.5°	4505.6	4466.3	4739.5	5381.4	6016.0	5982.2	5601.1	4251.0	3313.6	2711.1	2908.5
75°	3380.1	3275.5	3758.1	4849.7	6101.6	6398.9	6115.9	4591.3	3254.2	2395.4	2024.1
77.5°	1445.6	1340.3	1909.1	3590.1	5461.0	5981.7	5643.6	4005.6	2597.7	1584.0	994.0
80°	378.4	377.9	576.9	1627.7	3713.9	4417.3	3875.3	2586.8	1484.2	566.0	274.3
82.5°	156.5	152.7	212.1	633.0	1814.7	2478.9	2022.9	1153.8	536.0	153.2	91.0
85°	58.3	57.8	103.0	218.6	640.1	1022.4	739.9	295.0	133.6	74.7	40.9
87.5°	16.4	15.8	22.3	75.7	155.9	236.7	126.5	48.5	37.6	29.4	12.0
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°	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6	1175.6
2.5°	1179.5	1182.1	1187.1	1190.8	1195.8	1201.2	1208.9	1213.8	1218.7	1222.0	1219.8
5°	1184.4	1190.3	1202.8	1215.4	1230.1	1243.7	1259.6	1271.0	1280.3	1283.0	1284.1
7.5°	1195.3	1205.1	1226.3	1247.6	1271.0	1293.4	1316.3	1335.9	1351.8	1357.7	1358.3
10°	1214.3	1227.4	1257.4	1287.4	1318.5	1352.8	1382.3	1410.6	1432.9	1442.3	1442.8
12.5°	1238.3	1254.7	1294.0	1335.4	1378.4	1425.9	1464.1	1499.0	1526.7	1539.3	1539.3
15°	1269.4	1290.7	1340.8	1396.5	1459.7	1525.7	1574.2	1612.9	1644.0	1659.3	1658.1
17.5°	1303.2	1331.6	1394.8	1478.8	1569.3	1656.0	1712.7	1741.1	1773.2	1788.0	1787.4
20°	1335.9	1370.8	1461.3	1583.5	1704.0	1796.1	1841.9	1849.6	1851.8	1853.4	1857.7
22.5°	1369.7	1416.7	1544.8	1715.4	1844.7	1908.4	1915.0	1882.3	1836.5	1815.3	1821.2
25°	1406.8	1468.9	1653.8	1861.0	1965.7	1973.3	1923.2	1843.6	1756.8	1717.1	1723.0
27.5°	1442.8	1529.5	1784.7	2000.1	2053.0	1985.9	1877.9	1765.0	1660.4	1618.4	1623.3
30°	1478.8	1598.8	1929.2	2121.6	2092.7	1954.8	1806.5	1680.6	1575.3	1531.1	1536.1
32.5°	1515.4	1679.5	2095.5	2209.5	2085.7	1888.9	1717.6	1585.7	1493.0	1446.6	1452.6
35°	1556.8	1778.7	2253.1	2257.5	2038.2	1791.8	1600.4	1472.2	1391.5	1354.4	1362.6
37.5°	1610.8	1904.7	2392.1	2269.5	1955.4	1649.4	1454.8	1338.1	1271.6	1254.7	1266.7
40°	1677.8	2056.3	2498.4	2250.4	1832.7	1476.6	1295.6	1202.3	1164.7	1168.5	1181.6
42.5°	1765.0	2225.8	2573.2	2201.3	1662.0	1298.3	1156.0	1114.6	1132.5	1147.8	1161.9
45°	1878.5	2402.0	2619.5	2117.9	1468.9	1147.3	1073.7	1083.4	1097.1	1098.7	1109.7
47.5°	2023.6	2580.2	2650.0	1991.9	1272.1	1040.9	1021.3	1023.5	1020.8	1009.3	1018.0
50°	2204.6	2753.7	2677.3	1825.0	1104.7	974.4	948.2	940.6	903.0	865.9	870.8
52.5°	2410.7	2912.8	2688.8	1617.9	974.4	918.8	876.3	828.3	757.9	746.5	750.3
55°	2639.7	3060.1	2659.4	1363.1	864.8	847.4	783.0	725.2	717.6	707.8	709.4
57.5°	2913.5	3218.8	2599.3	1079.1	752.5	763.9	701.2	707.8	694.1	678.9	676.2
60°	3212.8	3382.9	2494.1	820.1	636.3	659.8	680.0	679.4	675.6	663.1	658.7
62.5°	3482.1	3490.8	2286.9	628.1	534.3	579.1	634.2	633.7	630.4	623.3	620.5
65°	3642.4	3474.5	1941.1	494.6	450.4	512.6	571.9	576.4	576.9	576.4	576.4
67.5°	3614.0	3283.1	1466.8	393.7	381.2	445.0	510.3	516.4	520.7	521.8	523.0
70°	3293.4	2862.7	956.4	314.1	319.5	385.5	452.0	458.1	461.9	466.2	468.4
72.5°	2567.2	2104.7	547.5	254.1	265.6	334.3	394.2	401.3	403.5	411.6	414.9
75°	1564.4	1237.8	295.5	200.1	218.1	285.8	337.0	345.1	349.0	358.7	359.9
77.5°	743.7	536.0	168.5	155.9	175.6	233.4	284.6	293.9	283.5	288.9	284.6
80°	251.3	199.1	106.3	118.9	134.2	182.1	228.0	237.2	215.4	214.3	212.1
82.5°	87.7	80.7	67.6	79.0	86.7	130.3	172.3	184.3	160.3	159.8	152.1
85°	34.3	32.7	37.6	43.0	51.8	80.2	113.5	119.4	98.7	79.6	78.5
87.5°	7.1	7.6	9.2	9.8	15.8	27.8	40.9	50.1	39.8	33.8	31.1
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)