

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: P961461

Luminaire Tested: **NAV-SB2A-750-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961461
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-SB2A-750-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9643.2 lumens
Efficiency: N/A
Efficacy: 168.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

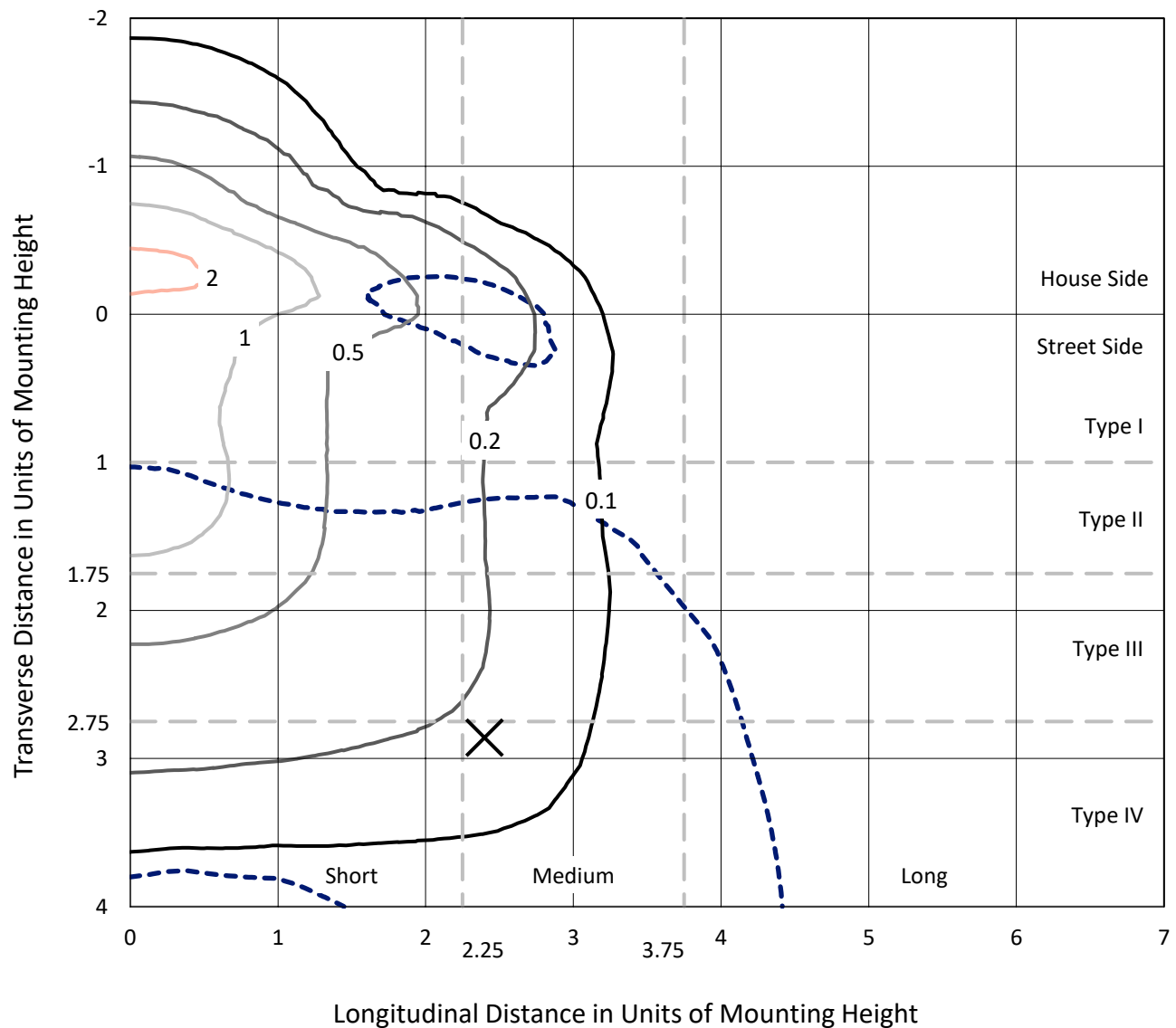
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

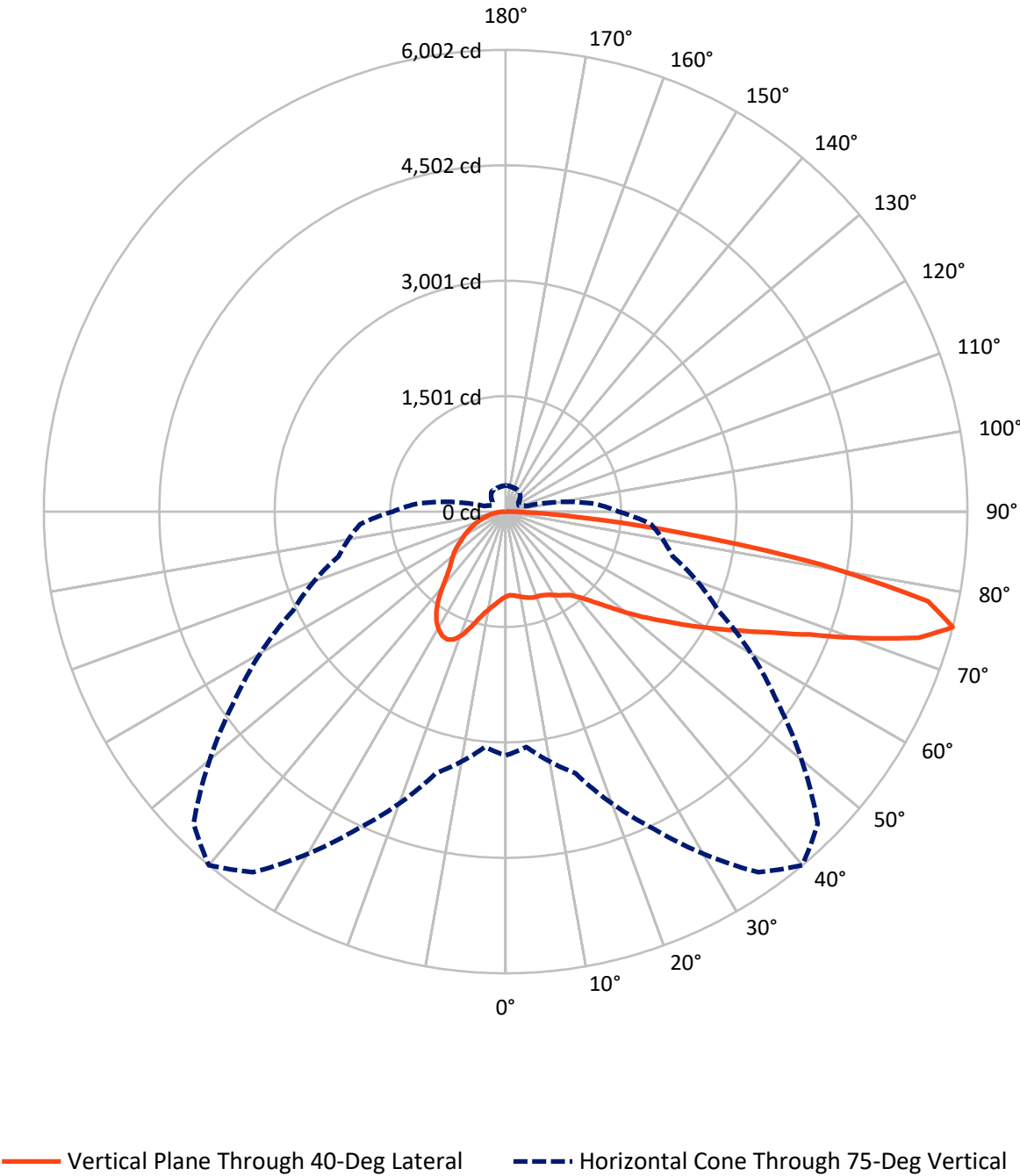
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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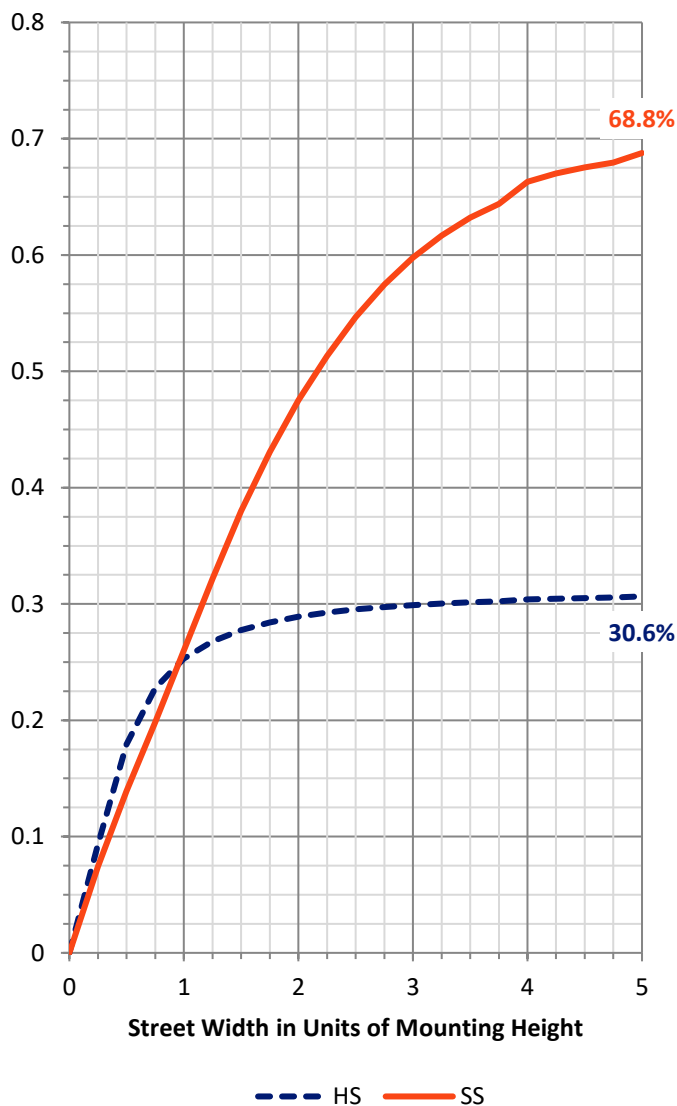
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2987.8	0.0	2987.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	6655.4	0.0	6655.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	9643.2	0.0	9643.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	1.1
10°-20°	369.6	3.8
20°-30°	674.8	7.0
30°-40°	957.0	9.9
40°-50°	1292.3	13.4
50°-60°	1738.5	18.0
60°-70°	2206.5	22.9
70°-80°	2002.6	20.8
80°-90°	291.9	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°	9643.2	100.0
0°-180°	9643.2	100.0

Coefficient of Utilization



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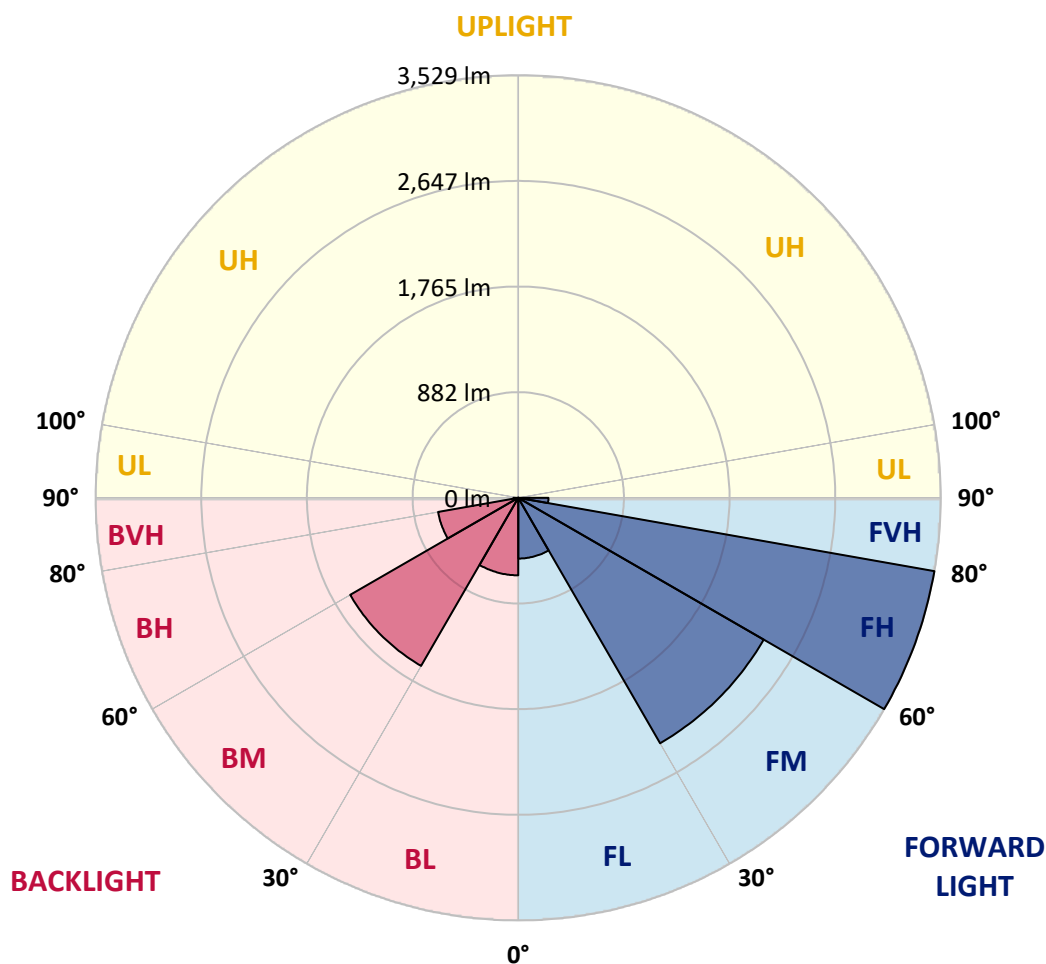
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.2	5.3			
FM	(30°-60°)	2367.2	24.5			
FH	(60°-80°)	3529.3	36.6			G2/5000
FVH	(80°-90°)	251.7	2.6			G3/500
BL	(0°-30°)	647.2	6.7	B2/1000		
BM	(30°-60°)	1620.6	16.8	B2/2500		
BH	(60°-80°)	679.8	7.0	B2/1000		G2/1000
BVH	(80°-90°)	40.2	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°	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7
2.5°	1085.9	1091.9	1090.4	1088.3	1088.3	1088.9	1088.3	1091.9	1095.5	1099.1	1104.7
5°	1097.1	1103.2	1100.1	1097.6	1095.5	1095.0	1093.5	1093.0	1095.0	1099.6	1107.3
7.5°	1119.1	1125.2	1120.6	1116.0	1111.9	1109.9	1107.8	1104.7	1103.2	1105.8	1116.5
10°	1143.6	1149.7	1144.1	1136.0	1129.3	1126.8	1124.7	1121.7	1119.6	1121.1	1132.9
12.5°	1168.2	1174.3	1166.7	1155.4	1146.7	1145.1	1142.6	1141.5	1141.0	1140.5	1152.3
15°	1191.2	1196.3	1186.6	1173.3	1164.1	1161.5	1159.0	1160.5	1163.1	1166.1	1179.5
17.5°	1209.1	1214.2	1199.9	1182.5	1173.8	1172.8	1171.3	1176.4	1183.6	1191.2	1207.6
20°	1225.5	1230.6	1212.2	1188.6	1178.4	1178.4	1179.0	1189.6	1199.9	1211.1	1233.7
22.5°	1248.4	1252.6	1230.1	1197.8	1183.1	1184.1	1188.1	1198.8	1211.7	1227.0	1258.2
25°	1282.8	1285.9	1258.2	1215.2	1198.3	1201.4	1205.0	1210.1	1222.4	1240.2	1282.3
27.5°	1338.0	1340.5	1304.2	1245.9	1220.4	1225.5	1230.6	1227.0	1232.7	1247.9	1301.6
30°	1415.7	1417.3	1371.2	1294.0	1257.7	1260.2	1261.3	1246.4	1235.7	1247.9	1315.5
32.5°	1507.8	1507.3	1452.5	1352.3	1300.1	1297.5	1288.8	1259.7	1234.7	1245.4	1327.8
35°	1650.5	1644.8	1574.3	1434.2	1348.2	1332.4	1311.9	1274.6	1239.7	1242.8	1338.5
37.5°	1886.8	1869.4	1771.7	1568.1	1419.8	1379.4	1349.2	1298.6	1251.0	1241.8	1351.3
40°	2153.2	2131.3	2023.9	1751.7	1527.2	1462.3	1413.7	1332.9	1269.5	1246.4	1370.2
42.5°	2469.3	2438.2	2322.5	1968.1	1663.3	1569.2	1496.0	1376.4	1296.5	1261.3	1395.7
45°	2857.5	2816.1	2652.4	2212.1	1834.6	1709.3	1611.6	1442.3	1338.0	1289.9	1434.2
47.5°	3249.9	3260.0	3027.3	2491.4	2040.3	1882.2	1756.3	1541.5	1398.3	1336.0	1496.0
50°	3666.6	3673.8	3400.2	2800.8	2273.4	2077.6	1919.0	1652.5	1482.3	1401.4	1588.6
52.5°	3992.0	3993.0	3738.8	3124.5	2516.4	2292.4	2094.5	1779.4	1579.4	1488.4	1711.9
55°	4195.5	4193.0	3976.1	3430.9	2795.7	2517.9	2288.8	1923.6	1698.0	1590.7	1866.8
57.5°	4343.3	4335.6	4139.8	3694.3	3093.3	2784.4	2508.7	2087.3	1838.2	1712.4	2070.9
60°	4399.6	4395.0	4250.8	3921.9	3406.4	3079.0	2762.4	2270.4	1997.2	1856.1	2333.3
62.5°	4421.0	4429.7	4359.7	4142.3	3741.4	3405.4	3041.2	2489.3	2176.3	2018.7	2610.0
65°	4496.8	4512.7	4498.3	4430.8	4119.8	3787.4	3410.9	2749.7	2371.6	2193.2	2899.0
67.5°	4646.6	4662.5	4668.7	4776.0	4582.2	4263.6	3872.2	3073.9	2600.3	2374.2	3116.3
70°	4643.0	4638.4	4746.9	5050.7	5161.2	4922.9	4494.2	3472.8	2872.9	2524.6	3144.0
72.5°	4226.2	4189.4	4445.6	5047.6	5642.9	5611.3	5253.7	3987.4	3108.1	2543.0	2728.1
75°	3170.5	3072.3	3525.0	4549.0	5723.3	6002.0	5736.5	4306.5	3052.4	2246.9	1898.5
77.5°	1355.9	1257.2	1790.7	3367.4	5122.3	5610.7	5293.6	3757.2	2436.6	1485.8	932.4
80°	355.0	354.4	541.1	1526.7	3483.6	4143.4	3635.0	2426.4	1392.2	530.8	257.3
82.5°	146.8	143.2	199.0	593.8	1702.1	2325.1	1897.5	1082.3	502.8	143.7	85.4
85°	54.7	54.2	96.7	205.1	600.4	959.0	694.0	276.8	125.4	70.1	38.3
87.5°	15.4	14.9	21.0	71.1	146.3	222.0	118.7	45.5	35.3	27.6	11.3
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°	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7
2.5°	1106.3	1108.8	1113.5	1117.0	1121.7	1126.8	1134.0	1138.5	1143.1	1146.2	1144.1
5°	1110.9	1116.5	1128.3	1140.0	1153.8	1166.7	1181.5	1192.2	1200.9	1203.5	1204.5
7.5°	1121.1	1130.4	1150.3	1170.2	1192.2	1213.2	1234.7	1253.1	1267.9	1273.6	1274.1
10°	1139.0	1151.3	1179.5	1207.6	1236.8	1268.9	1296.5	1323.2	1344.1	1352.8	1353.3
12.5°	1161.5	1176.9	1213.7	1252.6	1292.9	1337.5	1373.3	1406.0	1432.1	1443.8	1443.8
15°	1190.6	1210.6	1257.7	1309.8	1369.2	1431.1	1476.6	1512.9	1542.0	1556.4	1555.3
17.5°	1222.4	1249.0	1308.3	1387.1	1472.0	1553.3	1606.5	1633.1	1663.3	1677.1	1676.6
20°	1253.1	1285.9	1370.7	1485.3	1598.3	1684.8	1727.7	1734.9	1737.0	1738.5	1742.6
22.5°	1284.8	1328.8	1448.9	1609.0	1730.3	1790.2	1796.2	1765.6	1722.6	1702.6	1708.3
25°	1319.6	1377.9	1551.2	1745.6	1843.9	1850.9	1803.9	1729.3	1647.9	1610.6	1616.2
27.5°	1353.3	1434.7	1674.0	1876.1	1925.7	1862.7	1761.5	1655.6	1557.4	1518.0	1522.6
30°	1387.1	1499.6	1809.5	1990.1	1963.0	1833.6	1694.4	1576.3	1477.6	1436.2	1440.7
32.5°	1421.4	1575.3	1965.5	2072.4	1956.3	1771.7	1611.1	1487.4	1400.4	1356.9	1362.5
35°	1460.2	1668.4	2113.3	2117.4	1911.8	1680.7	1501.1	1381.0	1305.2	1270.5	1278.2
37.5°	1510.8	1786.6	2243.8	2128.7	1834.1	1547.1	1364.6	1255.1	1192.7	1176.9	1188.1
40°	1573.8	1928.7	2343.6	2110.8	1719.0	1385.1	1215.2	1127.8	1092.4	1096.0	1108.3
42.5°	1655.6	2087.8	2413.6	2064.8	1558.9	1217.8	1084.3	1045.4	1062.3	1076.7	1089.9
45°	1762.0	2253.0	2457.0	1986.6	1377.9	1076.1	1007.1	1016.3	1029.1	1030.6	1040.8
47.5°	1898.0	2420.2	2485.7	1868.4	1193.2	976.4	958.0	960.0	957.5	946.7	954.9
50°	2067.8	2582.9	2511.2	1711.9	1036.2	914.0	889.4	882.3	847.0	812.2	816.8
52.5°	2261.1	2732.2	2522.0	1517.5	914.0	861.8	821.9	776.9	710.9	700.2	703.8
55°	2476.0	2870.3	2494.4	1278.7	811.2	794.8	734.4	680.3	673.1	663.9	665.4
57.5°	2732.8	3019.1	2438.2	1012.2	705.8	716.6	657.7	663.9	651.1	636.7	634.2
60°	3013.5	3173.1	2339.5	769.3	596.9	618.9	637.8	637.2	633.7	622.0	617.9
62.5°	3266.2	3274.4	2145.1	589.2	501.2	543.1	594.8	594.3	591.2	584.6	582.0
65°	3416.5	3259.0	1820.8	463.9	422.5	480.7	536.5	540.6	541.1	540.6	540.6
67.5°	3390.0	3079.5	1375.9	369.3	357.5	417.4	478.8	484.3	488.4	489.4	490.5
70°	3089.2	2685.2	897.1	294.6	299.7	361.6	424.0	429.6	433.2	437.3	439.3
72.5°	2407.9	1974.3	513.5	238.3	249.1	313.5	369.8	376.5	378.5	386.1	389.2
75°	1467.4	1161.0	277.3	187.7	204.6	268.0	316.1	323.8	327.4	336.5	337.5
77.5°	697.6	502.8	158.1	146.3	164.7	218.9	267.0	275.7	266.0	271.1	267.0
80°	235.7	186.7	99.7	111.5	125.9	170.9	213.8	222.5	202.0	201.0	199.0
82.5°	82.3	75.7	63.4	74.2	81.3	122.3	161.6	172.9	150.4	149.9	142.7
85°	32.2	30.6	35.3	40.4	48.6	75.2	106.4	112.0	92.6	74.7	73.7
87.5°	6.7	7.2	8.7	9.2	14.9	26.0	38.3	47.0	37.3	31.7	29.1
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)