

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: P960980

Luminaire Tested: **NAV-SB1D-760-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-760-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11046.4 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

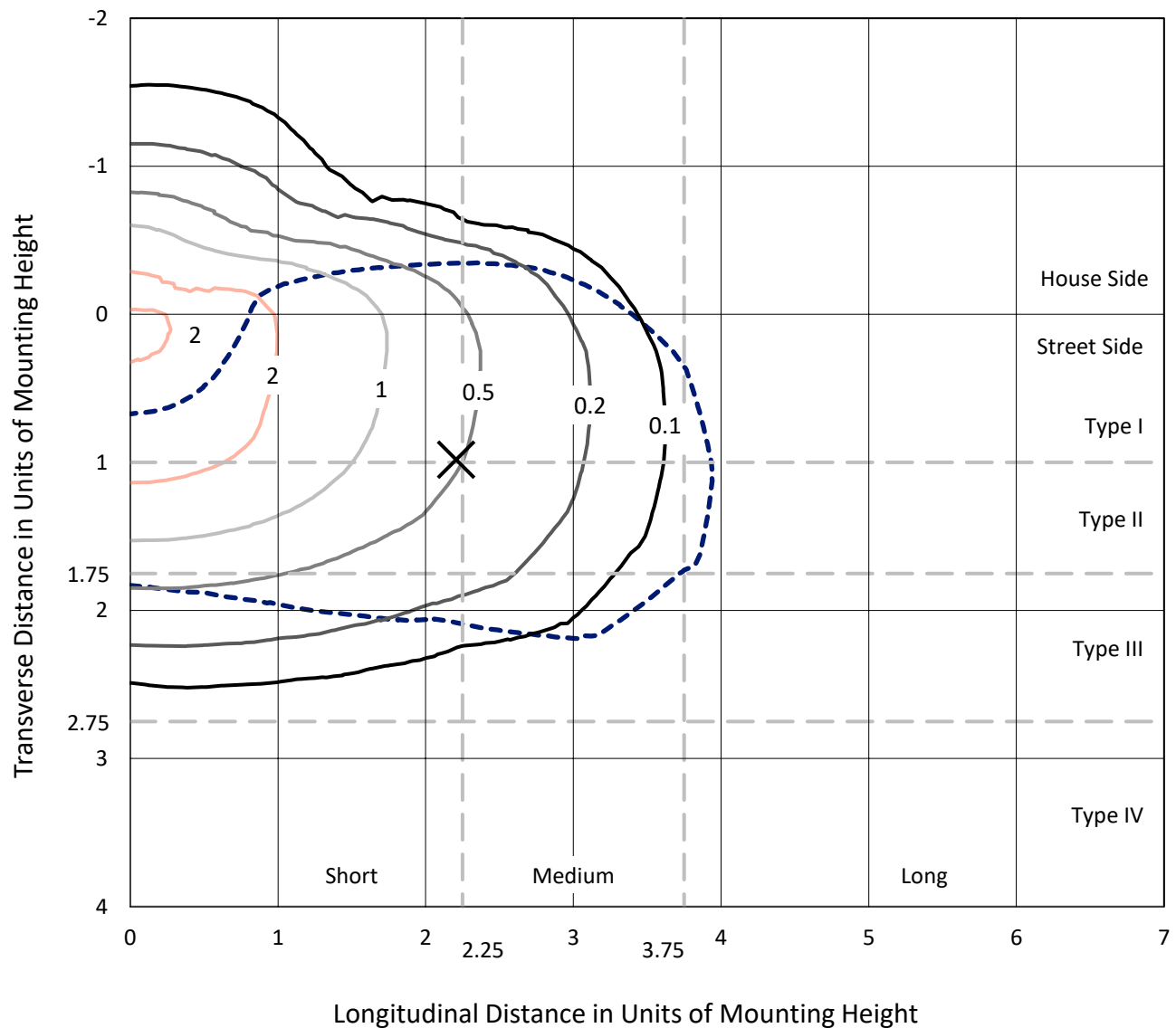
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

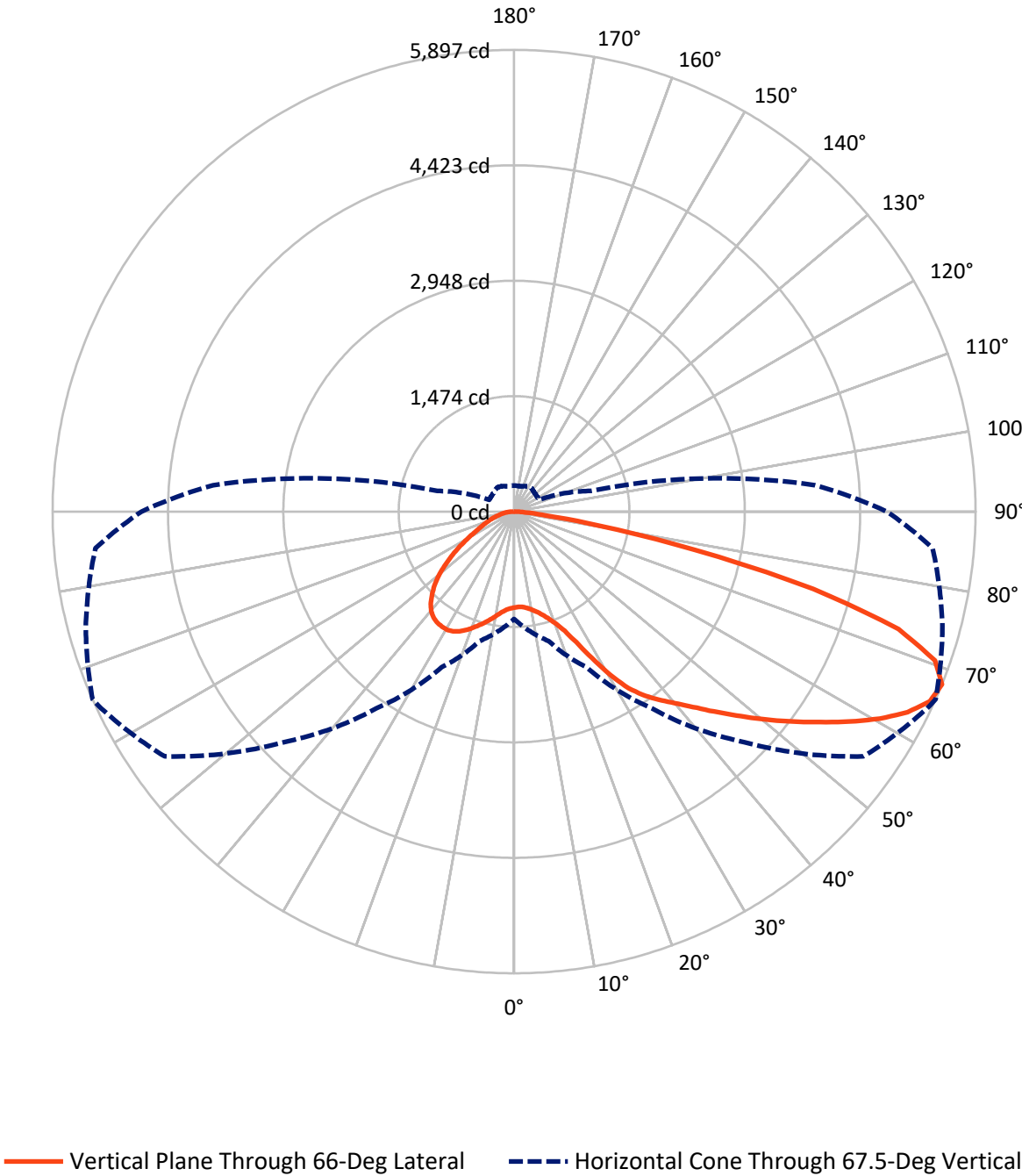
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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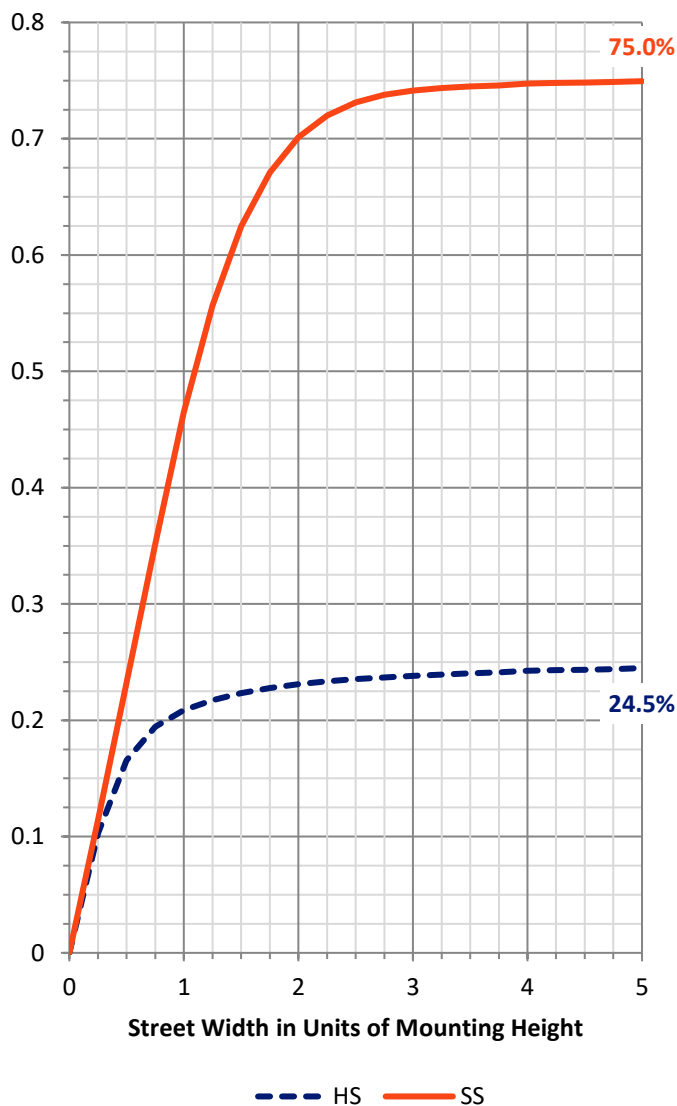
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2746.7	0.0	2746.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	8299.8	0.0	8299.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	11046.4	0.0	11046.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	1.1
10°-20°	401.3	3.6
20°-30°	773.5	7.0
30°-40°	1356.3	12.3
40°-50°	2016.4	18.3
50°-60°	2556.0	23.1
60°-70°	2500.9	22.6
70°-80°	1193.0	10.8
80°-90°	127.5	1.2
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°	11046.4	100.0
0°-180°	11046.4	100.0

Coefficient of Utilization



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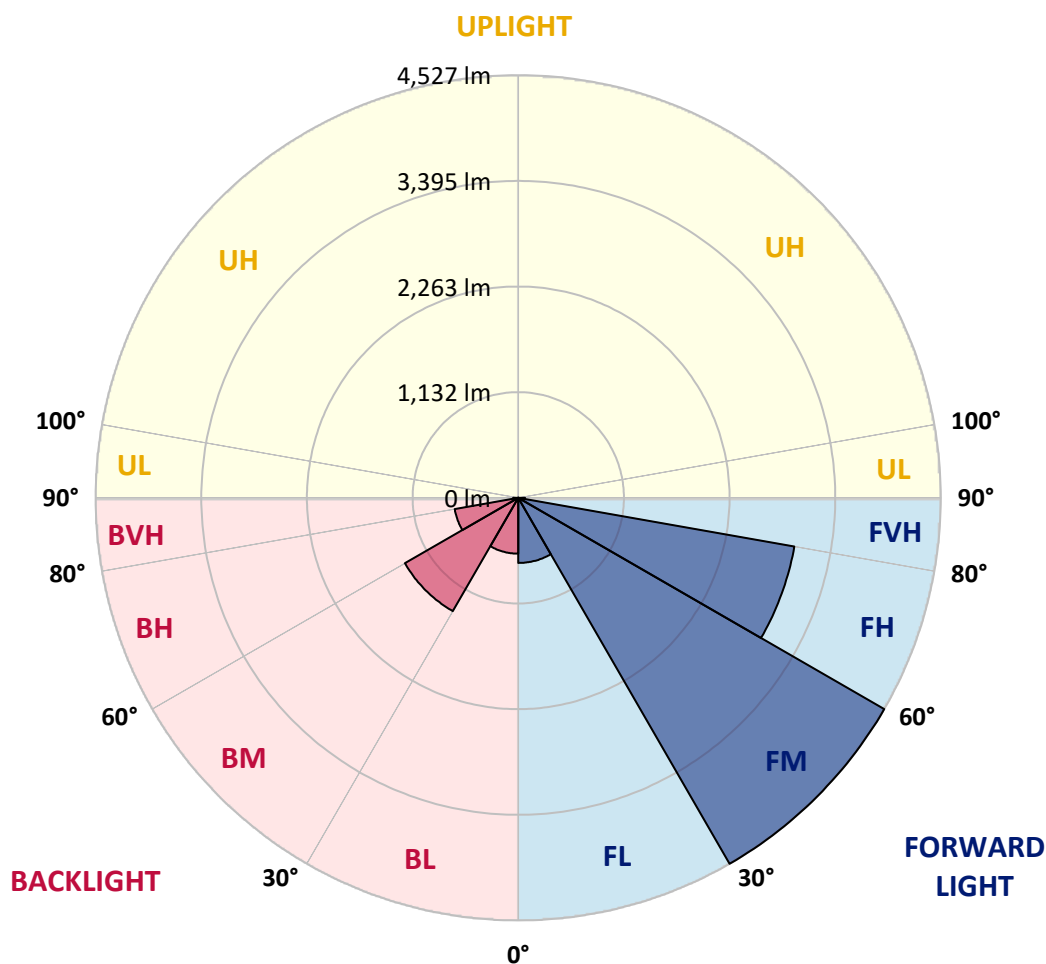
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.0	6.3			
FM	(30°-60°)	4526.7	41.0			
FH	(60°-80°)	3002.7	27.2			G2/5000
FVH	(80°-90°)	72.3	0.7			G1/100
BL	(0°-30°)	598.3	5.4	B2/1000		
BM	(30°-60°)	1401.9	12.7	B2/2500		
BH	(60°-80°)	691.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	55.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1212.5	1219.3	1217.7	1214.7	1214.2	1215.3	1217.1	1218.8	1218.2	1221.1	1225.8
5°	1209.0	1216.0	1215.3	1215.3	1217.7	1222.3	1225.2	1228.1	1225.2	1228.7	1235.0
7.5°	1211.2	1216.5	1218.8	1221.1	1226.9	1235.6	1242.6	1249.0	1245.5	1249.6	1257.7
10°	1240.9	1245.0	1247.2	1247.2	1251.3	1261.2	1268.1	1279.7	1276.8	1283.2	1293.7
12.5°	1294.9	1298.9	1298.9	1296.6	1299.5	1305.8	1308.2	1320.9	1315.7	1326.1	1336.6
15°	1361.0	1369.1	1362.7	1358.6	1359.9	1366.2	1365.6	1375.6	1370.3	1379.0	1388.3
17.5°	1434.2	1444.5	1434.2	1433.6	1431.2	1438.2	1438.8	1447.5	1438.2	1444.5	1451.0
20°	1520.6	1535.1	1526.4	1529.3	1524.1	1527.0	1529.9	1542.6	1528.2	1532.8	1531.0
22.5°	1642.5	1659.9	1650.7	1661.6	1658.1	1655.9	1655.3	1677.9	1655.3	1657.0	1640.2
25°	1820.1	1841.0	1824.7	1839.8	1839.8	1847.4	1856.1	1885.1	1847.4	1836.4	1792.8
27.5°	2082.4	2103.3	2071.4	2080.6	2077.8	2096.3	2087.1	2159.1	2118.4	2100.4	2012.8
30°	2398.2	2435.3	2374.9	2372.6	2369.7	2399.3	2412.6	2460.2	2419.0	2401.1	2295.4
32.5°	2739.4	2778.3	2706.3	2685.4	2674.4	2692.4	2681.4	2719.7	2691.2	2663.4	2532.8
35°	3100.4	3138.8	3070.3	3029.6	2985.5	2947.8	2908.3	2918.2	2891.5	2849.1	2713.9
37.5°	3441.6	3512.0	3439.4	3395.8	3314.5	3240.8	3130.6	3084.7	3059.8	3020.9	2884.6
40°	3789.3	3829.4	3774.3	3737.2	3648.9	3533.4	3357.0	3260.0	3226.4	3188.7	3073.2
42.5°	4045.3	4083.6	4054.0	4028.5	3959.4	3825.3	3597.2	3476.0	3427.2	3384.9	3286.8
45°	4248.4	4276.8	4258.3	4267.6	4238.0	4108.0	3846.2	3707.5	3657.0	3605.3	3528.2
47.5°	4330.2	4360.5	4390.1	4445.2	4495.6	4399.9	4113.7	3958.2	3904.8	3852.1	3776.0
50°	4321.0	4351.7	4437.6	4554.9	4711.6	4679.6	4395.8	4225.3	4175.8	4115.5	4045.3
52.5°	4246.7	4281.5	4391.8	4586.8	4836.4	4889.1	4683.1	4500.9	4454.4	4382.5	4312.3
55°	4051.7	4072.5	4238.0	4514.2	4866.0	5035.4	4964.6	4794.5	4748.1	4647.8	4571.1
57.5°	3690.1	3720.2	3961.1	4318.6	4791.7	5134.6	5211.8	5103.4	5058.7	4914.2	4834.0
60°	3218.2	3266.4	3542.1	3990.1	4602.5	5134.1	5436.5	5406.9	5369.8	5176.5	5092.9
62.5°	2684.3	2740.0	3005.2	3525.8	4271.7	4988.4	5576.9	5661.1	5641.9	5418.5	5311.7
65°	2061.5	2099.8	2364.0	2925.1	3756.8	4675.5	5593.2	5834.6	5838.1	5602.4	5426.0
67.5°	1372.6	1482.9	1712.2	2195.0	3067.3	4164.3	5450.4	5863.1	5896.7	5665.7	5368.5
70°	669.7	814.9	1039.5	1426.6	2195.0	3380.1	5077.2	5629.7	5704.6	5481.2	5026.2
72.5°	278.0	325.0	447.5	704.0	1260.0	2280.9	4327.3	4997.1	5135.9	4856.7	4225.8
75°	187.5	203.2	255.9	361.0	574.0	1124.8	3120.7	3726.1	3949.5	3668.1	2998.2
77.5°	144.5	154.4	186.3	252.5	341.2	425.4	1670.3	2245.5	2361.0	2185.7	1560.0
80°	113.8	121.3	139.3	184.0	242.0	227.6	569.4	1017.4	1084.1	909.5	501.4
82.5°	98.7	101.6	99.8	124.7	160.7	132.9	186.9	375.6	414.4	300.6	163.7
85°	71.3	79.5	83.0	77.2	85.3	67.3	76.6	132.9	146.3	130.6	92.2
87.5°	29.0	42.9	52.8	49.9	31.4	19.2	23.8	38.8	44.7	48.8	30.1
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°	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2	1225.2
2.5°	1226.3	1230.4	1233.3	1236.8	1239.1	1242.6	1249.6	1253.7	1254.2	1257.2	1256.5
5°	1237.4	1243.2	1249.6	1258.9	1269.3	1278.0	1291.4	1300.6	1304.1	1307.1	1306.5
7.5°	1261.2	1269.3	1280.9	1297.1	1312.2	1323.9	1340.1	1351.2	1362.1	1366.2	1366.8
10°	1296.6	1308.2	1325.0	1347.1	1363.4	1378.4	1395.2	1404.6	1415.5	1420.2	1422.5
12.5°	1340.7	1352.9	1374.9	1405.7	1420.8	1431.2	1437.0	1434.7	1437.0	1441.0	1442.3
15°	1391.2	1404.6	1429.5	1462.6	1473.0	1463.7	1451.0	1439.4	1437.7	1438.8	1442.8
17.5°	1451.0	1460.8	1489.8	1517.7	1510.1	1471.9	1444.0	1425.5	1416.1	1413.3	1417.3
20°	1534.5	1534.5	1558.3	1575.7	1525.3	1460.2	1416.8	1386.5	1367.4	1359.3	1357.5
22.5°	1636.1	1626.8	1641.9	1629.7	1522.3	1427.7	1367.4	1315.2	1286.2	1274.5	1272.7
25°	1764.9	1753.9	1749.9	1674.4	1501.4	1376.1	1278.0	1214.7	1189.2	1182.8	1184.0
27.5°	1959.4	1931.5	1878.7	1698.8	1463.2	1294.9	1173.5	1114.9	1100.4	1101.0	1102.7
30°	2218.2	2162.5	2033.1	1702.8	1400.5	1179.9	1066.7	1025.0	1018.0	1020.9	1030.7
32.5°	2458.0	2405.2	2190.9	1684.3	1304.1	1067.3	971.0	943.1	932.6	936.1	940.8
35°	2645.9	2631.5	2337.2	1658.1	1185.7	961.7	885.1	861.3	841.0	836.3	839.8
37.5°	2823.6	2817.7	2446.9	1621.6	1068.5	886.8	816.0	784.6	755.1	738.8	739.4
40°	3018.6	3012.8	2518.8	1565.3	964.6	821.8	753.9	712.7	676.2	646.6	649.4
42.5°	3238.0	3203.7	2553.1	1484.6	876.4	766.7	703.5	647.7	599.5	572.3	574.0
45°	3477.7	3400.4	2552.6	1381.9	802.1	716.2	649.4	570.5	525.8	500.3	499.2
47.5°	3731.9	3588.5	2521.2	1268.1	730.1	660.5	565.9	505.5	475.9	460.2	456.7
50°	3994.2	3764.4	2467.8	1137.5	656.4	597.3	513.6	472.4	449.8	435.3	430.1
52.5°	4240.8	3924.0	2403.4	989.5	581.6	535.7	490.5	458.5	434.7	418.5	411.5
55°	4470.1	4061.6	2312.3	838.0	520.6	494.5	479.4	452.7	425.4	406.3	398.7
57.5°	4673.9	4150.9	2155.0	695.9	477.0	466.1	467.8	442.8	411.5	395.2	384.8
60°	4843.3	4216.5	1922.3	564.2	441.7	438.2	449.8	424.2	387.7	369.1	361.0
62.5°	4944.9	4215.3	1636.7	462.0	411.5	412.7	426.0	401.1	363.9	346.4	341.2
65°	4936.2	4112.0	1323.3	395.2	382.4	383.7	401.1	375.6	344.2	333.7	333.1
67.5°	4761.5	3860.2	1015.1	351.7	350.5	355.8	376.1	358.1	332.0	330.9	332.5
70°	4288.5	3337.2	731.2	316.9	317.4	325.0	351.7	347.1	325.6	327.9	327.4
72.5°	3438.8	2544.5	491.0	280.3	281.0	293.0	328.5	338.4	319.2	349.9	354.6
75°	2290.2	1586.8	315.7	241.5	242.0	257.7	308.2	321.5	301.8	348.8	351.7
77.5°	1100.4	713.3	228.7	203.2	203.2	217.6	266.4	287.9	257.1	271.0	248.4
80°	380.2	268.1	179.9	163.7	160.2	170.0	224.6	249.6	221.7	204.3	191.6
82.5°	149.8	139.3	144.5	127.1	115.5	121.9	174.7	206.0	163.1	147.4	146.9
85°	85.9	90.5	102.2	84.2	66.7	74.8	128.2	148.0	123.0	108.5	110.8
87.5°	23.2	31.9	47.0	43.6	30.1	31.9	61.0	81.8	70.8	54.5	56.3
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)