

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: P960467

Luminaire Tested: **NAV-SB1C-827-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960467
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6526.2 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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



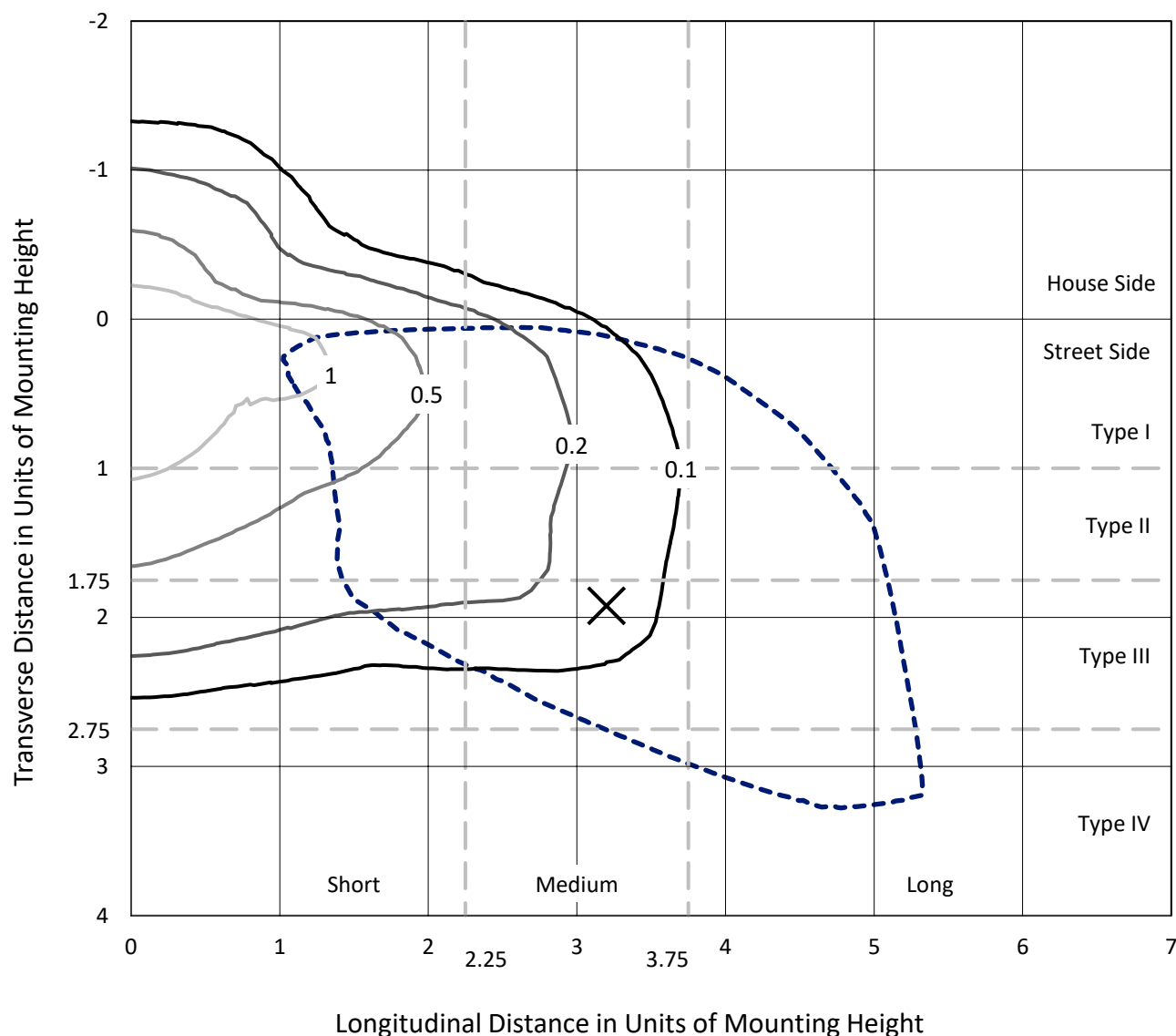
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

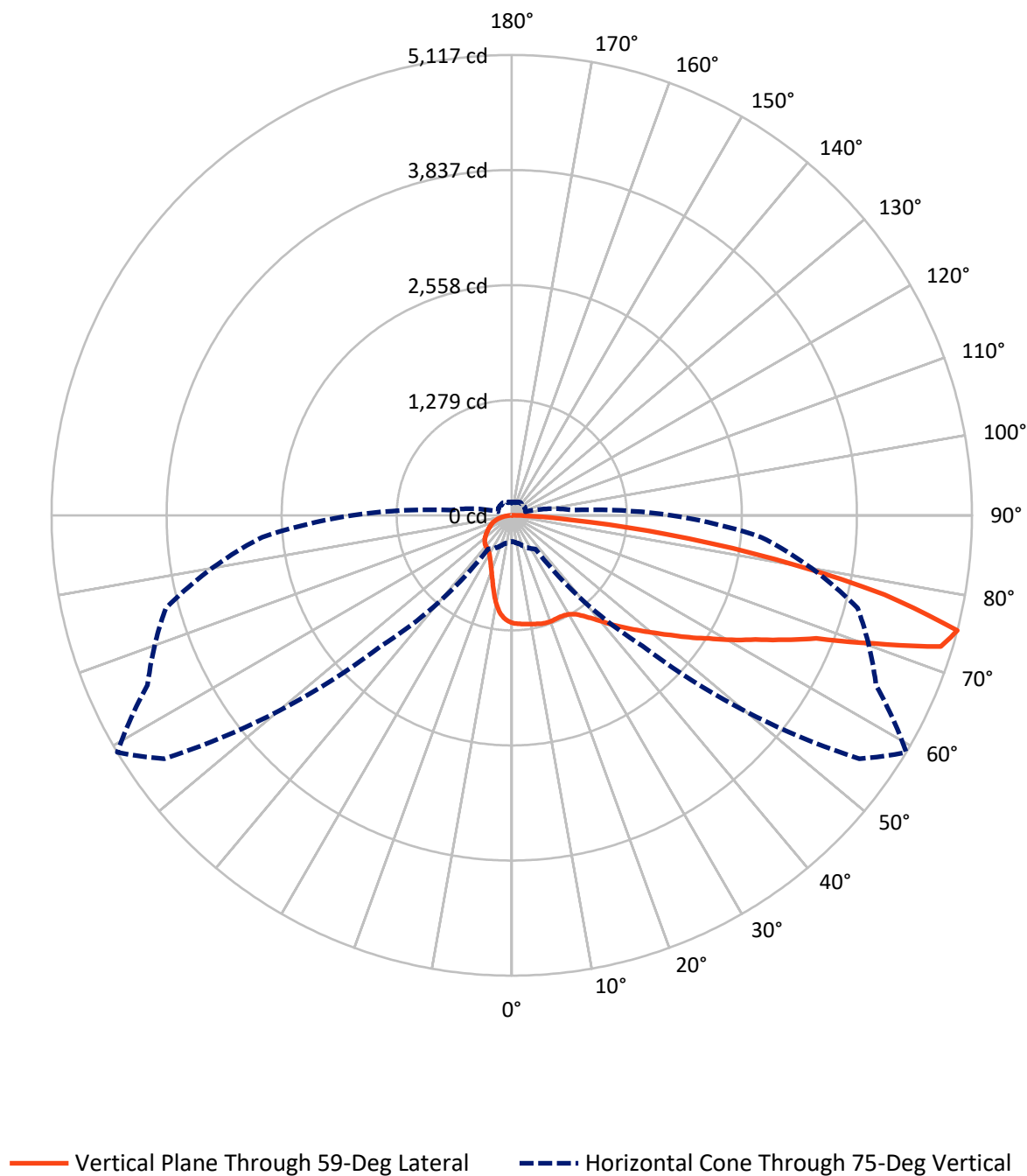
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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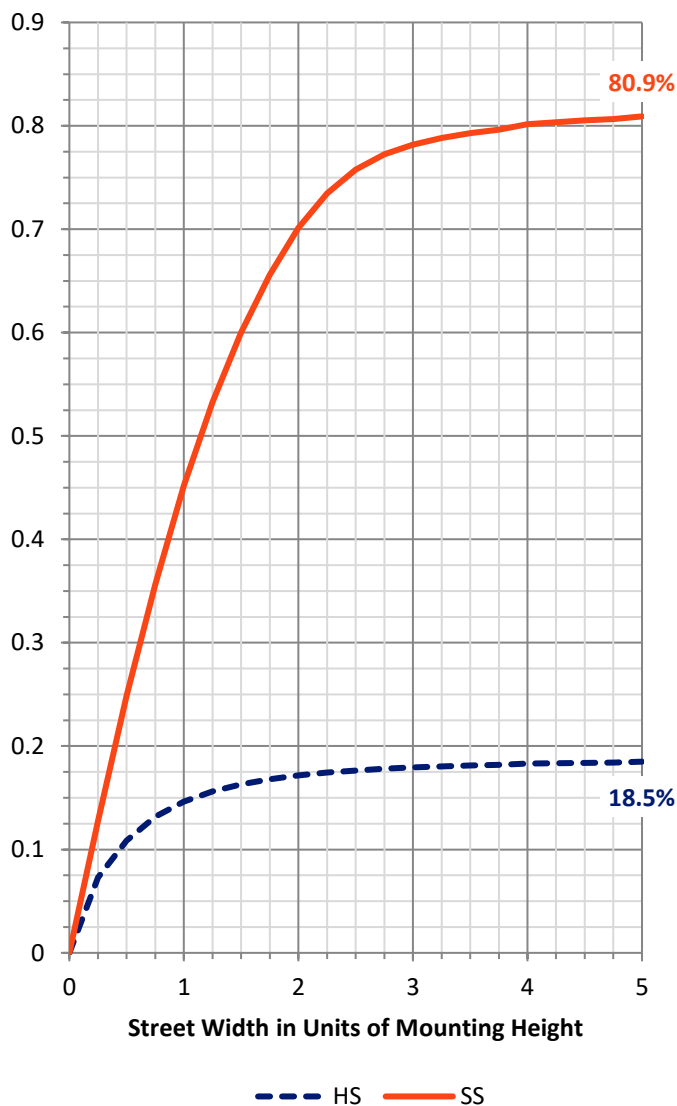
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1224.0	0.0	1224.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	5302.1	0.0	5302.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	6526.2	0.0	6526.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	1.6
10°-20°	274.5	4.2
20°-30°	417.0	6.4
30°-40°	619.9	9.5
40°-50°	921.9	14.1
50°-60°	1251.3	19.2
60°-70°	1527.6	23.4
70°-80°	1198.9	18.4
80°-90°	207.7	3.2
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°	6526.2	100.0
0°-180°	6526.2	100.0

Coefficient of Utilization



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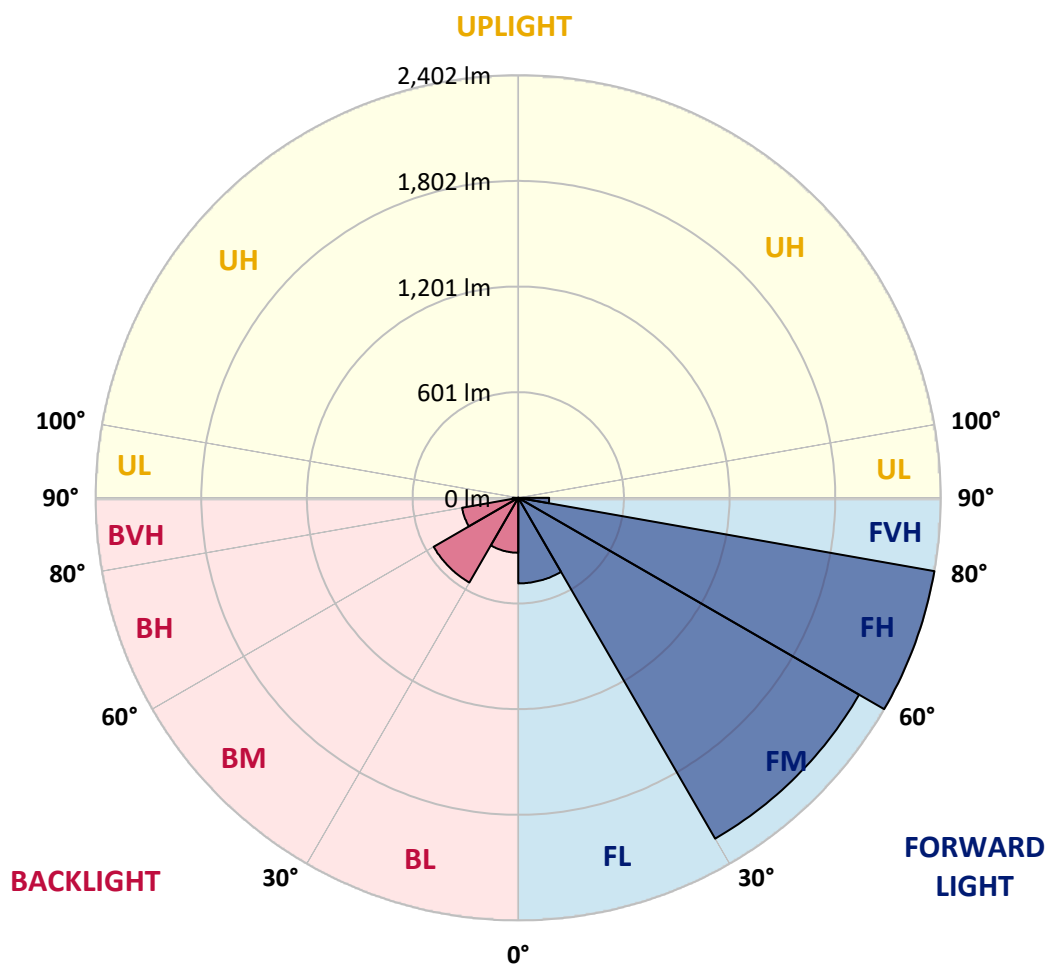
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.6	7.5			
FM	(30°-60°)	2237.4	34.3			
FH	(60°-80°)	2402.2	36.8			G2/5000
FVH	(80°-90°)	175.9	2.7			G2/225
BL	(0°-30°)	312.4	4.8	B1/500		
BM	(30°-60°)	555.6	8.5	B1/1000		
BH	(60°-80°)	324.3	5.0	B1/500		G1/500
BVH	(80°-90°)	31.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1208.1	1203.9	1208.1	1206.3	1205.6	1204.2	1204.6	1207.0	1205.6	1207.3	1201.4
5°	1200.0	1197.5	1201.7	1200.7	1205.2	1205.9	1210.5	1213.3	1215.0	1215.4	1210.8
7.5°	1186.6	1184.2	1190.1	1195.0	1204.9	1207.7	1217.2	1221.7	1224.2	1228.4	1221.7
10°	1137.9	1136.8	1151.5	1170.1	1193.3	1207.7	1222.1	1229.8	1233.7	1244.9	1237.2
12.5°	1051.4	1052.9	1072.1	1108.0	1154.4	1200.7	1227.7	1238.9	1244.9	1258.9	1255.4
15°	968.9	968.6	989.6	1028.0	1092.9	1169.7	1230.5	1249.8	1260.0	1280.7	1277.9
17.5°	921.2	919.8	934.6	963.7	1024.1	1122.4	1223.5	1255.8	1277.6	1303.5	1301.0
20°	912.5	909.6	917.4	931.7	974.6	1070.4	1205.2	1255.8	1291.6	1325.3	1323.9
22.5°	944.4	939.8	936.6	934.9	953.9	1027.6	1184.5	1251.6	1312.3	1356.6	1354.1
25°	1008.6	1001.6	985.4	969.6	964.0	1008.3	1166.2	1250.5	1343.2	1398.7	1389.6
27.5°	1112.5	1103.8	1071.1	1033.2	999.2	1018.1	1158.1	1256.9	1377.3	1443.3	1425.1
30°	1241.4	1231.9	1190.8	1132.5	1071.4	1054.6	1168.4	1275.4	1420.8	1502.5	1466.8
32.5°	1356.9	1346.3	1311.3	1251.9	1169.4	1117.9	1200.7	1310.9	1489.2	1585.1	1529.6
35°	1459.4	1447.1	1415.5	1360.8	1289.4	1206.6	1258.9	1373.7	1586.5	1719.2	1615.0
37.5°	1559.8	1545.4	1511.1	1453.1	1403.2	1324.9	1339.4	1454.5	1715.7	1882.1	1727.9
40°	1672.2	1651.5	1609.7	1552.5	1504.0	1463.6	1445.0	1553.5	1847.0	2063.9	1869.1
42.5°	1781.0	1761.4	1711.4	1662.7	1602.0	1590.4	1567.5	1669.3	1990.5	2263.7	2012.4
45°	1898.3	1874.7	1814.4	1752.5	1714.3	1674.6	1686.2	1785.2	2131.4	2467.4	2162.6
47.5°	2008.2	1981.8	1910.5	1841.7	1820.7	1745.6	1795.1	1912.6	2277.8	2673.8	2311.5
50°	2067.4	2041.5	1982.1	1920.0	1903.5	1833.0	1913.0	2052.8	2431.2	2879.5	2454.4
52.5°	2116.9	2088.8	2011.3	1976.9	1972.0	1928.1	2058.3	2212.8	2584.6	3061.4	2592.3
55°	2169.6	2138.4	2039.3	2008.5	2030.9	2034.8	2230.7	2394.3	2746.8	3238.7	2722.6
57.5°	2230.4	2190.7	2066.4	2035.1	2088.5	2159.8	2428.7	2582.5	2906.2	3403.0	2838.4
60°	2287.6	2247.6	2118.4	2077.7	2150.7	2304.8	2655.9	2810.3	3086.7	3549.4	2948.0
62.5°	2298.9	2265.9	2159.8	2159.5	2234.9	2474.0	2924.8	3040.3	3244.2	3694.0	3046.3
65°	2104.3	2083.6	2020.8	2156.3	2355.8	2717.7	3224.2	3334.5	3444.7	3820.4	3132.6
67.5°	1601.6	1604.4	1599.8	1861.4	2258.1	3067.7	3657.8	3649.4	3692.3	3962.2	3232.0
70°	732.4	748.9	856.3	1284.9	1809.1	3108.1	4374.7	4265.5	4002.9	4145.8	3318.0
72.5°	395.6	408.3	452.2	622.5	1087.6	2763.3	4910.5	4988.1	4416.2	4269.4	3223.5
75°	290.4	297.4	327.9	395.6	456.7	2053.8	4718.5	5116.6	4467.8	3981.2	2783.7
77.5°	217.3	220.5	245.4	313.5	233.8	1082.7	3770.2	4237.5	3824.6	3271.0	2056.3
80°	157.6	161.1	179.8	235.2	164.0	396.1	2588.8	2974.3	2619.4	2085.1	1024.8
82.5°	108.9	110.2	118.3	160.1	114.5	153.8	1468.9	1744.1	1462.3	731.6	276.6
85°	65.6	67.4	70.9	93.4	65.0	73.0	634.1	655.8	437.1	174.9	86.0
87.5°	27.1	28.8	31.6	39.4	25.6	20.4	104.7	131.3	81.8	51.2	26.6
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°	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1199.7	1197.2	1190.5	1181.4	1172.9	1162.5	1157.8	1153.9	1150.5	1143.8	1140.6
5°	1207.0	1200.3	1182.4	1159.3	1132.9	1104.1	1076.0	1056.8	1040.3	1028.0	1017.7
7.5°	1218.2	1205.6	1172.9	1125.6	1065.2	1003.4	947.5	907.8	878.0	867.2	848.2
10°	1229.8	1214.7	1157.8	1074.3	970.1	874.8	800.8	760.0	736.2	728.5	716.6
12.5°	1243.5	1221.4	1134.4	1003.1	863.7	759.4	694.7	670.9	658.7	654.4	655.5
15°	1263.5	1227.0	1098.9	913.9	762.2	675.1	633.3	616.8	610.5	610.2	611.6
17.5°	1278.6	1228.1	1043.8	818.4	684.3	624.2	589.8	583.5	587.7	594.0	596.4
20°	1295.5	1218.6	971.4	731.3	629.5	579.6	565.2	569.5	579.6	588.8	591.9
22.5°	1307.4	1201.4	884.0	663.5	582.1	554.0	553.3	562.1	567.6	572.3	574.7
25°	1317.9	1172.2	791.3	606.7	543.1	538.5	546.2	543.5	539.6	543.5	545.9
27.5°	1325.6	1126.3	708.5	556.8	515.7	528.0	523.5	517.1	516.8	518.9	522.4
30°	1323.2	1064.8	640.3	509.4	496.4	508.4	497.4	496.4	495.4	496.4	500.3
32.5°	1323.2	995.0	588.0	476.7	484.1	479.6	478.5	476.0	471.8	471.5	476.0
35°	1330.6	925.1	543.1	459.2	474.0	463.1	463.8	457.8	449.1	444.8	449.1
37.5°	1345.6	868.9	498.6	450.8	456.0	455.7	452.8	442.7	427.2	413.9	418.5
40°	1382.2	852.4	468.0	446.9	447.6	451.8	444.4	424.8	389.7	368.0	370.7
42.5°	1439.4	880.2	461.4	437.5	442.0	446.2	431.8	386.2	361.2	348.3	348.3
45°	1512.1	928.5	475.7	423.7	428.7	436.0	393.2	371.5	360.2	360.6	362.3
47.5°	1604.0	979.5	502.4	411.8	409.4	413.6	367.6	354.2	338.8	342.7	352.5
50°	1710.4	1031.1	527.7	395.6	388.0	374.2	351.1	338.5	318.8	309.7	312.1
52.5°	1825.6	1081.0	537.8	376.0	364.8	349.0	339.9	324.4	300.5	285.5	285.1
55°	1934.8	1126.3	526.6	352.5	341.6	329.3	327.9	318.5	292.8	271.7	271.7
57.5°	2038.0	1164.2	498.6	328.6	318.1	310.7	320.2	315.6	283.3	256.2	254.9
60°	2125.4	1190.1	457.8	304.4	297.0	293.2	307.5	306.2	270.0	239.7	238.7
62.5°	2194.9	1200.3	412.9	281.3	279.4	272.4	290.0	290.0	253.2	223.7	222.6
65°	2249.4	1190.5	367.3	258.4	261.9	251.3	268.5	266.5	235.2	209.2	207.9
67.5°	2297.4	1158.1	316.6	236.0	244.0	230.6	246.1	241.2	215.6	194.9	193.4
70°	2318.9	1083.0	259.1	213.4	223.2	210.3	223.7	214.5	193.4	179.4	176.6
72.5°	2146.9	900.2	204.0	189.9	198.3	187.8	199.4	188.9	169.5	163.3	158.0
75°	1776.1	675.5	156.9	164.3	170.7	162.6	170.3	162.6	145.0	149.5	136.5
77.5°	1289.9	456.0	120.0	137.2	140.1	135.9	142.6	133.8	118.0	117.0	111.6
80°	641.4	267.2	94.1	108.4	107.4	104.7	112.3	108.1	94.8	100.4	99.3
82.5°	185.7	114.5	68.5	76.2	74.1	74.8	80.4	82.5	123.6	122.5	125.4
85°	58.3	44.9	41.1	42.4	40.4	41.4	47.4	94.1	87.0	50.9	55.1
87.5°	15.1	15.5	10.1	10.9	11.3	13.3	15.1	57.2	27.4	17.9	19.0
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)