

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: P960464

Luminaire Tested: **NAV-SB1C-827-U-SL2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960464
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-SL2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5412 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

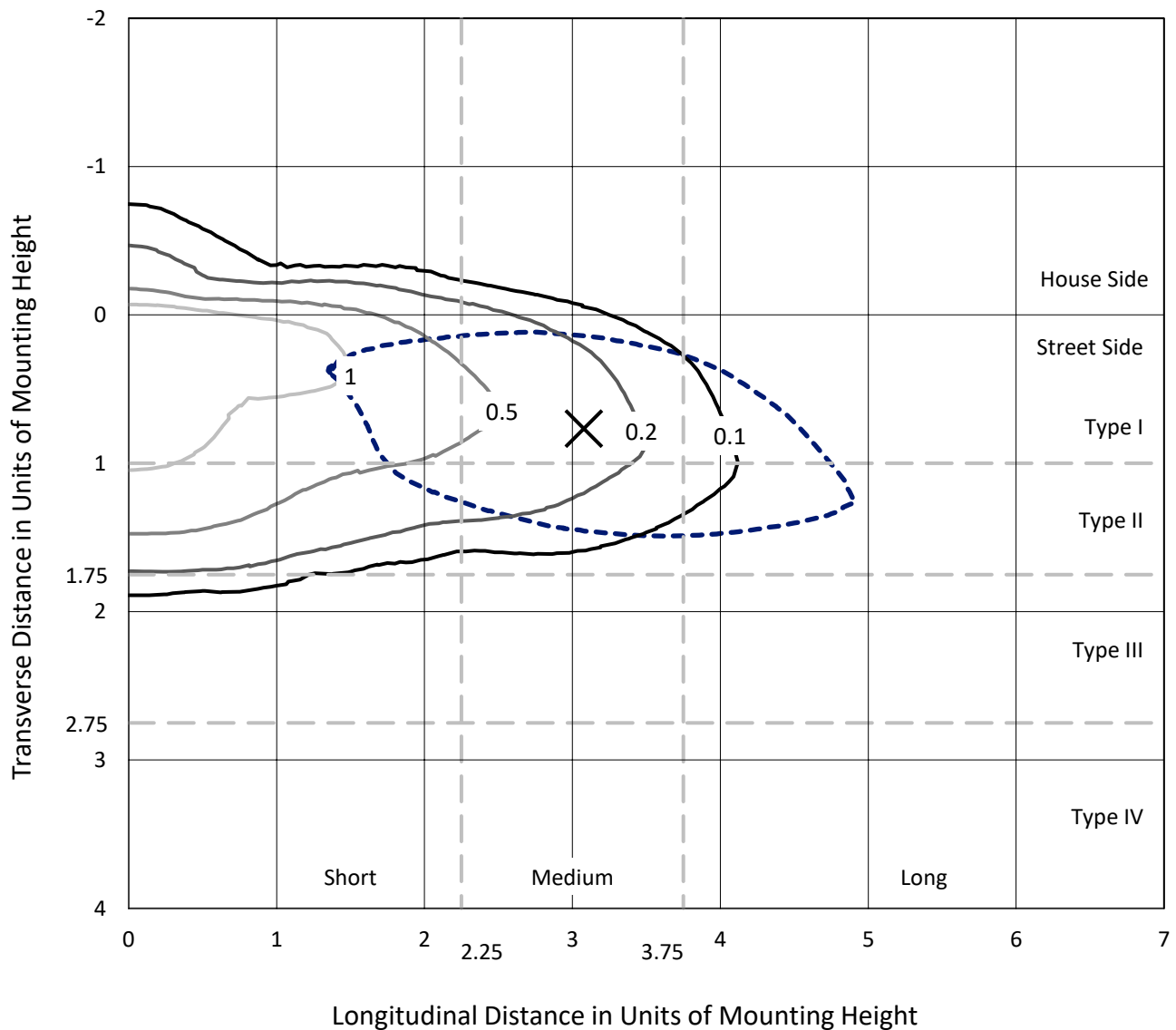
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

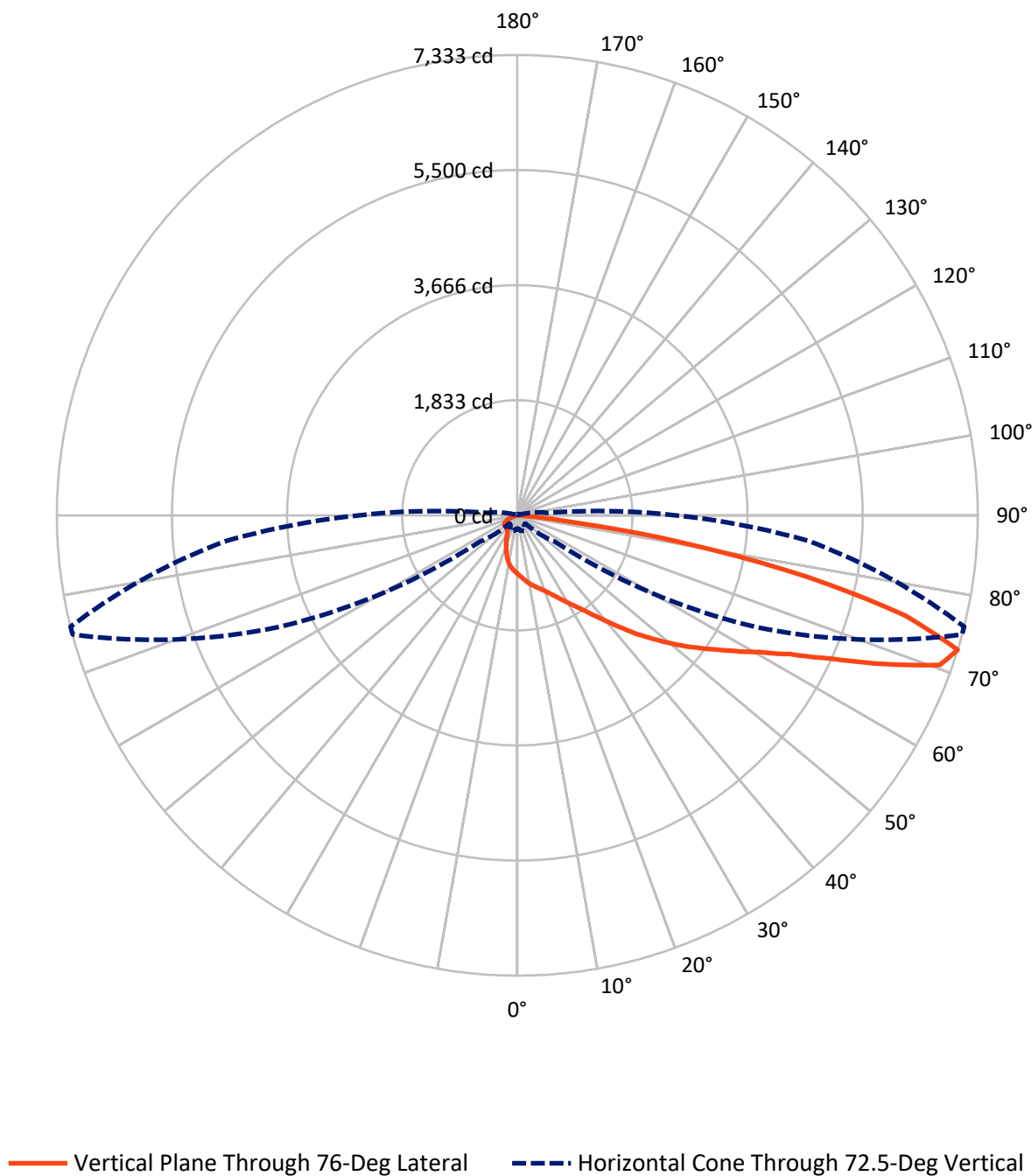


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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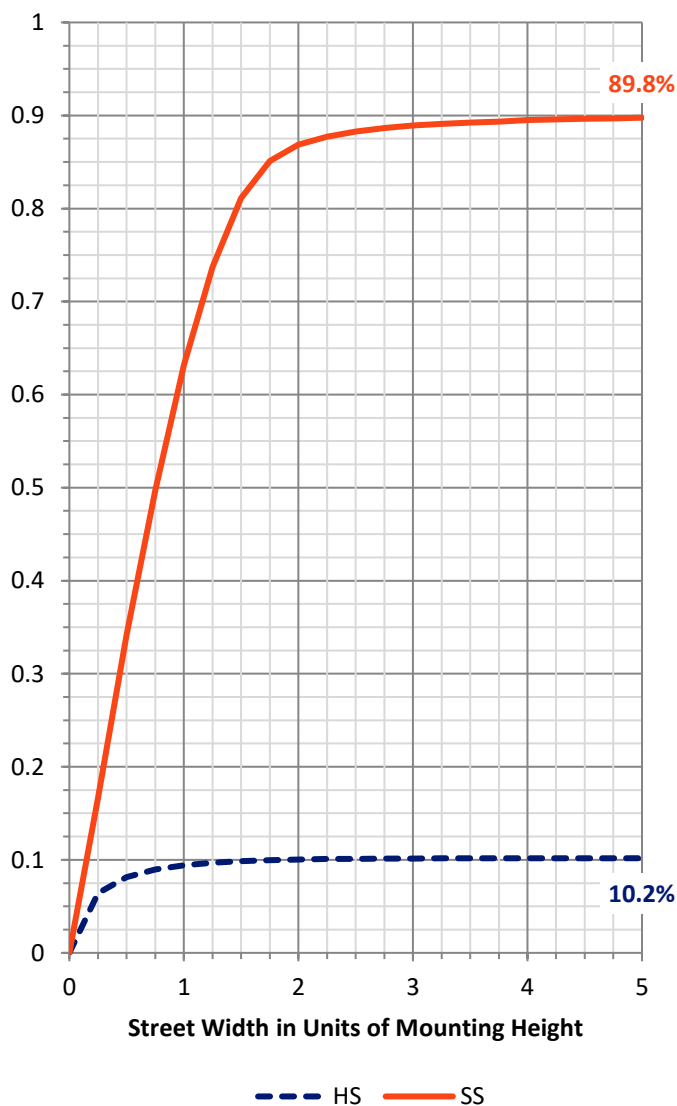
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	553.9	0.0	553.9
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	4858.1	0.0	4858.1
	% Fixture	89.8	0.0	89.8
Total	Lumens	5412.0	0.0	5412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.1	1.6
10°-20°	228.1	4.2
20°-30°	361.0	6.7
30°-40°	558.5	10.3
40°-50°	848.2	15.7
50°-60°	1169.4	21.6
60°-70°	1235.4	22.8
70°-80°	847.5	15.7
80°-90°	78.9	1.5
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°	5412.0	100.0
0°-180°	5412.0	100.0

Coefficient of Utilization



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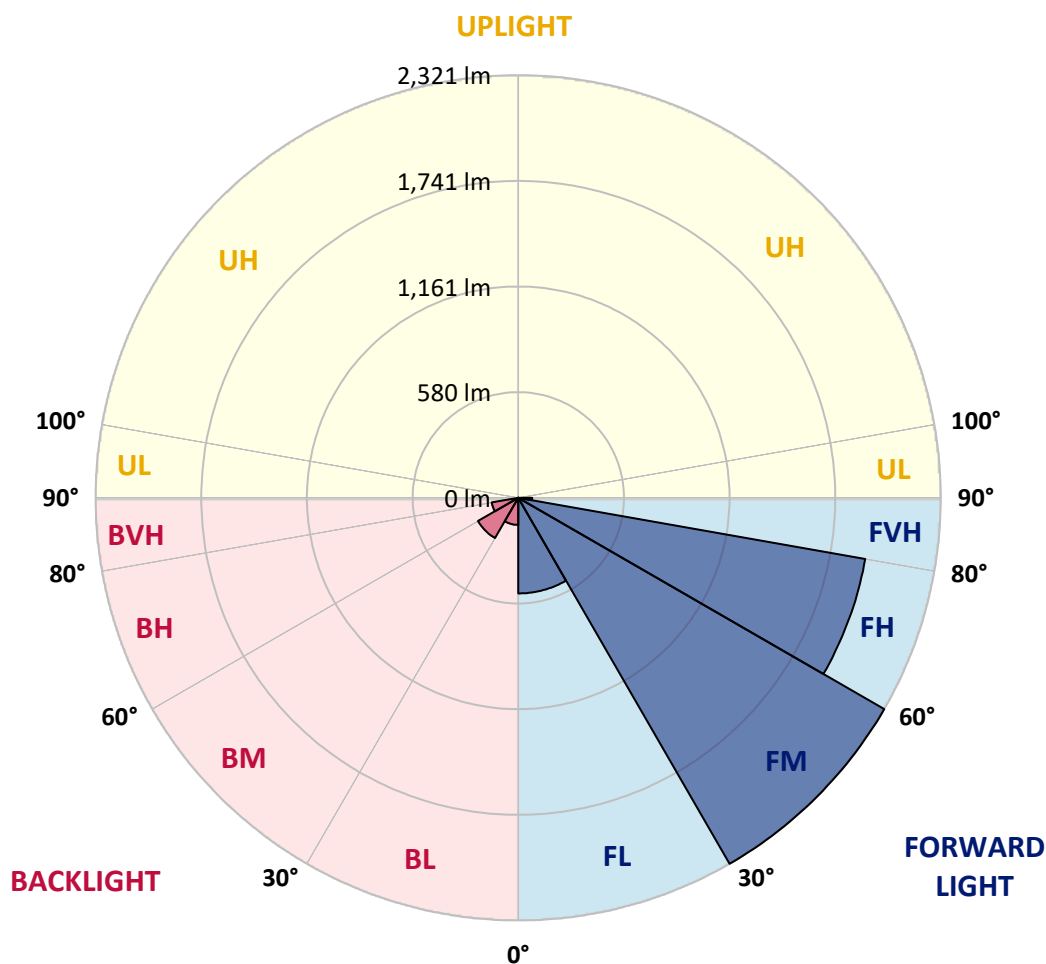
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	525.2	9.7			
FM	(30°-60°)	2321.1	42.9			
FH	(60°-80°)	1935.0	35.8			G2/5000
FVH	(80°-90°)	76.7	1.4			G1/100
BL	(0°-30°)	148.9	2.8	B1/500		
BM	(30°-60°)	255.0	4.7	B1/1000		
BH	(60°-80°)	147.9	2.7	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2
2.5°	1087.2	1072.9	1075.6	1061.3	1054.6	1038.4	1021.6	999.5	974.9	974.9	951.0
5°	1201.7	1192.6	1192.6	1175.7	1162.8	1137.4	1107.3	1068.3	1021.9	1017.4	972.1
7.5°	1271.9	1266.3	1269.8	1259.9	1249.5	1223.1	1187.3	1136.4	1070.7	1065.2	997.0
10°	1285.6	1285.2	1295.1	1297.9	1304.9	1291.6	1259.6	1201.0	1118.9	1110.8	1018.4
12.5°	1232.6	1225.9	1250.2	1278.6	1318.6	1336.5	1320.0	1259.9	1162.8	1151.5	1038.4
15°	1145.5	1147.0	1170.1	1214.0	1280.7	1344.6	1366.0	1317.5	1207.3	1194.0	1057.4
17.5°	1095.7	1090.4	1110.4	1149.7	1223.4	1313.6	1387.4	1371.2	1254.7	1239.6	1076.8
20°	1089.7	1089.4	1093.9	1111.8	1168.0	1269.5	1385.0	1423.6	1310.6	1292.9	1104.4
22.5°	1131.1	1130.5	1126.6	1123.1	1138.5	1226.3	1374.4	1473.4	1377.2	1358.2	1143.8
25°	1194.6	1193.6	1187.7	1166.2	1151.2	1203.1	1364.6	1519.8	1456.2	1435.2	1191.6
27.5°	1272.2	1271.5	1260.6	1228.4	1189.4	1205.2	1359.7	1567.5	1547.5	1526.7	1246.6
30°	1367.5	1366.0	1343.6	1297.9	1247.0	1238.6	1366.3	1621.2	1642.7	1626.9	1310.2
32.5°	1486.8	1482.9	1453.4	1384.6	1313.3	1283.2	1379.0	1676.4	1755.3	1740.6	1395.1
35°	1579.1	1573.2	1555.9	1495.2	1390.2	1337.9	1408.5	1741.7	1890.8	1877.9	1503.6
37.5°	1658.4	1652.5	1638.5	1588.5	1500.5	1407.7	1455.9	1828.7	2050.9	2044.6	1636.0
40°	1744.1	1734.3	1727.6	1674.2	1594.6	1508.5	1523.7	1930.5	2235.2	2235.9	1795.0
42.5°	1810.0	1806.3	1807.0	1765.9	1685.5	1627.9	1613.5	2045.3	2456.1	2462.8	1986.3
45°	1866.6	1863.4	1876.5	1847.7	1777.1	1706.2	1718.8	2175.3	2697.6	2711.3	2200.5
47.5°	1910.2	1913.7	1932.2	1913.7	1872.3	1761.3	1812.2	2315.3	2951.4	2953.1	2421.7
50°	1953.6	1955.1	1985.9	1976.8	1960.0	1831.2	1898.2	2471.9	3218.9	3222.1	2628.4
52.5°	1967.4	1965.2	2014.4	2036.9	2037.6	1917.6	2009.5	2642.4	3481.2	3491.4	2841.2
55°	1897.2	1903.1	1982.5	2073.8	2109.9	2036.9	2159.8	2858.4	3760.6	3764.8	3051.8
57.5°	1553.8	1586.8	1762.4	1974.0	2156.6	2207.8	2375.6	3110.8	4083.3	4079.4	3265.2
60°	943.0	982.3	1192.2	1655.6	2004.3	2379.5	2693.7	3501.9	4435.7	4424.8	3481.2
62.5°	527.3	539.3	606.3	991.1	1524.4	2270.4	3004.4	4004.3	4908.9	4872.1	3693.6
65°	388.7	392.5	408.3	485.5	749.2	1746.2	2936.3	4604.9	5573.8	5508.2	3948.1
67.5°	337.7	341.6	357.0	367.6	334.6	917.4	2419.2	4938.1	6418.2	6332.1	4292.5
70°	284.3	286.5	311.4	318.5	239.4	348.9	1554.2	4835.2	7199.7	7138.2	4662.1
72.5°	212.1	220.5	256.7	273.5	192.0	185.3	731.6	4227.5	7332.0	7332.7	4637.2
75°	143.9	151.7	193.1	225.0	148.1	129.9	295.2	3156.8	6384.5	6384.5	4065.0
77.5°	98.3	104.7	134.5	176.6	112.3	89.2	153.0	2003.6	4580.3	4741.5	2897.4
80°	43.6	47.4	86.7	128.1	85.3	57.6	86.7	1097.1	2770.0	2735.8	1135.7
82.5°	21.4	24.6	55.5	80.1	55.1	35.5	45.6	521.7	897.7	853.1	177.3
85°	4.2	5.6	29.8	34.0	25.6	15.8	17.2	160.4	108.1	123.6	37.5
87.5°	0.0	0.0	9.1	6.4	2.8	3.5	3.5	14.3	8.4	9.8	9.8
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°	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2
2.5°	938.4	925.4	897.0	868.9	840.1	813.7	795.5	777.3	766.0	761.1	761.8
5°	945.8	919.4	859.8	797.2	735.4	675.1	629.9	587.3	574.0	551.9	553.3
7.5°	957.4	914.5	820.4	715.1	614.7	526.2	462.4	411.4	391.0	371.5	371.0
10°	965.0	905.4	768.4	627.7	491.8	392.5	331.4	294.6	281.2	269.3	269.0
12.5°	968.2	888.6	708.8	529.7	382.6	299.1	262.6	245.4	240.9	236.6	236.6
15°	971.1	872.1	642.1	435.3	302.3	250.3	236.0	230.3	227.1	224.4	224.4
17.5°	973.5	851.0	565.9	353.8	255.2	230.6	223.7	217.7	215.2	212.1	212.1
20°	982.0	830.7	497.8	292.1	229.6	216.6	208.9	202.5	200.5	198.3	198.7
22.5°	997.7	814.2	431.8	250.3	214.1	202.2	192.4	185.3	184.0	182.6	181.5
25°	1016.7	793.8	369.7	223.2	199.1	185.7	174.9	168.8	167.5	167.8	167.1
27.5°	1040.9	771.3	316.3	206.0	185.7	170.3	158.0	153.4	154.2	155.5	154.8
30°	1067.6	750.6	274.5	194.1	173.7	156.6	144.3	141.1	143.6	145.7	145.0
32.5°	1107.3	732.4	245.4	184.7	163.3	145.3	135.5	131.6	134.5	137.2	136.5
35°	1161.3	723.2	228.9	176.6	154.2	136.5	126.7	123.9	126.7	127.4	127.1
37.5°	1227.6	722.5	221.9	169.9	145.7	129.1	118.3	117.3	119.4	119.7	119.0
40°	1313.3	727.0	216.6	165.0	136.9	120.7	110.6	109.6	110.2	112.6	112.3
42.5°	1421.8	746.0	209.2	158.7	127.4	112.3	104.2	101.8	101.5	104.2	103.9
45°	1558.0	787.8	199.4	148.5	119.0	105.4	97.3	94.4	93.4	94.1	95.1
47.5°	1706.5	839.1	189.6	139.0	113.1	99.7	91.6	88.1	86.4	86.4	86.4
50°	1850.4	897.0	182.9	129.1	108.9	94.4	85.7	82.1	79.3	78.6	78.3
52.5°	1993.0	953.9	177.6	119.4	103.9	87.7	80.1	76.2	73.0	71.6	70.9
55°	2122.9	1007.9	168.5	109.9	97.6	80.8	74.4	70.5	66.7	64.3	63.2
57.5°	2247.5	1052.9	151.7	100.0	87.7	74.1	68.5	64.3	59.7	56.5	55.1
60°	2360.9	1076.0	130.6	89.5	77.9	67.0	61.8	57.9	52.0	46.7	45.3
62.5°	2447.3	1066.9	107.7	77.6	67.8	60.8	54.0	50.2	43.2	36.9	34.4
65°	2535.7	1017.0	86.0	65.0	59.3	52.3	45.3	41.4	33.3	26.6	24.9
67.5°	2650.5	910.7	67.8	54.0	51.2	41.4	35.5	33.0	27.4	21.1	19.7
70°	2724.2	707.4	52.7	43.9	42.1	30.2	27.4	27.1	21.7	16.2	14.3
72.5°	2522.0	463.7	40.4	33.3	30.2	19.7	21.1	21.1	15.8	10.9	9.4
75°	2105.4	271.4	29.1	23.9	17.2	12.6	14.3	14.3	9.8	5.2	4.2
77.5°	1503.6	144.6	19.3	14.8	8.8	5.6	7.7	7.4	3.2	0.3	0.0
80°	575.0	49.8	9.1	5.9	2.5	1.0	0.7	0.3	0.3	0.0	0.0
82.5°	87.7	13.0	1.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)