

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: P961937

Luminaire Tested: **NAV-SB2B-735-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-735-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11437 lumens
Efficiency: N/A
Efficacy: 154.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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



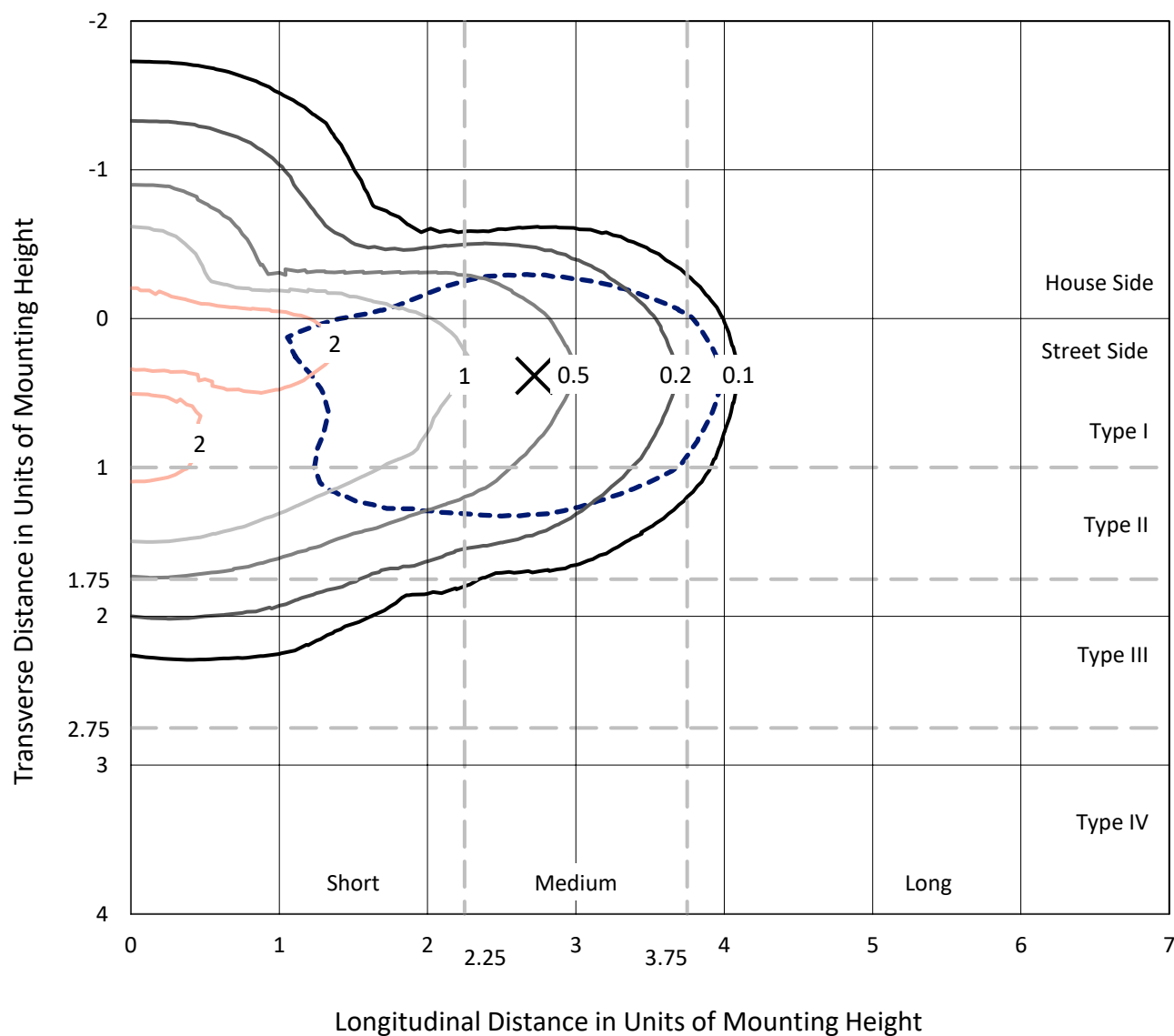
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

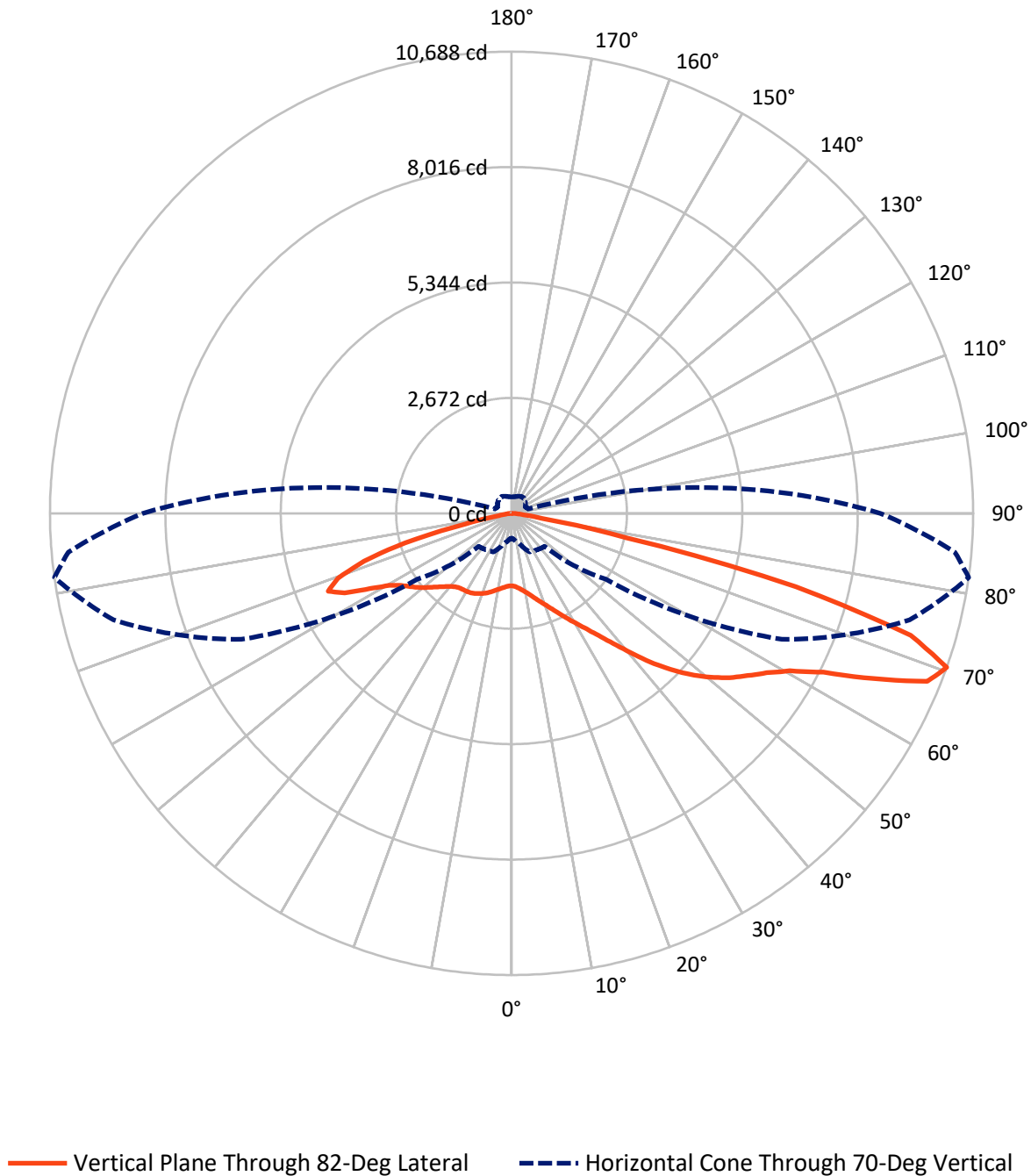
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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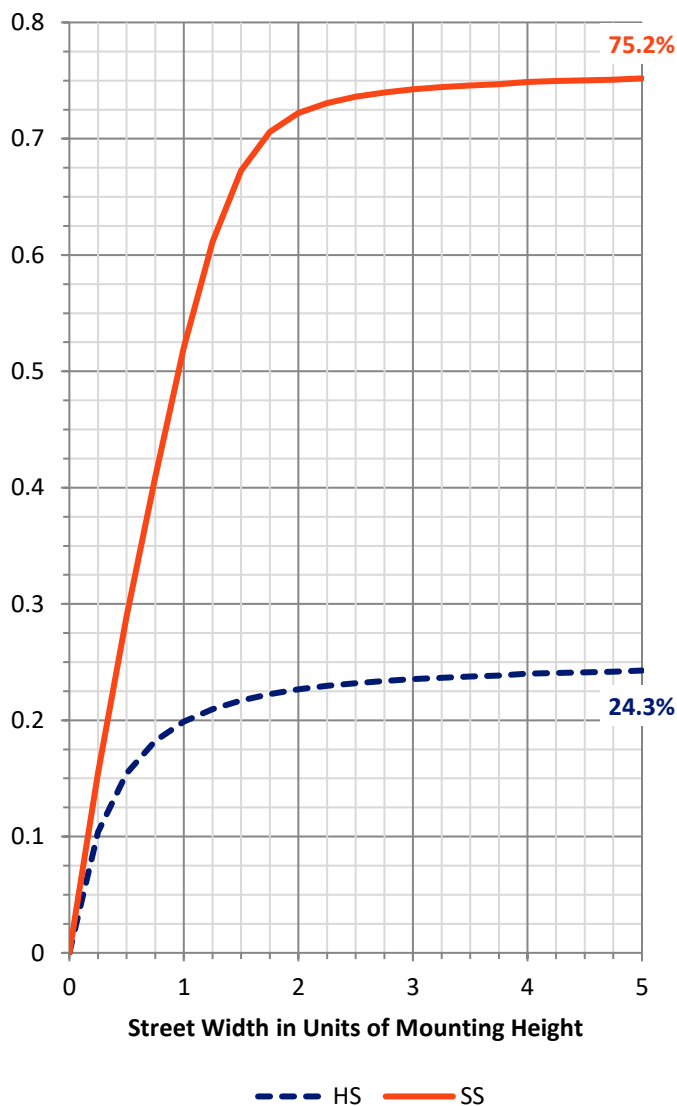
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2819.5	0.0	2819.5
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	8617.5	0.0	8617.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	11437.0	0.0	11437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	1.4
10°-20°	454.9	4.0
20°-30°	760.9	6.7
30°-40°	1188.8	10.4
40°-50°	1893.3	16.6
50°-60°	2634.7	23.0
60°-70°	2756.0	24.1
70°-80°	1440.5	12.6
80°-90°	149.6	1.3
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°	11437.0	100.0
0°-180°	11437.0	100.0

Coefficient of Utilization



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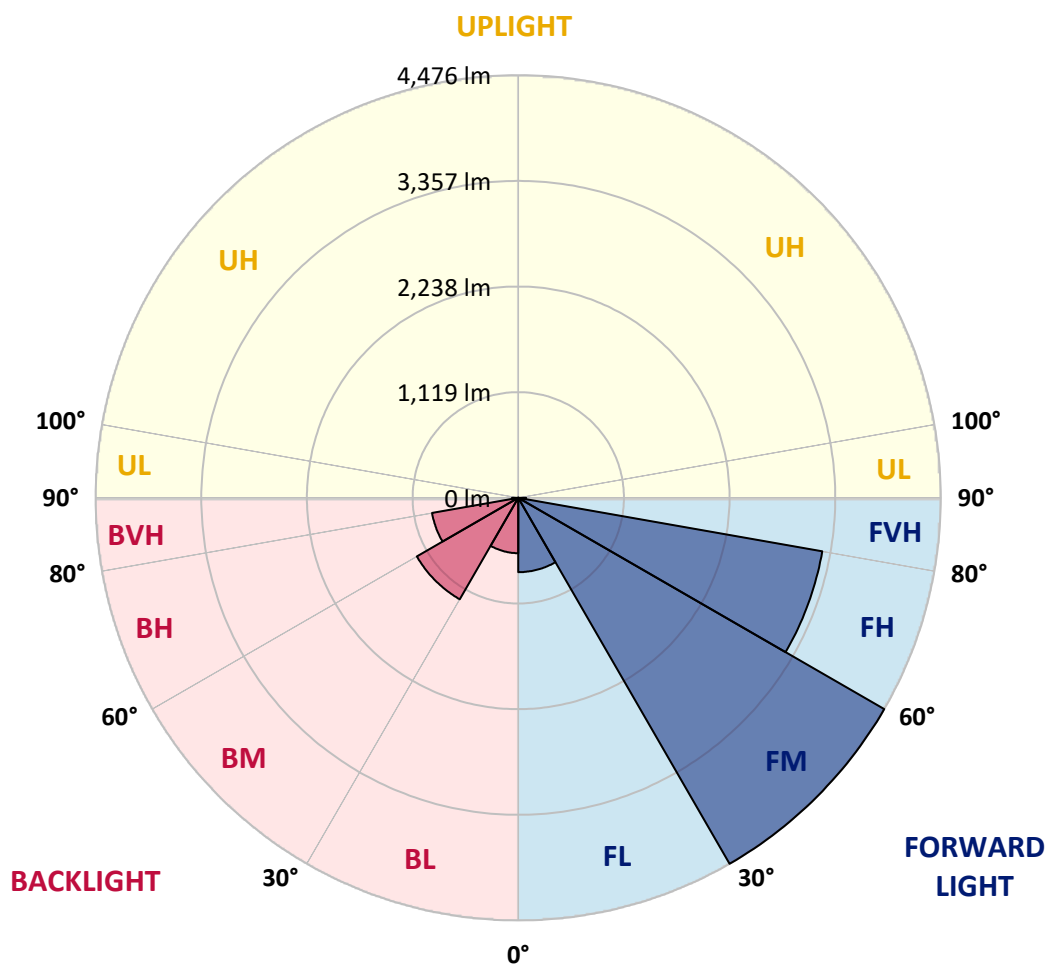
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	787.6	6.9			
FM	(30°-60°)	4476.3	39.1			
FH	(60°-80°)	3269.9	28.6			G2/5000
FVH	(80°-90°)	83.7	0.7			G1/100
BL	(0°-30°)	586.6	5.1	B2/1000		
BM	(30°-60°)	1240.5	10.8	B2/2500		
BH	(60°-80°)	926.6	8.1	B2/1000		G2/1000
BVH	(80°-90°)	65.8	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8
2.5°	1716.9	1726.6	1723.5	1720.5	1720.5	1716.3	1715.6	1709.6	1704.7	1696.8	1695.0
5°	1738.7	1749.1	1747.8	1750.2	1758.1	1759.9	1761.8	1758.1	1748.4	1738.7	1734.4
7.5°	1719.2	1730.8	1734.4	1749.1	1773.2	1795.2	1811.5	1818.2	1809.1	1795.2	1788.4
10°	1653.7	1666.4	1679.3	1713.8	1757.0	1808.5	1852.2	1878.3	1876.5	1863.1	1851.6
12.5°	1520.8	1534.2	1561.5	1628.8	1707.8	1798.8	1880.1	1934.7	1953.5	1943.8	1923.8
15°	1414.6	1426.2	1446.8	1516.0	1618.6	1757.0	1890.4	1996.6	2044.6	2039.1	2014.8
17.5°	1411.6	1416.4	1429.2	1462.0	1540.9	1691.4	1879.5	2057.3	2148.9	2148.3	2118.0
20°	1465.0	1466.8	1474.1	1480.8	1525.7	1641.6	1851.6	2107.7	2266.1	2266.1	2233.3
22.5°	1539.0	1537.8	1545.1	1539.0	1560.9	1637.3	1833.9	2152.0	2396.6	2406.3	2365.0
25°	1650.1	1644.0	1642.3	1628.2	1632.5	1676.8	1853.4	2202.3	2551.3	2571.3	2519.8
27.5°	1798.2	1788.4	1781.8	1749.7	1738.7	1758.1	1912.9	2263.0	2723.6	2758.3	2692.7
30°	1991.2	1973.5	1963.9	1908.0	1868.6	1871.6	2002.6	2343.8	2903.9	2959.7	2876.6
32.5°	2254.6	2227.2	2201.2	2109.6	2037.3	2013.6	2118.6	2455.4	3099.3	3188.6	3081.8
35°	2549.5	2527.6	2499.8	2358.3	2247.3	2192.7	2275.2	2611.4	3328.1	3469.5	3330.5
37.5°	2833.5	2814.6	2828.1	2637.5	2494.2	2414.8	2480.3	2820.8	3610.4	3819.0	3642.4
40°	3127.3	3112.7	3114.5	2932.4	2765.6	2676.3	2729.2	3083.5	3933.7	4234.8	4017.5
42.5°	3446.5	3435.5	3399.1	3237.7	3050.2	2967.1	3015.5	3387.0	4280.9	4708.1	4429.0
45°	3803.9	3797.2	3763.3	3578.2	3363.3	3269.9	3335.4	3722.0	4629.8	5153.6	4842.3
47.5°	4112.8	4118.2	4114.0	3958.0	3735.3	3598.2	3676.5	4071.5	4954.5	5572.3	5238.6
50°	4261.4	4290.0	4331.9	4283.4	4145.0	4005.4	4020.6	4408.9	5264.1	5965.0	5618.4
52.5°	4183.8	4237.9	4351.9	4429.6	4483.0	4453.8	4413.2	4743.9	5555.4	6319.4	5977.7
55°	3894.3	3970.2	4159.6	4347.0	4619.6	4831.3	4884.7	5115.4	5839.3	6631.3	6317.6
57.5°	3366.9	3490.1	3660.1	4039.3	4498.2	5014.0	5434.5	5630.6	6140.4	6964.5	6673.3
60°	2462.7	2627.8	2838.9	3403.4	4073.3	4916.3	5902.5	6421.9	6568.2	7396.0	7136.3
62.5°	1576.0	1678.0	1872.3	2403.8	3174.0	4415.6	6045.7	7411.2	7293.5	8103.6	7830.5
65°	1079.0	1144.6	1322.4	1620.9	2051.8	3286.9	5662.2	8152.7	8445.3	9225.1	9017.5
67.5°	784.1	833.8	985.5	1247.1	1336.9	1945.0	4393.8	8118.8	9565.0	10380.6	10057.8
70°	571.6	606.9	734.3	985.5	1028.7	1082.1	2661.7	6901.4	9540.7	10687.7	10301.1
72.5°	423.6	447.9	533.4	764.6	832.6	730.7	1317.5	5015.8	8198.3	9667.0	9356.8
75°	306.5	324.7	387.8	585.1	666.4	556.5	657.2	2931.2	5718.6	6800.1	6854.7
77.5°	234.2	248.3	289.5	428.4	533.4	417.5	407.8	1348.5	2711.5	2724.9	2877.8
80°	188.1	197.2	219.7	301.7	409.1	312.5	265.8	544.4	856.9	725.2	761.1
82.5°	138.4	153.5	185.7	211.8	292.5	215.5	162.1	274.9	325.8	280.3	282.8
85°	78.9	89.2	112.2	151.7	187.0	131.7	92.9	122.0	151.7	124.4	111.0
87.5°	27.9	36.4	39.5	59.4	81.3	54.6	35.8	35.2	49.8	37.0	31.0
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°	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8	1676.8
2.5°	1688.9	1685.9	1673.7	1657.4	1640.4	1624.0	1618.6	1607.0	1599.1	1594.9	1599.7
5°	1722.9	1713.2	1684.7	1648.3	1610.1	1568.8	1539.7	1512.9	1493.5	1475.3	1482.6
7.5°	1771.5	1754.5	1705.3	1641.6	1573.6	1505.0	1454.1	1415.2	1389.2	1372.2	1375.8
10°	1827.9	1801.8	1726.6	1631.3	1526.3	1428.0	1367.9	1334.6	1318.1	1309.0	1311.5
12.5°	1892.9	1855.9	1748.4	1607.6	1454.1	1341.8	1300.5	1290.8	1291.4	1292.0	1293.2
15°	1972.9	1921.4	1766.0	1556.1	1360.0	1275.6	1268.3	1284.1	1300.5	1308.4	1307.8
17.5°	2063.4	1990.5	1769.0	1471.1	1267.7	1233.2	1256.2	1290.3	1315.1	1326.0	1328.5
20°	2160.5	2061.0	1747.2	1350.9	1191.9	1198.5	1239.8	1283.5	1310.9	1324.8	1328.5
22.5°	2271.5	2136.2	1695.0	1224.7	1130.0	1160.9	1209.5	1252.0	1280.5	1294.5	1298.1
25°	2398.4	2220.6	1613.0	1118.5	1076.6	1118.5	1167.1	1202.2	1225.3	1238.0	1241.7
27.5°	2539.1	2308.6	1503.9	1034.1	1029.9	1074.8	1114.8	1142.2	1154.3	1164.0	1167.7
30°	2680.6	2388.7	1371.6	970.4	989.2	1031.7	1060.3	1072.4	1075.9	1077.8	1082.1
32.5°	2833.5	2457.8	1232.6	917.6	950.4	989.8	1006.9	1012.3	995.3	983.8	987.4
35°	3018.6	2531.9	1096.6	875.8	912.1	946.1	951.6	946.7	926.7	903.0	904.3
37.5°	3247.4	2624.1	988.0	846.0	876.4	898.8	892.1	890.9	892.7	864.8	866.6
40°	3527.7	2744.3	908.5	823.0	847.2	852.1	833.2	843.6	852.7	810.2	811.4
42.5°	3839.1	2889.4	858.1	807.2	823.0	811.4	782.3	793.8	792.5	736.8	736.2
45°	4156.5	3047.1	840.5	795.6	800.4	777.4	745.3	748.2	722.8	672.4	674.2
47.5°	4472.1	3216.4	851.5	785.9	772.5	746.5	721.6	708.3	670.6	632.9	632.9
50°	4781.6	3394.3	891.5	766.5	734.3	719.1	700.9	677.3	637.2	605.1	602.6
52.5°	5068.6	3573.3	936.4	734.3	686.3	695.5	684.0	656.6	617.2	584.5	585.1
55°	5340.6	3752.3	954.0	690.0	641.4	674.9	668.2	617.8	570.5	543.8	541.3
57.5°	5636.7	3967.8	934.6	633.6	605.1	651.2	625.7	569.9	542.5	522.5	520.7
60°	6046.9	4305.8	892.7	563.8	570.5	616.0	572.3	549.2	519.5	497.0	495.8
62.5°	6728.4	4936.3	825.3	494.6	529.8	563.8	546.8	523.8	493.4	471.5	471.5
65°	7735.9	5812.7	698.5	440.5	484.3	512.8	519.5	496.4	464.8	441.8	443.0
67.5°	8585.5	6362.5	528.6	395.6	437.6	471.5	490.4	467.9	434.5	412.0	412.7
70°	8538.8	5963.1	403.5	351.4	396.3	430.9	455.2	437.6	401.8	380.5	382.3
72.5°	7584.2	4988.6	326.5	306.5	354.4	388.4	417.5	404.2	367.8	347.2	347.2
75°	5571.7	3541.2	261.0	261.0	302.3	344.1	376.3	367.8	334.4	319.8	315.6
77.5°	2348.6	1485.6	204.5	216.7	251.2	295.5	335.6	338.7	309.5	327.7	297.4
80°	624.4	409.7	156.0	170.6	197.2	244.0	291.9	290.7	259.1	242.1	225.2
82.5°	237.9	161.4	111.0	120.1	142.6	187.0	231.2	238.5	206.9	179.1	179.1
85°	91.6	69.2	68.6	72.3	83.1	123.8	174.8	180.8	156.0	132.3	136.5
87.5°	23.7	20.6	25.5	24.3	38.2	66.1	100.1	103.7	95.3	55.2	78.9
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)