

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: P961968

Luminaire Tested: **NAV-SB2B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961968
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-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12100.1 lumens
Efficiency: N/A
Efficacy: 163.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

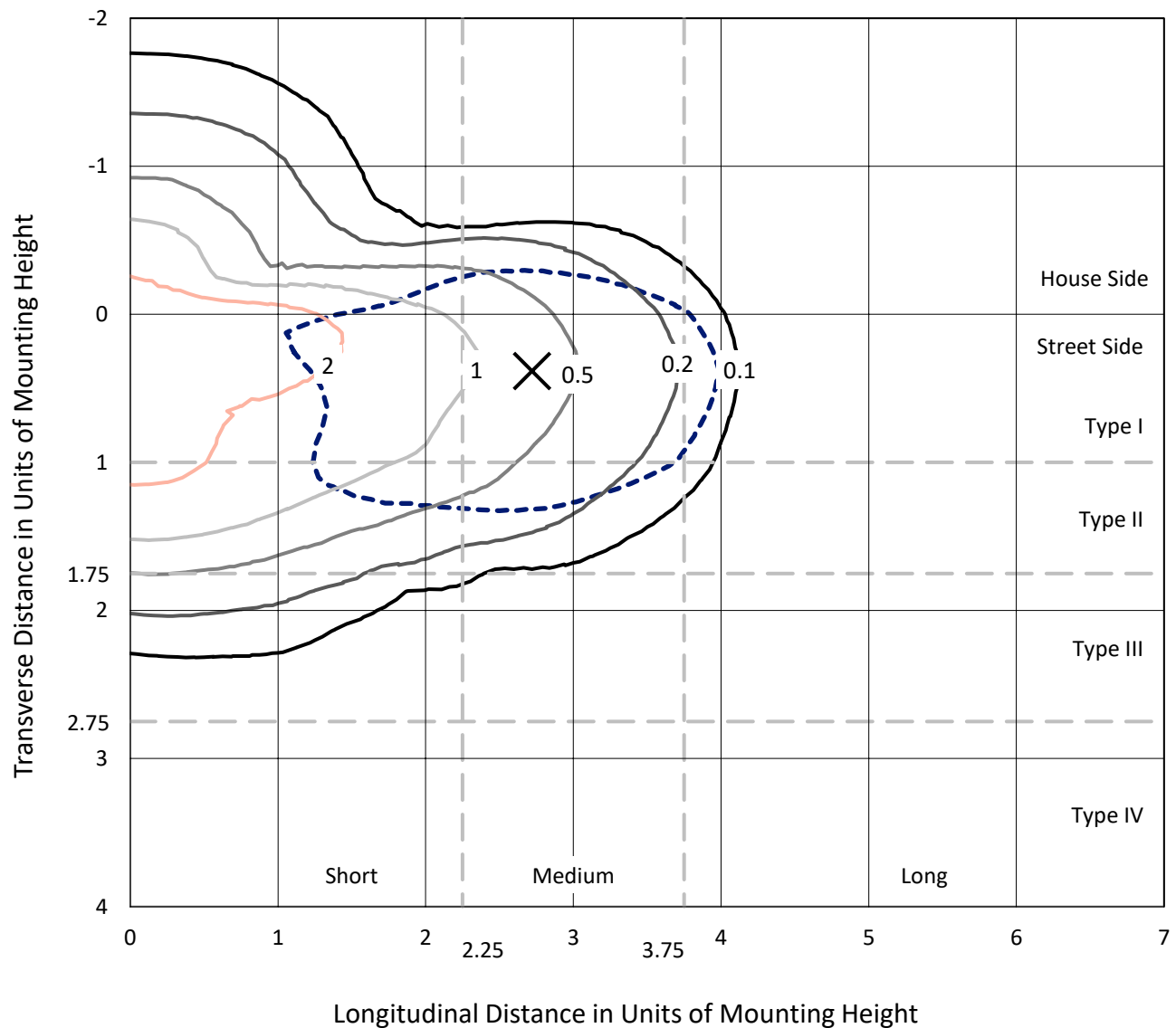
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

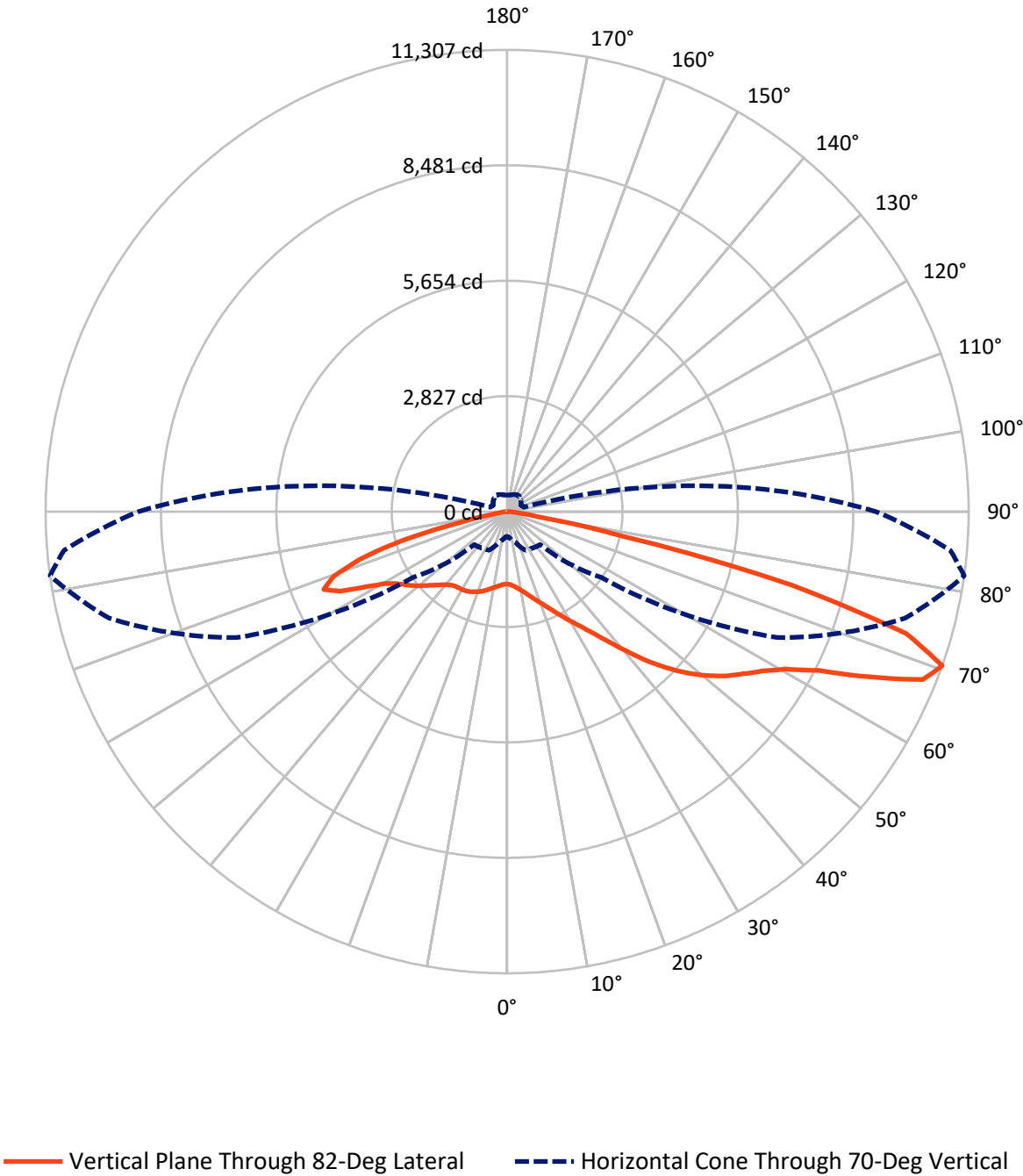
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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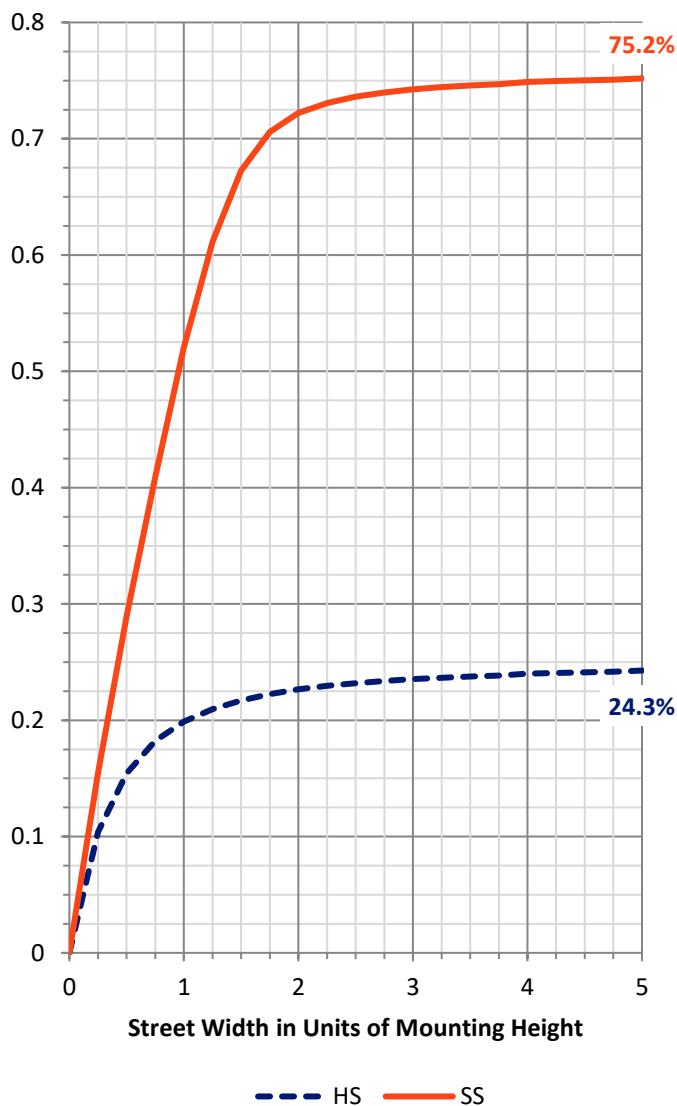
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2983.0	0.0	2983.0
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	9117.2	0.0	9117.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	12100.1	0.0	12100.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	1.4
10°-20°	481.2	4.0
20°-30°	805.1	6.7
30°-40°	1257.7	10.4
40°-50°	2003.1	16.6
50°-60°	2787.5	23.0
60°-70°	2915.8	24.1
70°-80°	1524.0	12.6
80°-90°	158.2	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°	12100.1	100.0
0°-180°	12100.1	100.0

Coefficient of Utilization



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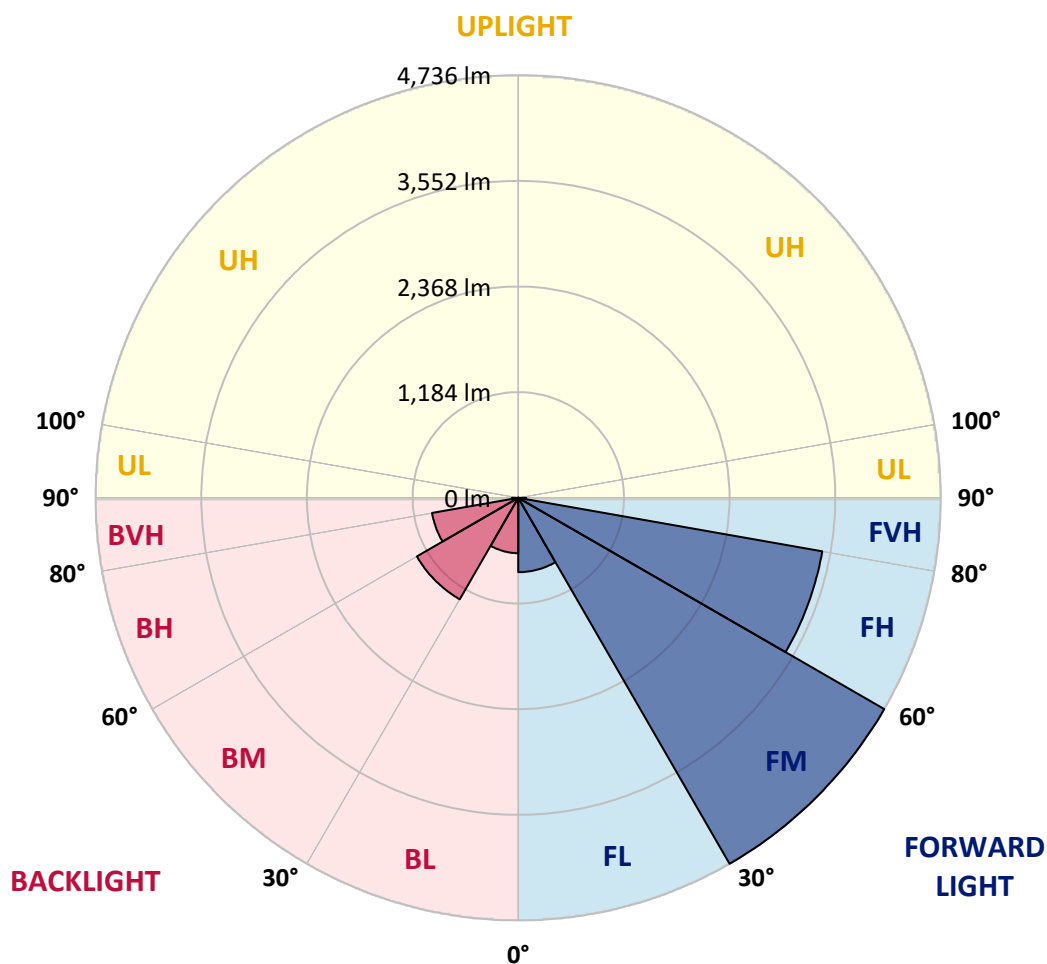
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	833.2	6.9			
FM	(30°-60°)	4735.9	39.1			
FH	(60°-80°)	3459.5	28.6			G2/5000
FVH	(80°-90°)	88.6	0.7			G1/100
BL	(0°-30°)	620.6	5.1	B2/1000		
BM	(30°-60°)	1312.4	10.8	B2/2500		
BH	(60°-80°)	980.4	8.1	B2/1000		G2/1000
BVH	(80°-90°)	69.7	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°	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1
2.5°	1816.4	1826.7	1823.5	1820.3	1820.3	1815.8	1815.2	1808.7	1803.6	1795.2	1793.3
5°	1839.6	1850.4	1849.2	1851.8	1860.1	1862.0	1864.0	1860.1	1849.8	1839.6	1835.1
7.5°	1819.0	1831.2	1835.1	1850.4	1876.2	1899.2	1916.5	1923.6	1914.0	1899.2	1892.2
10°	1749.7	1763.1	1776.6	1813.2	1858.7	1913.4	1959.6	1987.2	1985.2	1971.2	1959.0
12.5°	1609.0	1623.2	1652.0	1723.3	1806.8	1903.1	1989.1	2046.9	2066.8	2056.6	2035.3
15°	1496.7	1508.9	1530.7	1603.9	1712.4	1858.7	2000.1	2112.4	2163.2	2157.3	2131.7
17.5°	1493.4	1498.6	1512.1	1546.7	1630.2	1789.4	1988.5	2176.6	2273.6	2272.9	2240.9
20°	1549.9	1551.8	1559.5	1566.6	1614.2	1736.8	1959.0	2229.9	2397.5	2397.5	2362.8
22.5°	1628.3	1627.0	1634.7	1628.3	1651.4	1732.2	1940.3	2276.7	2535.5	2545.8	2502.1
25°	1745.8	1739.3	1737.5	1722.6	1727.1	1774.1	1960.8	2330.0	2699.2	2720.5	2665.8
27.5°	1902.4	1892.2	1885.1	1851.0	1839.6	1860.1	2023.8	2394.3	2881.6	2918.2	2848.9
30°	2106.6	2088.0	2077.8	2018.6	1976.9	1980.1	2118.8	2479.7	3072.3	3131.4	3043.4
32.5°	2385.3	2356.4	2328.8	2231.8	2155.4	2130.4	2241.5	2597.8	3279.1	3373.4	3260.4
35°	2697.3	2674.2	2644.7	2495.1	2377.6	2319.8	2407.1	2762.8	3521.1	3670.7	3523.6
37.5°	2997.8	2977.9	2992.1	2790.5	2638.9	2554.8	2624.1	2984.3	3819.7	4040.6	3853.7
40°	3308.6	3293.1	3295.1	3102.5	2925.9	2831.6	2887.3	3262.4	4161.9	4480.4	4250.5
42.5°	3646.3	3634.8	3596.2	3425.4	3227.0	3139.1	3190.4	3583.4	4529.2	4981.2	4685.8
45°	4024.5	4017.4	3981.4	3785.6	3558.3	3459.5	3528.8	3937.7	4898.4	5452.4	5123.1
47.5°	4351.3	4357.1	4352.6	4187.5	3951.9	3806.8	3889.7	4307.7	5241.8	5895.5	5542.3
50°	4508.6	4538.8	4583.1	4531.7	4385.4	4237.7	4253.6	4664.6	5569.2	6310.8	5944.3
52.5°	4426.4	4483.6	4604.3	4686.4	4743.0	4712.1	4669.1	5019.0	5877.5	6685.9	6324.4
55°	4120.1	4200.4	4400.7	4599.1	4887.4	5111.5	5167.9	5412.0	6178.0	7015.8	6683.9
57.5°	3562.2	3692.6	3872.3	4273.6	4759.0	5304.8	5749.7	5957.1	6496.4	7368.3	7060.2
60°	2605.5	2780.1	3003.6	3600.7	4309.5	5201.4	6244.7	6794.3	6949.1	7824.8	7550.0
62.5°	1667.5	1775.3	1980.8	2543.2	3358.0	4671.6	6396.3	7840.9	7716.4	8573.5	8284.6
65°	1141.6	1210.9	1399.0	1714.9	2170.8	3477.4	5990.5	8625.5	8935.0	9760.0	9540.5
67.5°	829.5	882.2	1042.7	1319.5	1414.5	2057.8	4648.6	8589.6	10119.6	10982.6	10640.9
70°	604.9	642.1	776.9	1042.7	1088.3	1144.8	2816.1	7301.6	10093.9	11307.4	10898.4
72.5°	448.1	473.9	564.4	809.0	880.9	773.1	1393.9	5306.6	8673.7	10227.4	9899.3
75°	324.2	343.5	410.3	619.0	705.0	588.8	695.4	3101.1	6050.2	7194.4	7252.2
77.5°	247.8	262.6	306.3	453.3	564.4	441.8	431.4	1426.7	2868.8	2882.9	3044.7
80°	199.1	208.7	232.5	319.1	432.8	330.7	281.3	575.9	906.6	767.3	805.1
82.5°	146.4	162.5	196.5	224.1	309.4	228.0	171.5	290.9	344.8	296.6	299.2
85°	83.4	94.4	118.8	160.5	197.7	139.3	98.2	129.0	160.5	131.6	117.5
87.5°	29.5	38.5	41.7	62.9	86.0	57.8	37.9	37.2	52.7	39.2	32.7
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°	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1	1774.1
2.5°	1786.9	1783.7	1770.8	1753.5	1735.5	1718.2	1712.4	1700.2	1691.9	1687.4	1692.5
5°	1822.9	1812.5	1782.4	1743.8	1703.4	1659.8	1628.9	1600.6	1580.1	1560.9	1568.6
7.5°	1874.2	1856.2	1804.2	1736.8	1664.9	1592.3	1538.4	1497.3	1469.6	1451.7	1455.6
10°	1933.9	1906.3	1826.7	1725.9	1614.8	1510.7	1447.2	1411.9	1394.6	1385.0	1387.5
12.5°	2002.6	1963.5	1849.8	1700.9	1538.4	1419.6	1376.0	1365.7	1366.3	1366.9	1368.3
15°	2087.3	2032.8	1868.4	1646.3	1438.9	1349.6	1341.9	1358.6	1376.0	1384.3	1383.6
17.5°	2183.0	2106.0	1871.6	1556.4	1341.3	1304.7	1329.1	1365.0	1391.3	1402.9	1405.5
20°	2285.8	2180.5	1848.5	1429.3	1261.1	1268.1	1311.7	1357.9	1386.8	1401.6	1405.5
22.5°	2403.2	2260.1	1793.3	1295.7	1195.6	1228.3	1279.6	1324.6	1354.7	1369.5	1373.4
25°	2537.5	2349.3	1706.6	1183.4	1139.0	1183.4	1234.7	1271.9	1296.3	1309.8	1313.6
27.5°	2686.4	2442.4	1591.0	1094.1	1089.6	1137.1	1179.5	1208.4	1221.2	1231.4	1235.3
30°	2836.0	2527.1	1451.1	1026.6	1046.5	1091.5	1121.7	1134.6	1138.4	1140.3	1144.8
32.5°	2997.8	2600.3	1304.0	970.8	1005.5	1047.2	1065.2	1070.9	1053.0	1040.8	1044.7
35°	3193.6	2678.7	1160.2	926.5	965.0	1001.0	1006.8	1001.6	980.4	955.4	956.6
37.5°	3435.7	2776.3	1045.3	895.0	927.1	950.9	943.8	942.6	944.4	914.9	916.9
40°	3732.3	2903.4	961.1	870.6	896.4	901.5	881.6	892.5	902.1	857.2	858.4
42.5°	4061.7	3056.9	907.8	853.9	870.6	858.4	827.6	839.8	838.6	779.5	778.8
45°	4397.6	3223.8	889.3	841.7	846.9	822.5	788.4	791.7	764.6	711.5	713.3
47.5°	4731.4	3403.0	900.8	831.5	817.3	789.8	763.4	749.3	709.5	669.6	669.6
50°	5058.9	3591.1	943.2	811.0	776.9	760.9	741.6	716.6	674.1	640.1	637.6
52.5°	5362.5	3780.5	990.7	776.9	726.2	735.8	723.6	694.7	653.0	618.3	619.0
55°	5650.2	3969.9	1009.3	730.0	678.7	714.0	706.9	653.6	603.5	575.3	572.8
57.5°	5963.6	4197.8	988.8	670.3	640.1	688.9	661.9	602.9	574.0	552.8	550.9
60°	6397.5	4555.5	944.4	596.4	603.5	651.7	605.5	581.1	549.6	525.8	524.6
62.5°	7118.6	5222.6	873.2	523.3	560.6	596.4	578.5	554.1	522.0	498.9	498.9
65°	8184.4	6149.7	739.0	466.2	512.4	542.5	549.6	525.2	491.8	467.4	468.7
67.5°	9083.3	6731.4	559.2	418.6	462.9	498.9	518.8	495.1	459.7	435.9	436.6
70°	9033.8	6309.0	427.0	371.8	419.2	455.8	481.5	462.9	425.1	402.6	404.5
72.5°	8023.9	5277.8	345.4	324.2	374.9	410.9	441.8	427.6	389.1	367.3	367.3
75°	5894.8	3746.5	276.1	276.1	319.8	364.1	398.1	389.1	353.7	338.4	333.8
77.5°	2484.8	1571.7	216.4	229.2	265.8	312.7	355.1	358.2	327.5	346.8	314.6
80°	660.7	433.4	165.0	180.4	208.7	258.1	308.8	307.5	274.2	256.1	238.2
82.5°	251.7	170.8	117.5	127.1	150.9	197.7	244.7	252.4	218.9	189.4	189.4
85°	97.0	73.2	72.6	76.4	87.9	131.0	184.9	191.4	165.0	140.0	144.4
87.5°	25.0	21.8	27.0	25.7	40.5	70.0	106.0	109.8	100.8	58.4	83.4
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)