

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: P962625

Luminaire Tested: **NAV-SB2C-830-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962625
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13633.5 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 100.9
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

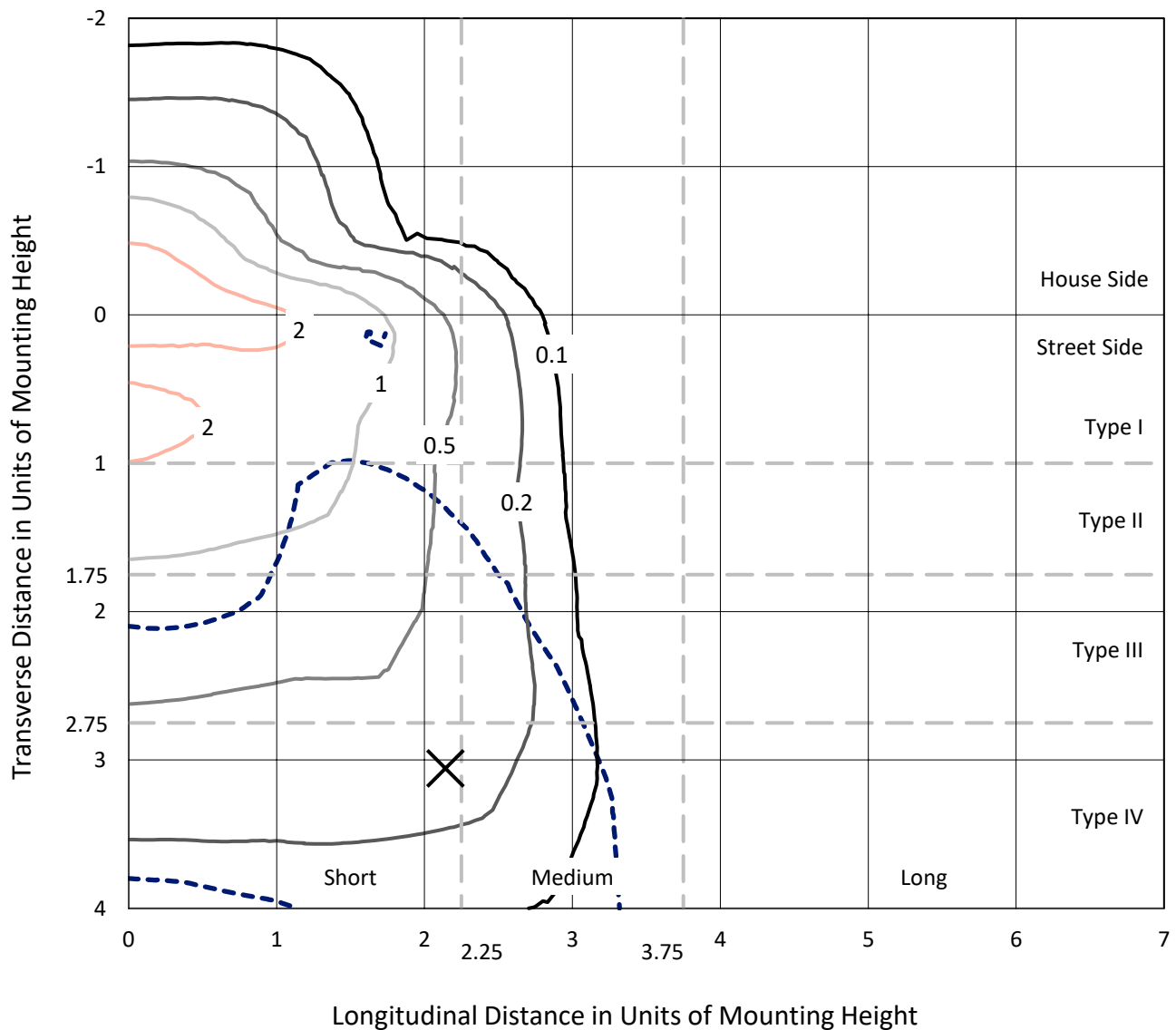


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Iso-Footcandle Lines of Horizontal Illumination

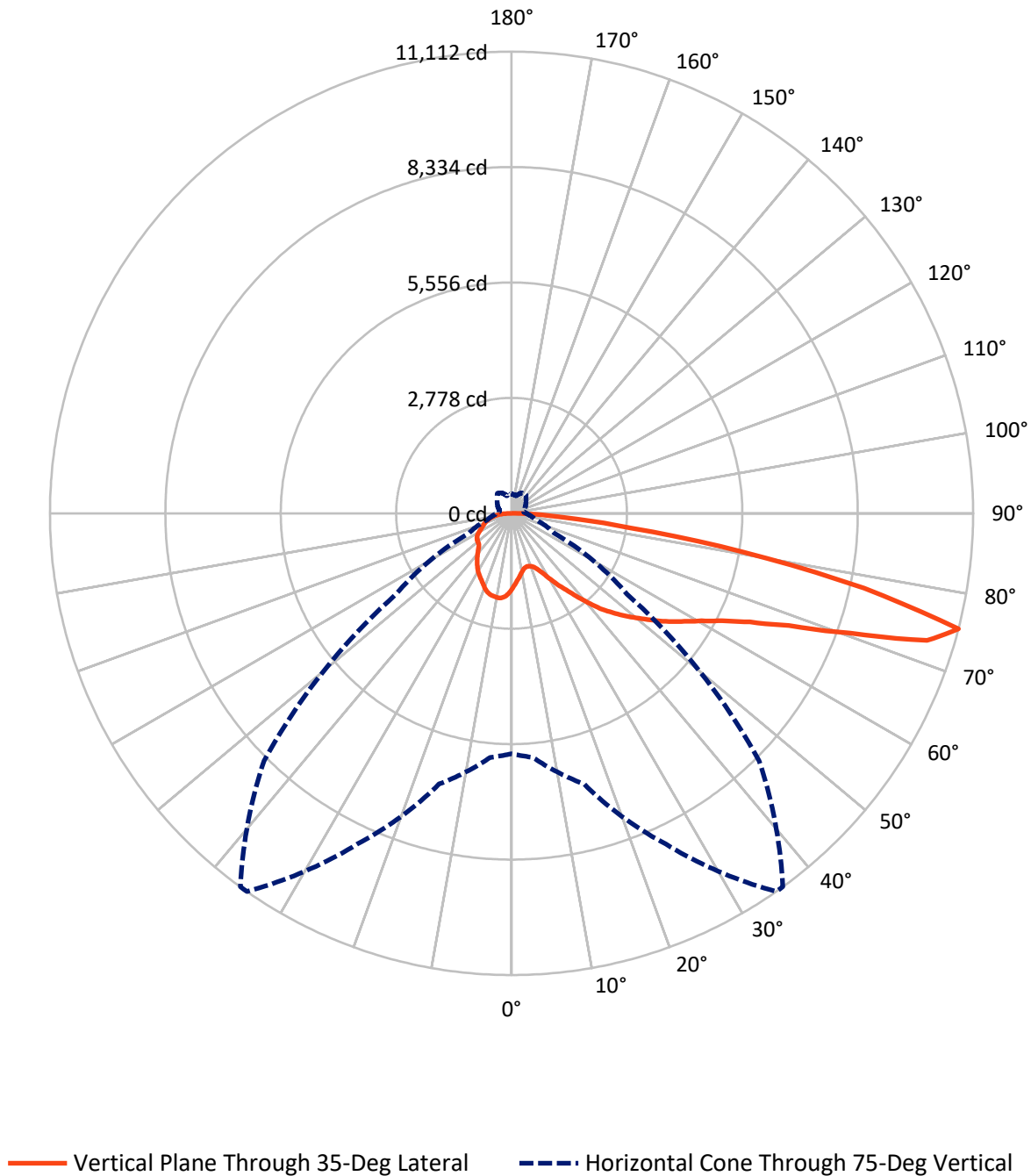
× Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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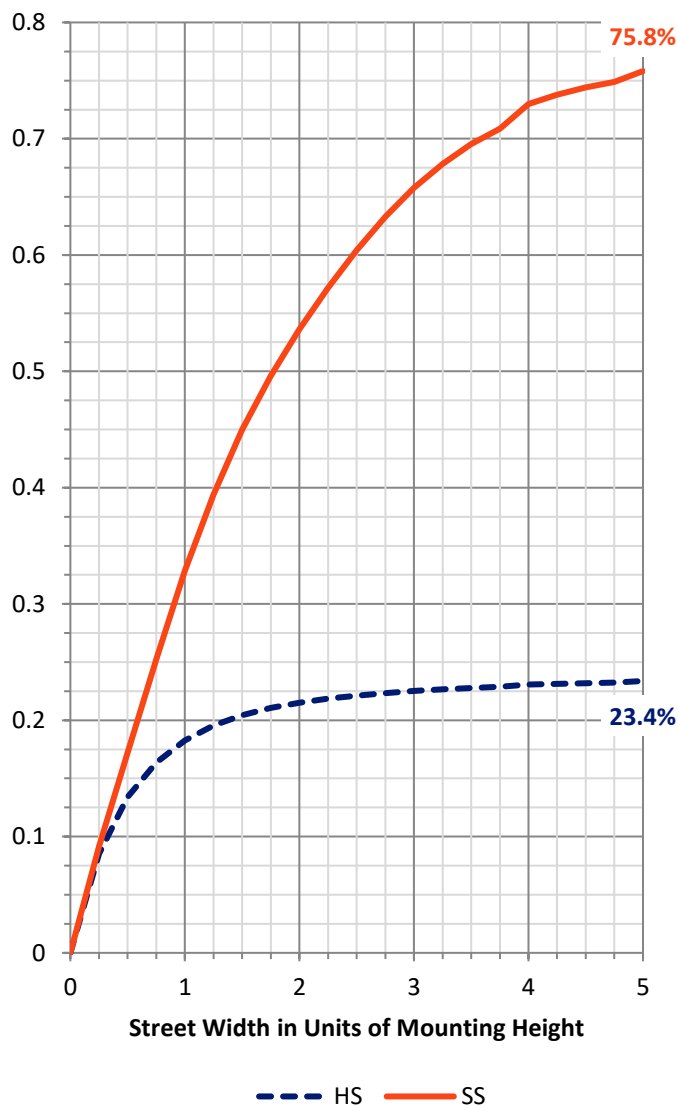
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3244.4	0.0	3244.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10389.1	0.0	10389.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	13633.5	0.0	13633.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.3
10°-20°	496.2	3.6
20°-30°	833.2	6.1
30°-40°	1294.9	9.5
40°-50°	1921.9	14.1
50°-60°	2653.3	19.5
60°-70°	3219.1	23.6
70°-80°	2660.3	19.5
80°-90°	382.6	2.8
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°	13633.5	100.0
0°-180°	13633.5	100.0

Coefficient of Utilization



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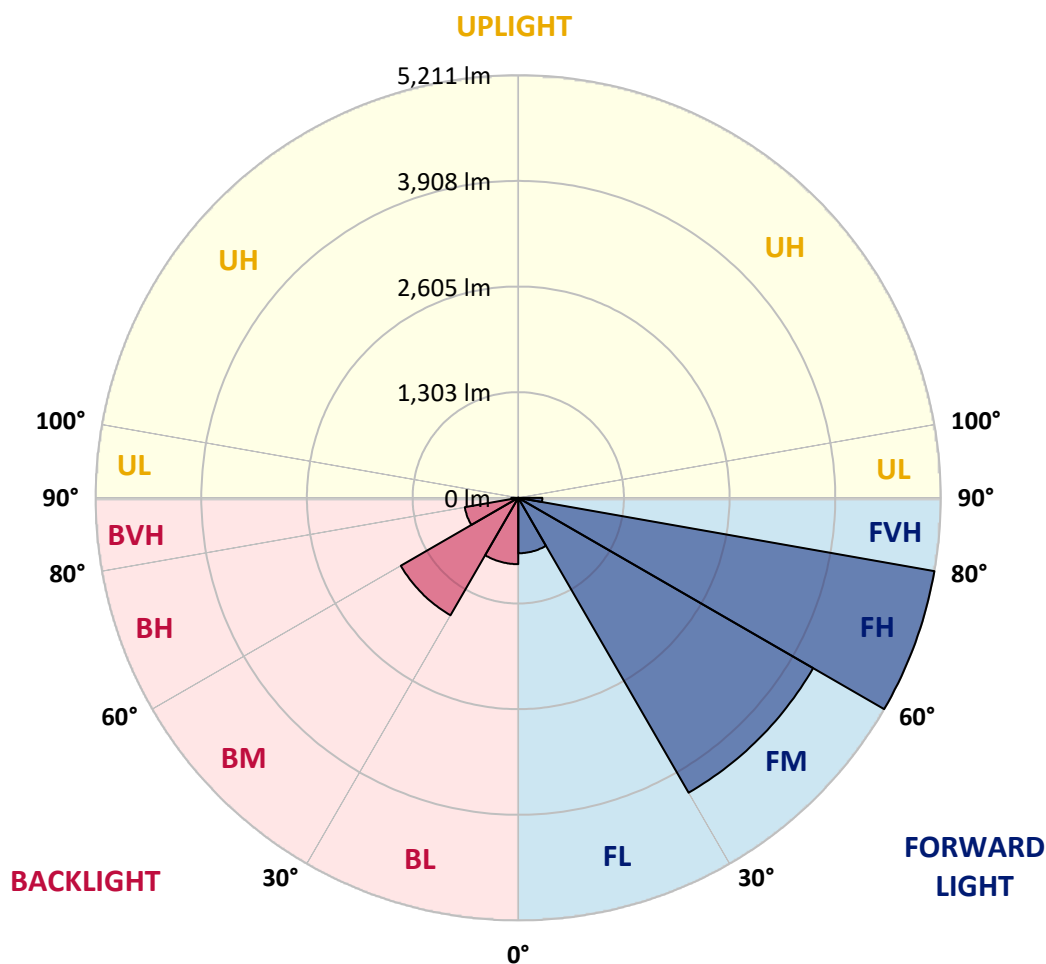
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.7	5.0			
FM	(30°-60°)	4198.4	30.8			
FH	(60°-80°)	5210.5	38.2			G3/7500
FVH	(80°-90°)	296.5	2.2			G3/500
BL	(0°-30°)	817.6	6.0	B2/1000		
BM	(30°-60°)	1671.7	12.3	B2/2500		
BH	(60°-80°)	668.9	4.9	B2/1000		G2/1000
BVH	(80°-90°)	86.2	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1675.3	1685.6	1690.0	1687.8	1698.8	1697.4	1712.9	1732.0	1758.5	1784.3	1821.9
5°	1546.3	1557.3	1566.9	1575.7	1597.2	1603.7	1628.1	1664.9	1713.6	1763.0	1824.9
7.5°	1426.2	1435.7	1450.5	1466.7	1502.8	1509.4	1550.0	1607.4	1675.3	1747.5	1833.0
10°	1328.1	1337.7	1353.2	1371.6	1416.6	1424.6	1476.2	1552.9	1641.3	1732.8	1841.8
12.5°	1286.1	1289.0	1297.9	1316.3	1355.4	1360.6	1417.3	1505.0	1608.2	1721.7	1855.0
15°	1283.9	1289.8	1290.5	1300.1	1332.5	1334.8	1387.0	1474.1	1587.5	1719.4	1875.0
17.5°	1306.0	1310.5	1303.8	1309.6	1336.9	1340.6	1381.9	1459.3	1581.0	1729.1	1908.9
20°	1365.0	1368.7	1348.8	1340.6	1360.6	1363.5	1404.0	1468.9	1587.5	1749.0	1955.3
22.5°	1490.2	1492.5	1443.8	1410.7	1412.1	1413.6	1448.9	1508.0	1613.4	1785.0	2014.3
25°	1685.6	1684.1	1606.7	1542.6	1505.7	1497.6	1521.2	1571.3	1656.8	1833.0	2090.2
27.5°	1914.1	1903.0	1825.6	1729.8	1649.4	1637.6	1632.5	1653.8	1718.7	1896.4	2183.0
30°	2172.0	2161.7	2078.4	1953.1	1841.8	1822.7	1774.0	1763.0	1810.9	1982.6	2312.0
32.5°	2455.0	2448.4	2348.9	2197.1	2048.2	2026.1	1944.2	1914.8	1952.4	2113.0	2491.9
35°	2692.4	2686.4	2603.9	2447.7	2265.6	2238.3	2155.1	2121.9	2141.0	2280.3	2727.0
37.5°	2906.8	2903.8	2833.1	2710.0	2522.1	2488.9	2395.3	2384.3	2380.6	2500.7	3012.2
40°	3105.9	3098.5	3024.8	2959.9	2820.6	2790.4	2707.8	2698.2	2670.2	2771.9	3335.0
42.5°	3326.2	3307.1	3200.2	3169.9	3132.3	3107.3	3057.9	3059.4	2997.5	3077.8	3677.0
45°	3506.0	3494.9	3385.2	3367.4	3408.0	3397.7	3440.4	3451.5	3331.4	3398.4	4032.2
47.5°	3699.1	3688.8	3595.9	3583.4	3693.2	3696.2	3847.2	3850.9	3657.1	3731.5	4388.2
50°	3937.1	3922.5	3830.3	3845.8	3968.9	3979.9	4256.3	4231.2	3957.1	4069.9	4741.2
52.5°	4094.2	4103.0	4083.1	4108.2	4276.2	4286.5	4658.7	4594.6	4254.1	4403.7	5087.7
55°	4209.9	4227.5	4289.4	4346.9	4600.5	4610.9	5038.3	4940.3	4500.3	4713.3	5413.4
57.5°	4358.7	4333.7	4449.4	4561.5	4908.5	4935.9	5407.5	5273.4	4718.4	4980.1	5636.8
60°	4572.5	4554.8	4644.7	4810.5	5253.5	5297.0	5798.1	5573.3	4878.4	5191.6	5680.2
62.5°	5005.9	4961.6	4975.7	5122.3	5688.3	5745.8	6238.9	5835.0	4957.9	5274.1	5447.4
65°	5653.7	5577.7	5507.0	5608.7	6300.8	6357.6	6736.4	6040.6	4928.5	5114.2	4829.0
67.5°	6469.6	6394.4	6307.4	6403.3	7202.9	7247.9	7350.3	6156.4	4696.3	4498.0	3735.9
70°	7142.5	7114.5	7218.4	7612.7	8643.8	8645.3	8137.5	6060.5	4060.2	3189.1	2161.7
72.5°	7053.3	7036.3	7584.0	8803.0	10459.8	10420.8	8882.5	5335.3	2735.1	1438.7	810.0
75°	5786.3	5896.2	6744.5	8781.6	11112.1	11106.9	8426.4	3391.7	1131.3	596.2	418.6
77.5°	3102.9	3276.8	4378.7	6483.5	8674.8	8805.2	5924.2	1186.6	485.7	381.8	289.7
80°	1012.0	1163.8	1745.3	3301.1	5636.8	5612.4	2539.0	465.8	332.4	270.5	200.5
82.5°	429.7	447.4	779.8	1558.8	2892.9	2847.9	808.5	267.5	233.6	185.0	123.8
85°	168.0	188.0	344.2	720.8	1253.0	1225.7	291.8	132.6	149.6	120.8	73.7
87.5°	55.2	67.0	123.1	246.9	389.9	375.9	71.4	45.7	64.9	55.2	26.5
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°	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7	1816.7
2.5°	1832.2	1844.1	1858.0	1878.6	1896.4	1911.1	1926.6	1936.1	1939.8	1950.9	1950.2
5°	1845.5	1871.3	1906.0	1939.8	1973.0	1992.9	2010.6	2019.5	2027.6	2033.4	2034.9
7.5°	1867.7	1900.8	1955.3	1999.6	2027.6	2043.7	2055.5	2052.6	2055.5	2057.1	2059.2
10°	1886.8	1933.3	1998.0	2040.1	2061.5	2062.2	2059.2	2048.9	2043.7	2044.5	2046.0
12.5°	1909.6	1961.2	2031.2	2066.6	2072.5	2056.3	2043.7	2026.1	2019.5	2016.5	2015.0
15°	1940.5	1999.6	2067.3	2080.6	2065.9	2045.3	2023.9	1995.2	1980.4	1968.6	1972.3
17.5°	1978.1	2043.0	2095.3	2085.8	2054.1	2020.2	1985.5	1942.1	1911.8	1899.3	1900.0
20°	2030.5	2088.7	2116.7	2074.7	2026.8	1975.2	1916.2	1863.1	1835.2	1822.7	1821.2
22.5°	2093.9	2149.9	2137.3	2055.5	1987.8	1905.2	1831.5	1792.4	1778.5	1769.6	1771.1
25°	2169.8	2217.7	2152.1	2027.6	1923.6	1812.3	1755.6	1743.0	1736.5	1729.8	1729.8
27.5°	2268.5	2294.4	2163.2	1986.2	1823.4	1713.6	1692.9	1695.1	1692.9	1681.9	1684.1
30°	2399.0	2393.9	2173.5	1919.2	1708.4	1624.4	1625.9	1635.5	1636.9	1629.5	1633.2
32.5°	2570.7	2518.4	2178.6	1832.2	1598.6	1546.3	1547.7	1558.1	1565.5	1552.9	1558.8
35°	2778.6	2663.6	2170.5	1723.1	1513.8	1471.8	1460.7	1463.7	1466.0	1454.2	1462.3
37.5°	3021.1	2826.4	2134.5	1602.3	1443.8	1398.8	1375.2	1355.4	1343.6	1332.5	1339.9
40°	3287.1	3004.1	2068.0	1484.4	1365.7	1321.4	1286.1	1248.6	1208.7	1194.0	1200.6
42.5°	3565.7	3186.9	1987.8	1371.6	1275.8	1239.6	1202.1	1147.6	1087.8	1057.6	1061.3
45°	3854.6	3374.1	1908.9	1260.3	1183.7	1168.2	1124.7	1059.1	994.2	955.9	952.9
47.5°	4137.6	3551.0	1793.1	1148.3	1097.5	1114.4	1080.5	1020.1	947.8	887.3	880.8
50°	4408.1	3716.8	1603.7	1034.7	1027.5	1098.2	1065.7	978.8	896.3	818.9	812.2
52.5°	4676.4	3850.9	1361.3	931.6	989.8	1093.8	1046.5	950.8	849.8	768.7	759.8
55°	4904.1	3920.2	1127.6	843.2	935.3	1056.2	1023.8	917.6	784.2	697.9	690.5
57.5°	5033.9	3864.2	933.1	756.1	860.1	994.2	984.6	846.9	706.0	639.7	630.9
60°	4977.8	3637.2	773.9	680.3	788.6	927.2	916.9	776.8	646.4	583.7	574.9
62.5°	4669.1	3204.6	647.8	614.0	723.8	858.6	849.0	723.0	600.6	540.3	530.6
65°	4047.0	2606.9	549.8	558.6	658.2	776.1	790.1	678.0	564.6	505.6	496.0
67.5°	3086.7	1888.3	473.1	510.8	594.1	695.1	735.5	645.6	534.3	478.4	469.4
70°	1759.3	1072.4	408.4	464.3	537.3	619.8	693.5	619.8	501.9	455.5	449.6
72.5°	667.0	492.3	353.0	417.9	482.8	556.5	647.1	579.3	464.3	429.7	423.8
75°	356.0	300.0	297.0	363.4	420.1	494.6	588.9	539.5	436.3	454.0	468.7
77.5°	242.5	212.3	248.4	311.0	351.6	426.0	527.0	479.1	378.1	376.6	347.2
80°	168.0	150.4	201.9	250.6	271.9	358.2	459.9	411.2	308.1	287.4	274.9
82.5°	101.0	98.0	151.1	187.2	192.4	276.3	381.0	344.9	252.0	219.7	221.1
85°	55.2	58.2	96.6	109.8	112.0	193.1	298.5	266.8	193.8	162.9	164.3
87.5°	15.5	19.9	35.4	43.5	53.8	100.2	177.6	158.5	97.3	67.9	67.9
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)