

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: P960372

Luminaire Tested: **NAV-SB1C-740-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-740-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8074.9 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - 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

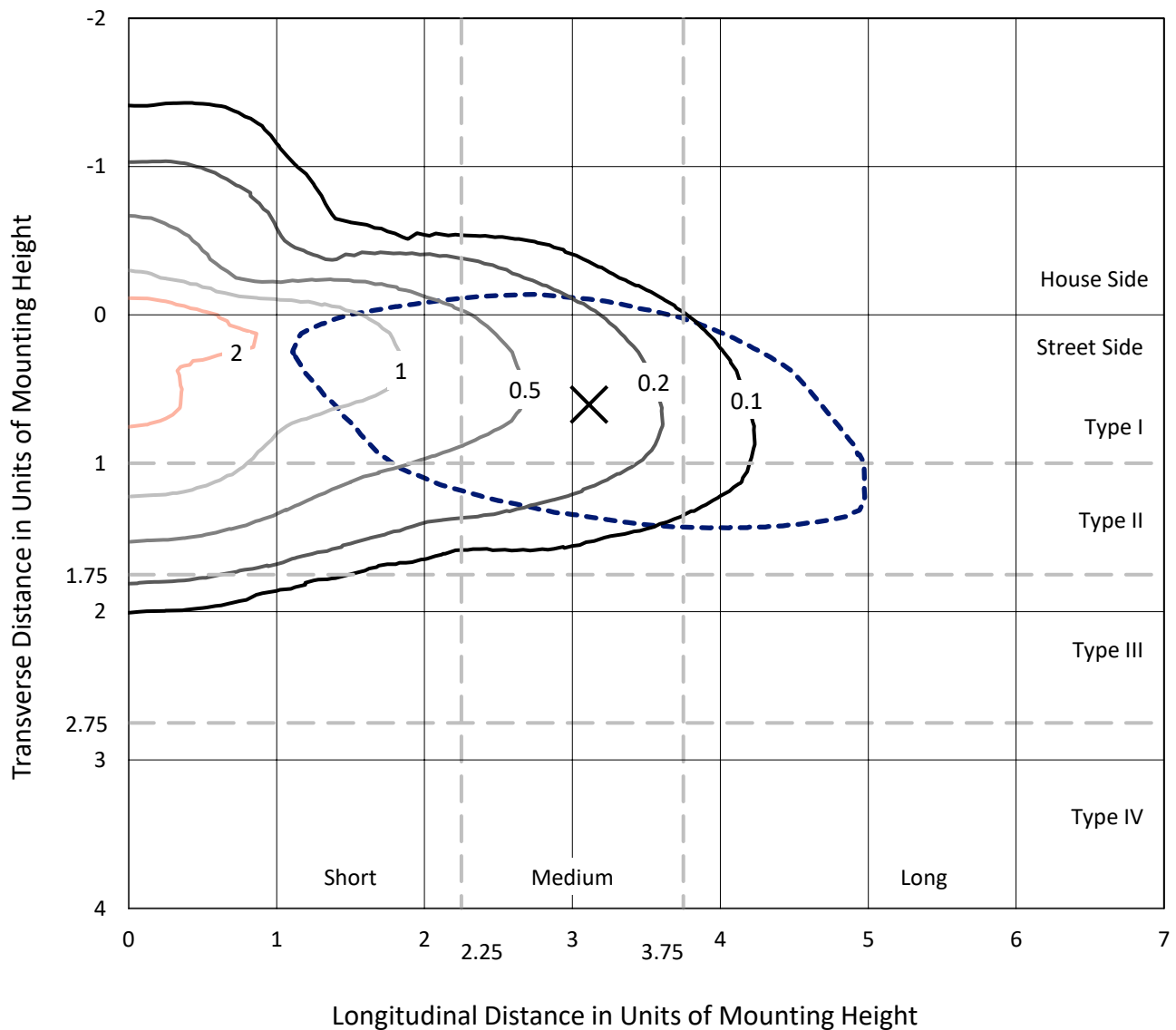


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Iso-Footcandle Lines of Horizontal Illumination

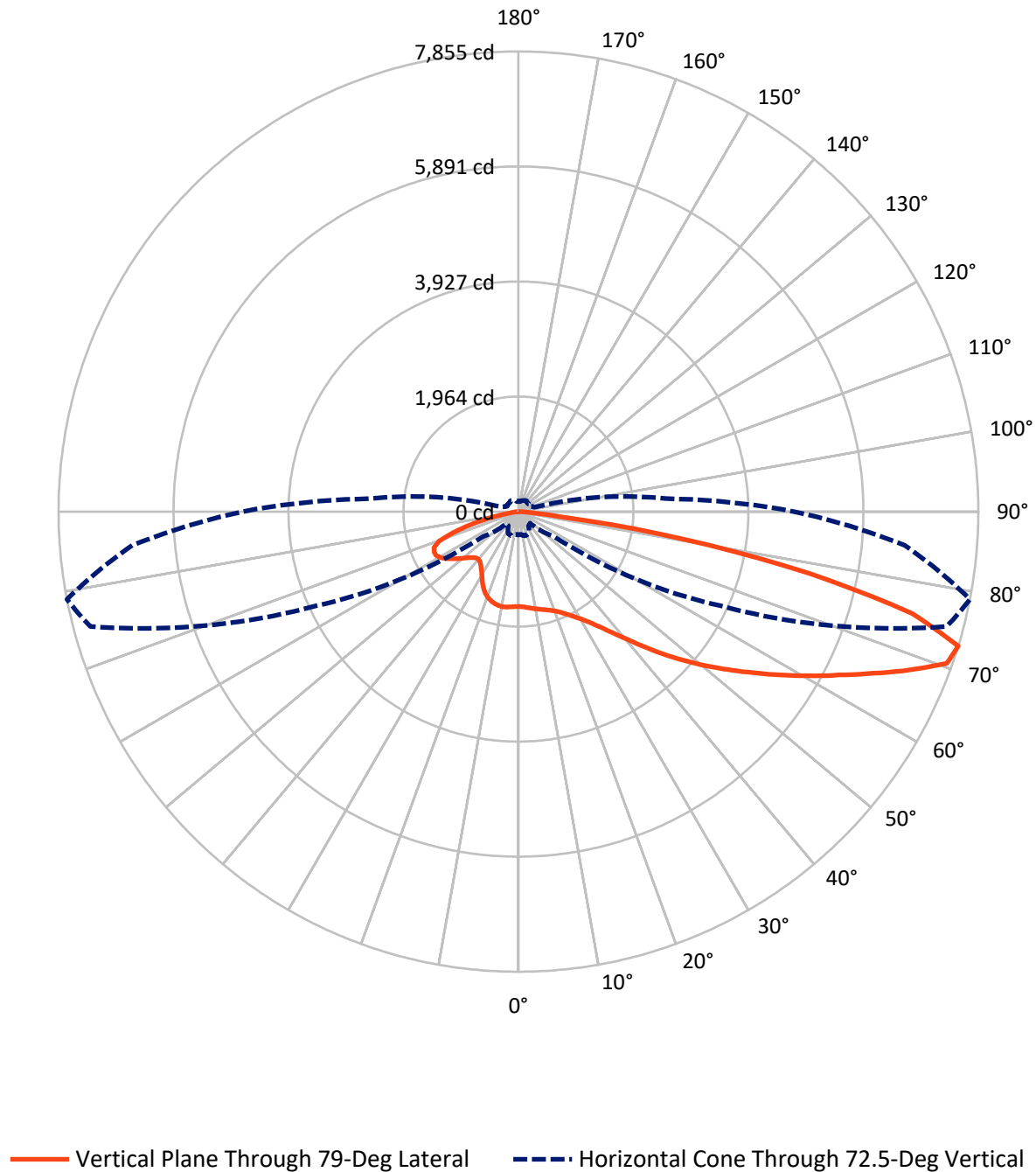
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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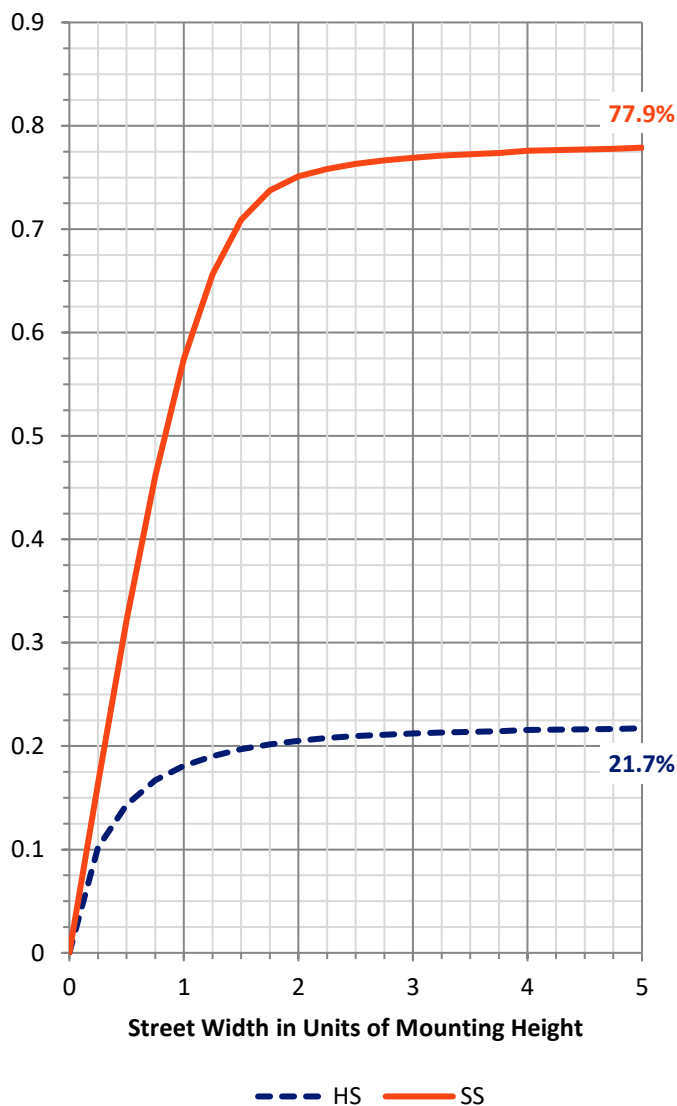
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.9	0.0	1776.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6298.0	0.0	6298.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	8074.9	0.0	8074.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	1.8
10°-20°	384.7	4.8
20°-30°	620.7	7.7
30°-40°	931.6	11.5
40°-50°	1321.6	16.4
50°-60°	1669.0	20.7
60°-70°	1695.1	21.0
70°-80°	1155.3	14.3
80°-90°	149.9	1.9
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°	8074.9	100.0
0°-180°	8074.9	100.0

Coefficient of Utilization



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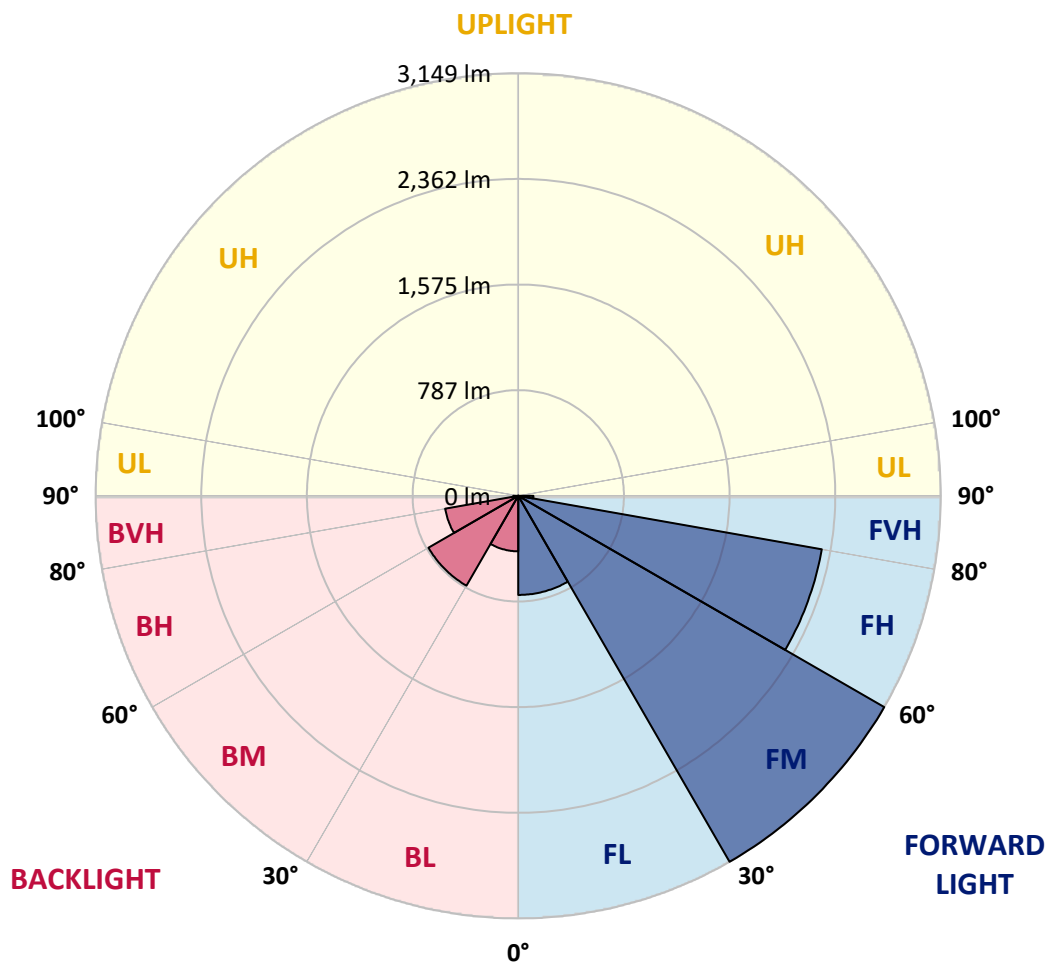
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	738.7	9.1			
FM	(30°-60°)	3149.4	39.0			
FH	(60°-80°)	2297.1	28.4			G2/5000
FVH	(80°-90°)	112.9	1.4			G2/225
BL	(0°-30°)	413.9	5.1	B1/500		
BM	(30°-60°)	772.8	9.6	B1/1000		
BH	(60°-80°)	553.3	6.9	B2/1000		G2/1000
BVH	(80°-90°)	37.0	0.5			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°	79°	85°
0°	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9
2.5°	1621.9	1614.2	1618.9	1617.1	1619.3	1621.9	1622.7	1624.0	1628.2	1627.8	1627.4
5°	1618.4	1610.7	1617.1	1615.0	1620.5	1626.6	1631.7	1636.3	1643.2	1646.2	1641.9
7.5°	1611.1	1606.0	1612.4	1618.9	1629.1	1638.1	1645.3	1656.0	1665.8	1667.6	1670.5
10°	1568.9	1565.0	1579.9	1596.6	1624.8	1649.1	1665.0	1677.3	1688.1	1689.7	1694.0
12.5°	1524.9	1520.2	1536.8	1559.4	1605.1	1649.1	1682.4	1698.7	1708.1	1713.7	1720.1
15°	1517.6	1513.7	1523.1	1542.8	1580.9	1637.6	1694.4	1724.4	1732.5	1738.8	1741.4
17.5°	1552.7	1545.4	1549.2	1556.1	1578.3	1627.0	1703.9	1753.4	1765.8	1772.6	1772.6
20°	1633.7	1623.5	1617.6	1603.9	1600.0	1628.6	1702.9	1788.4	1804.6	1813.2	1815.3
22.5°	1741.9	1735.0	1722.2	1687.6	1650.0	1649.6	1719.2	1833.2	1863.6	1871.6	1866.5
25°	1872.6	1862.3	1846.0	1799.1	1726.9	1691.0	1746.5	1890.5	1941.4	1943.5	1928.5
27.5°	2022.9	2007.6	1985.3	1923.4	1826.0	1755.9	1788.4	1956.3	2030.6	2029.7	1999.0
30°	2181.4	2166.0	2142.5	2067.3	1944.7	1843.5	1846.5	2027.1	2136.5	2131.8	2079.3
32.5°	2297.1	2285.5	2280.9	2222.8	2081.5	1946.9	1913.2	2105.8	2267.2	2263.0	2189.5
35°	2386.0	2371.0	2376.6	2347.0	2230.5	2062.6	1994.8	2199.3	2426.1	2425.7	2334.2
37.5°	2473.9	2460.7	2465.4	2445.8	2368.5	2209.6	2094.3	2313.7	2623.0	2632.4	2509.4
40°	2554.3	2540.2	2558.9	2540.6	2475.7	2365.9	2207.4	2443.2	2851.1	2869.1	2721.3
42.5°	2602.5	2591.4	2622.6	2623.0	2568.8	2497.8	2331.7	2585.9	3115.1	3155.3	2981.8
45°	2619.2	2615.3	2662.3	2672.2	2651.3	2574.3	2443.6	2741.4	3399.5	3471.3	3278.7
47.5°	2601.2	2594.0	2659.0	2695.2	2711.8	2610.2	2536.4	2909.7	3690.0	3795.1	3602.5
50°	2510.7	2496.6	2593.1	2669.6	2729.0	2633.7	2629.8	3104.0	4020.2	4135.1	3927.9
52.5°	2348.0	2337.3	2447.1	2579.9	2691.3	2645.2	2734.9	3316.3	4333.7	4482.3	4261.5
55°	2139.9	2125.8	2246.7	2420.1	2597.9	2641.4	2840.0	3553.8	4703.6	4854.4	4606.2
57.5°	1810.2	1782.0	1934.9	2139.9	2445.3	2636.7	2949.3	3789.9	5079.5	5260.1	4973.9
60°	1329.2	1287.4	1474.9	1717.9	2147.2	2591.0	3084.7	4054.8	5530.5	5693.3	5375.5
62.5°	774.0	749.6	872.2	1099.0	1618.4	2321.9	3160.8	4362.7	5973.9	6144.8	5770.1
65°	601.0	594.2	604.9	622.4	900.9	1738.4	2926.3	4663.0	6537.7	6657.3	6181.5
67.5°	549.7	544.6	549.3	516.4	457.0	968.3	2315.1	4739.1	7141.7	7214.3	6541.5
70°	488.6	482.7	498.0	469.9	359.7	440.3	1495.8	4463.2	7622.2	7758.4	6815.3
72.5°	398.1	391.2	427.1	414.3	302.9	282.8	751.3	3807.5	7571.8	7854.6	6619.2
75°	305.9	302.0	344.7	355.4	246.9	222.5	360.5	2830.2	6663.3	6948.2	5704.7
77.5°	237.5	234.5	256.2	295.2	199.1	172.6	221.7	1795.3	5021.4	5071.4	3931.3
80°	178.1	169.5	189.6	228.5	155.1	126.0	150.4	1046.9	3174.0	2877.2	1711.1
82.5°	111.5	107.2	123.8	152.5	109.4	86.7	97.8	578.3	1272.0	749.2	330.2
85°	63.7	61.9	67.4	87.1	59.3	50.0	56.0	255.4	232.4	159.8	99.5
87.5°	25.6	24.8	30.7	38.8	21.8	18.3	19.7	61.5	51.2	47.5	32.9
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°	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9	1620.9
2.5°	1625.6	1625.6	1619.7	1610.3	1599.6	1592.7	1581.7	1578.7	1567.1	1563.7	1569.3
5°	1645.3	1641.9	1623.5	1597.1	1560.8	1527.5	1490.7	1467.6	1435.2	1423.6	1432.1
7.5°	1670.1	1660.7	1629.1	1571.0	1495.0	1420.2	1342.4	1283.5	1227.1	1207.0	1209.6
10°	1692.7	1679.5	1625.6	1524.0	1392.5	1263.0	1139.2	1052.5	986.7	959.8	965.8
12.5°	1715.3	1691.0	1603.0	1445.9	1246.8	1071.2	939.3	871.8	831.2	798.8	809.4
15°	1736.8	1702.5	1568.0	1341.2	1087.0	909.0	811.6	757.8	725.3	703.9	707.8
17.5°	1761.5	1712.4	1515.5	1208.4	935.0	796.6	717.2	684.7	678.2	675.7	677.4
20°	1796.1	1721.4	1446.3	1059.7	823.1	706.9	665.9	662.9	662.5	661.2	665.4
22.5°	1833.2	1732.0	1354.8	924.8	727.9	651.0	643.7	637.8	633.9	633.4	638.2
25°	1877.3	1735.4	1240.4	814.2	646.7	624.4	615.9	607.0	604.4	604.4	607.0
27.5°	1919.9	1723.9	1107.1	718.0	601.0	600.1	589.1	586.0	585.6	586.9	590.3
30°	1962.7	1702.1	974.7	629.1	574.5	574.5	570.6	572.8	574.5	578.7	581.8
32.5°	2020.4	1679.1	864.1	563.3	551.4	547.1	551.0	555.2	557.0	562.5	567.2
35°	2104.9	1662.9	776.1	527.5	527.5	521.9	524.1	523.3	519.4	516.8	522.9
37.5°	2216.9	1661.9	703.5	510.9	507.5	506.6	507.0	501.4	486.5	468.5	469.0
40°	2351.4	1685.0	647.5	499.3	496.7	501.8	499.3	484.4	443.4	412.2	411.3
42.5°	2532.1	1750.8	611.6	485.2	492.9	499.3	489.0	437.4	409.6	388.7	387.9
45°	2744.7	1857.6	593.3	470.3	485.6	493.3	443.8	421.2	398.9	373.7	372.1
47.5°	2985.6	1992.2	589.1	456.2	469.4	474.2	424.6	414.3	389.1	361.8	359.7
50°	3247.9	2151.5	600.5	439.5	446.0	429.7	418.2	408.8	382.7	355.8	352.8
52.5°	3519.1	2327.1	623.6	416.9	422.4	404.5	415.6	407.4	378.8	342.6	340.0
55°	3785.6	2503.9	645.9	390.4	398.5	381.8	408.4	402.3	361.3	320.3	318.3
57.5°	4056.4	2679.9	667.6	367.0	375.5	360.1	396.8	388.7	341.7	299.8	299.0
60°	4338.0	2850.7	677.8	344.3	350.2	340.0	379.2	365.2	319.5	278.9	277.7
62.5°	4601.5	2992.9	661.2	321.6	325.4	321.2	356.2	337.4	297.2	255.4	255.0
65°	4865.9	3077.5	610.0	299.4	300.3	298.2	323.8	307.5	271.2	234.9	232.4
67.5°	5105.5	3124.9	528.4	275.5	273.4	272.5	293.5	275.1	246.0	214.4	211.9
70°	5156.4	3004.5	403.6	247.3	247.3	245.2	260.1	241.3	218.2	192.6	191.8
72.5°	4709.6	2527.3	286.6	215.2	218.7	214.4	226.8	211.0	190.0	173.0	167.9
75°	3797.6	1853.3	208.5	182.3	188.4	181.1	192.6	181.5	163.6	163.2	146.9
77.5°	2609.3	1145.9	151.2	150.4	154.7	145.2	158.5	152.5	136.2	128.9	120.8
80°	1113.6	457.0	110.2	116.1	116.1	107.6	123.0	124.7	110.6	107.2	107.2
82.5°	221.7	129.9	77.3	79.8	75.1	72.6	87.1	96.6	133.2	148.2	148.6
85°	66.6	47.9	46.5	43.6	38.4	38.8	51.2	97.0	119.6	68.4	58.9
87.5°	18.3	12.0	12.4	9.8	8.1	10.7	17.5	73.5	40.2	17.1	14.6
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)