

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: P964697

Luminaire Tested: **NAV-SB3C-827-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-827-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15707.1 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 149.1
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

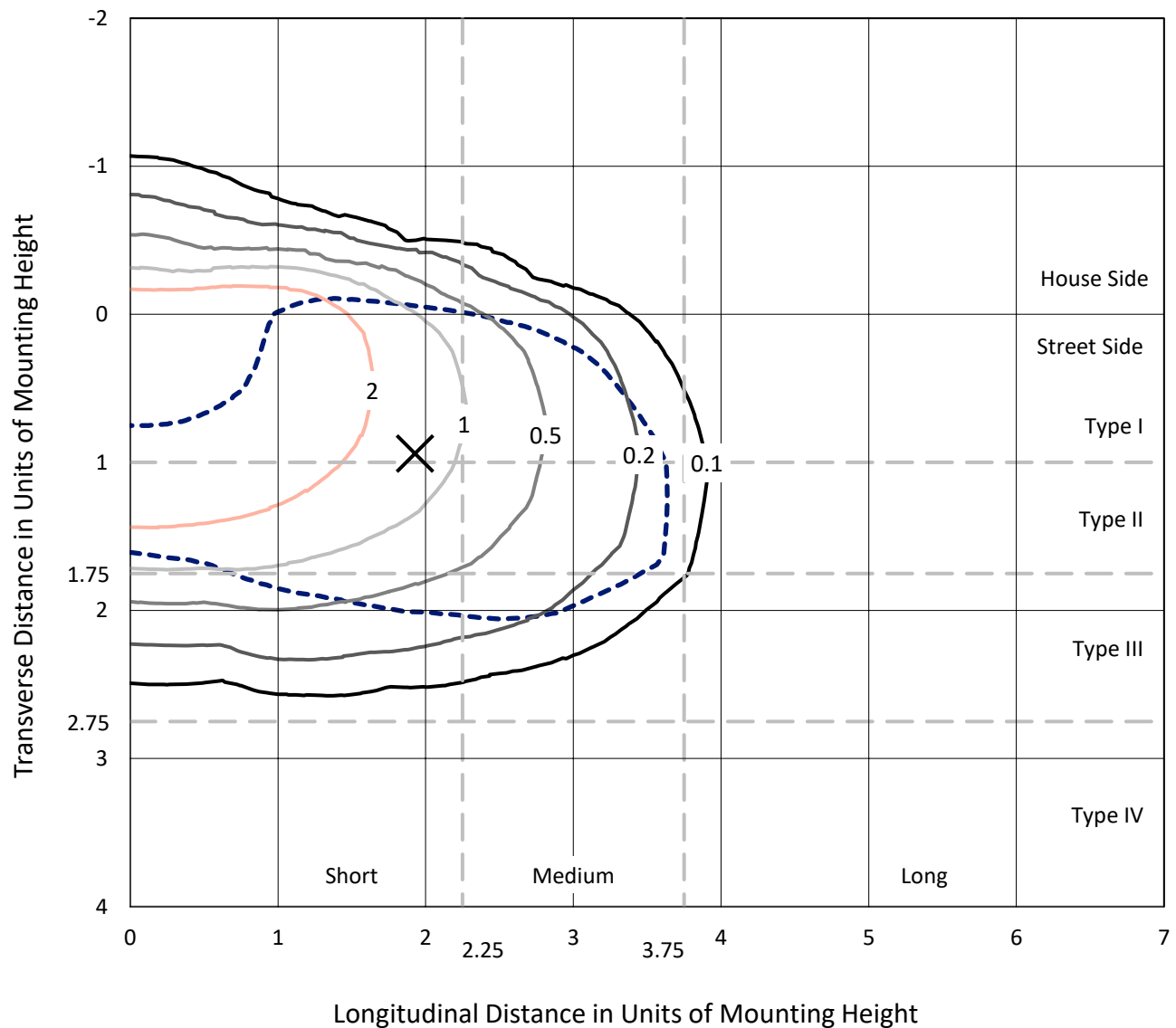


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Iso-Footcandle Lines of Horizontal Illumination

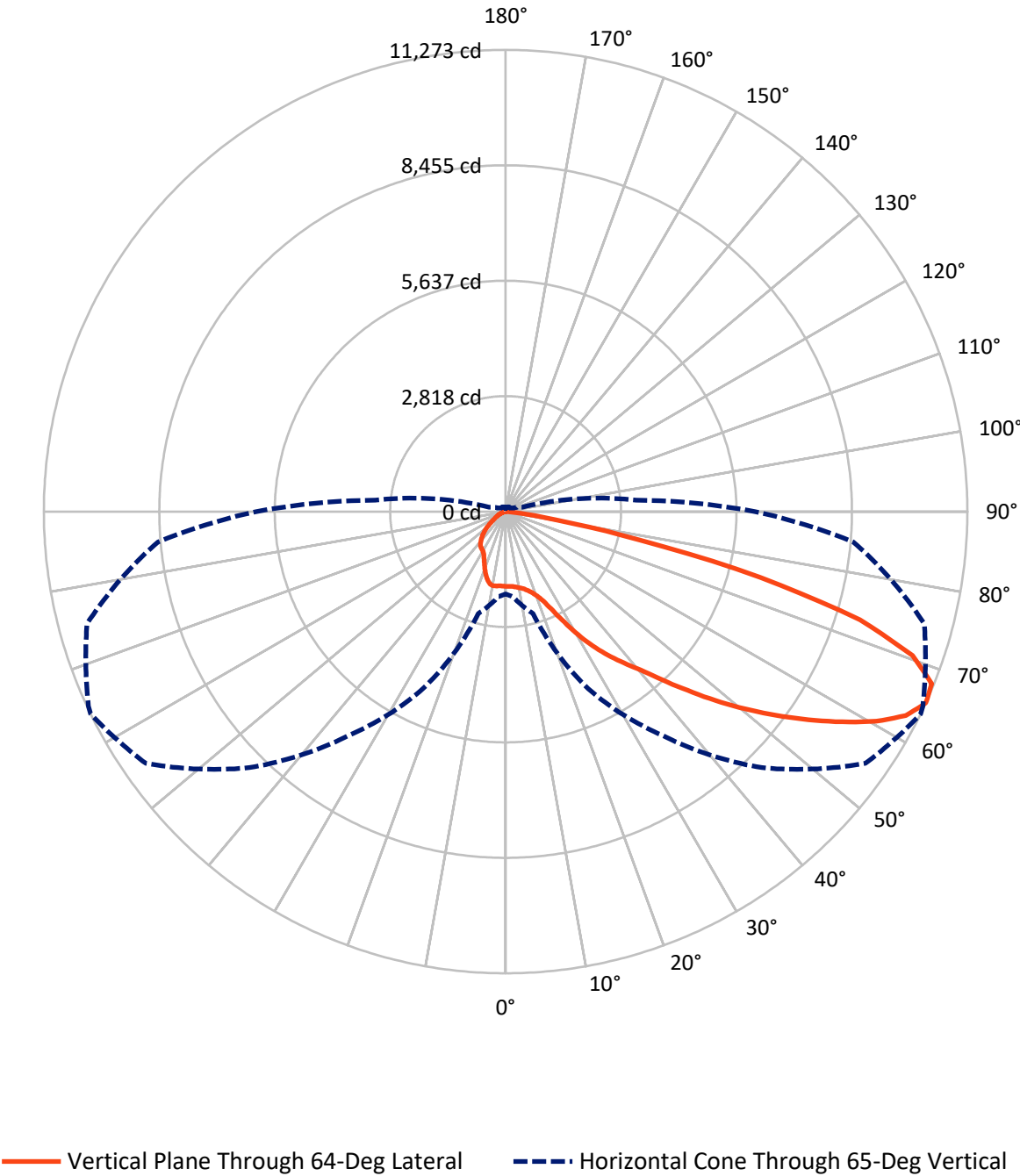
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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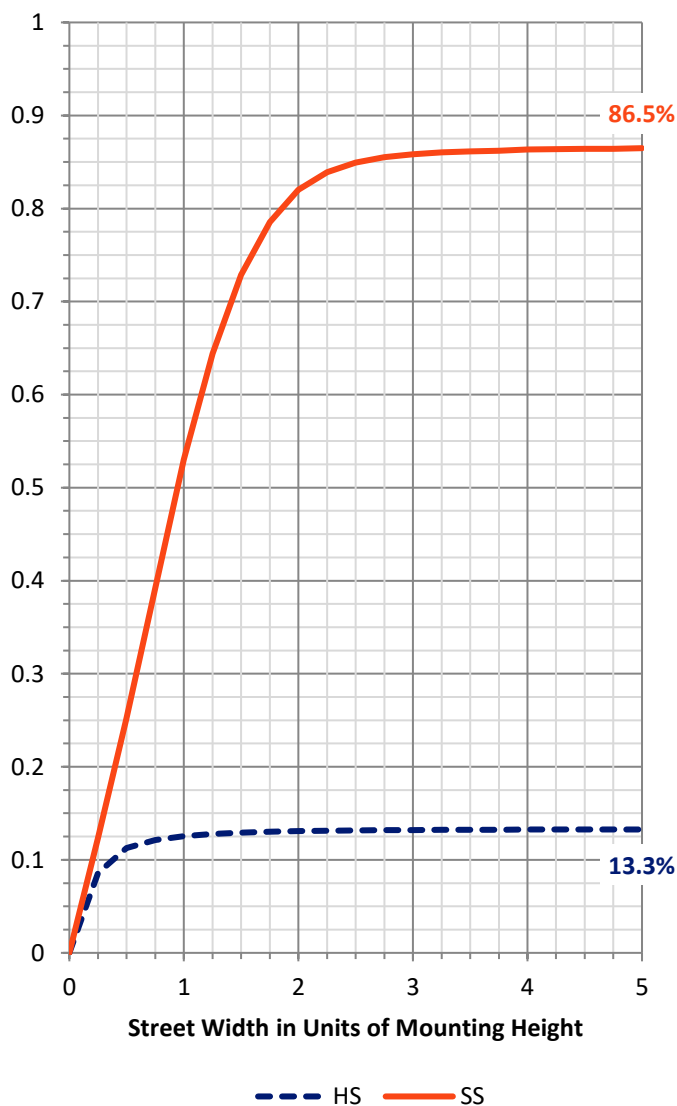
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2100.5	0.0	2100.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	13606.6	0.0	13606.6
	% Fixture	86.6	0.0	86.6
Total	Lumens	15707.1	0.0	15707.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.1
10°-20°	457.2	2.9
20°-30°	866.3	5.5
30°-40°	1752.9	11.2
40°-50°	2986.1	19.0
50°-60°	4060.9	25.9
60°-70°	3813.4	24.3
70°-80°	1527.8	9.7
80°-90°	74.0	0.5
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°	15707.1	100.0
0°-180°	15707.1	100.0

Coefficient of Utilization



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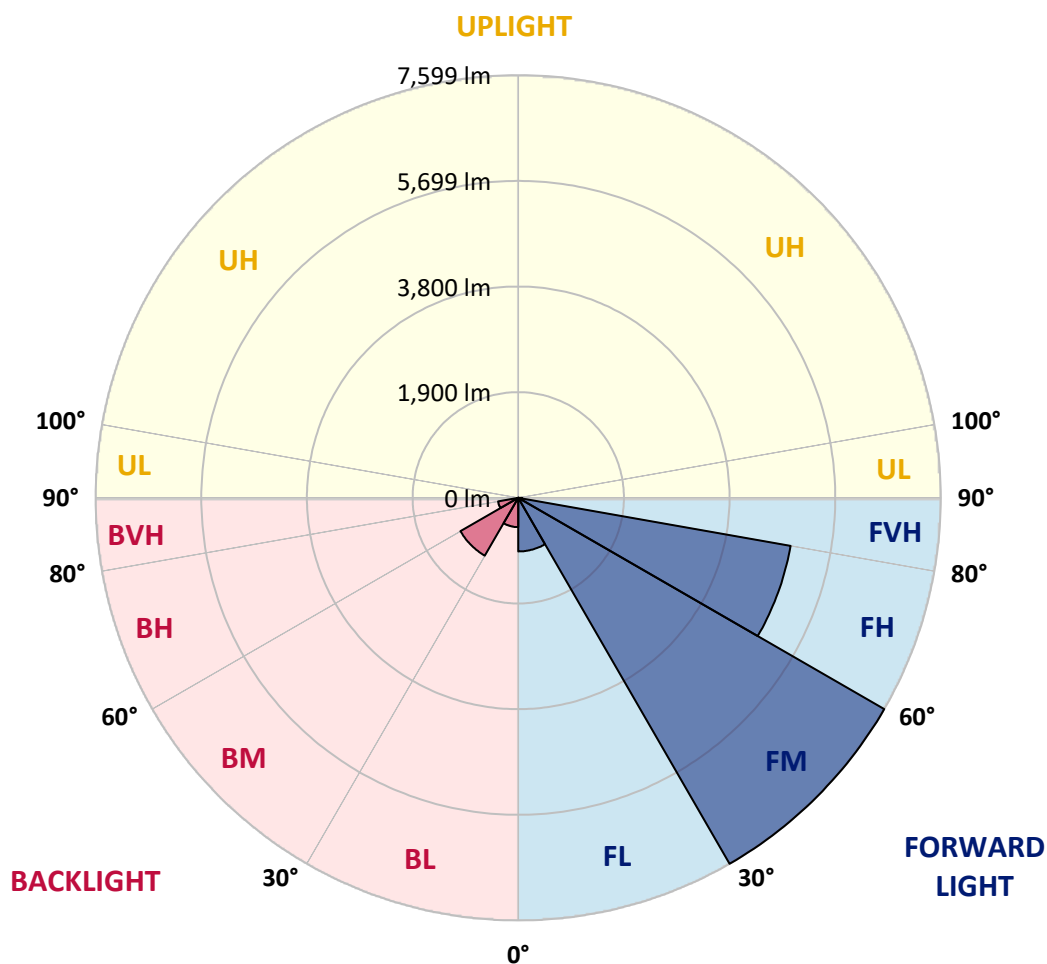
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	964.6	6.1			
FM	(30°-60°)	7599.1	48.4			
FH	(60°-80°)	4972.5	31.7			G2/5000
FVH	(80°-90°)	70.4	0.4			G1/100
BL	(0°-30°)	527.4	3.4	B2/1000		
BM	(30°-60°)	1200.9	7.6	B2/2500		
BH	(60°-80°)	368.7	2.3	B1/500		G1/500
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9
2.5°	1820.6	1833.2	1830.0	1826.9	1825.8	1828.0	1829.0	1828.0	1828.0	1828.0	1829.0
5°	1785.9	1796.3	1796.3	1803.7	1814.2	1826.9	1836.4	1838.4	1840.6	1843.8	1842.6
7.5°	1719.5	1727.9	1734.2	1758.5	1784.7	1818.5	1846.9	1861.6	1863.8	1875.3	1879.5
10°	1674.2	1684.8	1695.2	1720.6	1758.5	1809.0	1857.4	1893.3	1898.5	1925.9	1938.5
12.5°	1672.1	1682.6	1696.4	1723.7	1767.9	1821.6	1880.6	1932.2	1941.7	1981.7	2008.0
15°	1694.2	1706.8	1719.5	1753.2	1800.6	1865.8	1929.0	1993.3	2002.7	2059.6	2088.0
17.5°	1739.5	1756.3	1765.9	1799.5	1850.0	1922.7	2005.9	2079.6	2088.0	2154.3	2190.2
20°	1829.0	1849.0	1852.2	1879.5	1929.0	2007.0	2106.0	2197.5	2208.1	2283.9	2323.9
22.5°	2014.3	2042.7	2017.5	2031.1	2075.4	2153.3	2260.7	2376.6	2391.3	2477.6	2513.4
25°	2340.8	2380.8	2315.5	2292.3	2311.3	2392.4	2527.1	2673.5	2690.3	2759.8	2777.7
27.5°	2982.0	2930.4	2831.5	2734.6	2677.7	2724.0	2875.6	3056.8	3077.9	3145.2	3124.2
30°	3686.4	3641.2	3507.4	3292.6	3157.8	3150.4	3290.6	3492.7	3516.9	3581.1	3516.9
32.5°	4391.9	4348.8	4203.4	3939.2	3705.4	3589.6	3686.4	3910.7	3923.4	3964.4	3869.7
35°	5085.8	5041.6	4896.3	4625.7	4338.2	4075.0	4056.0	4308.8	4313.0	4356.1	4215.0
37.5°	5784.0	5747.1	5592.3	5326.9	5043.7	4680.5	4504.6	4685.7	4691.0	4733.0	4586.8
40°	6282.0	6297.8	6191.4	5986.1	5742.9	5345.9	5007.9	5086.9	5055.3	5125.8	5038.5
42.5°	6709.5	6741.1	6648.5	6545.2	6404.2	6054.6	5631.2	5617.6	5567.1	5604.9	5514.4
45°	7079.1	7105.4	7022.3	6998.0	6994.9	6749.5	6312.6	6230.4	6159.8	6152.5	6044.0
47.5°	7215.0	7265.5	7301.3	7382.4	7540.3	7437.1	7016.9	6889.5	6810.6	6752.7	6581.0
50°	7266.5	7320.2	7442.4	7678.3	8052.1	8096.3	7718.2	7575.1	7478.2	7372.9	7120.2
52.5°	7197.0	7292.9	7457.1	7854.1	8396.4	8624.9	8391.1	8265.8	8155.2	7983.6	7608.8
55°	6787.4	6883.3	7219.2	7852.0	8568.0	8995.5	9027.1	8971.3	8847.1	8576.4	8003.6
57.5°	5924.0	6066.2	6597.9	7584.5	8564.8	9314.6	9650.5	9690.5	9551.5	9164.0	8314.2
60°	4727.8	4920.5	5569.1	6991.7	8300.6	9487.2	10196.9	10397.0	10249.6	9743.1	8565.9
62.5°	3299.0	3522.2	4136.1	6063.0	7696.1	9363.0	10596.0	10965.7	10854.0	10261.2	8662.8
65°	2012.2	2083.8	2578.7	4771.0	6668.4	8842.8	10719.2	11273.1	11236.3	10578.1	8519.6
67.5°	1340.4	1400.5	1542.6	3271.6	5176.4	7803.5	10424.4	11219.3	11229.9	10526.5	7995.2
70°	807.6	859.3	951.9	1902.7	3354.7	6176.8	9511.5	10534.9	10596.0	9836.8	7001.2
72.5°	332.7	367.5	451.7	862.3	1737.4	3920.2	7574.0	9045.0	9187.2	8271.0	5373.3
75°	188.5	206.3	265.4	432.8	753.9	1826.9	4587.8	6421.0	6630.5	5700.7	3232.6
77.5°	125.3	133.8	171.6	280.1	424.4	623.4	1960.6	3345.3	3745.5	3113.6	1399.4
80°	84.3	91.6	118.0	187.5	275.8	267.4	624.4	1239.3	1524.7	1069.8	341.1
82.5°	56.9	57.9	84.3	123.2	174.8	129.6	184.3	385.4	484.4	309.5	129.6
85°	32.6	31.6	62.1	71.6	77.9	53.7	55.8	115.8	151.6	130.6	73.7
87.5°	4.2	6.4	24.2	19.0	10.6	11.6	11.6	20.0	29.5	31.6	15.8
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°	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9	1826.9
2.5°	1829.0	1828.0	1824.8	1821.6	1814.2	1810.0	1812.2	1810.0	1809.0	1810.0	1814.2
5°	1842.6	1839.6	1831.1	1820.6	1805.8	1787.9	1776.3	1759.5	1743.7	1734.2	1736.4
7.5°	1879.5	1876.4	1864.8	1835.4	1787.9	1713.2	1644.7	1584.8	1539.4	1513.1	1514.1
10°	1938.5	1933.3	1915.3	1850.0	1725.8	1562.6	1426.8	1314.2	1240.4	1205.6	1202.5
12.5°	2008.0	2001.7	1970.2	1836.4	1607.9	1353.1	1165.6	1040.4	971.9	941.4	938.2
15°	2090.2	2081.7	2019.6	1771.1	1436.2	1121.5	949.8	856.1	811.8	784.4	785.6
17.5°	2192.3	2177.5	2056.5	1673.2	1249.9	944.5	817.1	746.5	707.6	681.3	679.2
20°	2324.9	2300.7	2086.0	1556.3	1078.2	832.9	727.6	668.6	639.2	616.0	611.8
22.5°	2510.2	2475.5	2121.8	1430.0	957.1	756.0	661.2	618.1	593.9	567.5	563.3
25°	2739.8	2698.7	2165.9	1313.0	873.9	689.7	612.8	577.1	548.6	518.0	514.9
27.5°	3061.0	2987.3	2218.6	1217.2	802.4	632.8	568.6	528.6	496.0	470.7	465.5
30°	3419.0	3297.9	2264.9	1159.3	737.1	580.2	510.7	470.7	440.1	422.2	419.1
32.5°	3758.1	3593.8	2295.5	1134.1	678.1	520.2	447.5	404.4	381.2	375.9	379.0
35°	4078.2	3861.3	2292.3	1109.9	625.5	460.1	385.4	341.1	323.3	326.5	326.5
37.5°	4446.7	4146.6	2270.2	1071.9	582.3	405.4	331.7	292.7	277.0	278.0	282.2
40°	4875.2	4476.2	2256.5	1000.3	534.9	354.9	287.4	255.8	244.3	240.1	239.0
42.5°	5332.3	4795.3	2258.6	919.2	475.9	309.5	257.0	230.6	220.1	216.9	215.9
45°	5791.4	5099.5	2261.8	835.0	413.8	274.8	234.8	212.7	206.3	202.1	202.1
47.5°	6223.1	5358.6	2202.8	744.5	352.7	248.5	216.9	202.1	196.9	191.7	191.7
50°	6625.3	5531.2	2060.7	639.2	304.3	227.4	203.3	192.7	187.5	182.1	182.1
52.5°	6938.0	5558.6	1825.8	530.7	270.6	211.7	194.7	185.3	179.0	173.7	172.7
55°	7077.0	5387.0	1492.1	429.6	244.3	197.9	186.3	176.9	169.5	164.3	163.2
57.5°	7041.2	5025.8	1163.6	345.3	219.0	184.3	175.9	169.5	161.1	152.7	151.6
60°	6865.3	4542.5	877.1	287.4	195.9	169.5	164.3	159.0	147.4	134.8	132.6
62.5°	6561.0	3935.0	625.5	238.0	170.6	152.7	150.6	146.4	129.6	106.4	104.2
65°	6095.7	3196.8	421.2	197.9	146.4	133.8	134.8	127.4	105.3	78.9	76.9
67.5°	5415.4	2337.6	269.6	162.2	122.2	111.6	112.6	108.4	89.5	67.3	64.3
70°	4548.8	1547.9	175.9	123.2	97.9	86.3	92.7	93.7	75.8	54.7	52.7
72.5°	3334.7	914.0	123.2	91.6	71.6	60.1	75.8	77.9	61.1	41.1	38.9
75°	1900.7	433.8	92.7	66.3	44.2	42.1	58.9	58.9	42.1	27.4	25.3
77.5°	798.2	181.1	65.3	43.2	25.3	24.2	40.0	36.9	21.0	12.6	12.6
80°	230.6	81.1	34.7	21.0	10.6	9.4	15.8	11.6	5.2	2.2	2.2
82.5°	90.5	35.8	13.7	8.4	4.2	4.2	2.2	0.0	0.0	0.0	0.0
85°	53.7	14.8	6.4	3.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	3.2	2.2	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)