

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: P964728

Luminaire Tested: **NAV-SB3C-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964728
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-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 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: 16230.9 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

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

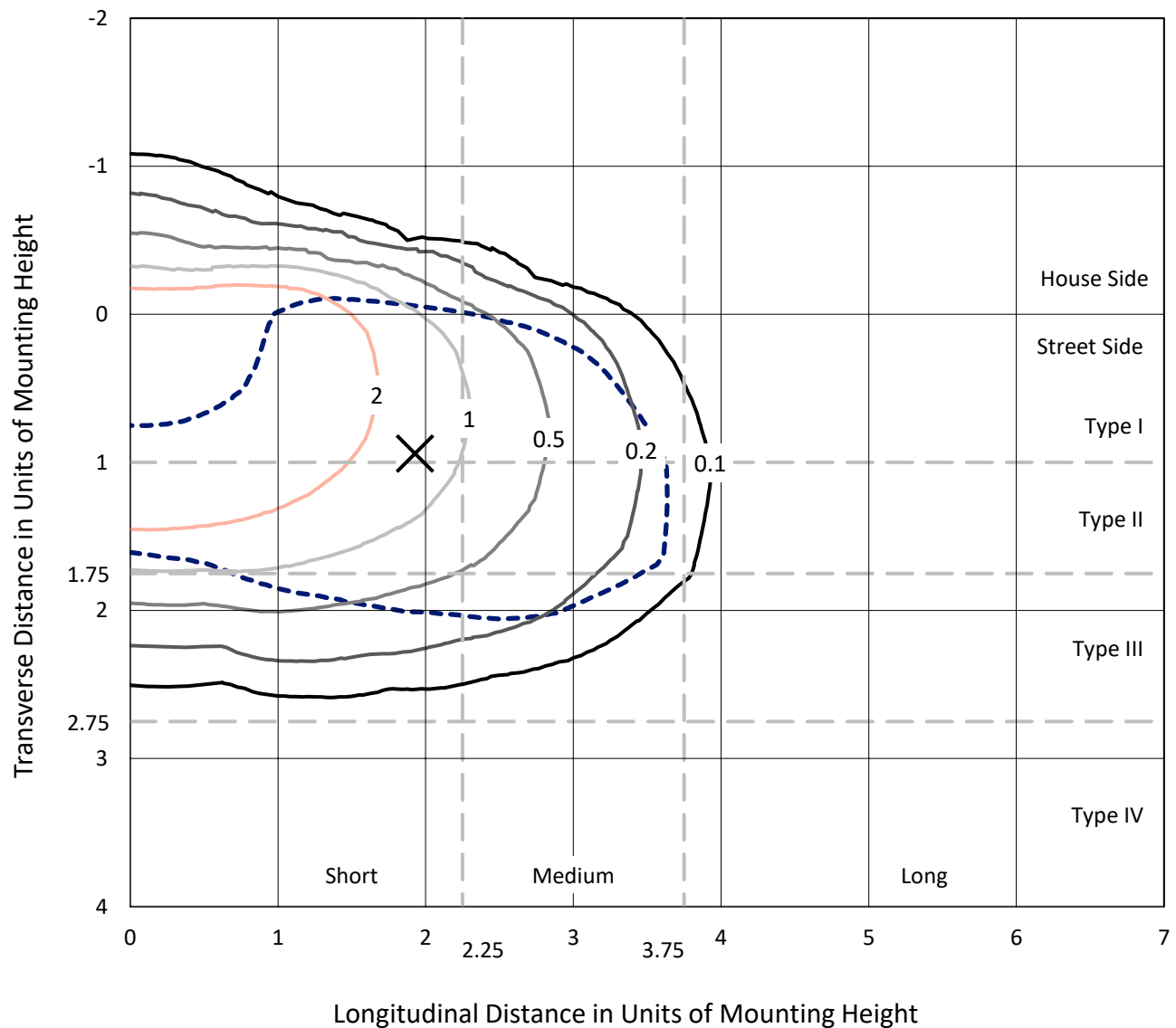


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

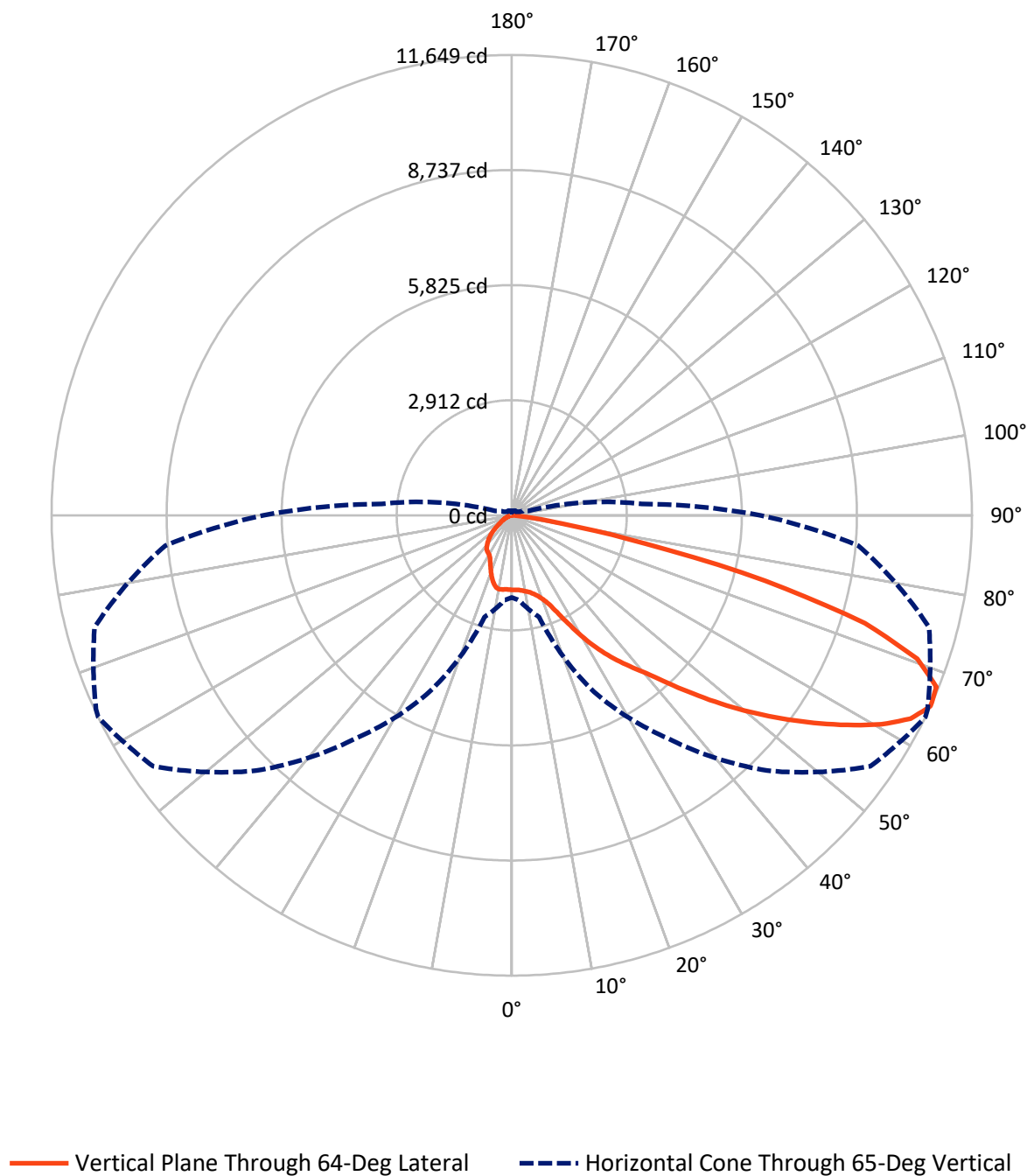


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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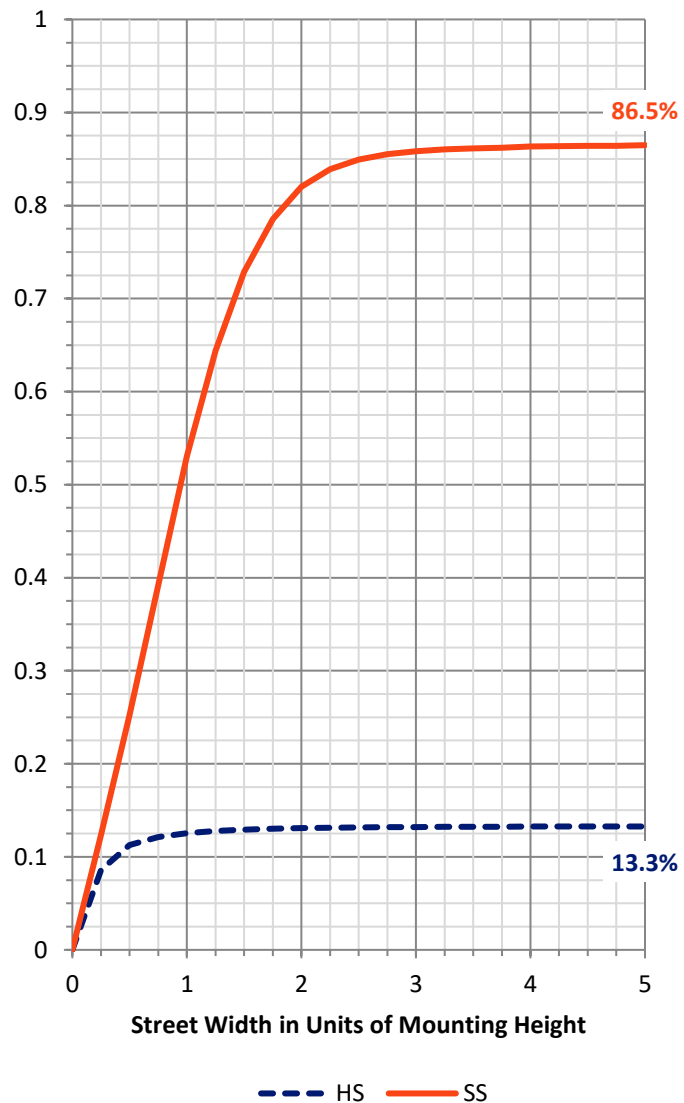
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2170.6	0.0	2170.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	14060.3	0.0	14060.3
	% Fixture	86.6	0.0	86.6
Total	Lumens	16230.9	0.0	16230.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.2	1.1
10°-20°	472.4	2.9
20°-30°	895.2	5.5
30°-40°	1811.4	11.2
40°-50°	3085.7	19.0
50°-60°	4196.3	25.9
60°-70°	3940.5	24.3
70°-80°	1578.7	9.7
80°-90°	76.5	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°	16230.9	100.0
0°-180°	16230.9	100.0

Coefficient of Utilization



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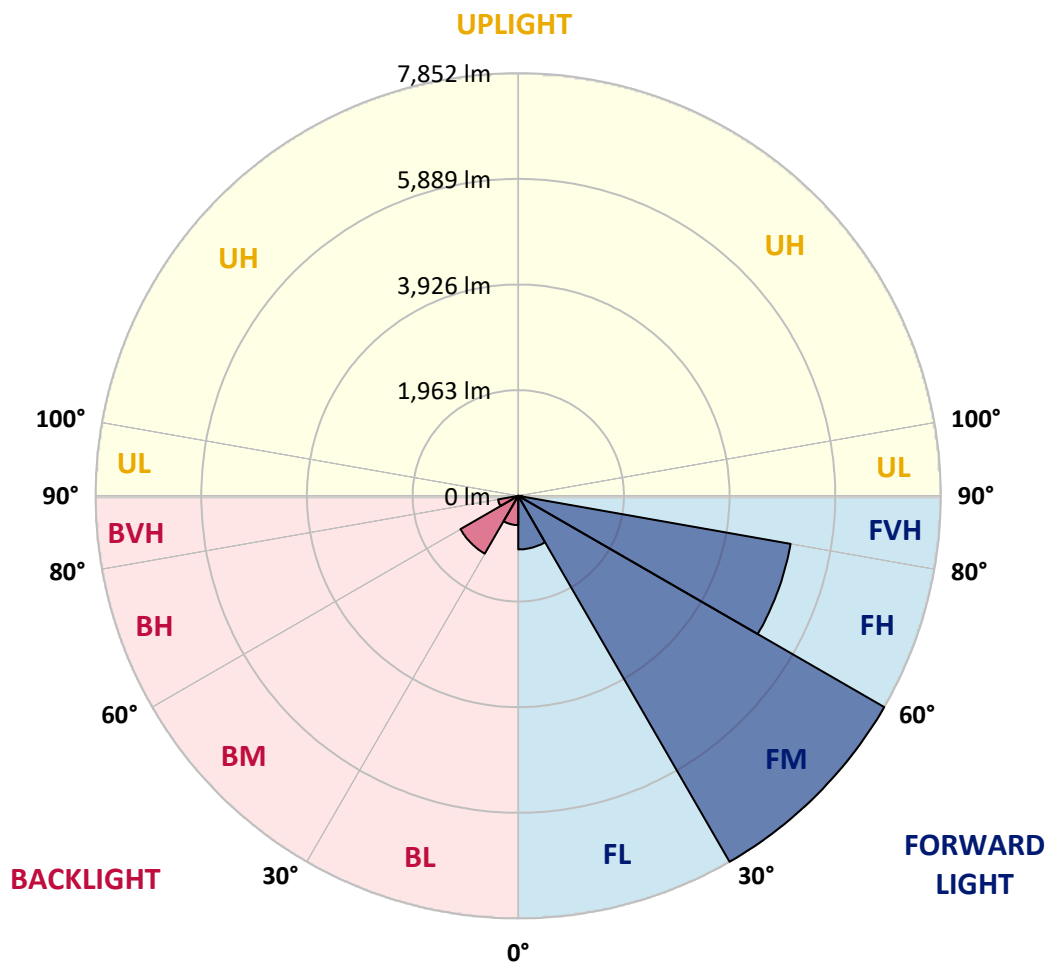
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	996.8	6.1			
FM	(30°-60°)	7852.5	48.4			
FH	(60°-80°)	5138.3	31.7			G3/7500
FVH	(80°-90°)	72.8	0.4			G1/100
BL	(0°-30°)	545.0	3.4	B2/1000		
BM	(30°-60°)	1240.9	7.6	B2/2500		
BH	(60°-80°)	381.0	2.3	B1/500		G1/500
BVH	(80°-90°)	3.7	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8
2.5°	1881.3	1894.3	1891.1	1887.8	1886.7	1888.9	1890.0	1888.9	1888.9	1888.9	1890.0
5°	1845.4	1856.3	1856.3	1863.9	1874.7	1887.8	1897.6	1899.8	1902.0	1905.3	1904.1
7.5°	1776.8	1785.6	1792.1	1817.1	1844.3	1879.1	1908.4	1923.7	1925.9	1937.9	1942.3
10°	1730.1	1741.0	1751.8	1778.0	1817.1	1869.3	1919.4	1956.4	1961.8	1990.1	2003.2
12.5°	1727.8	1738.7	1752.9	1781.1	1826.9	1882.4	1943.3	1996.6	2006.4	2047.7	2075.0
15°	1750.7	1763.8	1776.8	1811.7	1860.6	1928.1	1993.3	2059.7	2069.6	2128.3	2157.6
17.5°	1797.5	1815.0	1824.7	1859.6	1911.7	1986.9	2072.8	2148.9	2157.6	2226.2	2263.2
20°	1890.0	1910.7	1914.0	1942.3	1993.3	2073.9	2176.2	2270.8	2281.8	2360.1	2401.4
22.5°	2081.5	2110.9	2084.7	2098.9	2144.6	2225.2	2336.1	2455.8	2471.1	2560.2	2597.2
25°	2418.8	2460.1	2392.7	2368.8	2388.4	2472.1	2611.4	2762.7	2780.0	2851.9	2870.3
27.5°	3081.5	3028.2	2925.9	2825.7	2767.0	2814.9	2971.6	3158.7	3180.5	3250.1	3228.3
30°	3809.4	3762.6	3624.4	3402.4	3263.2	3255.5	3400.2	3609.1	3634.1	3700.6	3634.1
32.5°	4538.4	4493.8	4343.6	4070.5	3829.0	3709.3	3809.4	4041.2	4054.2	4096.6	3998.7
35°	5255.4	5209.8	5059.6	4780.0	4482.9	4210.9	4191.3	4452.4	4456.8	4501.4	4355.6
37.5°	5976.8	5938.7	5778.7	5504.6	5211.9	4836.6	4654.8	4842.0	4847.4	4890.9	4739.7
40°	6491.5	6507.8	6397.9	6185.8	5934.3	5524.1	5174.9	5256.5	5223.9	5296.8	5206.5
42.5°	6933.2	6965.9	6870.2	6763.5	6617.7	6256.5	5819.0	5804.9	5752.7	5791.9	5698.3
45°	7315.1	7342.4	7256.4	7231.4	7228.1	6974.6	6523.0	6438.1	6365.2	6357.7	6245.5
47.5°	7455.5	7507.7	7544.7	7628.6	7791.7	7685.1	7251.0	7119.3	7037.8	6977.9	6800.5
50°	7508.8	7564.3	7690.6	7934.3	8320.5	8366.3	7975.6	7827.6	7727.6	7618.7	7357.6
52.5°	7437.0	7536.0	7705.7	8115.9	8676.3	8912.5	8670.9	8541.4	8427.1	8249.8	7862.5
55°	7013.8	7112.8	7459.8	8113.8	8853.7	9295.5	9328.1	9270.4	9142.1	8862.5	8270.5
57.5°	6121.5	6268.4	6817.9	7837.5	8850.5	9625.2	9972.2	10013.6	9869.9	9469.6	8591.4
60°	4885.5	5084.6	5754.9	7224.8	8577.3	9803.6	10537.0	10743.7	10591.3	10068.0	8851.5
62.5°	3408.9	3639.7	4273.9	6265.2	7952.8	9675.2	10949.4	11331.3	11216.0	10603.3	8951.6
65°	2079.3	2153.3	2664.7	4930.0	6890.8	9137.7	11076.7	11649.0	11610.9	10930.8	8803.6
67.5°	1385.1	1447.2	1594.1	3380.7	5349.0	8063.8	10772.0	11593.5	11604.3	10877.5	8261.8
70°	834.6	887.9	983.6	1966.2	3466.7	6382.7	9828.6	10886.2	10949.4	10164.8	7234.7
72.5°	343.8	379.8	466.8	891.1	1795.3	4050.9	7826.6	9346.6	9493.6	8546.9	5552.4
75°	194.7	213.3	274.2	447.2	779.1	1887.8	4740.7	6635.1	6851.6	5890.9	3340.4
77.5°	129.5	138.2	177.3	289.5	438.5	644.1	2026.0	3456.8	3870.3	3217.5	1446.1
80°	87.0	94.7	121.9	193.7	285.1	276.3	645.2	1280.6	1575.5	1105.5	352.5
82.5°	58.7	59.9	87.0	127.3	180.6	133.9	190.4	398.2	500.5	319.9	133.9
85°	33.7	32.6	64.2	74.0	80.6	55.5	57.7	119.7	156.7	134.9	76.2
87.5°	4.3	6.6	25.0	19.6	10.9	12.0	12.0	20.7	30.4	32.6	16.3
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°	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8	1887.8
2.5°	1890.0	1888.9	1885.7	1882.4	1874.7	1870.4	1872.6	1870.4	1869.3	1870.4	1874.7
5°	1904.1	1900.9	1892.2	1881.3	1866.0	1847.6	1835.6	1818.1	1801.8	1792.1	1794.3
7.5°	1942.3	1939.0	1927.0	1896.6	1847.6	1770.3	1699.6	1637.5	1590.8	1563.5	1564.7
10°	2003.2	1997.7	1979.2	1911.7	1783.4	1614.7	1474.4	1357.9	1281.8	1245.9	1242.6
12.5°	2075.0	2068.4	2035.8	1897.6	1661.5	1398.2	1204.5	1075.0	1004.3	972.7	969.4
15°	2159.9	2151.2	2086.9	1830.1	1484.1	1158.8	981.4	884.6	838.9	810.6	811.7
17.5°	2265.4	2250.2	2125.0	1729.0	1291.6	976.0	844.4	771.4	731.2	704.0	701.8
20°	2402.5	2377.5	2155.5	1608.2	1114.2	860.7	751.8	691.0	660.5	636.5	632.2
22.5°	2594.0	2558.1	2192.5	1477.6	989.0	781.3	683.3	638.7	613.7	586.5	582.1
25°	2831.2	2788.7	2238.2	1356.8	903.1	712.7	633.2	596.2	566.9	535.4	532.1
27.5°	3163.0	3086.9	2292.6	1257.8	829.1	653.9	587.5	546.2	512.5	486.4	480.9
30°	3533.0	3407.8	2340.5	1198.0	761.7	599.5	527.7	486.4	454.8	436.3	433.1
32.5°	3883.3	3713.6	2372.1	1171.9	700.7	537.5	462.5	417.8	393.9	388.5	391.8
35°	4214.2	3990.0	2368.8	1146.9	646.4	475.5	398.2	352.5	334.0	337.3	337.3
37.5°	4595.0	4284.9	2345.9	1107.6	601.7	418.9	342.8	302.5	286.2	287.2	291.6
40°	5037.8	4625.4	2331.8	1033.7	552.8	366.6	297.0	264.4	252.5	248.0	247.0
42.5°	5510.0	4955.2	2333.9	949.9	491.8	319.9	265.5	238.3	227.4	224.2	223.0
45°	5984.5	5269.5	2337.2	862.8	427.6	284.0	242.6	219.8	213.3	208.9	208.9
47.5°	6430.5	5537.3	2276.2	769.3	364.5	256.8	224.2	208.9	203.5	198.0	198.0
50°	6846.2	5715.7	2129.3	660.5	314.5	235.0	210.0	199.2	193.7	188.2	188.2
52.5°	7169.4	5744.0	1886.7	548.4	279.6	218.7	201.3	191.5	185.0	179.6	178.5
55°	7313.0	5566.6	1541.8	443.9	252.5	204.6	192.6	182.8	175.2	169.7	168.6
57.5°	7276.0	5193.4	1202.3	356.9	226.3	190.4	181.7	175.2	166.5	157.7	156.7
60°	7094.3	4694.0	906.4	297.0	202.3	175.2	169.7	164.3	152.3	139.3	137.1
62.5°	6779.9	4066.2	646.4	245.9	176.3	157.7	155.6	151.3	133.9	109.9	107.7
65°	6298.9	3303.4	435.2	204.6	151.3	138.2	139.3	131.6	108.9	81.6	79.4
67.5°	5596.0	2415.5	278.6	167.6	126.2	115.3	116.4	112.0	92.5	69.6	66.4
70°	4700.5	1599.5	181.7	127.3	101.2	89.2	95.7	96.9	78.3	56.6	54.4
72.5°	3445.9	944.4	127.3	94.7	74.0	62.0	78.3	80.6	63.1	42.4	40.3
75°	1964.0	448.3	95.7	68.6	45.7	43.6	60.9	60.9	43.6	28.3	26.1
77.5°	824.7	187.2	67.4	44.6	26.1	25.0	41.3	38.1	21.7	13.0	13.0
80°	238.3	83.7	35.9	21.7	10.9	9.8	16.3	12.0	5.4	2.2	2.2
82.5°	93.6	37.0	14.1	8.7	4.3	4.3	2.2	0.0	0.0	0.0	0.0
85°	55.5	15.3	6.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.1	3.3	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)