

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: P964701

Luminaire Tested: **NAV-SB3C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15163.8 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

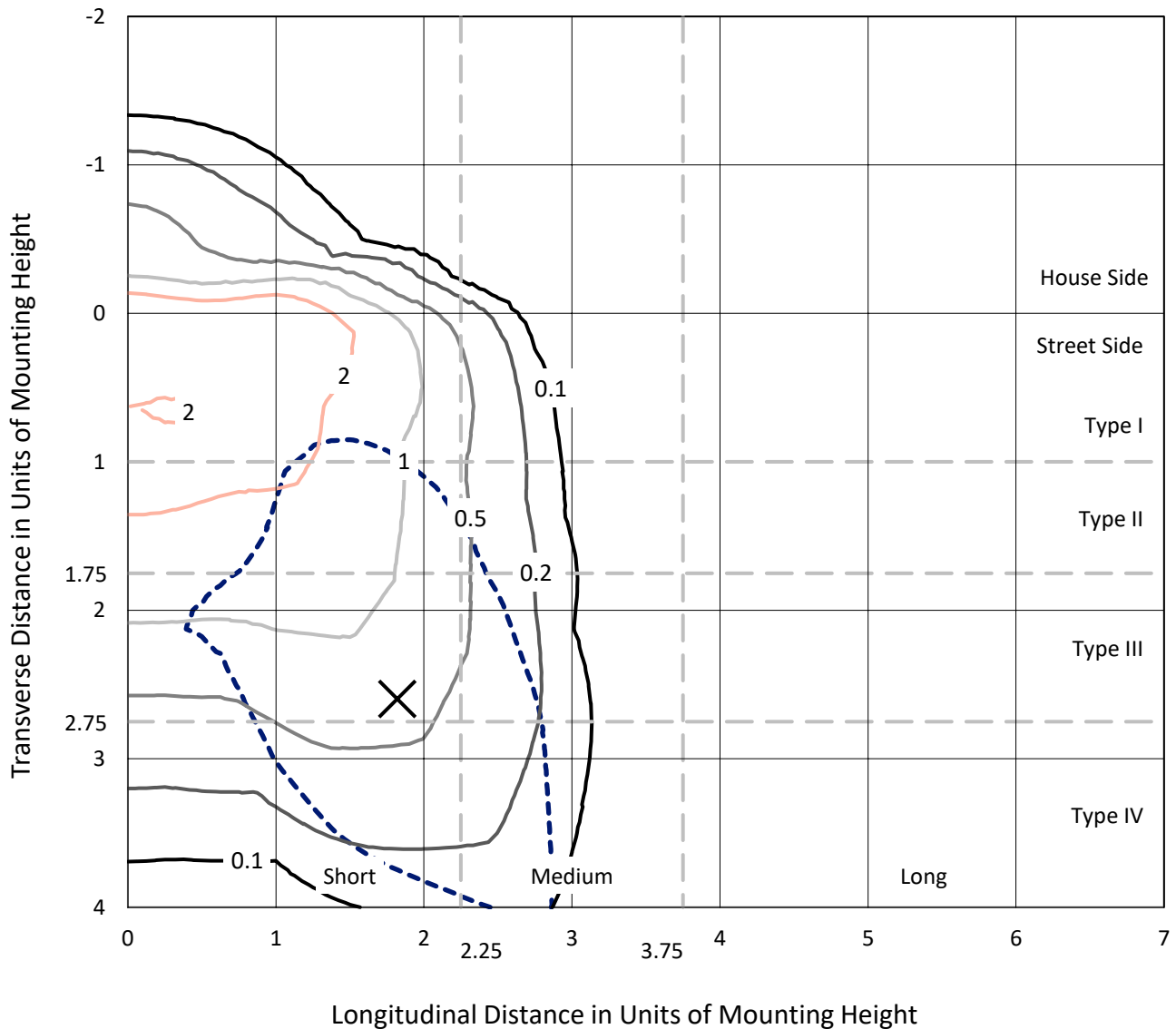
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

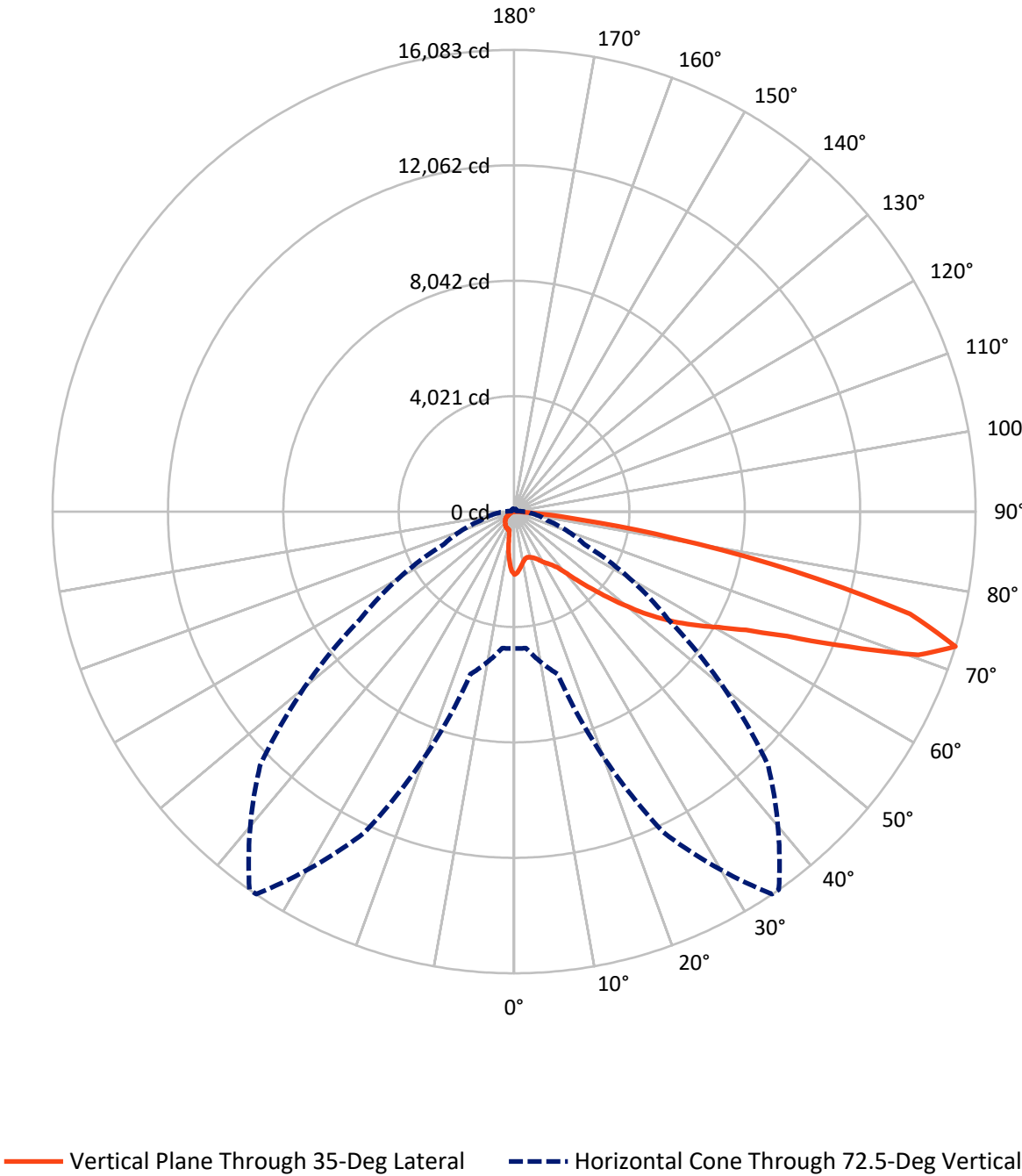
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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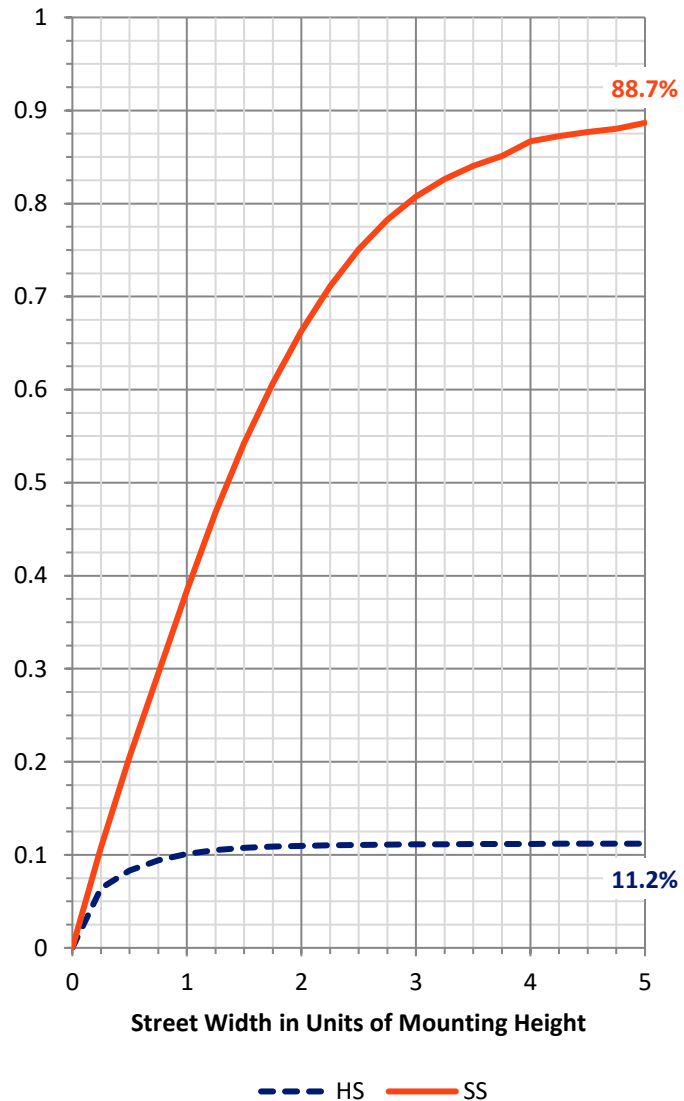
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1706.6	0.0	1706.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13457.2	0.0	13457.2
	% Fixture	88.7	0.0	88.7
Total	Lumens	15163.8	0.0	15163.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.2
10°-20°	422.5	2.8
20°-30°	686.3	4.5
30°-40°	1145.1	7.6
40°-50°	2166.6	14.3
50°-60°	3442.7	22.7
60°-70°	4258.8	28.1
70°-80°	2647.3	17.5
80°-90°	214.0	1.4
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°	15163.8	100.0
0°-180°	15163.8	100.0

Coefficient of Utilization



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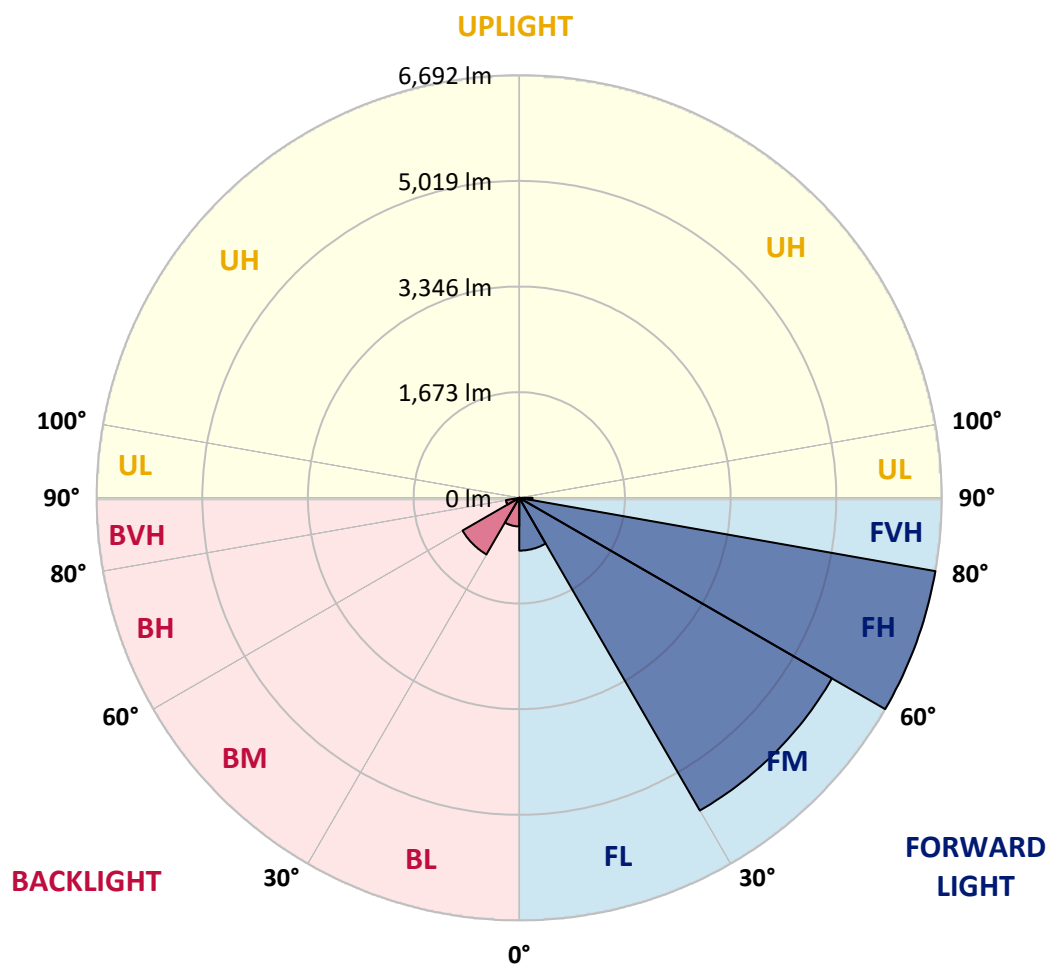
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.9	5.5			
FM	(30°-60°)	5718.3	37.7			
FH	(60°-80°)	6692.0	44.1			G3/7500
FVH	(80°-90°)	211.0	1.4			G2/225
BL	(0°-30°)	453.5	3.0	B1/500		
BM	(30°-60°)	1036.1	6.8	B2/2500		
BH	(60°-80°)	214.1	1.4	B1/500		G1/500
BVH	(80°-90°)	2.9	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7
2.5°	2100.0	2117.8	2121.1	2126.7	2126.7	2133.3	2144.4	2160.0	2185.5	2198.8	2207.7
5°	1935.5	1948.8	1965.5	1978.9	2004.4	2007.8	2051.1	2093.4	2152.2	2196.7	2227.7
7.5°	1770.0	1785.6	1807.8	1840.0	1873.3	1883.3	1948.8	2020.0	2113.3	2196.7	2248.8
10°	1653.3	1654.5	1674.4	1706.6	1760.0	1772.2	1852.2	1953.3	2070.0	2183.4	2268.8
12.5°	1587.7	1595.5	1604.4	1628.8	1680.0	1687.8	1773.4	1892.2	2026.6	2175.6	2292.2
15°	1587.7	1593.4	1598.9	1611.1	1652.2	1658.9	1734.4	1853.3	2004.4	2178.8	2329.9
17.5°	1604.4	1613.4	1608.8	1623.3	1666.6	1671.1	1737.8	1842.2	2003.3	2200.0	2387.7
20°	1644.4	1651.1	1642.2	1651.1	1694.4	1703.3	1772.2	1863.3	2022.2	2236.7	2460.0
22.5°	1707.8	1711.1	1690.0	1696.7	1741.1	1752.2	1832.2	1923.3	2067.7	2295.5	2556.7
25°	1787.8	1794.5	1762.2	1770.0	1812.2	1825.5	1917.8	2013.3	2140.0	2376.7	2680.0
27.5°	1880.0	1883.3	1855.6	1854.4	1908.9	1927.7	2021.1	2124.4	2236.7	2478.9	2835.6
30°	1985.5	1995.6	1968.8	1964.4	2033.3	2048.9	2141.1	2261.0	2378.8	2632.2	3056.7
32.5°	2068.9	2076.6	2061.1	2072.2	2142.1	2154.4	2286.7	2454.4	2602.2	2850.0	3357.7
35°	2188.9	2193.3	2157.7	2177.7	2257.8	2288.8	2485.5	2725.5	2883.3	3123.3	3751.1
37.5°	2623.3	2623.3	2472.2	2373.3	2450.0	2477.7	2757.8	3066.6	3230.0	3489.9	4246.6
40°	3224.4	3214.4	2993.3	2791.1	2781.0	2835.6	3145.5	3496.6	3677.7	3930.0	4804.4
42.5°	3865.5	3850.0	3548.9	3348.9	3315.5	3334.4	3593.2	4026.6	4211.0	4466.6	5404.4
45°	4434.4	4429.9	4154.4	3885.5	3825.5	3885.5	4152.2	4646.6	4778.9	5047.7	6003.2
47.5°	4911.1	4911.1	4710.0	4534.4	4503.2	4538.8	4908.8	5334.4	5322.1	5666.6	6586.5
50°	5460.0	5455.5	5264.4	5188.9	5221.0	5271.1	5780.0	6058.8	5884.3	6274.3	7107.7
52.5°	5844.3	5871.0	5805.5	5793.3	5957.7	6044.3	6664.3	6767.7	6387.7	6851.0	7497.7
55°	6148.8	6179.9	6255.5	6341.1	6657.7	6771.0	7521.0	7439.9	6808.8	7351.0	7722.1
57.5°	6579.9	6535.5	6652.1	6821.1	7333.3	7469.9	8351.0	8074.3	7147.7	7756.6	7746.5
60°	7103.2	7109.9	7129.9	7343.2	8007.7	8183.2	9168.7	8674.4	7365.4	8005.5	7475.4
62.5°	7732.1	7742.1	7783.2	8111.0	8913.2	9078.7	10039.9	9165.4	7465.5	7935.4	6775.5
65°	7688.8	7731.1	8189.9	9311.0	10289.9	10453.2	11056.6	9509.8	7314.4	7295.4	5516.5
67.5°	7004.3	7073.2	7841.0	10744.4	12365.4	12547.6	12285.4	9577.7	6662.1	5673.3	3598.9
70°	6106.5	6131.0	7054.4	12033.2	14768.7	14953.1	13385.4	8832.1	5055.5	3164.4	1612.2
72.5°	4768.8	4774.3	5857.7	12332.1	16073.1	16083.2	12522.0	6556.6	2718.8	1215.5	560.0
75°	3406.6	3373.3	3923.3	10001.0	14140.9	14254.3	9387.7	3075.5	1038.8	574.4	278.9
77.5°	1826.7	1863.3	2219.9	5931.1	9768.8	9962.1	5122.1	886.6	528.9	391.1	184.4
80°	564.5	595.5	910.0	2715.5	5533.3	5649.9	1898.9	394.4	368.9	278.9	121.2
82.5°	177.7	184.4	424.5	1141.1	2296.6	2350.0	550.0	223.3	252.3	184.4	71.1
85°	51.1	52.2	188.9	425.6	567.7	578.9	154.5	86.7	144.4	114.5	36.7
87.5°	5.5	17.7	71.1	71.1	50.0	48.9	16.7	18.9	41.1	14.5	6.7
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°	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7	2197.7
2.5°	2202.2	2203.3	2188.9	2164.4	2137.7	2115.5	2087.7	2065.6	2050.0	2045.5	2053.3
5°	2217.8	2210.0	2168.9	2094.4	2005.5	1928.8	1843.4	1775.5	1731.1	1712.2	1718.8
7.5°	2241.1	2218.8	2128.8	1982.2	1812.2	1661.1	1507.8	1388.9	1313.3	1275.5	1281.0
10°	2261.0	2216.7	2062.2	1820.0	1559.9	1331.1	1124.4	981.1	901.1	863.4	864.4
12.5°	2280.0	2215.5	1975.5	1627.8	1275.5	995.6	803.3	732.3	710.0	702.2	700.0
15°	2315.6	2218.8	1866.6	1407.7	992.2	752.2	682.2	681.1	685.5	683.4	682.2
17.5°	2364.4	2222.2	1743.3	1174.4	765.6	663.3	660.0	670.0	676.7	673.3	672.2
20°	2427.7	2235.5	1612.2	943.3	657.7	641.1	648.9	657.7	663.3	657.7	656.6
22.5°	2516.7	2258.9	1468.8	757.8	623.3	627.8	634.5	644.4	650.0	642.3	641.1
25°	2625.5	2295.5	1327.8	658.9	606.7	612.2	622.2	633.3	640.0	632.2	631.1
27.5°	2766.7	2354.4	1197.7	636.6	590.0	593.4	607.7	624.4	633.3	623.3	623.3
30°	2971.1	2451.1	1085.6	646.7	579.9	572.3	592.2	615.5	625.6	616.6	615.5
32.5°	3242.2	2587.7	1016.7	662.3	575.5	547.8	566.6	596.7	613.4	607.7	607.7
35°	3597.7	2795.5	989.9	680.0	572.3	522.2	535.6	567.7	596.7	602.2	602.2
37.5°	4028.9	3084.4	997.7	687.8	562.2	501.1	507.8	535.6	573.3	591.1	595.5
40°	4518.8	3421.0	1042.2	680.0	551.1	483.3	484.4	505.5	538.8	565.6	574.4
42.5°	5024.3	3814.4	1124.4	651.1	541.1	467.8	464.4	478.9	501.1	520.0	527.8
45°	5505.5	4218.8	1205.5	611.1	528.9	452.2	444.4	450.0	454.5	462.2	466.7
47.5°	5925.5	4503.2	1182.2	574.4	512.2	434.4	421.1	418.9	405.6	404.5	403.3
50°	6215.5	4565.5	1050.0	537.8	487.8	414.4	393.3	380.0	356.7	345.5	346.7
52.5°	6307.7	4320.0	857.7	501.1	447.8	387.8	357.7	336.7	307.8	297.8	296.6
55°	6185.5	3838.8	685.5	456.6	392.3	352.2	318.9	291.1	267.7	255.5	255.5
57.5°	5886.6	3226.6	542.2	404.5	333.3	312.2	278.9	251.1	231.1	218.8	216.7
60°	5391.1	2562.2	428.9	342.2	284.4	268.9	234.4	216.7	198.8	184.4	181.1
62.5°	4638.8	1828.9	336.7	271.1	237.8	220.0	200.0	186.7	165.5	145.5	142.3
65°	3620.0	1118.9	260.0	198.8	191.1	182.2	170.0	157.7	132.2	112.2	108.9
67.5°	2283.3	530.0	185.5	150.0	151.1	146.7	141.1	131.1	112.2	94.4	92.2
70°	1005.5	256.7	122.2	114.5	112.2	112.2	116.6	113.4	95.5	78.9	75.5
72.5°	342.2	137.8	91.1	86.7	81.1	79.9	97.8	94.4	76.7	61.1	57.8
75°	178.9	92.2	66.6	62.2	48.9	58.9	77.8	73.3	54.4	40.0	36.7
77.5°	116.6	65.6	45.5	40.0	27.8	38.8	57.8	51.1	32.2	20.0	17.7
80°	73.3	43.4	26.6	18.9	13.3	21.1	31.2	22.2	12.2	4.4	3.4
82.5°	38.8	22.2	10.0	6.7	5.5	6.7	7.8	5.5	2.3	0.0	0.0
85°	15.6	7.8	3.4	2.3	1.1	0.0	2.3	1.1	0.0	0.0	0.0
87.5°	5.5	1.1	0.0	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)