

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: McGRAW-EDISON

Report Number: P946260

Luminaire Tested: **GALN-SB2A-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

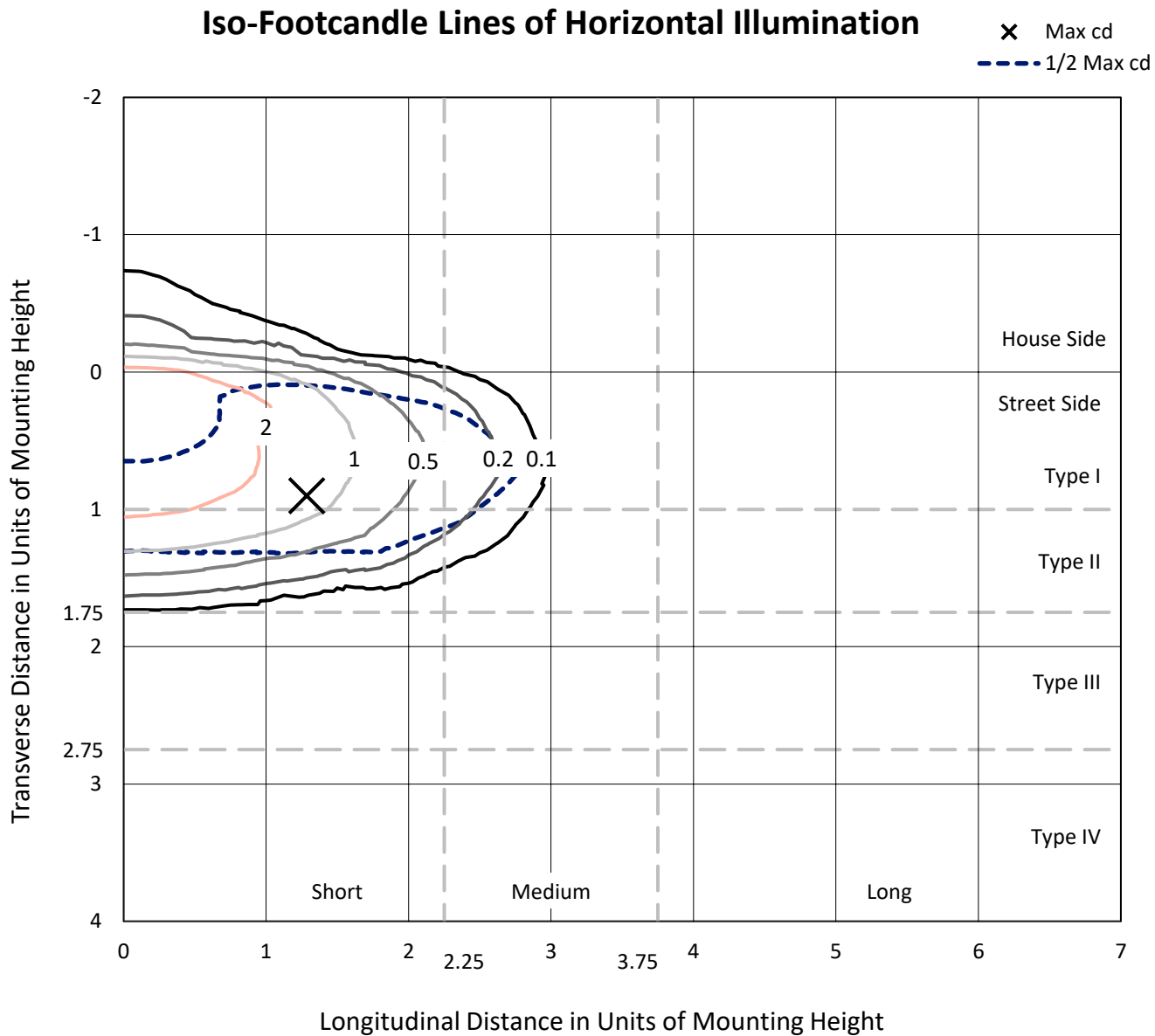
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6318 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57.3
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



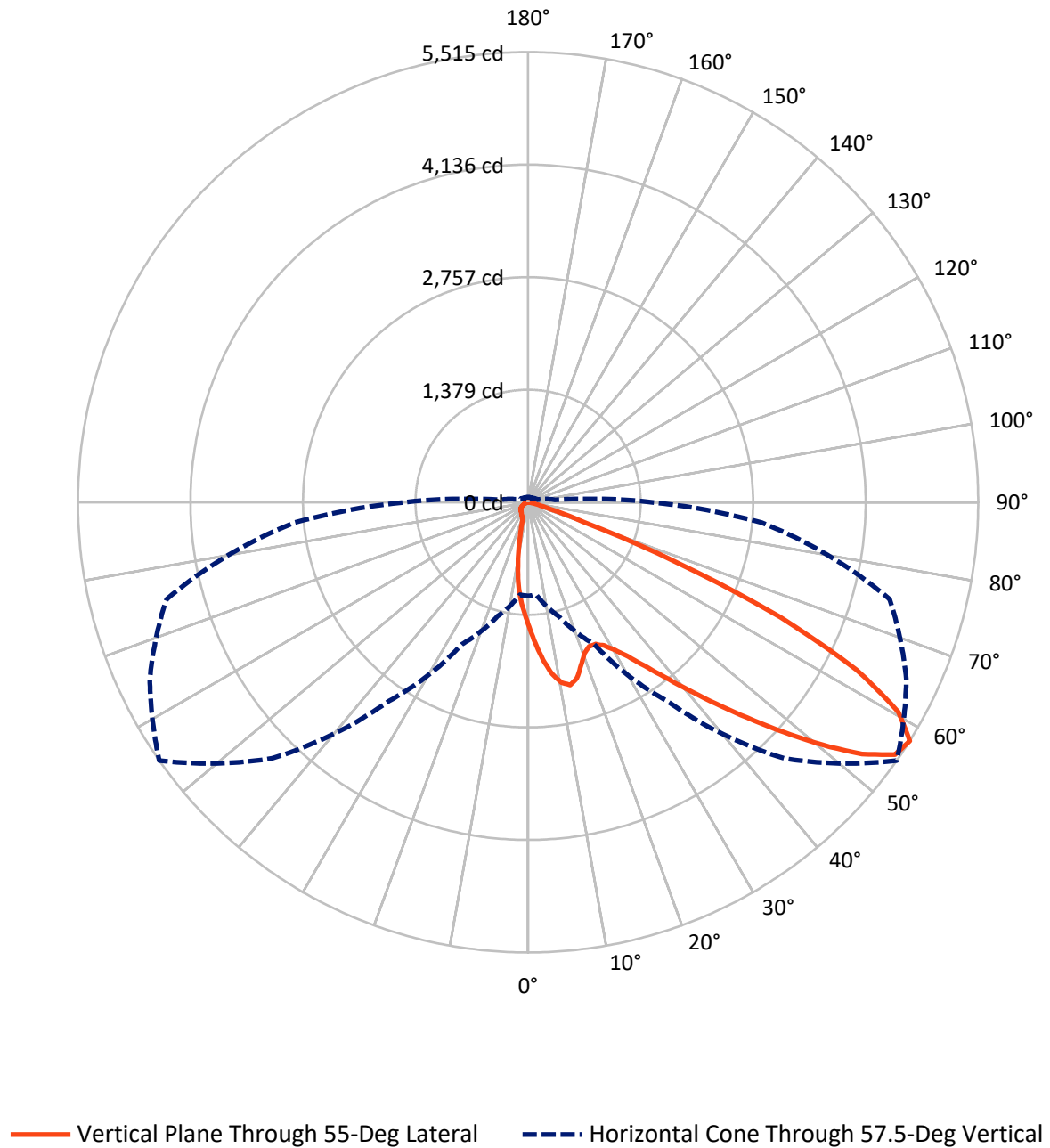
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CATALOG NUMBER: GALN-SB2A-722-U-AFL-HSS



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

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Luminous Intensity Polar Plot



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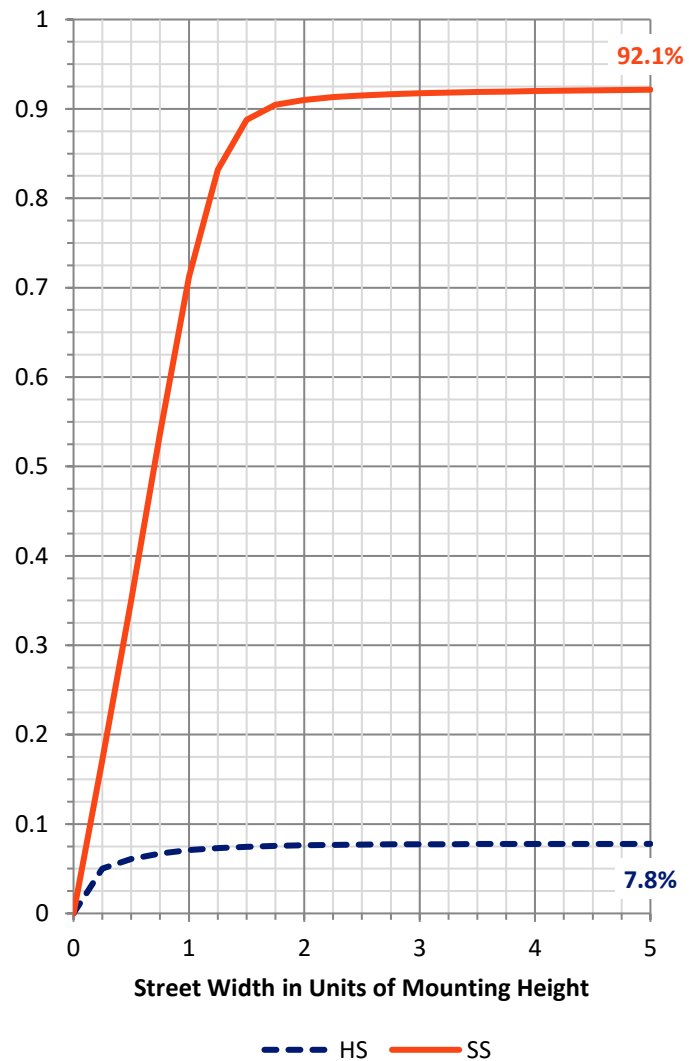
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.4	0.0	493.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	5824.6	0.0	5824.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	6318.0	0.0	6318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	2.2
10°-20°	342.2	5.4
20°-30°	547.5	8.7
30°-40°	926.6	14.7
40°-50°	1521.3	24.1
50°-60°	1672.1	26.5
60°-70°	959.1	15.2
70°-80°	196.0	3.1
80°-90°	11.6	0.2
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°	6318.0	100.0
0°-180°	6318.0	100.0

Coefficient of Utilization



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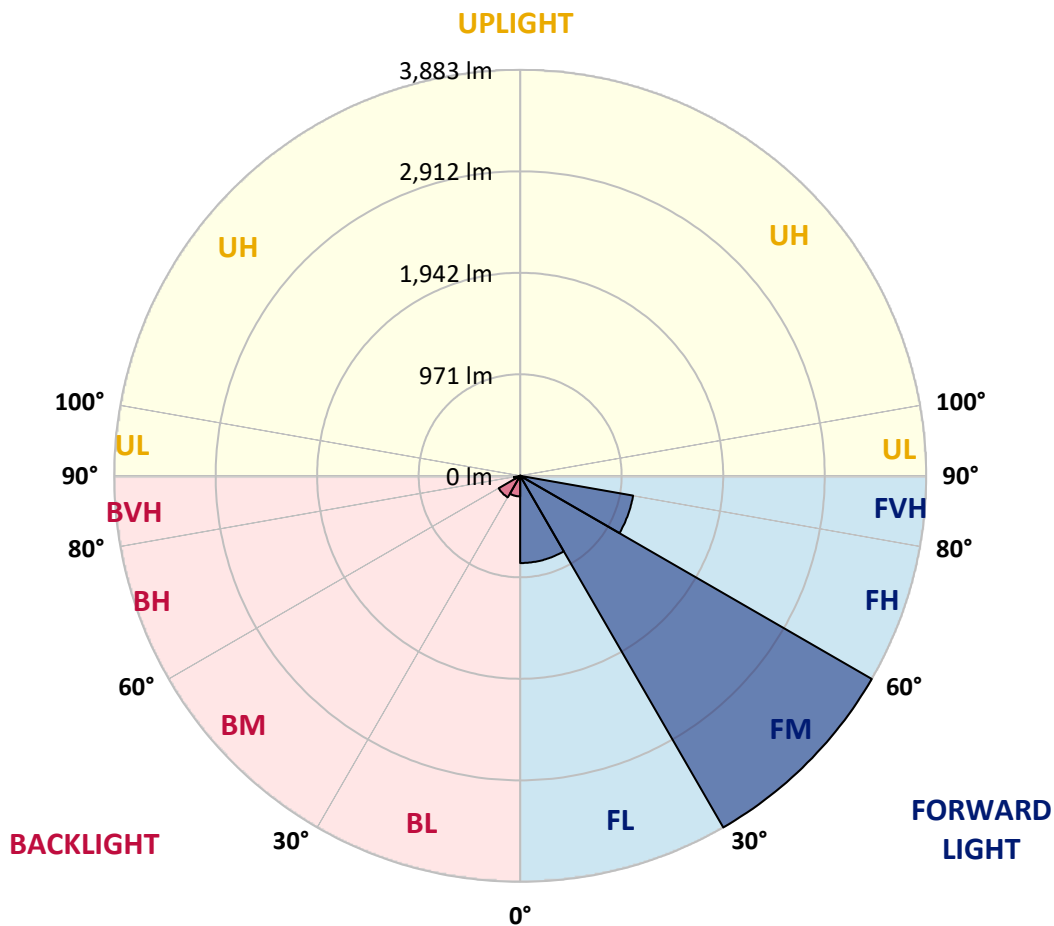
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	834.3	13.2			
FM	(30°-60°)	3883.1	61.5			
FH	(60°-80°)	1096.4	17.4			G1/1800
FVH	(80°-90°)	10.8	0.2			G1/100
BL	(0°-30°)	197.0	3.1	B1/500		
BM	(30°-60°)	237.0	3.8	B1/1000		
BH	(60°-80°)	58.7	0.9	B0/110		G0/110
BVH	(80°-90°)	0.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5
2.5°	1889.1	1865.3	1861.8	1857.1	1811.9	1778.0	1729.0	1675.2	1614.8	1553.3	1526.0
5°	2182.4	2163.7	2160.2	2138.4	2087.0	2029.3	1942.1	1831.8	1719.2	1586.8	1529.9
7.5°	2239.3	2235.8	2251.8	2251.0	2244.0	2198.4	2124.8	1993.5	1824.4	1628.1	1540.0
10°	1985.7	1994.7	2042.2	2083.9	2196.5	2261.9	2245.9	2137.6	1932.7	1675.2	1551.3
12.5°	1754.7	1744.2	1778.0	1825.2	1956.1	2150.9	2296.2	2258.0	2056.6	1728.6	1568.1
15°	1609.7	1605.5	1624.6	1646.4	1746.1	1942.5	2237.8	2355.8	2175.8	1791.7	1593.4
17.5°	1563.4	1559.9	1565.7	1571.2	1635.9	1787.8	2098.7	2415.8	2290.0	1863.8	1621.4
20°	1601.2	1596.5	1595.7	1591.4	1618.3	1721.9	1972.8	2420.1	2392.4	1929.2	1645.6
22.5°	1711.4	1706.0	1686.9	1669.7	1672.1	1730.9	1916.7	2377.2	2469.6	1990.4	1660.8
25°	1911.3	1902.3	1862.6	1804.9	1768.3	1793.2	1925.3	2320.7	2543.2	2038.3	1653.4
27.5°	2161.4	2149.7	2098.7	2013.0	1929.2	1898.8	1987.3	2281.8	2604.3	2074.9	1637.4
30°	2406.4	2391.2	2341.0	2274.4	2152.0	2056.2	2099.1	2298.9	2677.2	2113.1	1616.4
32.5°	2671.0	2656.6	2589.9	2507.3	2406.1	2277.1	2252.2	2382.7	2766.4	2166.5	1601.6
35°	3005.6	2983.0	2888.4	2775.8	2668.2	2537.7	2459.4	2527.2	2885.2	2247.9	1609.7
37.5°	3386.6	3356.2	3254.2	3098.7	2958.5	2812.4	2711.9	2725.9	3059.4	2357.0	1635.1
40°	3745.8	3718.2	3623.9	3477.4	3301.3	3124.0	3016.9	2985.7	3299.8	2489.8	1679.5
42.5°	3961.3	3936.3	3896.6	3834.6	3686.2	3505.4	3370.3	3302.9	3584.1	2648.8	1733.6
45°	3973.3	3951.5	4004.9	4077.0	4047.7	3927.4	3762.6	3639.1	3869.7	2798.0	1789.7
47.5°	3780.1	3765.3	3927.4	4179.0	4304.5	4355.1	4203.2	3947.2	4105.4	2905.1	1812.7
50°	3253.4	3247.9	3581.4	4043.5	4402.3	4729.9	4668.0	4234.0	4288.1	2960.4	1790.9
52.5°	2821.0	2801.1	2995.5	3609.5	4260.1	4927.0	5122.2	4515.2	4415.9	2970.9	1739.9
55°	2139.6	2122.0	2365.9	2883.3	3801.5	4856.9	5454.5	4805.5	4507.5	2944.1	1648.3
57.5°	1147.7	1136.8	1445.0	1919.1	2971.7	4436.2	5514.5	5112.5	4584.6	2872.8	1520.1
60°	446.8	444.9	560.2	931.1	1806.1	3609.1	5211.8	5296.7	4632.9	2785.1	1413.0
62.5°	270.4	276.2	294.9	418.0	797.9	2242.0	4514.1	5087.1	4665.2	2704.9	1324.6
65°	223.6	224.0	226.3	287.1	382.2	938.1	3398.3	4397.6	4585.4	2561.9	1199.1
67.5°	191.7	195.2	204.1	227.9	269.6	411.4	1956.5	3406.5	4099.6	2229.2	1003.6
70°	151.2	155.8	167.1	187.4	208.0	257.5	723.1	2266.6	3131.8	1680.3	758.9
72.5°	127.4	127.0	132.8	152.3	165.2	181.2	278.2	1270.0	1820.1	802.1	375.6
75°	98.6	102.5	109.9	127.4	135.2	131.3	150.8	464.0	652.2	243.1	127.8
77.5°	77.1	80.3	86.9	104.0	111.8	93.1	86.9	166.0	209.6	87.3	57.7
80°	34.7	37.4	59.2	76.7	91.2	64.3	47.1	84.9	93.1	39.7	29.2
82.5°	6.2	10.5	34.7	40.5	46.7	41.7	24.5	44.0	45.6	16.0	10.1
85°	0.4	0.8	12.1	14.8	18.7	13.6	7.4	17.5	15.2	5.5	3.9
87.5°	0.0	0.0	0.0	0.4	0.4	1.9	2.3	3.1	2.3	1.9	1.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5	1522.5
2.5°	1497.9	1442.6	1388.9	1344.8	1319.1	1275.5	1246.7	1242.0	1229.9	1240.4
5°	1469.1	1370.2	1270.0	1180.4	1106.8	1011.7	940.8	910.8	884.7	893.7
7.5°	1455.5	1299.3	1143.4	990.3	832.9	681.0	568.0	520.9	485.0	490.1
10°	1437.2	1225.6	981.4	747.6	536.8	386.9	308.9	280.1	264.1	264.5
12.5°	1423.1	1137.6	793.2	506.8	326.9	247.0	222.8	215.8	211.2	211.5
15°	1416.1	1033.9	607.4	337.8	233.7	209.2	203.4	200.2	197.1	196.7
17.5°	1404.4	918.6	444.5	246.6	204.5	196.0	190.9	187.4	183.5	182.7
20°	1386.9	787.7	324.9	208.4	191.7	185.1	178.0	173.4	168.7	167.9
22.5°	1354.6	649.4	249.7	192.8	182.3	174.9	166.4	160.9	156.2	155.4
25°	1294.6	519.7	210.4	183.1	174.1	165.2	155.8	148.4	144.1	143.4
27.5°	1218.6	408.3	190.9	174.1	163.6	155.4	144.9	137.9	134.0	133.2
30°	1129.0	314.4	179.6	164.0	151.2	144.1	134.8	129.0	126.6	126.6
32.5°	1032.4	251.3	174.9	153.9	140.2	132.5	125.1	122.7	121.9	121.5
35°	941.6	218.2	172.6	145.7	130.5	123.1	120.0	120.4	121.9	121.9
37.5°	861.0	207.6	171.4	139.9	121.9	115.3	117.3	120.8	119.2	119.2
40°	788.1	208.8	170.6	135.6	114.9	111.0	114.9	112.2	108.3	107.9
42.5°	732.4	218.6	169.1	132.1	110.6	107.9	106.4	102.1	101.7	102.5
45°	691.9	227.1	168.7	130.5	106.0	100.9	99.0	94.7	102.5	104.4
47.5°	644.0	227.1	168.7	125.1	98.2	96.2	93.1	88.4	96.2	98.2
50°	582.0	212.7	162.1	118.8	91.9	90.8	85.3	79.5	77.9	79.1
52.5°	503.7	186.6	145.3	110.3	85.7	83.4	76.7	72.5	71.3	71.3
55°	414.5	156.2	122.7	97.8	79.1	74.8	70.1	68.2	67.0	66.2
57.5°	337.0	128.2	98.6	86.9	72.9	67.4	65.8	63.5	61.6	60.4
60°	276.6	100.9	81.4	77.1	66.6	61.6	61.2	58.0	53.0	52.2
62.5°	213.5	74.0	68.6	67.0	60.4	56.1	55.3	49.1	41.3	39.7
65°	150.8	57.7	55.3	58.8	53.8	49.9	47.9	38.6	30.4	29.2
67.5°	106.0	48.3	43.6	51.4	46.7	41.7	40.5	32.7	25.3	24.5
70°	75.6	39.3	35.8	44.0	37.4	36.6	34.3	27.3	20.6	19.9
72.5°	53.4	30.0	27.7	38.2	25.7	31.6	28.0	21.0	15.6	14.8
75°	39.3	21.4	19.5	22.2	18.7	23.8	19.9	14.0	9.7	9.3
77.5°	28.8	13.6	11.7	10.9	10.9	14.8	10.9	5.8	4.3	3.9
80°	20.3	6.2	5.5	4.7	4.3	3.5	1.6	0.8	0.4	0.4
82.5°	12.1	2.7	2.7	1.9	1.2	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.2	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	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

(END OF REPORT)