

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: P949486

Luminaire Tested: **GALN-SB4B-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4B-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

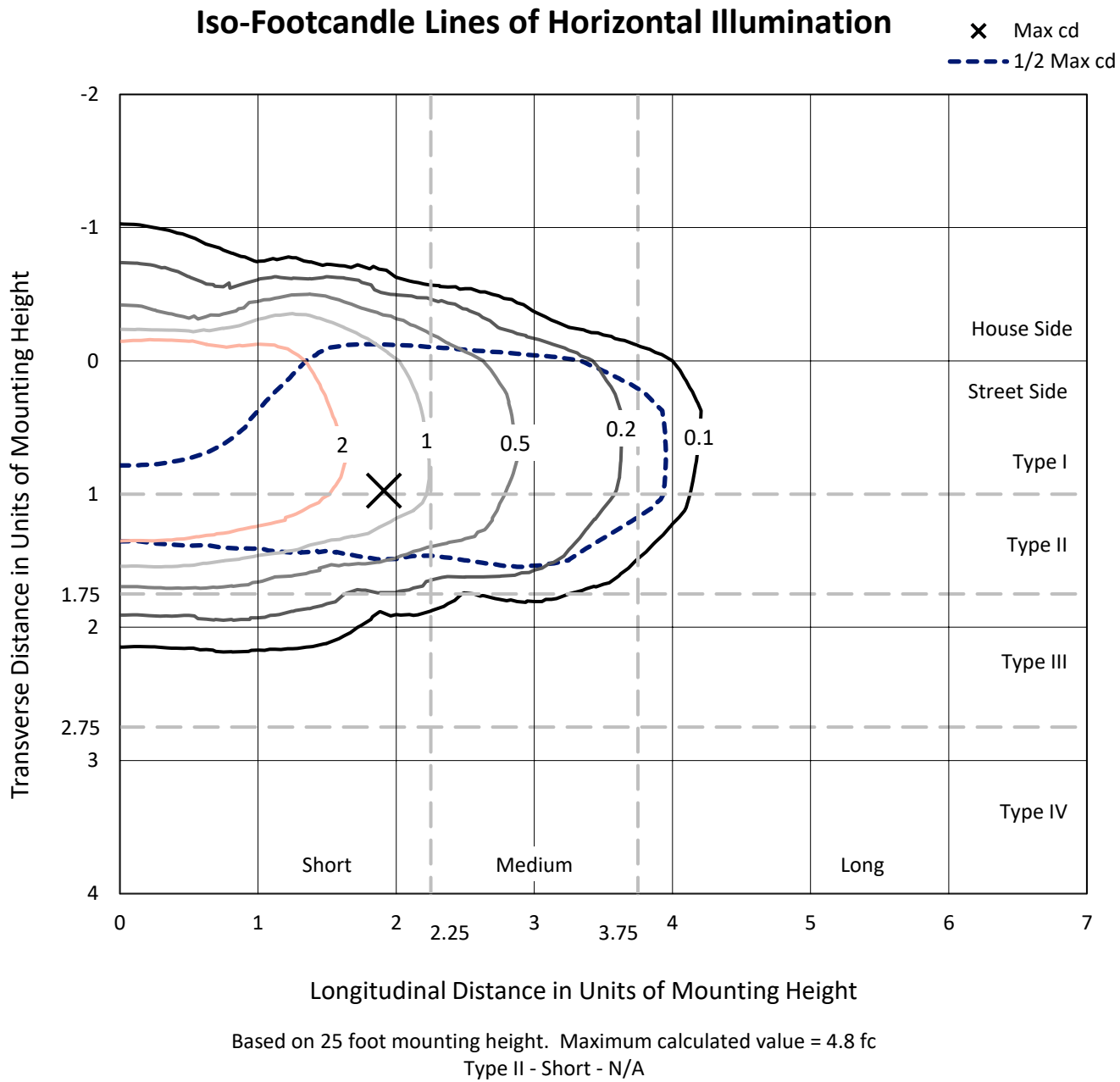
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14248 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

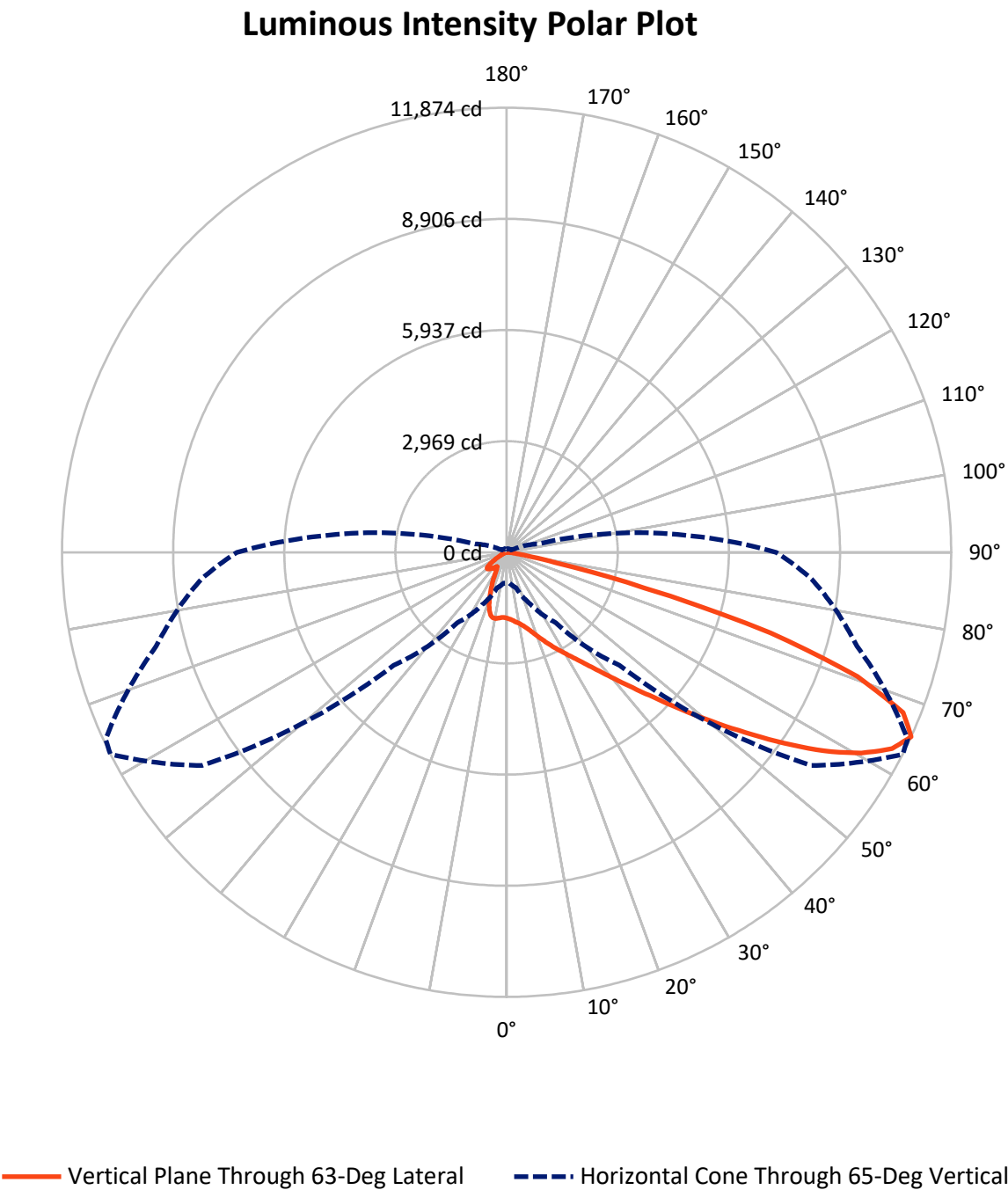
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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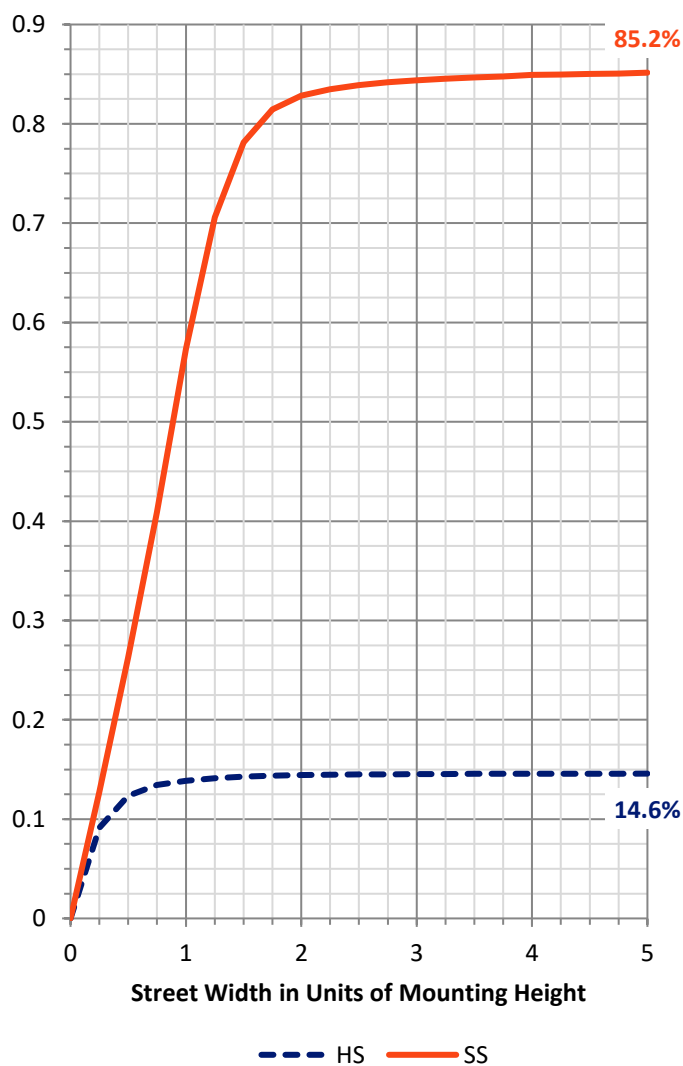
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.3	0.0	2094.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12153.7	0.0	12153.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	14248.0	0.0	14248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	1.2
10°-20°	459.7	3.2
20°-30°	800.5	5.6
30°-40°	1442.7	10.1
40°-50°	2861.4	20.1
50°-60°	3897.7	27.4
60°-70°	3111.2	21.8
70°-80°	1407.9	9.9
80°-90°	101.2	0.7
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°	14248.0	100.0
0°-180°	14248.0	100.0

Coefficient of Utilization



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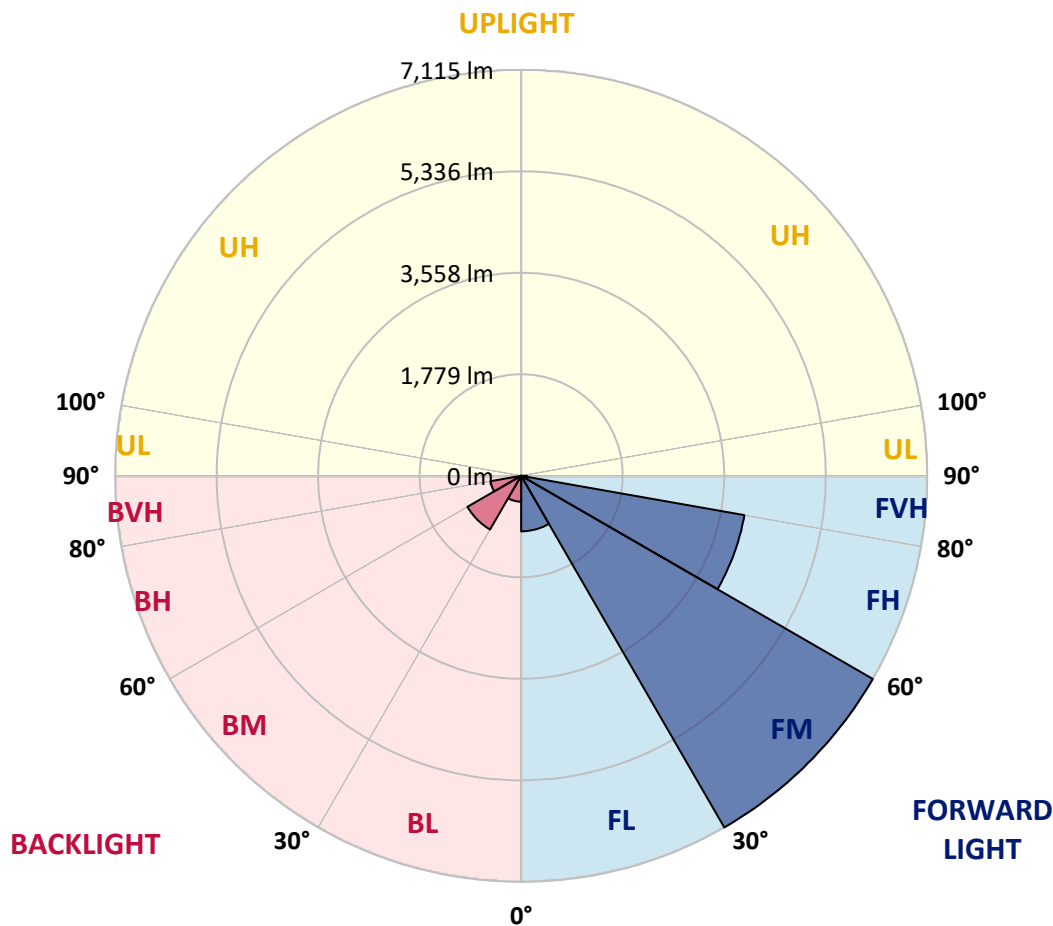
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	972.6	6.8			
FM	(30°-60°)	7115.1	49.9			
FH	(60°-80°)	3972.3	27.9			G2/5000
FVH	(80°-90°)	93.7	0.7			G1/100
BL	(0°-30°)	453.3	3.2	B1/500		
BM	(30°-60°)	1086.8	7.6	B2/2500		
BH	(60°-80°)	546.7	3.8	B2/1000		G2/1000
BVH	(80°-90°)	7.5	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5
2.5°	1799.6	1794.7	1801.6	1798.7	1796.7	1792.8	1790.8	1788.9	1784.9	1782.0	1770.2
5°	1804.5	1801.6	1808.5	1814.3	1820.2	1826.1	1829.0	1833.0	1829.0	1821.2	1809.4
7.5°	1763.4	1761.4	1776.1	1793.8	1820.2	1842.8	1867.3	1881.0	1882.0	1879.0	1866.3
10°	1760.4	1755.5	1770.2	1791.8	1826.1	1866.3	1909.4	1938.8	1942.7	1955.5	1941.8
12.5°	1806.5	1801.6	1822.2	1845.7	1881.0	1923.1	1976.1	2017.2	2023.1	2040.8	2031.0
15°	1883.9	1877.1	1900.6	1931.0	1976.1	2024.1	2080.0	2117.2	2122.1	2143.7	2126.0
17.5°	1974.1	1967.3	1994.7	2027.0	2076.1	2141.7	2206.4	2247.6	2253.5	2267.2	2234.8
20°	2089.8	2081.0	2102.5	2131.9	2183.9	2262.3	2339.7	2398.5	2397.6	2397.6	2344.6
22.5°	2224.1	2210.3	2229.0	2252.5	2301.5	2396.6	2499.5	2569.1	2569.1	2541.6	2454.4
25°	2368.2	2354.4	2375.0	2396.6	2439.7	2547.5	2668.1	2754.4	2758.3	2711.2	2572.0
27.5°	2548.5	2530.9	2546.6	2572.0	2597.5	2707.3	2850.4	2950.4	2952.4	2879.8	2683.8
30°	2895.5	2845.5	2796.5	2769.1	2780.8	2889.6	3042.5	3153.3	3163.1	3063.1	2805.3
32.5°	3530.7	3520.9	3348.4	3122.9	3005.3	3085.7	3257.2	3390.5	3396.4	3268.0	2963.1
35°	4517.7	4506.0	4228.6	3799.2	3416.0	3348.4	3517.9	3675.7	3671.8	3526.7	3168.0
37.5°	5695.9	5685.1	5319.5	4745.1	4124.7	3745.3	3854.1	4019.8	4044.3	3854.1	3432.6
40°	6702.6	6662.4	6431.1	5877.3	5065.7	4404.0	4332.5	4442.3	4467.7	4242.3	3768.9
42.5°	7465.2	7430.9	7313.2	6967.2	6204.6	5378.3	4896.1	4938.2	4966.7	4696.1	4155.1
45°	7860.2	7852.4	7899.4	7867.1	7365.2	6574.2	5701.8	5526.3	5537.1	5199.0	4593.2
47.5°	7916.1	7912.1	8126.8	8430.7	8363.0	7922.9	6735.9	6259.5	6221.3	5766.5	5069.6
50°	7586.7	7578.9	7990.6	8560.1	9029.6	9056.0	7910.2	7085.8	7001.5	6353.6	5566.5
52.5°	6535.0	6533.0	7209.3	8157.2	9263.8	10048.0	9070.7	7993.5	7852.4	6975.1	6091.9
55°	5028.4	5064.7	5840.0	6960.4	8836.5	10525.3	10112.7	9001.1	8784.5	7600.4	6576.1
57.5°	3562.0	3615.0	4381.5	5379.3	7511.2	10243.1	10817.4	10010.7	9777.5	8223.8	7067.2
60°	1913.3	1960.4	2727.9	3918.8	5588.1	9190.3	11188.9	10887.0	10666.5	8815.9	7510.3
62.5°	1140.0	1155.7	1473.2	2529.9	3779.6	7021.1	11031.1	11554.6	11373.2	9312.8	7895.5
65°	818.5	821.4	981.2	1544.8	2294.6	4265.8	9924.5	11874.1	11818.2	9687.3	8180.7
67.5°	689.1	687.1	753.8	1026.3	1563.4	2136.8	7606.3	11422.2	11659.4	9924.5	8342.5
70°	591.1	594.0	672.4	751.8	1175.3	1209.6	3781.6	9945.1	10450.9	9987.2	8332.6
72.5°	440.1	449.9	522.4	685.2	887.1	832.2	1305.6	7374.0	8288.5	9409.9	7900.4
75°	310.7	315.6	367.6	576.4	661.6	605.8	666.5	3812.0	4984.3	7214.2	6466.4
77.5°	239.2	248.0	278.4	402.9	651.8	425.4	407.8	1319.3	2027.0	4358.0	4433.4
80°	129.4	145.1	200.9	291.1	457.8	300.9	201.9	525.4	687.1	2037.8	1709.5
82.5°	66.7	74.5	140.2	209.8	260.7	262.7	100.0	218.6	283.3	629.3	234.3
85°	26.5	32.3	94.1	115.7	134.3	129.4	45.1	88.2	101.9	174.5	71.6
87.5°	5.9	9.8	34.3	26.5	25.5	27.4	10.8	20.6	19.6	20.6	12.7
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°	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5	1758.5
2.5°	1769.3	1765.3	1754.6	1742.8	1729.1	1721.2	1716.3	1715.3	1708.5	1703.6	1708.5
5°	1798.7	1794.7	1774.2	1749.7	1723.2	1702.6	1683.0	1665.4	1639.9	1635.0	1633.0
7.5°	1857.5	1846.7	1813.4	1780.0	1730.0	1670.3	1597.7	1514.4	1439.9	1417.4	1406.6
10°	1930.0	1915.3	1873.2	1814.3	1703.6	1540.9	1365.4	1202.7	1073.3	1037.0	1023.3
12.5°	2012.3	1999.6	1943.7	1834.9	1592.8	1297.8	1029.2	827.3	701.8	670.5	661.6
15°	2110.4	2091.7	2014.3	1803.6	1394.8	986.1	706.7	587.1	542.0	536.2	530.3
17.5°	2214.3	2183.9	2077.0	1690.8	1128.2	700.8	546.0	511.7	492.1	486.2	483.2
20°	2309.3	2270.1	2114.3	1520.3	843.0	546.0	489.1	466.6	448.9	442.1	438.1
22.5°	2404.4	2348.6	2114.3	1288.0	632.2	484.2	448.9	428.3	407.8	398.9	394.0
25°	2503.4	2428.9	2077.0	1029.2	508.7	444.0	410.7	388.2	370.5	359.7	355.8
27.5°	2599.5	2496.6	1991.8	784.2	452.9	408.7	375.4	353.9	337.2	329.3	329.3
30°	2690.6	2563.2	1872.2	595.0	416.6	374.4	343.1	324.4	307.8	299.9	300.9
32.5°	2814.1	2647.5	1744.7	488.1	385.2	342.1	313.7	296.0	281.3	275.4	275.4
35°	2985.7	2772.0	1635.0	479.3	358.8	315.6	287.2	270.5	255.8	250.9	250.9
37.5°	3228.8	2972.9	1577.1	538.1	337.2	292.1	265.6	248.0	234.3	230.3	229.4
40°	3528.7	3245.4	1608.5	596.9	322.5	271.5	246.0	228.4	216.6	211.7	210.7
42.5°	3884.5	3581.6	1782.0	642.0	312.7	253.9	227.4	207.8	200.0	198.0	198.0
45°	4293.3	3951.2	2047.6	690.1	297.0	237.2	208.8	194.1	188.2	187.2	186.2
47.5°	4757.9	4357.0	2355.4	749.9	281.3	221.5	194.1	184.3	179.4	177.4	177.4
50°	5218.6	4765.7	2672.0	783.2	268.6	206.8	182.3	174.5	170.6	169.6	169.6
52.5°	5700.8	5186.2	2927.8	751.8	257.8	195.1	172.5	166.6	162.7	161.7	161.7
55°	6160.5	5526.3	2972.0	638.1	236.2	183.3	161.7	158.8	153.9	153.9	152.9
57.5°	6556.5	5696.9	2660.3	468.5	214.7	165.7	151.0	148.0	144.1	143.1	142.1
60°	6920.2	5647.9	2053.5	315.6	191.1	148.0	137.2	135.3	131.3	126.4	125.5
62.5°	7125.0	5432.2	1404.6	205.8	167.6	129.4	121.5	120.6	111.7	101.9	100.0
65°	7202.5	4989.2	876.3	150.0	140.2	110.8	104.9	102.9	90.2	79.4	78.4
67.5°	7134.8	4259.9	442.1	118.6	110.8	92.1	86.3	86.3	77.4	67.6	66.7
70°	6864.3	3193.5	186.2	95.1	85.3	70.6	70.6	74.5	65.7	54.9	53.9
72.5°	6277.2	2148.6	99.0	72.5	63.7	50.0	57.8	60.8	52.0	41.2	41.2
75°	4990.2	1310.5	68.6	53.9	40.2	35.3	44.1	46.1	35.3	27.4	26.5
77.5°	3413.0	752.8	46.1	34.3	25.5	20.6	30.4	28.4	18.6	12.7	13.7
80°	1498.7	313.7	26.5	15.7	9.8	7.8	10.8	7.8	5.9	3.9	3.9
82.5°	175.5	73.5	9.8	5.9	3.9	2.0	1.0	0.0	0.0	0.0	0.0
85°	36.3	8.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.0	1.0	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)