

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: P939908

Luminaire Tested: **GALN-SB2D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939908
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: McGRAW-EDISON
Catalog Number: GALN-SB2D-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

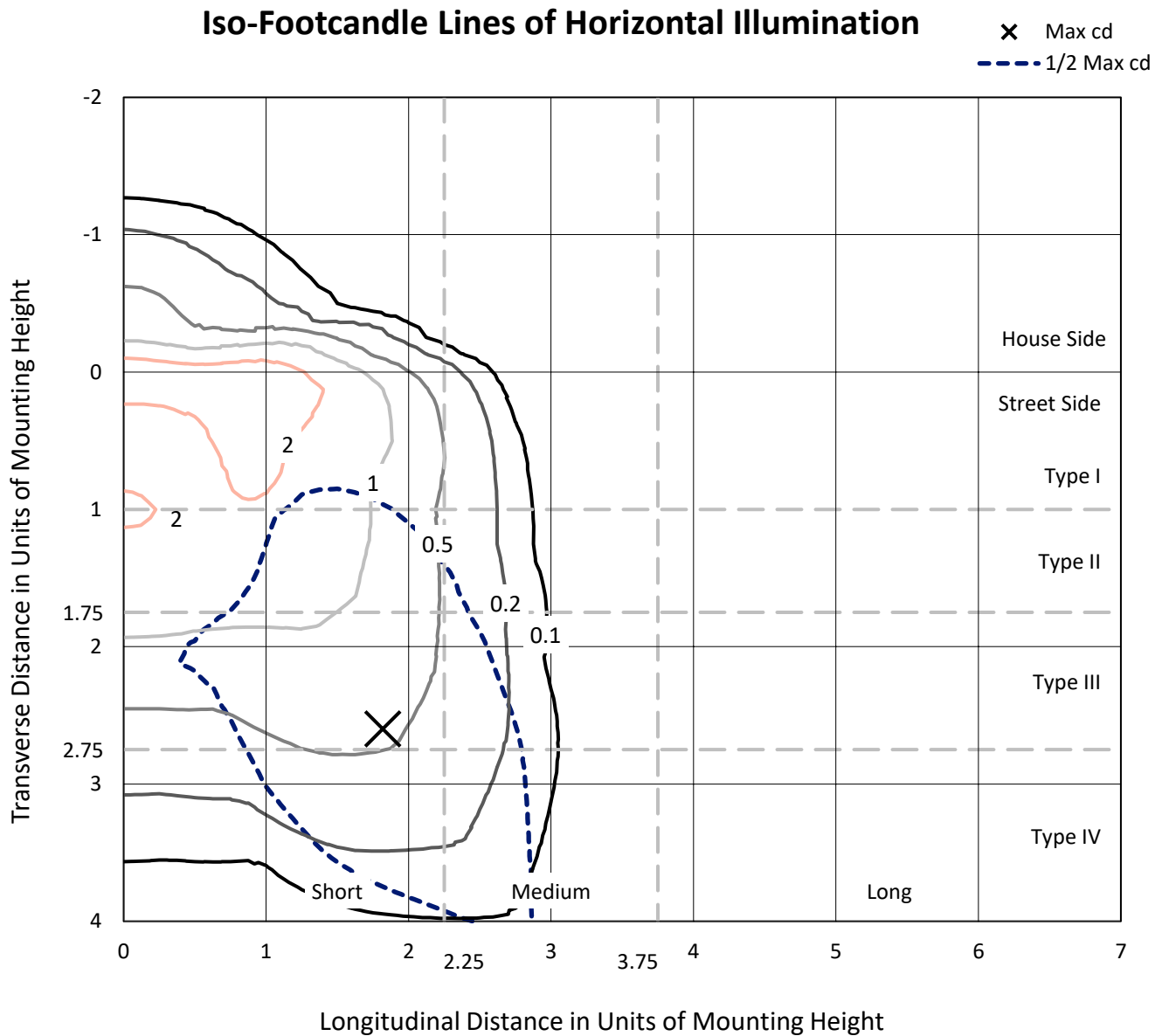
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12728 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 147.6
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



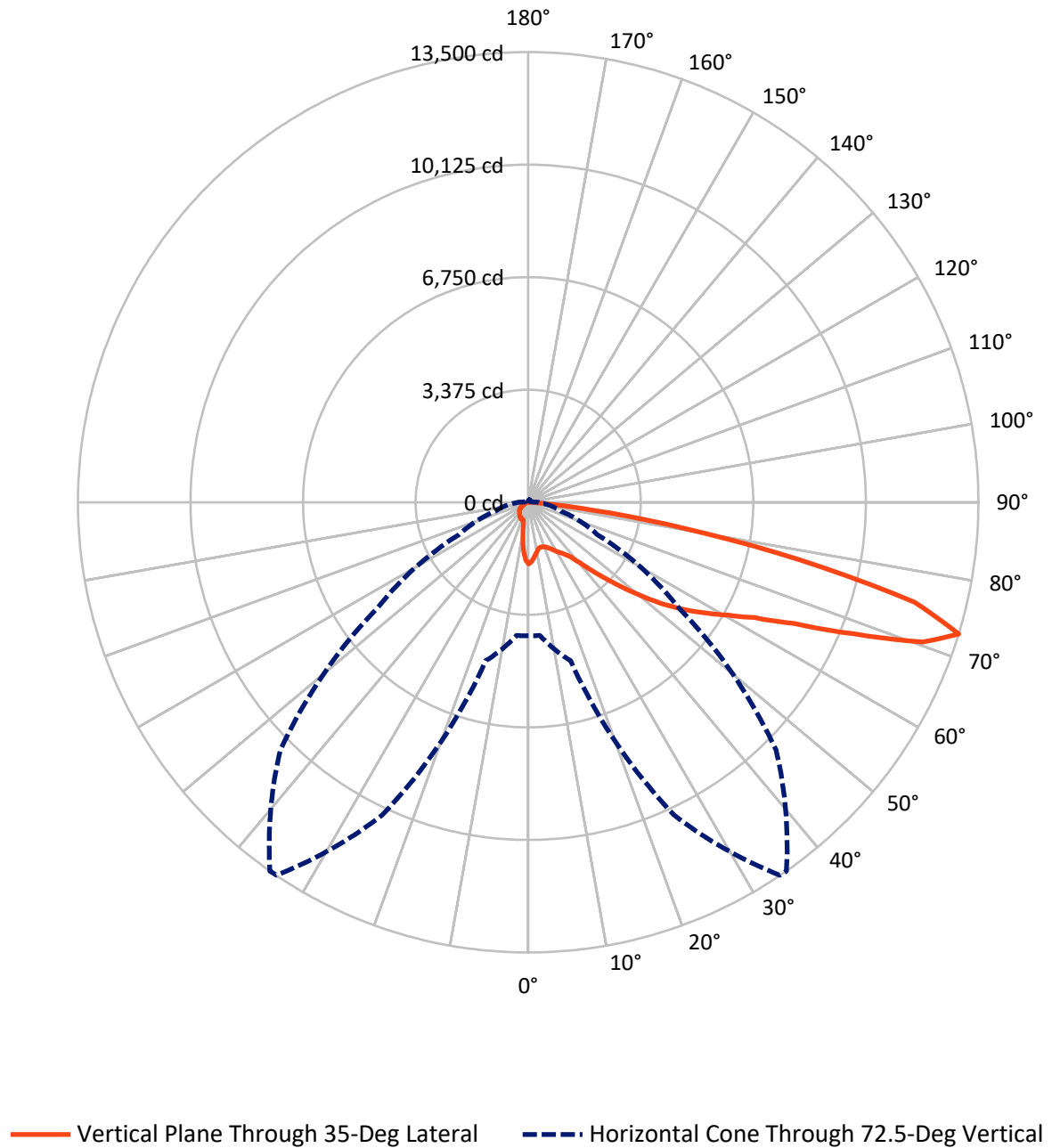
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Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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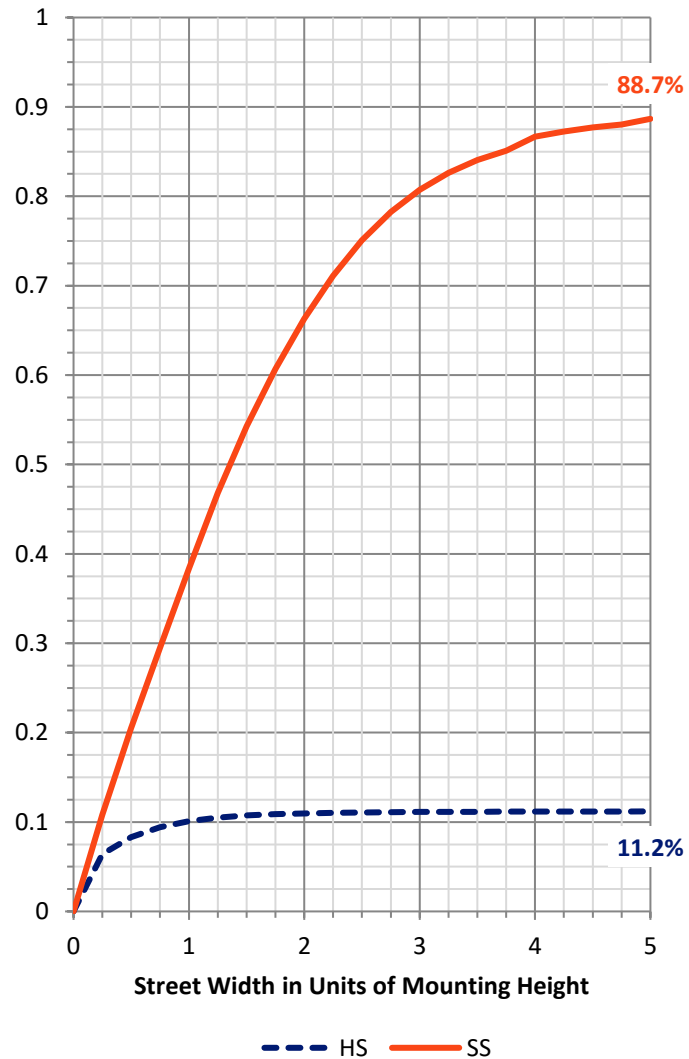
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1432.5	0.0	1432.5
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	11295.5	0.0	11295.5
	% Fixture	88.7	0.0	88.7
Total	Lumens	12728.0	0.0	12728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	1.2
10°-20°	354.6	2.8
20°-30°	576.1	4.5
30°-40°	961.2	7.6
40°-50°	1818.5	14.3
50°-60°	2889.7	22.7
60°-70°	3574.7	28.1
70°-80°	2222.1	17.5
80°-90°	179.6	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°	12728.0	100.0
0°-180°	12728.0	100.0

Coefficient of Utilization



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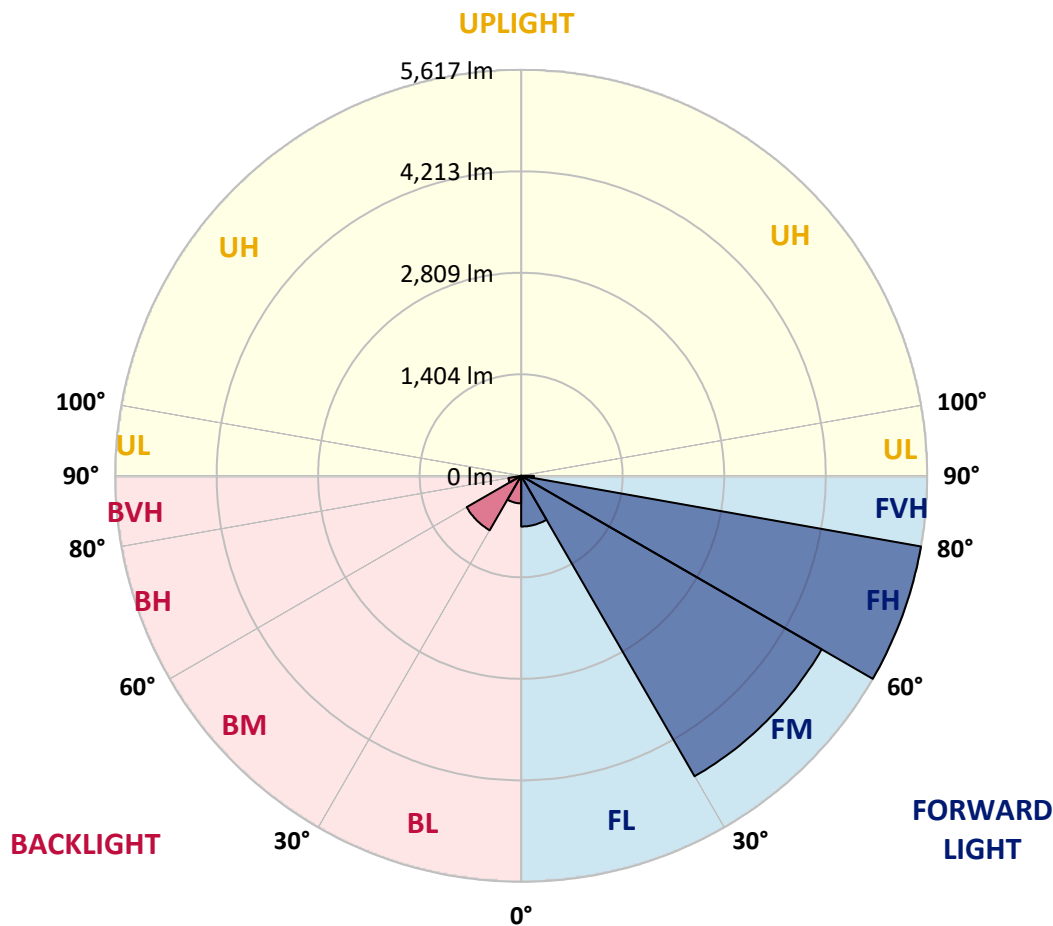
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.6	5.5			
FM	(30°-60°)	4799.7	37.7			
FH	(60°-80°)	5617.0	44.1			G3/7500
FVH	(80°-90°)	177.1	1.4			G2/225
BL	(0°-30°)	380.6	3.0	B1/500		
BM	(30°-60°)	869.6	6.8	B1/1000		
BH	(60°-80°)	179.8	1.4	B1/500		G1/500
BVH	(80°-90°)	2.4	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7
2.5°	1762.6	1777.6	1780.4	1785.0	1785.0	1790.6	1799.9	1813.0	1834.5	1845.6	1853.1
5°	1624.6	1635.8	1649.8	1661.0	1682.4	1685.2	1721.6	1757.0	1806.5	1843.8	1869.9
7.5°	1485.7	1498.7	1517.4	1544.4	1572.4	1580.8	1635.8	1695.5	1773.8	1843.8	1887.6
10°	1387.7	1388.7	1405.5	1432.5	1477.3	1487.5	1554.7	1639.5	1737.5	1832.6	1904.4
12.5°	1332.7	1339.2	1346.7	1367.2	1410.1	1416.6	1488.5	1588.2	1701.1	1826.1	1924.0
15°	1332.7	1337.4	1342.0	1352.3	1386.8	1392.4	1455.8	1555.6	1682.4	1828.9	1955.7
17.5°	1346.7	1354.2	1350.4	1362.6	1398.9	1402.7	1458.6	1546.3	1681.5	1846.6	2004.2
20°	1380.3	1385.9	1378.4	1385.9	1422.2	1429.7	1487.5	1564.0	1697.4	1877.4	2064.8
22.5°	1433.4	1436.2	1418.5	1424.1	1461.4	1470.7	1537.9	1614.4	1735.6	1926.8	2145.9
25°	1500.6	1506.2	1479.1	1485.7	1521.1	1532.3	1609.7	1689.9	1796.2	1994.9	2249.5
27.5°	1578.0	1580.8	1557.5	1556.5	1602.2	1618.1	1696.4	1783.2	1877.4	2080.7	2380.0
30°	1666.6	1675.0	1652.6	1648.9	1706.7	1719.7	1797.2	1897.9	1996.7	2209.4	2565.6
32.5°	1736.5	1743.1	1730.0	1739.3	1798.1	1808.3	1919.3	2060.1	2184.2	2392.2	2818.4
35°	1837.3	1841.0	1811.1	1827.9	1895.1	1921.2	2086.3	2287.7	2420.1	2621.6	3148.5
37.5°	2201.9	2201.9	2075.1	1992.1	2056.4	2079.7	2314.8	2574.0	2711.1	2929.3	3564.5
40°	2706.5	2698.1	2512.5	2342.7	2334.3	2380.0	2640.2	2934.9	3087.0	3298.7	4032.6
42.5°	3244.6	3231.5	2978.8	2810.9	2782.9	2798.8	3016.1	3379.8	3534.6	3749.1	4536.2
45°	3722.1	3718.3	3487.1	3261.4	3211.0	3261.4	3485.2	3900.2	4011.2	4236.9	5038.9
47.5°	4122.2	4122.2	3953.4	3806.0	3779.9	3809.7	4120.3	4477.5	4467.2	4756.3	5528.5
50°	4582.9	4579.1	4418.7	4355.3	4382.4	4424.3	4851.5	5085.6	4939.1	5266.5	5965.9
52.5°	4905.6	4927.9	4872.9	4862.7	5000.7	5073.4	5593.8	5680.6	5361.6	5750.5	6293.3
55°	5161.1	5187.2	5250.6	5322.4	5588.2	5683.4	6312.9	6244.8	5715.1	6170.2	6481.7
57.5°	5523.0	5485.6	5583.6	5725.3	6155.3	6270.0	7009.5	6777.3	5999.5	6510.6	6502.2
60°	5962.2	5967.8	5984.6	6163.7	6721.4	6868.7	7695.9	7280.9	6182.3	6719.5	6274.6
62.5°	6490.1	6498.5	6533.0	6808.1	7481.4	7620.4	8427.1	7693.1	6266.2	6660.7	5687.1
65°	6453.7	6489.1	6874.3	7815.3	8637.0	8774.0	9280.5	7982.3	6139.4	6123.6	4630.4
67.5°	5879.2	5937.0	6581.5	9018.4	10379.1	10532.0	10311.9	8039.1	5592.0	4761.9	3020.7
70°	5125.7	5146.2	5921.2	10100.2	12396.3	12551.1	11235.2	7413.4	4243.4	2656.1	1353.2
72.5°	4002.8	4007.4	4916.8	10351.1	13491.2	13499.6	10510.6	5503.4	2282.1	1020.3	470.0
75°	2859.4	2831.4	3293.1	8394.5	11869.4	11964.5	7879.7	2581.5	872.0	482.2	234.1
77.5°	1533.2	1564.0	1863.4	4978.3	8199.6	8361.8	4299.4	744.2	443.9	328.3	154.8
80°	473.8	499.9	763.8	2279.3	4644.4	4742.4	1593.8	331.1	309.6	234.1	101.7
82.5°	149.2	154.8	356.3	957.8	1927.7	1972.5	461.6	187.5	211.7	154.8	59.7
85°	42.9	43.8	158.5	357.2	476.6	485.9	129.6	72.7	121.2	96.1	30.8
87.5°	4.7	14.9	59.7	59.7	42.0	41.0	14.0	15.9	34.5	12.1	5.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7
2.5°	1848.4	1849.4	1837.3	1816.7	1794.4	1775.7	1752.4	1733.7	1720.7	1716.9	1723.5
5°	1861.5	1855.0	1820.5	1758.0	1683.4	1619.0	1547.2	1490.3	1453.0	1437.2	1442.8
7.5°	1881.1	1862.4	1786.9	1663.8	1521.1	1394.3	1265.6	1165.8	1102.4	1070.6	1075.3
10°	1897.9	1860.6	1730.9	1527.6	1309.4	1117.3	943.8	823.5	756.4	724.6	725.6
12.5°	1913.7	1859.6	1658.2	1366.3	1070.6	835.6	674.3	614.6	595.9	589.4	587.5
15°	1943.6	1862.4	1566.8	1181.6	832.8	631.4	572.6	571.7	575.4	573.6	572.6
17.5°	1984.6	1865.2	1463.3	985.8	642.6	556.8	554.0	562.4	568.0	565.2	564.2
20°	2037.8	1876.4	1353.2	791.8	552.1	538.1	544.6	552.1	556.8	552.1	551.2
22.5°	2112.4	1896.0	1232.9	636.0	523.2	526.9	532.5	540.9	545.6	539.1	538.1
25°	2203.8	1926.8	1114.5	553.0	509.2	513.9	522.3	531.6	537.2	530.7	529.7
27.5°	2322.2	1976.2	1005.4	534.4	495.2	498.0	510.1	524.1	531.6	523.2	523.2
30°	2493.8	2057.4	911.2	542.8	486.8	480.3	497.1	516.7	525.1	517.6	516.7
32.5°	2721.4	2172.1	853.3	555.8	483.1	459.8	475.6	500.8	514.8	510.1	510.1
35°	3019.8	2346.5	831.0	570.8	480.3	438.3	449.5	476.6	500.8	505.5	505.5
37.5°	3381.7	2588.9	837.5	577.3	471.9	420.6	426.2	449.5	481.2	496.2	499.9
40°	3792.9	2871.5	874.8	570.8	462.6	405.7	406.6	424.3	452.3	474.7	482.2
42.5°	4217.3	3201.7	943.8	546.5	454.2	392.6	389.8	402.0	420.6	436.5	443.0
45°	4621.1	3541.1	1011.9	512.9	443.9	379.6	373.0	377.7	381.4	388.0	391.7
47.5°	4973.6	3779.9	992.3	482.2	429.9	364.7	353.5	351.6	340.4	339.5	338.5
50°	5217.1	3832.1	881.3	451.4	409.4	347.9	330.1	319.0	299.4	290.0	291.0
52.5°	5294.5	3626.0	720.0	420.6	375.8	325.5	300.3	282.6	258.3	249.9	249.0
55°	5191.9	3222.2	575.4	383.3	329.2	295.6	267.7	244.3	224.8	214.5	214.5
57.5°	4941.0	2708.3	455.1	339.5	279.8	262.1	234.1	210.8	194.0	183.7	181.9
60°	4525.1	2150.6	360.0	287.2	238.7	225.7	196.8	181.9	166.9	154.8	152.0
62.5°	3893.7	1535.1	282.6	227.6	199.6	184.7	167.9	156.7	139.0	122.2	119.4
65°	3038.5	939.1	218.2	166.9	160.4	152.9	142.7	132.4	111.0	94.2	91.4
67.5°	1916.5	444.9	155.7	125.9	126.8	123.1	118.4	110.0	94.2	79.3	77.4
70°	844.0	215.4	102.6	96.1	94.2	94.2	97.9	95.1	80.2	66.2	63.4
72.5°	287.2	115.6	76.5	72.7	68.1	67.1	82.1	79.3	64.4	51.3	48.5
75°	150.2	77.4	56.0	52.2	41.0	49.4	65.3	61.6	45.7	33.6	30.8
77.5°	97.9	55.0	38.2	33.6	23.3	32.6	48.5	42.9	27.0	16.8	14.9
80°	61.6	36.4	22.4	15.9	11.2	17.7	26.1	18.7	10.3	3.7	2.8
82.5°	32.6	18.7	8.4	5.6	4.7	5.6	6.5	4.7	1.9	0.0	0.0
85°	13.1	6.5	2.8	1.9	0.9	0.0	1.9	0.9	0.0	0.0	0.0
87.5°	4.7	0.9	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)