

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: P451301

Luminaire Tested: **GALN-SA2A-830-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7243 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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

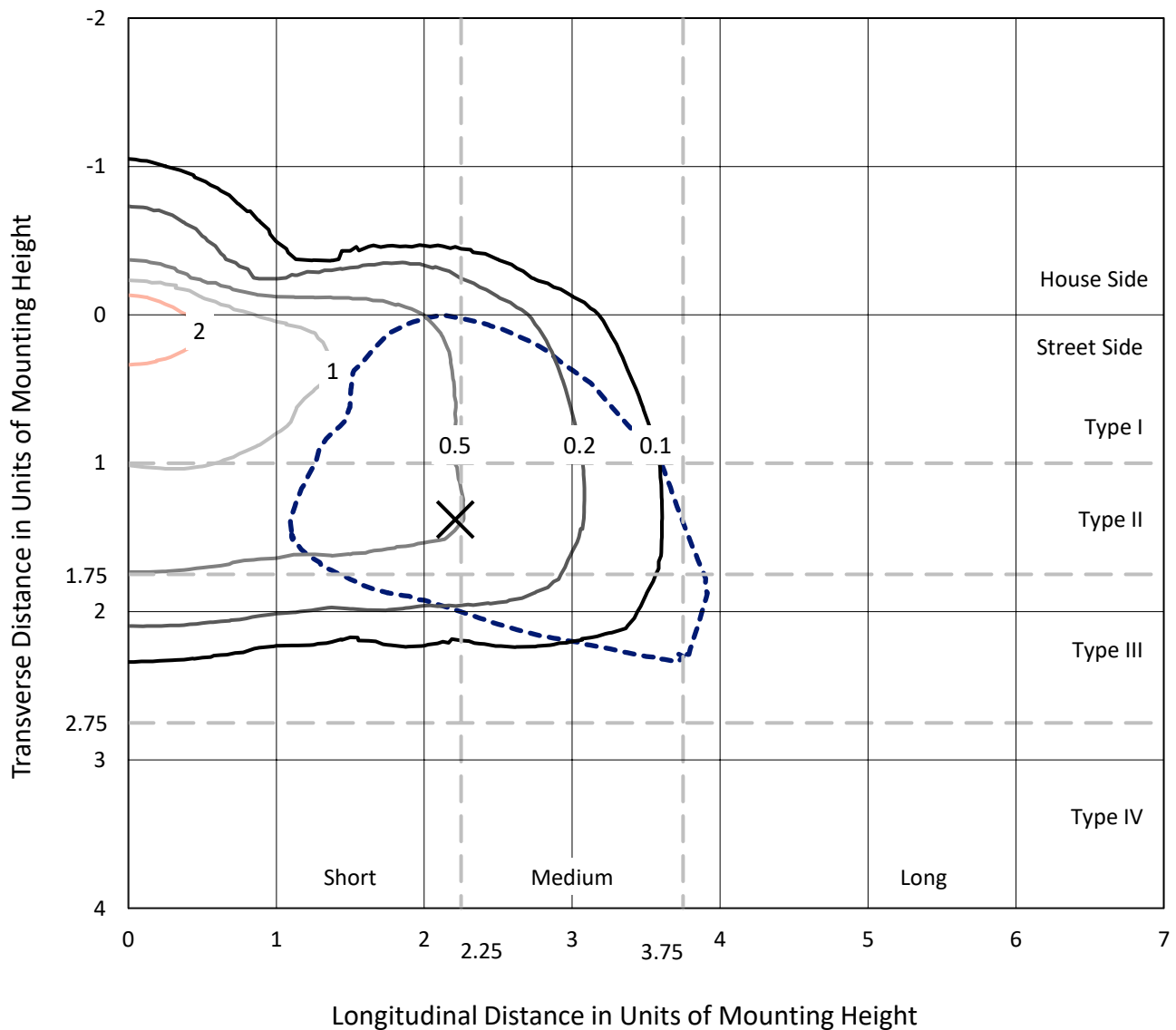


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Iso-Footcandle Lines of Horizontal Illumination

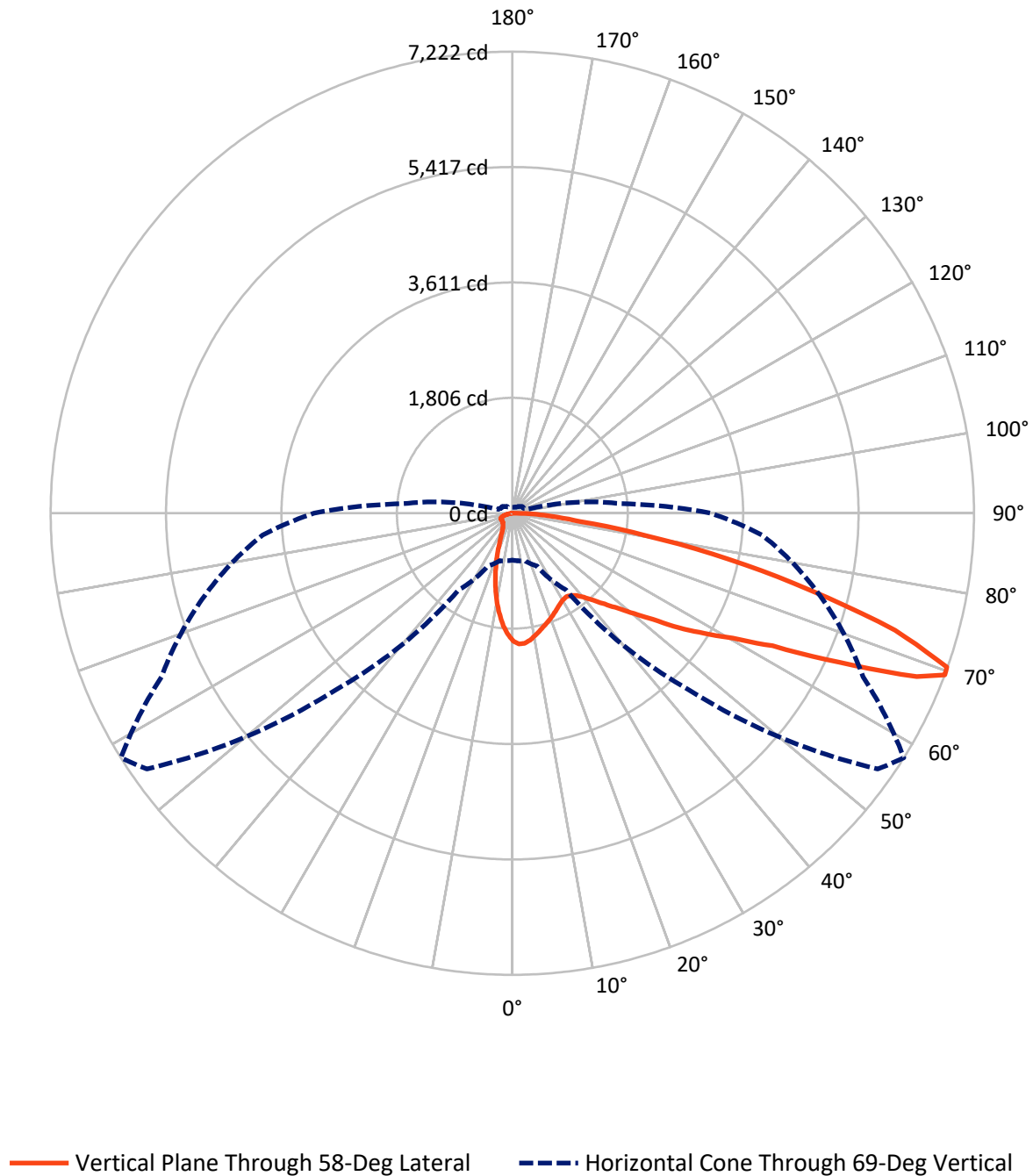
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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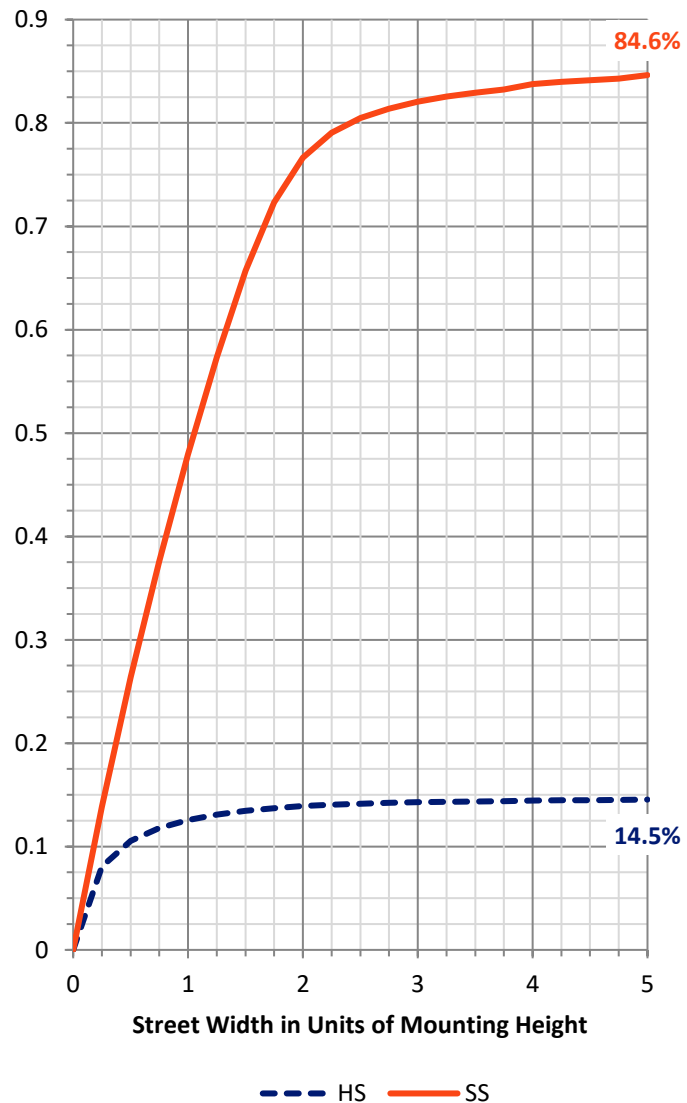
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.5	0.0	1061.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6181.5	0.0	6181.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	7243.0	0.0	7243.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.0	2.3
10°-20°	373.2	5.2
20°-30°	482.2	6.7
30°-40°	626.3	8.6
40°-50°	910.6	12.6
50°-60°	1453.0	20.1
60°-70°	1941.1	26.8
70°-80°	1118.9	15.4
80°-90°	167.6	2.3
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°	7243.0	100.0
0°-180°	7243.0	100.0

Coefficient of Utilization



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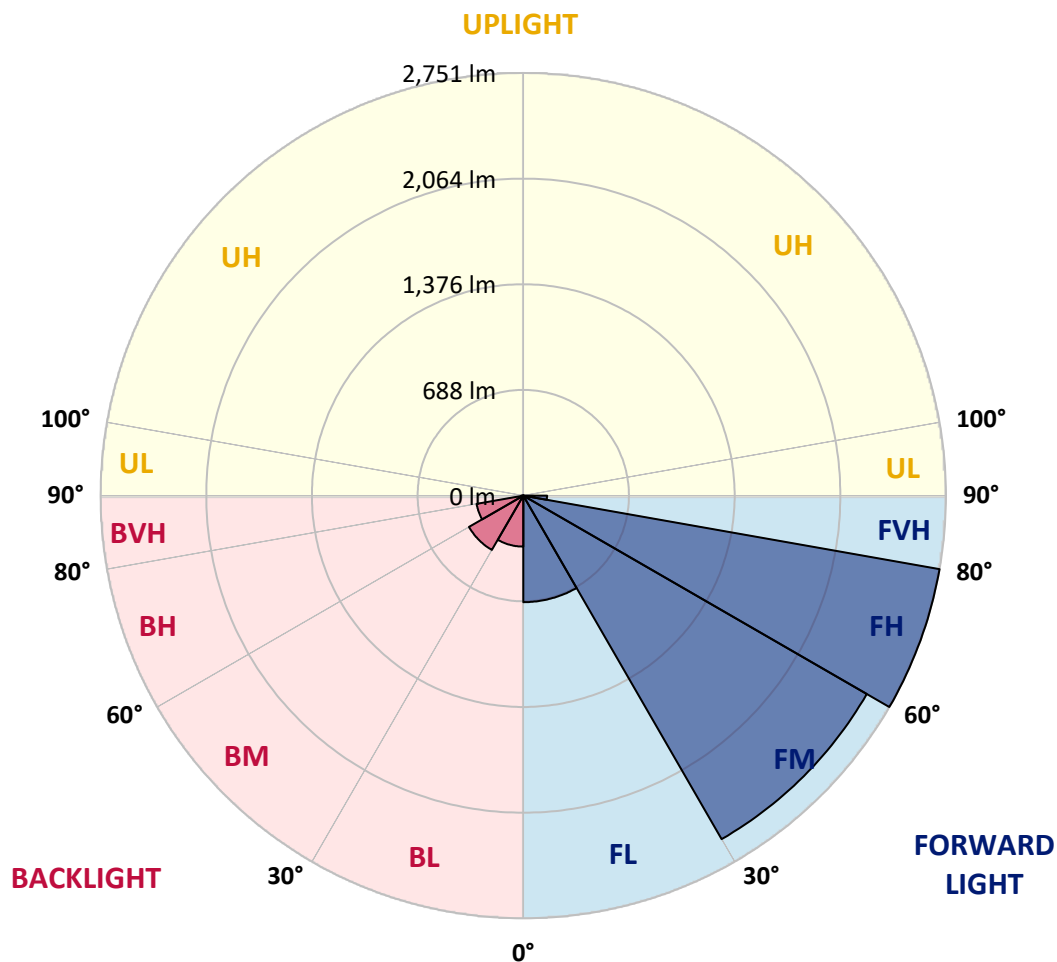
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.7	9.6			
FM	(30°-60°)	2581.8	35.6			
FH	(60°-80°)	2751.3	38.0			G2/5000
FVH	(80°-90°)	154.8	2.1			G2/225
BL	(0°-30°)	331.8	4.6	B1/500		
BM	(30°-60°)	408.2	5.6	B1/1000		
BH	(60°-80°)	308.7	4.3	B1/500		G1/500
BVH	(80°-90°)	12.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5
2.5°	2075.9	2081.5	2079.9	2077.9	2074.7	2065.8	2051.2	2048.8	2039.5	2019.7	1995.1
5°	2044.0	2048.8	2049.2	2052.0	2056.1	2054.5	2044.0	2042.7	2029.0	2002.3	1961.1
7.5°	1934.5	1940.9	1955.1	1970.8	1985.0	1998.3	2001.5	2003.6	1995.1	1964.4	1909.4
10°	1811.3	1817.7	1824.2	1847.6	1882.4	1915.5	1943.0	1946.6	1948.6	1920.3	1853.3
12.5°	1674.8	1688.1	1701.8	1736.6	1783.0	1835.1	1883.6	1891.3	1905.0	1883.6	1804.8
15°	1558.8	1572.6	1592.3	1623.4	1679.6	1754.7	1823.0	1835.5	1862.6	1851.7	1759.6
17.5°	1478.4	1483.3	1497.0	1532.6	1593.2	1672.3	1763.6	1788.7	1831.9	1829.1	1720.8
20°	1415.0	1421.1	1429.6	1451.4	1514.4	1598.0	1708.3	1740.6	1799.2	1808.9	1682.4
22.5°	1388.4	1392.8	1391.6	1403.3	1446.1	1530.1	1652.1	1690.5	1770.1	1795.1	1646.9
25°	1390.0	1394.0	1388.0	1385.1	1410.6	1470.4	1593.6	1642.4	1746.7	1785.8	1614.6
27.5°	1417.0	1419.9	1408.6	1397.2	1399.3	1433.2	1545.1	1599.2	1726.9	1789.9	1587.5
30°	1453.4	1458.6	1451.4	1437.6	1422.7	1424.3	1514.0	1567.3	1717.6	1804.0	1574.6
32.5°	1500.2	1505.1	1501.9	1491.0	1471.6	1450.2	1506.3	1555.6	1718.4	1832.7	1571.7
35°	1549.5	1559.2	1564.5	1563.7	1547.9	1510.7	1536.6	1577.4	1737.8	1880.8	1588.3
37.5°	1605.3	1613.4	1636.0	1650.5	1636.0	1592.8	1604.9	1633.1	1780.6	1950.2	1624.7
40°	1659.4	1671.5	1704.6	1749.9	1744.2	1706.3	1709.1	1727.7	1856.1	2053.6	1695.8
42.5°	1716.0	1730.5	1788.3	1855.3	1868.6	1839.2	1846.8	1863.4	1963.6	2197.0	1817.7
45°	1788.7	1806.0	1877.1	1960.7	2013.3	1995.1	2016.9	2025.0	2107.4	2383.7	1978.5
47.5°	1882.4	1902.6	1990.2	2094.4	2168.8	2185.3	2223.3	2218.5	2285.5	2604.6	2187.0
50°	2040.3	2051.6	2134.4	2240.7	2342.9	2417.6	2458.8	2466.5	2506.5	2819.5	2420.0
52.5°	2228.2	2238.3	2298.0	2390.9	2519.0	2677.3	2779.1	2754.1	2763.8	3081.3	2692.7
55°	2439.4	2456.4	2494.4	2556.2	2722.2	2955.3	3159.6	3165.7	3058.3	3331.7	2954.0
57.5°	2603.0	2631.7	2696.7	2784.8	2995.2	3264.3	3539.0	3543.0	3405.6	3599.1	3242.5
60°	2520.6	2554.5	2703.2	2917.7	3353.5	3803.5	3992.2	3969.2	3743.8	3903.7	3594.3
62.5°	2165.1	2171.2	2387.3	2722.6	3463.8	4525.0	4666.8	4569.4	4195.0	4289.9	3951.8
65°	1401.3	1440.9	1612.1	2081.9	3101.5	4925.3	5848.7	5623.7	4827.5	4728.2	4251.1
67.5°	884.6	874.5	945.6	1188.8	2133.2	4572.6	6857.3	6821.8	5654.8	5004.9	4179.6
69°	733.6	744.9	769.1	911.3	1467.9	3904.1	6976.5	7222.1	6055.9	4983.0	3919.9
70°	665.3	670.5	696.0	807.9	1132.7	3269.9	6781.0	7211.2	6213.5	4891.8	3731.6
72.5°	528.0	527.6	571.2	672.2	846.7	1866.6	5568.0	6260.7	6037.3	4466.8	3083.3
75°	401.1	407.6	455.6	568.8	780.0	1020.0	3885.5	4821.5	4821.9	3528.0	1924.0
77.5°	289.2	293.3	349.4	477.5	734.8	826.9	2588.1	3458.2	3250.9	1616.6	604.7
80°	189.4	191.9	234.7	378.1	662.5	780.0	1534.6	2116.7	1533.4	429.0	200.0
82.5°	103.8	115.9	143.4	244.8	531.6	720.6	932.7	1071.3	575.2	191.1	104.2
85°	52.1	55.3	80.8	143.0	347.4	596.2	649.5	614.4	296.9	94.9	54.1
87.5°	15.3	19.4	33.5	55.3	141.0	310.6	361.5	324.4	114.3	34.3	11.3
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°	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5	2001.5
2.5°	1985.0	1977.7	1945.4	1916.3	1889.6	1861.4	1837.5	1816.5	1818.6	1819.0	1797.5
5°	1939.7	1923.2	1861.8	1804.4	1755.9	1694.5	1642.0	1608.1	1591.1	1568.5	1576.6
7.5°	1878.3	1846.4	1761.2	1665.9	1576.6	1497.0	1410.6	1351.2	1313.2	1276.5	1281.3
10°	1814.9	1763.6	1639.6	1513.6	1398.0	1270.8	1160.5	1066.0	995.7	969.5	952.1
12.5°	1749.9	1682.4	1524.9	1357.3	1197.7	1045.4	889.1	787.7	710.1	668.9	674.2
15°	1690.5	1608.5	1405.3	1200.9	993.7	812.3	656.4	559.9	505.7	494.4	500.9
17.5°	1635.6	1528.1	1293.4	1049.0	807.1	609.1	493.2	438.7	416.9	410.8	410.4
20°	1579.0	1459.9	1167.8	886.7	628.9	472.2	404.8	379.3	375.3	377.7	378.1
22.5°	1521.7	1375.4	1038.5	725.5	500.9	386.2	353.9	347.0	350.2	355.9	356.7
25°	1468.7	1301.1	914.1	584.1	399.9	339.3	323.6	323.6	330.8	339.3	339.7
27.5°	1425.1	1229.2	790.1	463.7	334.9	305.4	300.1	303.0	313.1	319.5	319.9
30°	1389.2	1162.1	673.0	371.6	294.5	278.3	277.1	282.0	289.2	295.3	295.7
32.5°	1362.1	1103.2	563.5	312.2	266.6	257.7	257.3	260.9	265.0	266.6	268.2
35°	1351.6	1054.3	463.3	274.7	248.0	242.4	242.4	242.0	243.6	244.4	245.2
37.5°	1360.1	1016.7	385.8	250.4	234.3	230.2	227.8	225.4	224.6	224.6	225.0
40°	1396.0	996.9	328.0	234.7	224.6	218.5	214.1	211.3	208.4	209.2	210.1
42.5°	1472.4	1000.6	288.8	224.2	216.1	207.6	201.2	197.9	195.9	198.3	197.9
45°	1594.0	1036.9	263.8	216.9	207.6	196.7	190.7	187.4	187.4	191.1	192.3
47.5°	1764.0	1106.4	250.4	211.3	201.2	188.2	182.2	179.8	180.6	186.6	187.0
50°	1971.6	1227.2	248.0	208.4	197.9	182.2	175.3	172.9	174.9	181.4	182.2
52.5°	2200.7	1382.7	259.7	208.8	195.1	178.5	169.7	166.0	168.0	173.3	174.9
55°	2472.1	1577.4	290.0	210.5	191.1	176.5	165.6	157.5	160.0	163.6	164.0
57.5°	2749.2	1823.0	343.4	210.9	187.8	172.9	158.7	148.2	148.2	150.7	151.9
60°	3087.7	2090.4	413.6	211.3	188.2	167.6	149.5	137.7	136.1	137.3	137.7
62.5°	3423.8	2314.2	425.4	210.1	192.3	162.4	139.4	127.2	124.4	124.0	123.2
65°	3572.1	2272.6	348.6	204.4	196.7	159.2	131.3	117.1	112.3	110.7	110.7
67.5°	3330.5	1922.4	262.2	196.7	193.9	155.9	123.6	108.7	103.0	99.8	99.8
69°	3103.5	1709.9	235.5	191.5	186.6	150.7	118.8	104.2	97.4	93.7	92.5
70°	2928.2	1563.7	224.2	187.0	179.8	144.6	115.1	101.0	93.3	89.3	88.5
72.5°	2336.8	1226.8	196.3	170.1	153.1	121.6	102.2	90.9	83.6	79.2	78.0
75°	1346.7	664.9	162.8	147.8	123.2	94.5	86.4	79.2	73.5	69.5	68.3
77.5°	414.4	256.9	118.0	116.7	90.5	73.1	69.1	66.2	62.2	57.8	57.0
80°	174.5	130.9	80.0	78.8	60.2	50.9	49.7	49.3	47.7	44.0	42.8
82.5°	95.7	73.9	55.7	48.5	36.4	29.5	30.7	31.1	29.9	26.3	23.8
85°	46.9	40.4	27.1	21.8	16.6	10.5	10.1	12.1	11.3	8.1	8.9
87.5°	9.3	11.3	7.3	3.2	1.6	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)