

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: STREETWORKS

Report Number: P319826

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-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: 7578 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

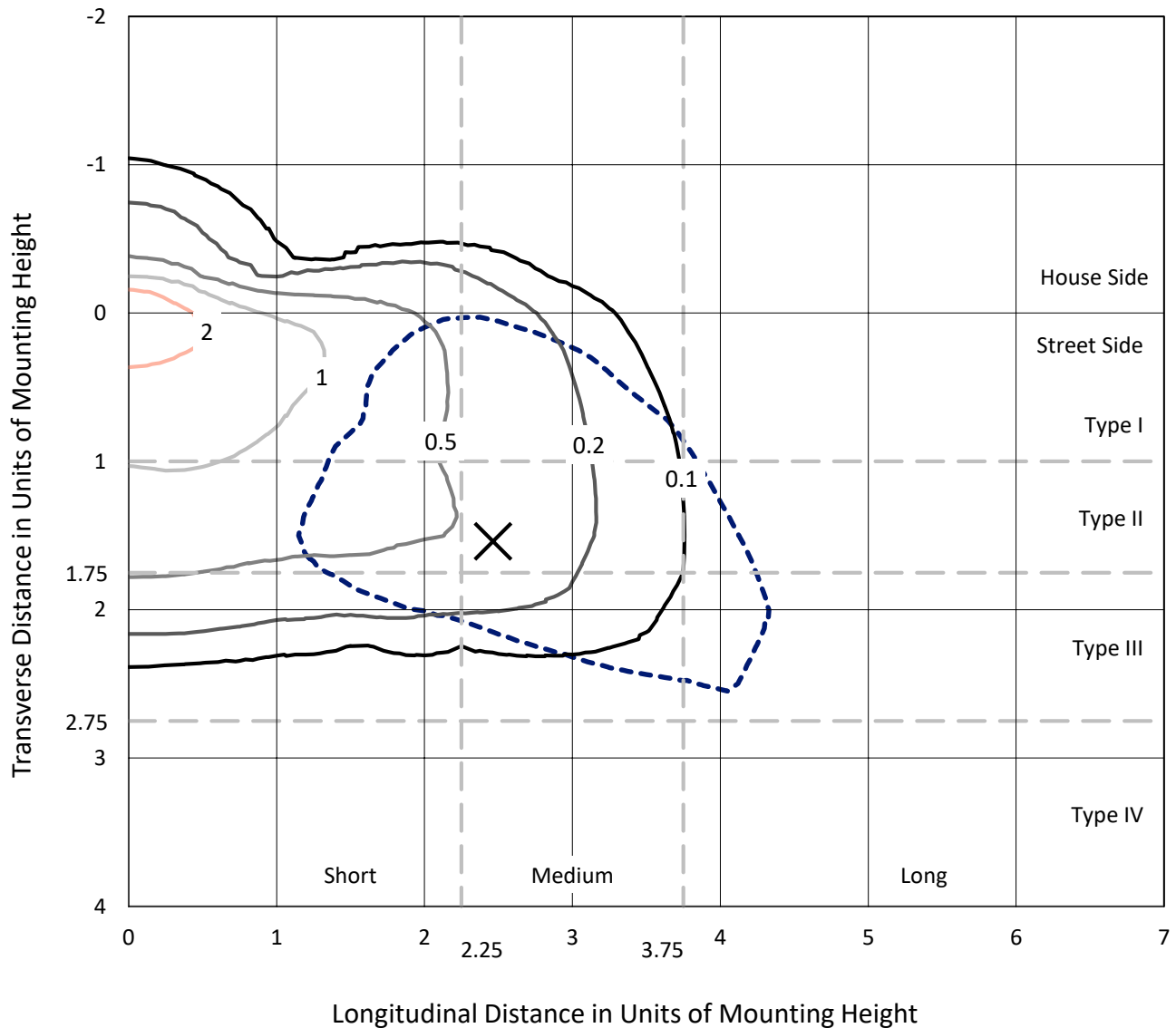
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

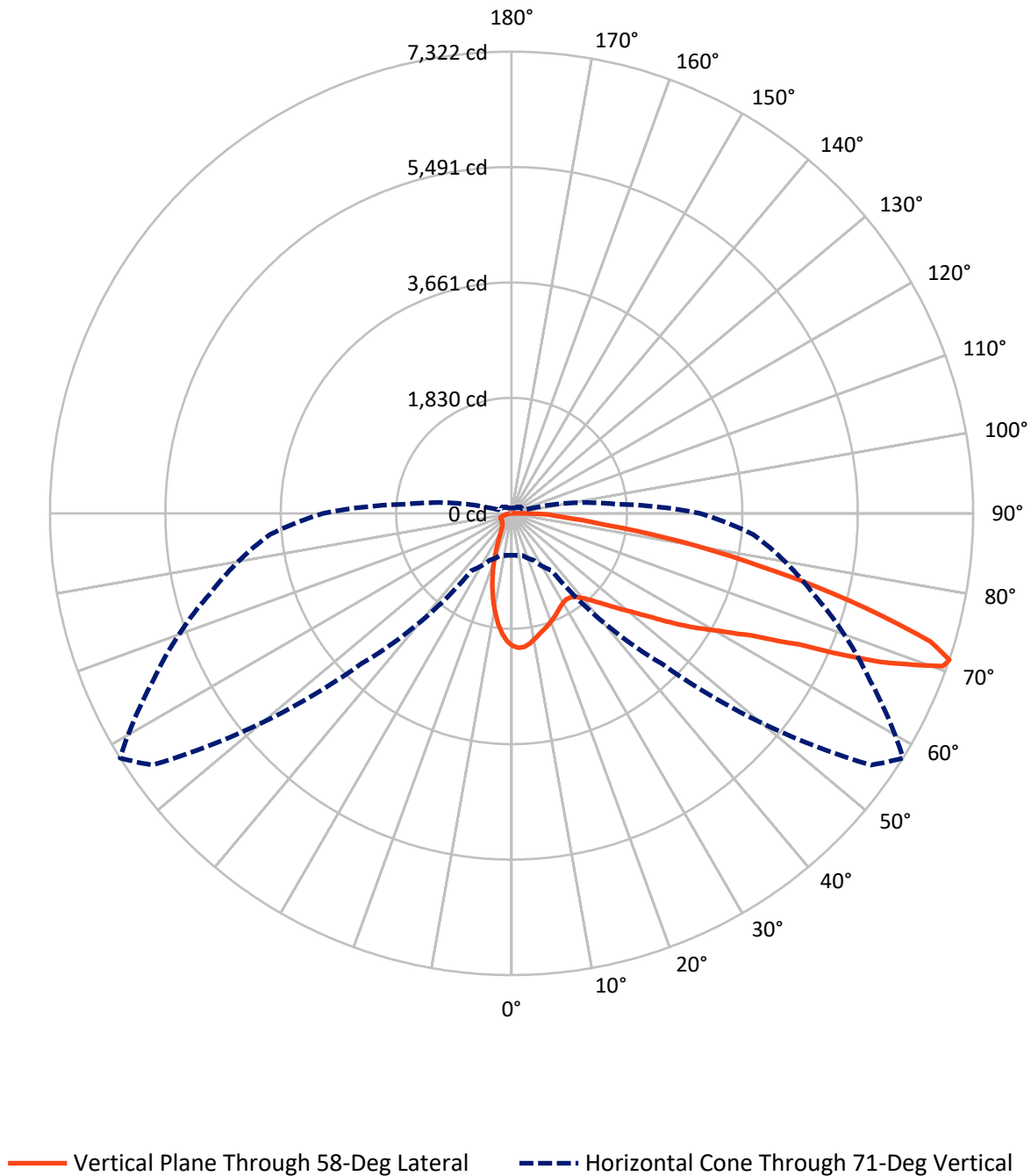
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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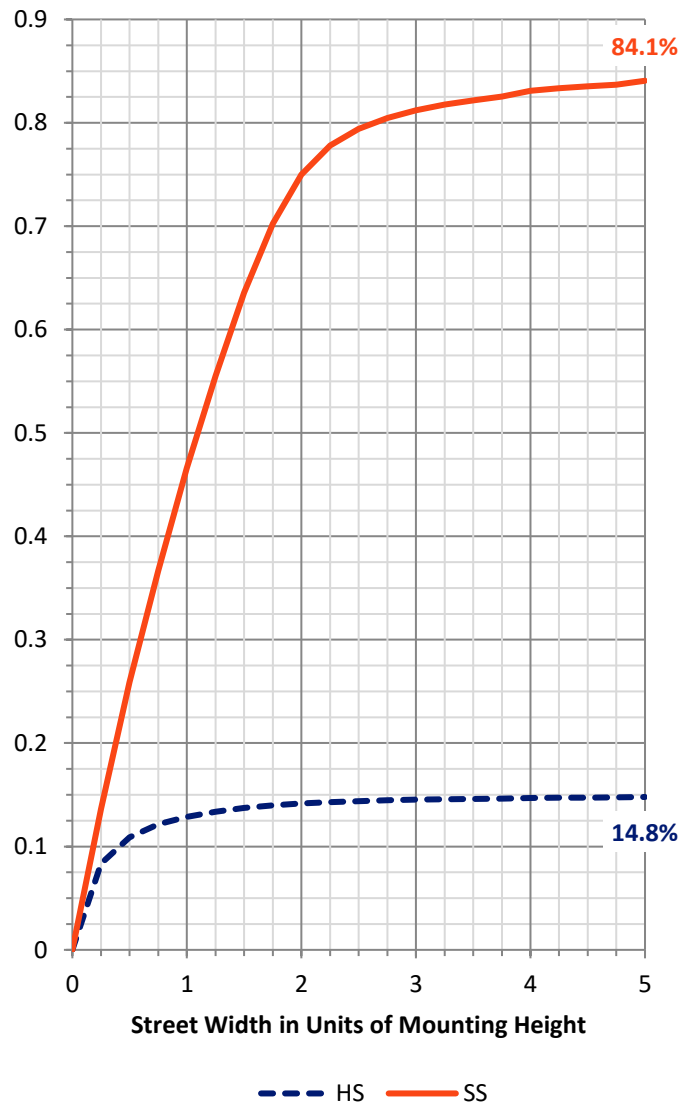
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1133.0	0.0	1133.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	6445.0	0.0	6445.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	7578.0	0.0	7578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.1	2.4
10°-20°	402.8	5.3
20°-30°	511.9	6.8
30°-40°	652.0	8.6
40°-50°	924.6	12.2
50°-60°	1430.9	18.9
60°-70°	1948.0	25.7
70°-80°	1299.5	17.1
80°-90°	227.2	3.0
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°	7578.0	100.0
0°-180°	7578.0	100.0

Coefficient of Utilization



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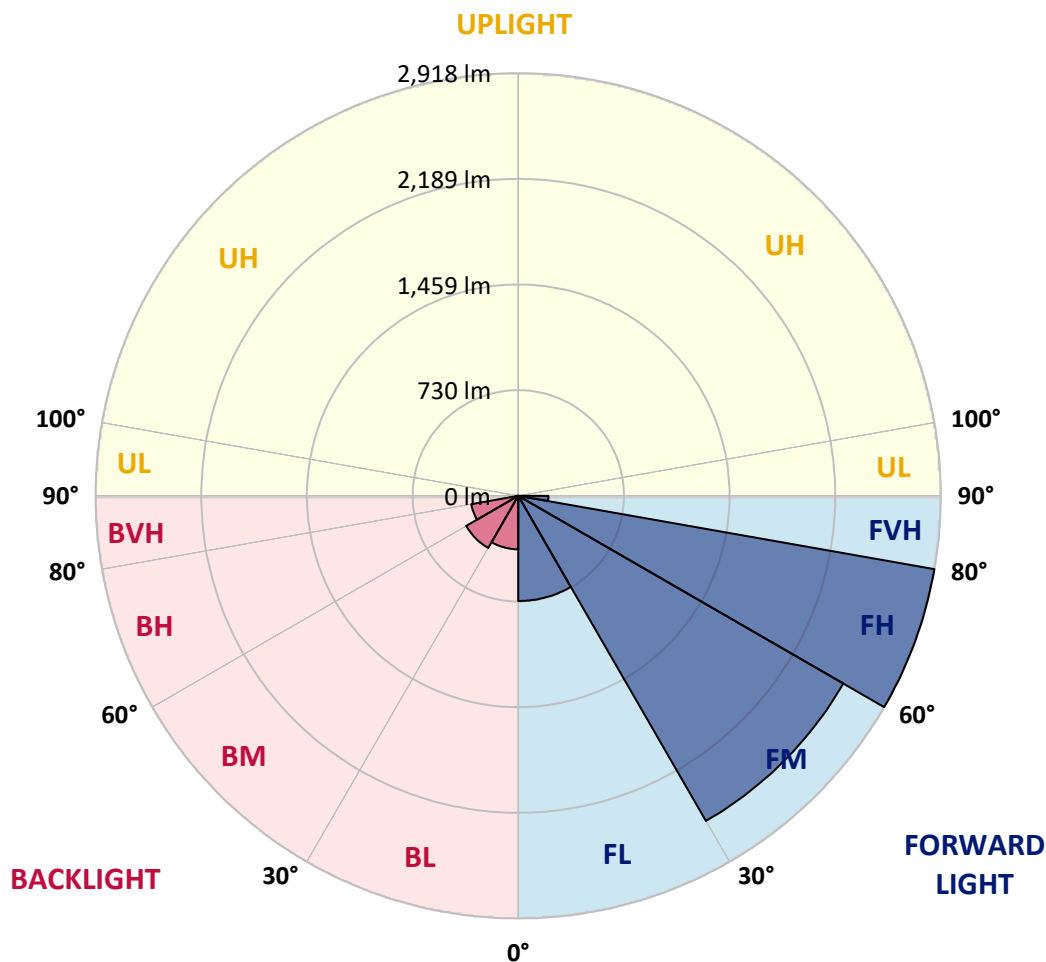
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	726.5	9.6			
FM	(30°-60°)	2592.0	34.2			
FH	(60°-80°)	2918.2	38.5			G2/5000
FVH	(80°-90°)	208.3	2.7			G2/225
BL	(0°-30°)	369.3	4.9	B1/500		
BM	(30°-60°)	415.5	5.5	B1/1000		
BH	(60°-80°)	329.3	4.3	B1/500		G1/500
BVH	(80°-90°)	18.9	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6
2.5°	2155.3	2152.4	2153.5	2151.4	2146.3	2141.3	2133.9	2135.2	2125.0	2109.6	2090.6
5°	2114.7	2113.6	2121.5	2126.0	2129.7	2126.8	2124.7	2127.3	2112.3	2091.2	2058.2
7.5°	2029.4	2017.8	2027.8	2042.9	2057.1	2067.9	2082.2	2084.0	2074.5	2052.4	2009.1
10°	1908.2	1897.1	1911.9	1935.4	1963.9	1989.8	2018.6	2023.9	2025.7	2005.6	1953.1
12.5°	1782.6	1774.1	1788.9	1821.9	1869.2	1909.0	1955.0	1962.9	1979.2	1965.8	1901.4
15°	1670.1	1667.0	1684.9	1717.4	1771.8	1832.7	1899.0	1913.5	1941.2	1936.7	1861.0
17.5°	1573.0	1572.2	1585.9	1620.0	1680.2	1757.2	1843.3	1867.8	1909.0	1914.3	1827.7
20°	1500.7	1499.1	1508.6	1533.7	1595.7	1683.1	1783.1	1816.9	1876.3	1894.8	1793.4
22.5°	1461.9	1461.6	1461.9	1473.7	1524.4	1605.7	1724.5	1765.7	1844.4	1879.2	1755.4
25°	1455.3	1454.5	1448.7	1447.3	1476.1	1541.1	1666.4	1711.8	1814.0	1868.4	1719.2
27.5°	1472.4	1473.5	1465.8	1453.4	1459.2	1498.6	1616.0	1664.6	1789.7	1866.3	1694.2
30°	1508.1	1507.5	1500.9	1488.0	1476.6	1482.7	1580.1	1628.7	1773.3	1875.5	1677.0
32.5°	1547.4	1550.3	1549.0	1541.8	1525.0	1500.7	1569.3	1616.8	1768.6	1897.7	1669.6
35°	1594.6	1597.8	1607.3	1612.9	1593.1	1554.0	1592.5	1633.7	1782.3	1939.4	1681.5
37.5°	1639.5	1647.7	1674.4	1697.9	1681.0	1637.4	1654.3	1683.6	1824.8	2005.1	1713.4
40°	1691.3	1698.4	1741.9	1791.8	1789.2	1744.0	1753.8	1773.3	1899.8	2099.3	1771.2
42.5°	1742.2	1756.5	1819.5	1890.3	1910.6	1870.8	1886.3	1896.6	2005.4	2224.2	1872.1
45°	1810.0	1825.3	1913.0	1998.2	2045.8	2023.3	2048.1	2052.1	2138.2	2394.2	2018.6
47.5°	1912.7	1930.1	2032.3	2121.8	2194.4	2196.8	2237.7	2236.1	2303.9	2588.7	2203.1
50°	2072.7	2097.8	2181.4	2265.1	2353.3	2402.4	2457.0	2449.4	2502.7	2796.0	2415.6
52.5°	2282.3	2293.9	2355.9	2417.7	2527.2	2637.3	2715.7	2708.9	2728.1	3009.0	2656.9
55°	2499.5	2508.2	2533.8	2567.6	2714.9	2894.4	3060.2	3049.4	3000.5	3230.2	2895.2
57.5°	2694.9	2712.5	2730.2	2744.2	2903.9	3163.1	3412.6	3413.4	3296.2	3468.8	3141.5
60°	2725.2	2740.8	2857.7	2968.1	3227.3	3521.6	3789.8	3781.9	3602.1	3727.8	3416.0
62.5°	2409.0	2444.1	2639.4	2933.0	3538.8	4177.3	4271.0	4261.3	3968.0	4046.9	3735.7
65°	1726.4	1766.2	2001.9	2443.0	3387.8	4899.8	5139.5	5008.0	4466.9	4439.4	4110.0
67.5°	996.0	1005.5	1107.6	1461.9	2579.5	4937.5	6464.3	6280.4	5241.6	4884.8	4293.2
70°	736.5	736.2	760.5	899.6	1395.9	4029.8	7094.4	7259.4	6057.3	5031.3	4034.2
71°	666.0	666.8	694.0	818.8	1105.5	3373.0	6960.6	7321.7	6272.2	4958.9	3846.8
72.5°	569.6	572.3	610.0	734.4	930.0	2326.1	6384.1	6947.9	6374.1	4780.5	3553.6
75°	432.1	438.2	490.5	619.0	850.0	1179.7	4685.5	5548.1	5662.4	4218.2	2640.5
77.5°	308.3	315.2	374.3	520.5	808.0	889.0	3137.8	4046.9	4167.0	2703.3	1191.0
80°	194.8	203.0	247.6	414.2	759.2	844.2	1971.9	2720.2	2272.2	865.0	303.0
82.5°	114.3	120.6	153.6	270.6	620.1	813.0	1160.1	1507.8	884.3	261.3	137.8
85°	66.3	69.2	95.8	172.4	450.3	767.4	852.4	842.9	383.8	127.8	65.2
87.5°	30.9	34.3	56.8	90.0	250.0	556.2	673.6	582.1	238.6	59.9	30.6
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°	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6	2099.6
2.5°	2081.4	2076.9	2058.2	2041.5	2024.1	2001.4	1976.3	1973.2	1957.9	1960.8	1955.5
5°	2040.2	2028.9	1983.7	1942.8	1894.5	1851.2	1804.2	1782.6	1751.4	1749.3	1741.4
7.5°	1981.4	1960.2	1890.3	1812.7	1735.1	1661.2	1588.0	1540.0	1490.9	1470.0	1468.2
10°	1915.1	1879.2	1776.3	1661.4	1549.5	1441.5	1337.0	1259.7	1190.0	1157.0	1155.7
12.5°	1852.3	1799.2	1658.0	1501.7	1348.6	1208.7	1065.4	963.8	876.4	847.1	834.7
15°	1799.0	1724.2	1542.9	1343.1	1157.2	963.0	799.8	692.9	612.1	584.2	578.9
17.5°	1747.2	1651.1	1424.9	1182.8	958.2	744.7	581.3	501.8	458.8	447.4	447.2
20°	1695.7	1575.9	1301.6	1018.9	765.8	557.0	446.9	411.3	396.7	395.4	393.3
22.5°	1637.4	1496.2	1172.0	854.5	597.6	437.9	379.9	365.6	363.7	368.5	368.5
25°	1582.8	1417.0	1040.6	693.4	464.9	365.3	339.2	336.3	341.3	349.8	350.6
27.5°	1531.8	1340.7	912.3	550.4	372.5	321.8	311.0	314.4	323.4	333.1	333.4
30°	1489.8	1268.6	787.7	433.7	314.7	289.3	287.5	294.3	304.1	311.7	313.6
32.5°	1457.4	1207.1	667.3	348.7	276.9	265.0	266.6	272.4	278.5	282.7	285.6
35°	1442.3	1154.3	556.2	294.1	252.9	246.3	248.4	251.6	254.2	257.4	259.7
37.5°	1445.0	1113.4	456.9	260.0	236.8	233.3	233.3	233.3	233.3	234.9	235.2
40°	1469.5	1089.9	376.2	238.4	226.0	222.3	219.4	216.7	214.6	215.7	215.1
42.5°	1532.3	1087.8	317.0	224.6	217.2	211.2	205.4	201.7	199.0	200.1	200.6
45°	1639.0	1114.2	277.2	214.9	209.1	199.8	192.4	188.5	186.6	190.1	190.6
47.5°	1777.0	1171.8	252.9	207.7	201.4	189.3	181.3	177.7	178.2	183.2	184.5
50°	1955.0	1265.2	241.3	203.3	196.1	180.3	172.1	168.9	170.5	177.7	179.2
52.5°	2150.3	1399.8	242.6	201.9	192.7	173.7	165.0	161.3	163.9	170.5	171.8
55°	2375.7	1561.6	264.5	203.8	187.7	169.5	159.2	152.8	155.0	161.0	162.1
57.5°	2626.2	1746.9	308.6	203.3	181.3	165.5	153.1	143.6	145.2	148.9	149.9
60°	2887.0	1970.8	376.9	204.8	178.4	160.8	144.9	133.0	132.5	135.7	136.2
62.5°	3200.1	2229.7	455.1	205.9	180.3	154.7	134.1	122.5	120.9	121.7	122.2
65°	3522.7	2417.2	425.8	201.7	186.1	149.7	124.6	112.2	109.3	108.8	109.0
67.5°	3532.7	2216.3	298.5	193.2	188.5	147.0	117.5	103.5	98.7	96.9	96.6
70°	3168.2	1800.5	232.6	184.3	179.0	142.8	110.9	96.3	89.2	86.3	86.1
71°	2990.2	1657.5	220.4	179.8	171.8	138.6	108.0	93.2	85.8	82.6	82.1
72.5°	2711.2	1485.9	205.6	172.6	158.1	127.8	102.4	88.7	81.0	77.3	76.6
75°	1945.7	971.7	176.6	153.9	130.9	101.9	89.7	79.7	73.1	68.6	68.1
77.5°	749.7	386.7	133.6	128.0	100.3	79.7	73.9	68.9	64.1	59.7	59.4
80°	231.8	172.9	97.4	96.3	72.6	59.4	57.5	56.2	54.4	49.6	48.6
82.5°	123.8	99.3	67.0	62.3	47.5	39.6	41.7	42.2	42.5	37.5	37.0
85°	59.1	52.5	37.7	35.4	27.7	22.2	25.6	27.7	28.0	23.0	21.4
87.5°	28.2	27.5	17.7	13.5	10.3	7.4	9.0	11.1	12.1	8.7	7.7
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)