

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: P199972

Luminaire Tested: **GAW-AF-02-LED-U-SL3-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-02-LED-U-SL3-7030-600
Description: GALLEON WALL LUMINAIRE
(2) 70 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: 7917 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
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: 28.75 FT

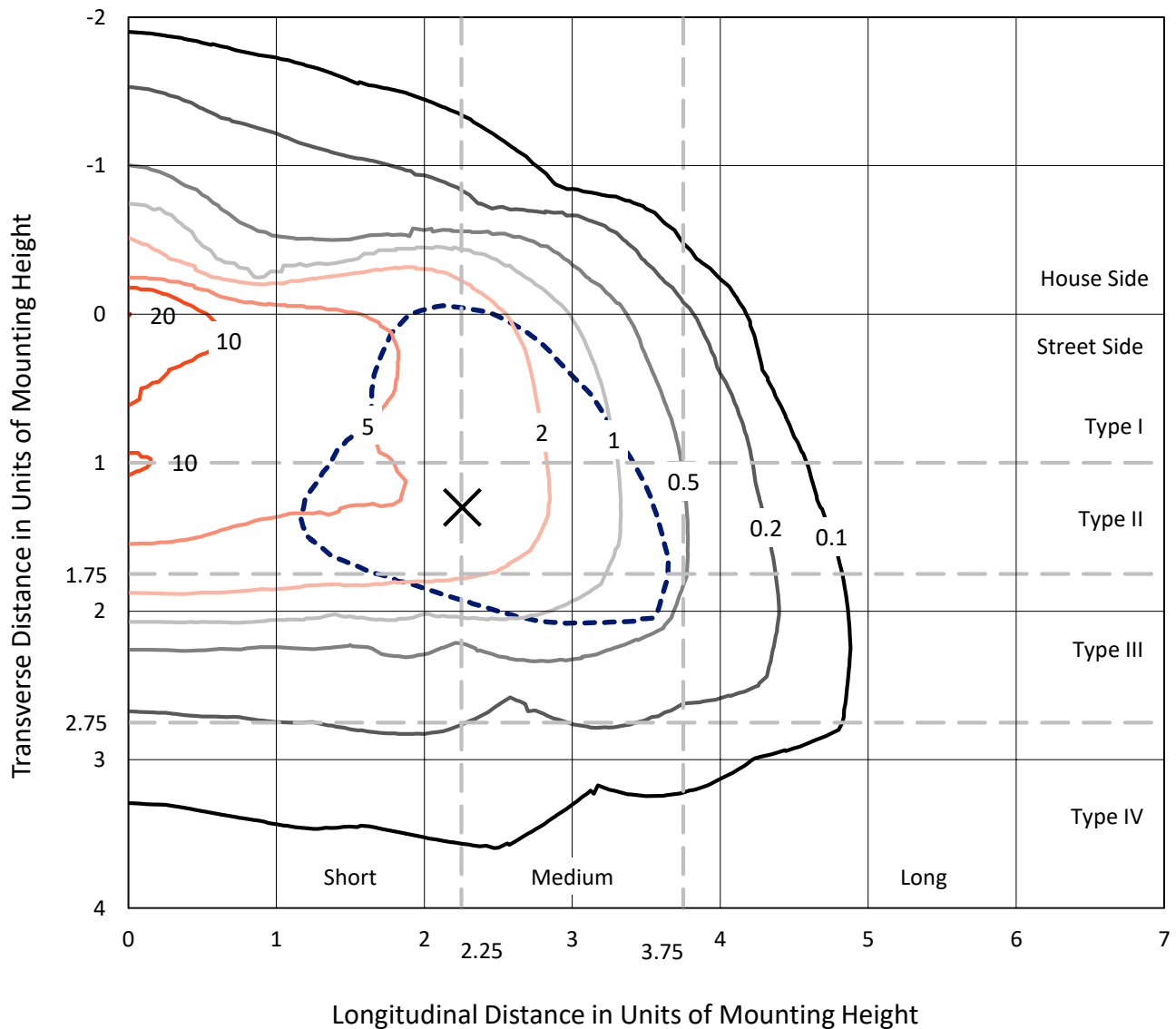


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

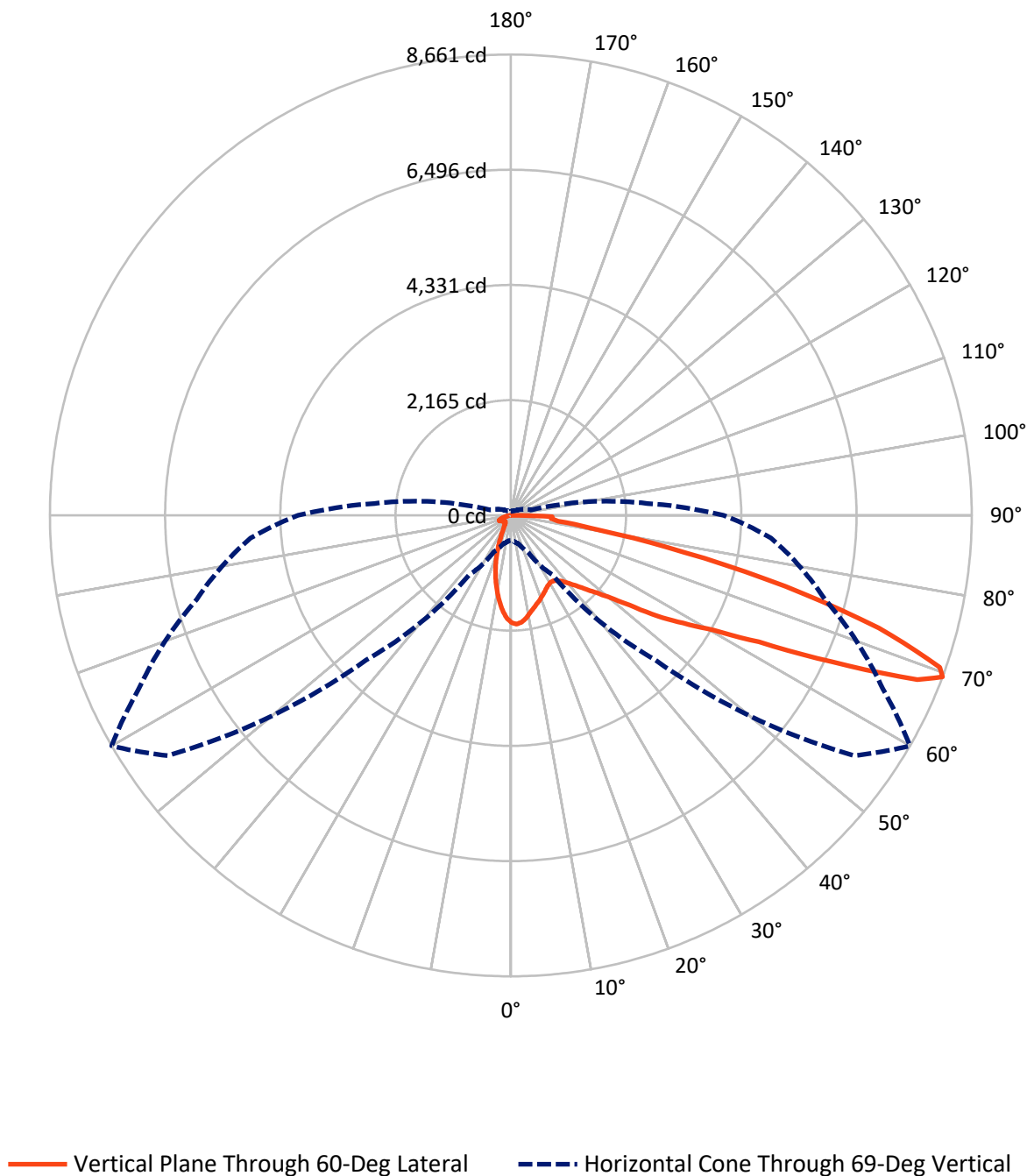


Based on 10 foot mounting height. Maximum calculated value = 20.2 fc
Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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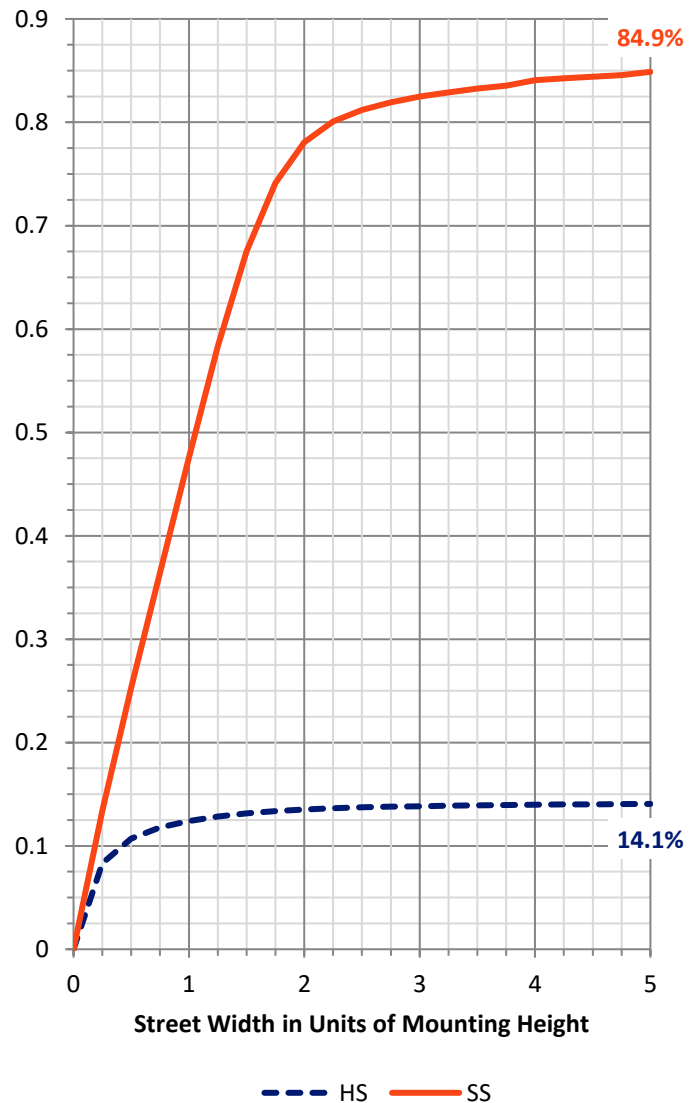
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1126.4	0.0	1126.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6790.6	0.0	6790.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	7917.0	0.0	7917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	2.2
10°-20°	363.4	4.6
20°-30°	463.1	5.8
30°-40°	636.6	8.0
40°-50°	1032.9	13.0
50°-60°	1656.6	20.9
60°-70°	2204.8	27.8
70°-80°	1190.4	15.0
80°-90°	198.6	2.5
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°	7917.0	100.0
0°-180°	7917.0	100.0

Coefficient of Utilization



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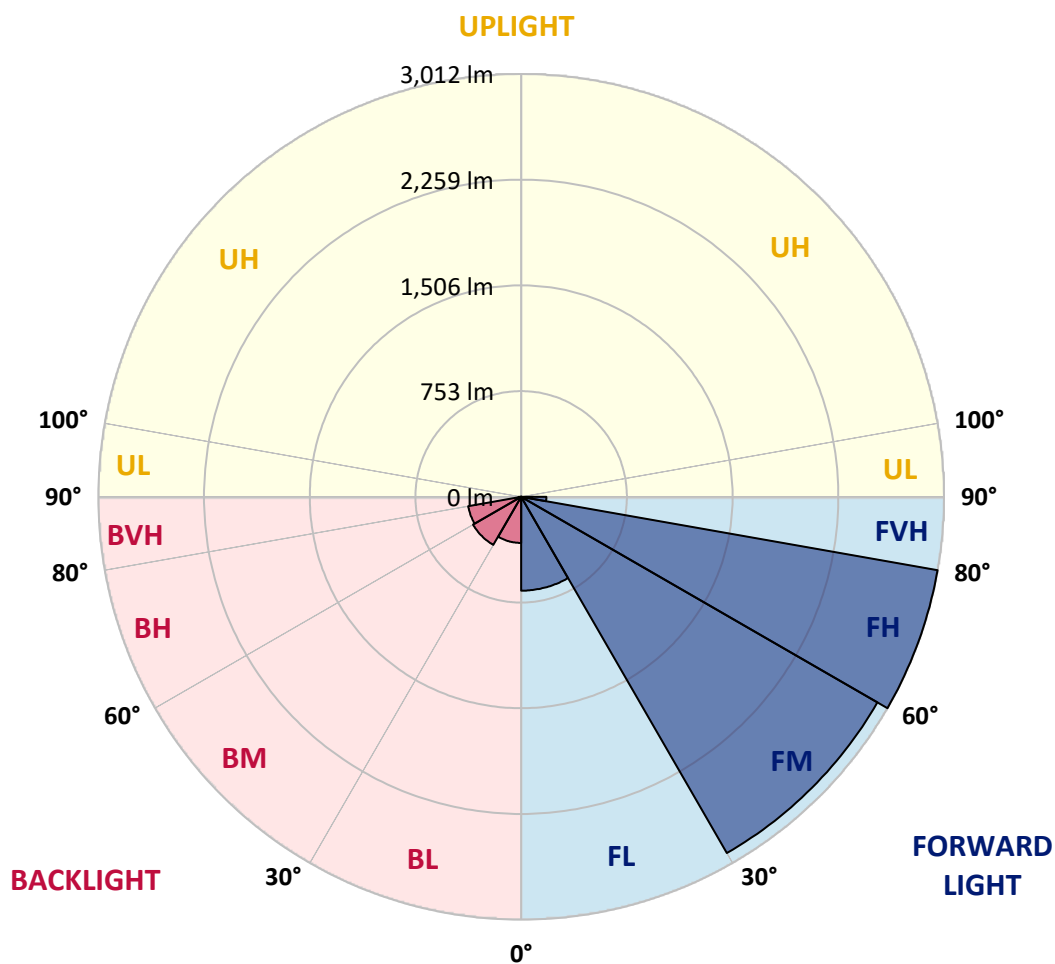
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.5	8.4			
FM	(30°-60°)	2930.4	37.0			
FH	(60°-80°)	3012.2	38.0			G2/5000
FVH	(80°-90°)	179.5	2.3			G2/225
BL	(0°-30°)	328.6	4.2	B1/500		
BM	(30°-60°)	395.7	5.0	B1/1000		
BH	(60°-80°)	382.9	4.8	B1/500		G1/500
BVH	(80°-90°)	19.1	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°	60°	65°	75°	85°
0°	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4
2.5°	2058.7	2063.3	2061.2	2060.2	2063.6	2058.2	2047.2	2043.7	2038.3	2025.7	2004.4
5°	1981.4	1995.2	1994.4	2004.7	2022.0	2026.5	2021.6	2022.3	2012.3	1996.7	1961.1
7.5°	1847.9	1853.7	1856.8	1879.3	1910.6	1935.8	1957.3	1964.2	1959.6	1946.2	1900.3
10°	1710.2	1714.9	1722.2	1748.4	1788.2	1823.1	1863.6	1886.9	1896.8	1894.5	1843.3
12.5°	1592.1	1596.8	1606.2	1636.0	1683.4	1726.3	1785.2	1814.2	1838.0	1852.2	1797.1
15°	1486.2	1496.1	1505.3	1539.7	1592.9	1649.0	1715.6	1752.3	1789.0	1820.8	1756.2
17.5°	1403.6	1413.5	1418.8	1450.2	1506.8	1575.6	1653.6	1696.9	1742.8	1794.8	1715.6
20°	1355.7	1360.3	1358.0	1375.6	1426.5	1499.6	1592.1	1642.1	1697.7	1770.3	1675.1
22.5°	1342.4	1342.7	1334.3	1332.4	1365.3	1426.8	1526.4	1587.1	1655.2	1754.2	1640.3
25°	1374.8	1373.7	1350.8	1332.0	1335.4	1371.4	1462.9	1533.6	1619.7	1750.8	1613.5
27.5°	1447.1	1450.6	1416.5	1381.4	1346.5	1345.4	1414.6	1489.2	1590.6	1766.5	1602.1
30°	1548.5	1554.2	1517.9	1473.2	1407.7	1353.8	1395.9	1462.9	1572.6	1799.0	1600.1
32.5°	1659.4	1665.5	1638.1	1591.0	1505.3	1405.8	1408.9	1465.1	1571.8	1844.6	1613.1
35°	1777.5	1784.4	1770.3	1730.5	1635.3	1501.9	1458.6	1502.2	1596.8	1914.1	1647.9
37.5°	1909.6	1920.2	1924.0	1886.2	1784.4	1628.4	1540.1	1572.6	1652.9	2010.8	1711.8
40°	2099.5	2114.5	2113.3	2059.0	1955.4	1799.4	1665.8	1674.3	1740.5	2140.1	1813.9
42.5°	2463.7	2466.7	2371.5	2253.4	2143.5	1979.1	1814.2	1807.3	1861.3	2303.8	1964.2
45°	2926.8	2914.2	2702.3	2473.9	2340.2	2185.6	2007.4	1973.8	2014.6	2503.4	2152.4
47.5°	3311.1	3282.0	3014.4	2699.2	2548.2	2410.2	2234.3	2175.4	2197.9	2729.9	2395.6
50°	3444.6	3422.8	3201.0	2886.6	2745.1	2684.0	2513.4	2430.0	2436.2	2999.8	2680.4
52.5°	3415.9	3412.8	3264.8	3010.2	2929.5	2971.6	2908.8	2796.0	2736.3	3299.6	2988.0
55°	3348.2	3354.7	3301.2	3154.0	3140.2	3249.2	3425.5	3342.1	3156.6	3602.2	3305.7
57.5°	3113.1	3129.8	3247.6	3334.8	3479.4	3641.6	3841.5	3817.8	3609.1	3929.2	3683.6
60°	2508.0	2547.1	2862.9	3299.6	3828.6	4335.7	4425.2	4370.2	4075.6	4335.0	4182.7
62.5°	1757.3	1797.9	2173.3	2856.8	3771.2	5119.7	5468.4	5231.0	4745.6	4932.6	4828.6
65°	940.8	960.3	1247.0	1982.2	3183.9	5281.5	6993.2	6631.8	5806.6	5669.6	5381.2
67.5°	519.0	529.7	639.3	1000.9	2039.1	4650.8	7964.7	8237.7	7132.5	6160.2	5280.7
69°	469.3	479.2	551.1	758.0	1364.5	3845.4	7869.7	8661.1	7713.7	6111.8	4908.9
70°	458.9	468.0	532.7	698.7	1104.5	3169.6	7552.0	8552.9	7852.1	5937.7	4584.6
72.5°	413.0	423.0	485.6	627.5	943.9	1580.2	5982.1	7231.6	7128.9	5148.4	3477.5
75°	385.1	394.3	500.6	614.6	903.7	1000.0	3943.7	5329.6	5240.5	3601.4	1875.1
77.5°	164.9	164.1	232.1	520.1	917.1	968.4	2119.1	3329.4	3037.7	1539.4	538.4
80°	110.2	108.2	110.2	153.0	841.0	973.7	1110.2	1690.0	1276.5	392.3	265.4
82.5°	94.8	93.3	96.8	93.3	295.6	1111.3	943.9	898.7	606.9	223.0	131.5
85°	63.9	61.1	83.4	83.8	139.7	987.4	1063.2	759.2	491.0	132.3	65.0
87.5°	30.6	29.8	48.6	59.3	81.8	401.2	1192.8	777.9	495.3	67.7	31.0
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°	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4	2017.4
2.5°	1997.8	1982.2	1966.8	1948.5	1929.4	1908.0	1897.3	1886.6	1883.8	1880.8	1870.1
5°	1942.7	1920.6	1882.3	1840.3	1795.9	1752.7	1719.8	1699.2	1683.4	1675.5	1661.3
7.5°	1871.6	1839.2	1772.1	1699.5	1625.0	1557.0	1498.1	1460.9	1425.8	1409.2	1390.6
10°	1804.0	1755.4	1651.4	1544.3	1437.2	1334.3	1237.6	1169.1	1108.3	1074.2	1050.2
12.5°	1745.9	1679.4	1535.1	1390.1	1243.3	1096.9	951.8	837.9	742.8	692.6	666.9
15°	1689.2	1609.0	1424.5	1240.6	1052.0	852.9	662.3	533.0	454.3	423.0	412.2
17.5°	1638.1	1535.1	1313.7	1090.0	854.7	613.8	445.1	374.0	343.8	333.5	330.1
20°	1582.5	1460.6	1198.6	932.4	649.0	429.1	347.7	316.3	304.1	301.0	299.5
22.5°	1529.0	1387.0	1088.4	763.7	466.2	331.2	298.8	285.7	283.7	286.5	286.5
25°	1483.5	1321.3	969.4	587.4	342.3	278.8	267.3	264.3	271.5	281.5	283.4
27.5°	1449.5	1267.4	842.9	433.6	272.7	242.4	242.1	247.0	265.1	284.2	288.0
30°	1426.1	1216.2	707.5	312.8	228.7	213.4	219.5	230.2	256.6	283.7	291.0
32.5°	1414.3	1178.3	566.4	242.1	195.8	187.4	197.8	210.8	236.8	262.0	271.5
35°	1423.4	1150.4	433.3	201.9	172.8	166.4	177.1	189.7	205.0	215.7	223.0
37.5°	1457.8	1139.2	327.0	181.0	157.3	151.1	159.5	166.7	172.8	175.9	179.4
40°	1532.1	1151.1	262.0	170.2	148.4	140.7	144.2	146.9	150.7	153.7	155.2
42.5°	1641.4	1186.7	234.8	166.0	143.7	132.8	131.9	133.1	138.1	143.7	145.0
45°	1794.4	1249.4	232.9	168.7	141.5	126.2	122.8	124.3	131.9	140.7	142.2
47.5°	1989.8	1345.0	248.2	176.7	143.4	122.8	117.0	119.0	128.5	140.4	142.2
50°	2226.6	1478.5	273.8	188.6	151.9	123.6	115.2	116.3	126.2	139.2	141.2
52.5°	2506.1	1667.9	301.8	200.1	160.6	128.5	116.7	113.9	123.1	134.6	136.9
55°	2817.0	1910.6	330.4	210.4	165.2	134.6	119.7	110.9	117.5	127.0	128.9
57.5°	3198.7	2250.3	380.1	220.2	168.3	138.9	122.8	107.8	110.2	117.0	118.5
60°	3715.4	2730.6	467.7	236.8	175.2	140.4	122.4	105.2	102.9	106.7	107.5
62.5°	4334.6	3252.2	540.8	257.5	186.7	141.5	120.0	103.2	96.8	96.8	97.6
65°	4702.1	3391.9	500.2	274.6	196.2	140.4	117.5	101.4	92.3	88.0	88.4
67.5°	4390.4	2983.0	428.8	278.1	195.8	135.1	113.2	97.9	87.6	81.1	80.8
69°	3999.9	2573.8	396.6	268.9	186.7	128.2	107.8	94.1	84.1	77.2	76.9
70°	3685.2	2324.1	375.6	259.0	176.7	123.1	103.7	90.6	81.5	75.0	74.2
72.5°	2679.4	1522.8	320.9	222.6	145.8	103.2	89.5	79.5	72.6	68.9	68.1
75°	1338.9	726.2	260.5	180.5	111.7	82.6	73.4	66.5	63.2	62.4	62.0
77.5°	439.8	332.7	186.3	134.6	83.0	64.7	59.3	54.3	53.5	55.8	55.0
80°	241.7	193.5	118.2	89.1	56.6	47.4	46.7	44.0	45.2	48.9	48.2
82.5°	123.1	100.6	73.1	53.5	38.2	34.1	37.1	35.6	37.1	40.5	40.2
85°	60.8	55.0	46.3	32.6	25.2	21.9	26.4	27.6	28.3	31.0	31.0
87.5°	35.2	32.6	24.5	15.3	12.7	11.5	15.3	15.0	17.6	19.1	18.8
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)