

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: P318576

Luminaire Tested: **GAN-SA2D-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12618 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

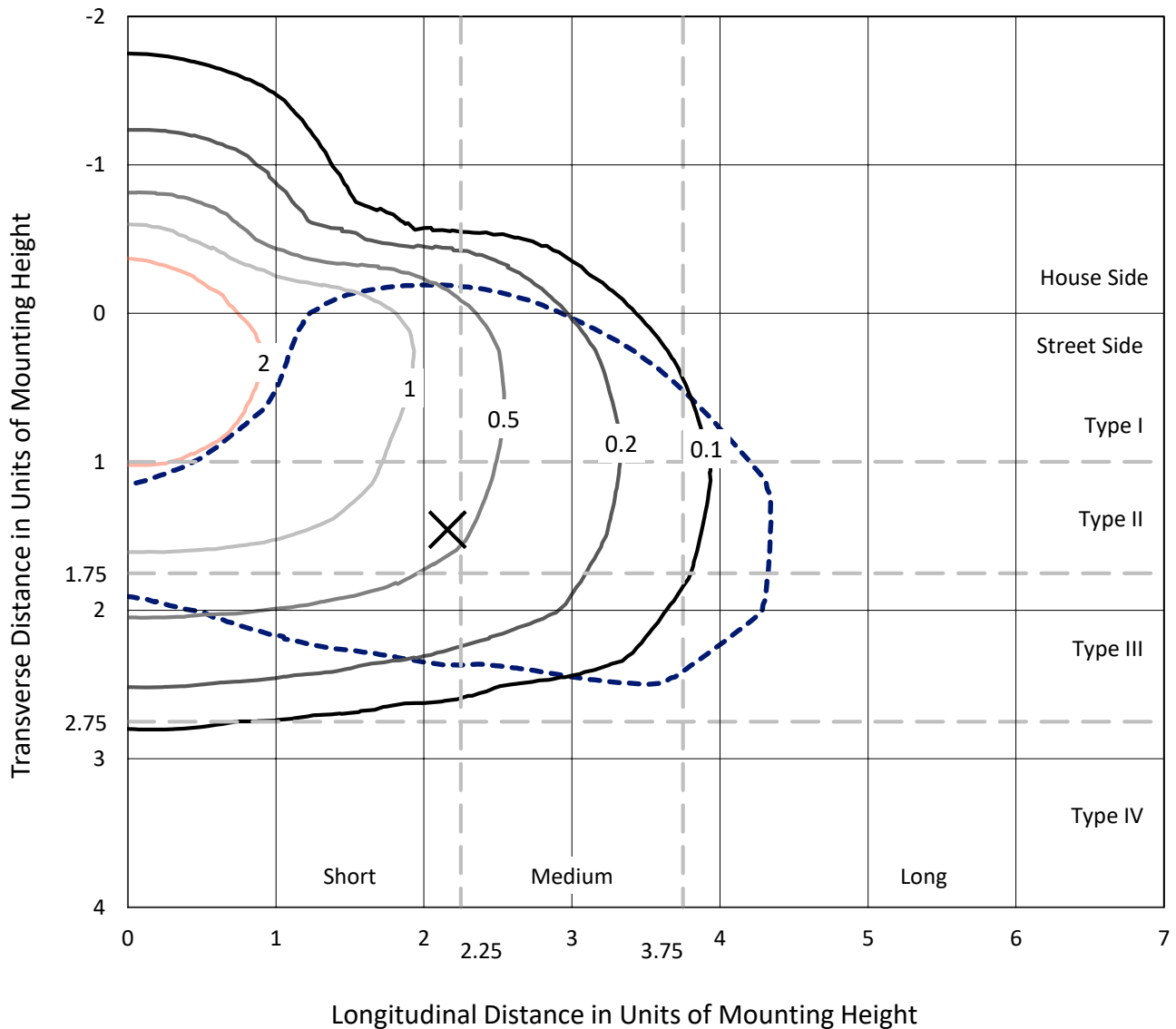
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

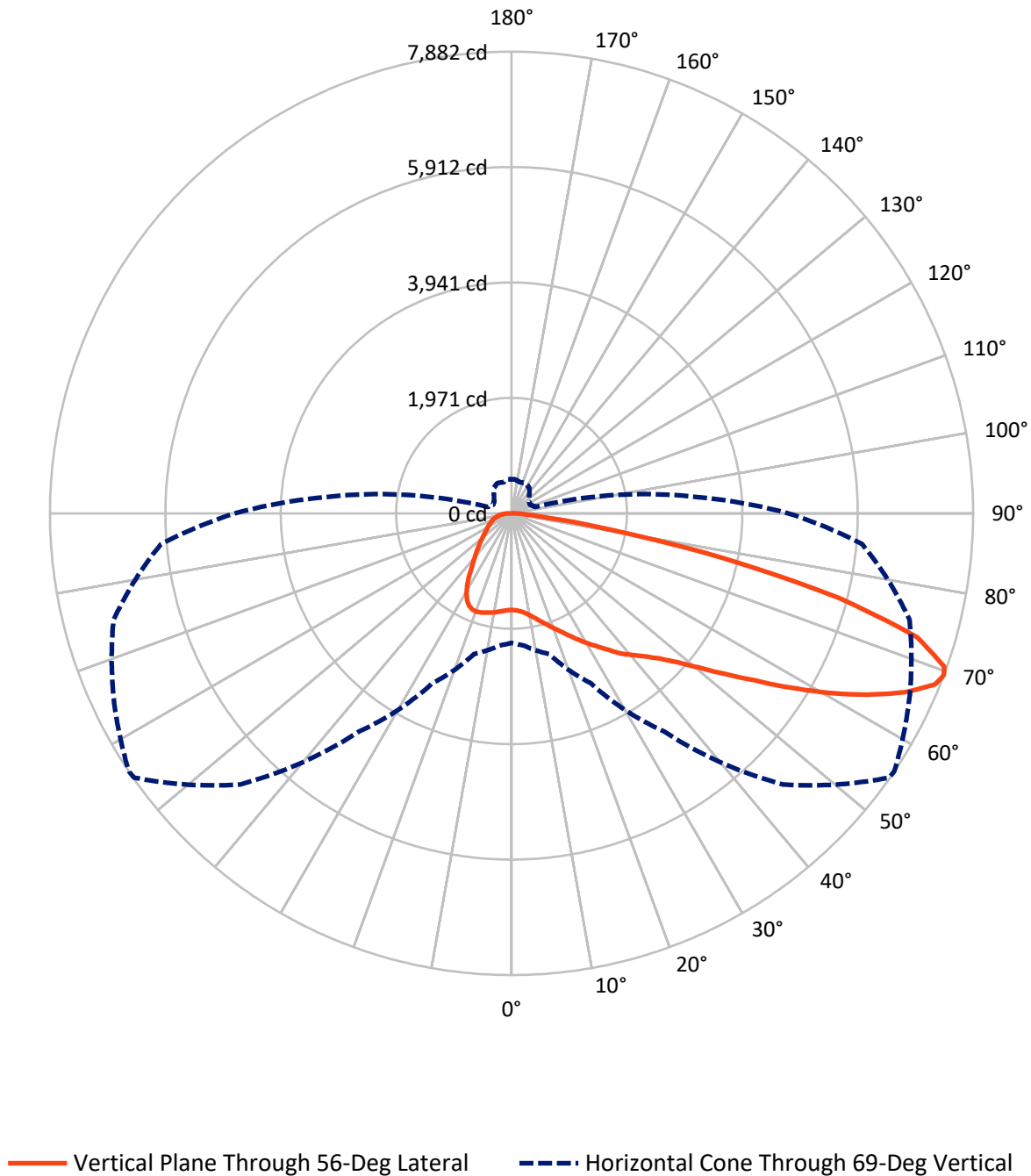
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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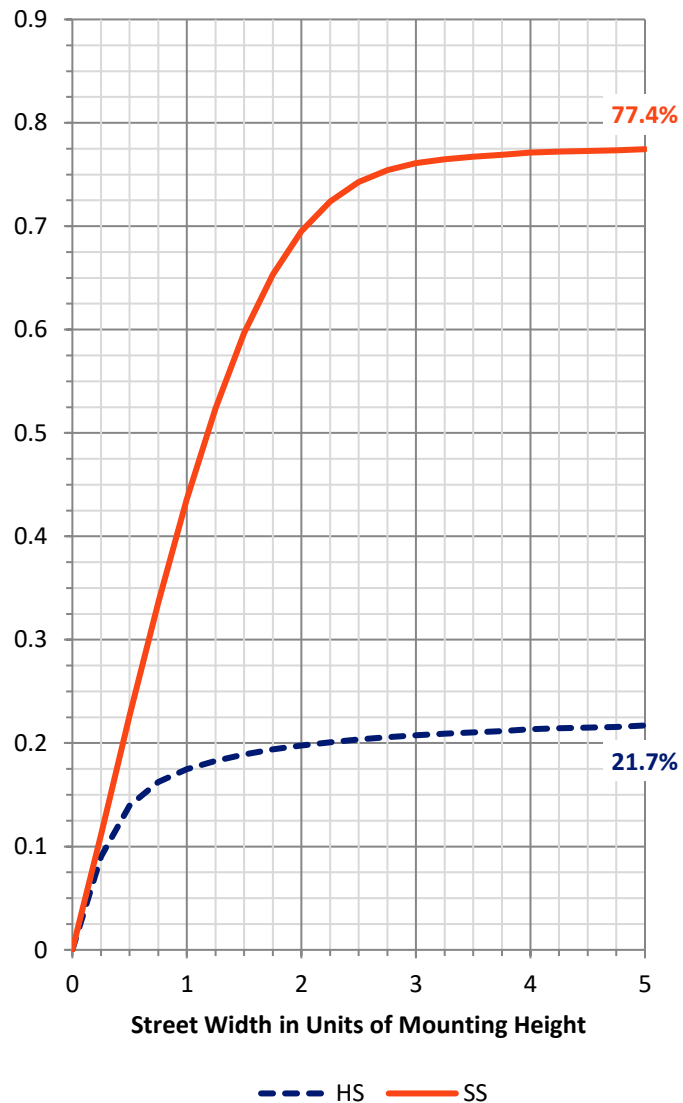
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2810.0	0.0	2810.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9808.0	0.0	9808.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	12618.0	0.0	12618.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.0	1.3
10°-20°	521.0	4.1
20°-30°	909.4	7.2
30°-40°	1306.4	10.4
40°-50°	1808.0	14.3
50°-60°	2648.9	21.0
60°-70°	3229.5	25.6
70°-80°	1785.5	14.2
80°-90°	247.3	2.0
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°	12618.0	100.0
0°-180°	12618.0	100.0

Coefficient of Utilization



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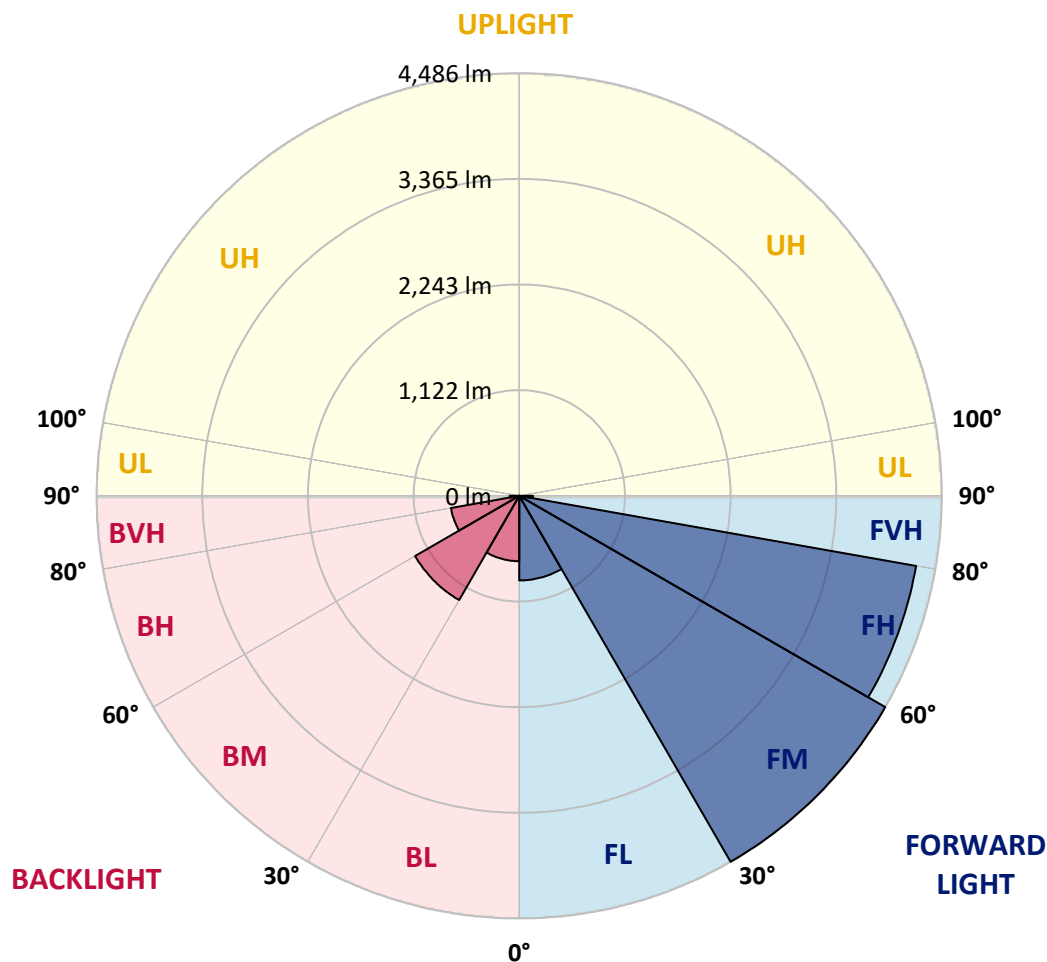
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	898.0	7.1			
FM	(30°-60°)	4486.2	35.6			
FH	(60°-80°)	4278.1	33.9			G2/5000
FVH	(80°-90°)	145.7	1.2			G2/225
BL	(0°-30°)	694.4	5.5	B2/1000		
BM	(30°-60°)	1277.1	10.1	B2/2500		
BH	(60°-80°)	736.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	101.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1660.0	1661.8	1660.5	1664.0	1660.0	1662.7	1660.5	1660.5	1659.2	1655.3	1650.9
5°	1686.1	1689.6	1687.4	1690.9	1686.1	1687.0	1683.1	1683.1	1679.2	1670.9	1662.2
7.5°	1727.0	1730.9	1729.2	1732.6	1726.1	1726.1	1720.9	1720.5	1712.6	1699.2	1689.2
10°	1775.7	1780.9	1779.1	1784.4	1779.1	1780.9	1775.7	1775.7	1765.2	1746.1	1733.5
12.5°	1846.5	1853.0	1848.3	1847.8	1845.7	1849.1	1844.8	1843.9	1834.4	1808.3	1790.9
15°	1941.3	1948.2	1938.2	1937.4	1925.2	1923.9	1923.9	1922.6	1916.5	1885.2	1856.5
17.5°	2050.4	2052.6	2043.9	2030.0	2014.3	2004.3	2003.0	2006.5	2006.5	1970.0	1924.3
20°	2157.3	2161.2	2154.3	2138.6	2118.6	2103.9	2093.4	2100.4	2099.9	2056.5	1991.7
22.5°	2273.8	2282.9	2272.5	2252.5	2229.0	2212.5	2194.3	2200.4	2200.8	2147.3	2057.8
25°	2424.6	2416.4	2409.9	2381.6	2348.1	2331.2	2314.2	2320.3	2318.6	2245.1	2126.0
27.5°	2558.1	2559.8	2551.1	2521.1	2482.5	2445.1	2444.2	2448.1	2441.6	2346.8	2190.4
30°	2713.3	2714.1	2702.0	2675.0	2632.9	2584.6	2573.3	2579.8	2565.9	2443.3	2258.2
32.5°	2867.6	2871.9	2858.5	2825.9	2792.0	2733.3	2710.7	2715.0	2680.2	2542.0	2328.2
35°	3002.8	3008.9	3004.5	2982.8	2945.8	2895.4	2868.5	2865.9	2822.8	2662.9	2420.7
37.5°	3140.6	3146.2	3141.4	3123.2	3108.4	3054.9	3040.6	3040.6	2965.8	2786.3	2538.5
40°	3282.3	3291.0	3285.3	3260.1	3247.5	3223.2	3188.8	3180.6	3099.7	2934.5	2730.7
42.5°	3414.0	3425.3	3447.9	3433.1	3407.5	3410.9	3341.8	3337.5	3278.4	3153.6	2971.9
45°	3600.9	3617.4	3655.7	3644.4	3639.1	3620.0	3537.9	3534.0	3511.4	3448.3	3271.4
47.5°	3804.8	3827.4	3896.5	3898.7	3954.7	3918.6	3806.9	3793.5	3798.7	3801.3	3637.0
50°	3992.5	4017.3	4130.8	4184.2	4316.4	4324.2	4145.6	4133.4	4153.8	4213.8	4063.0
52.5°	4142.5	4173.8	4315.5	4480.7	4707.2	4771.5	4562.4	4553.3	4568.5	4671.9	4544.6
55°	4252.5	4286.4	4440.7	4741.5	5103.2	5216.6	5042.3	5033.6	5043.2	5174.9	5068.4
57.5°	4278.1	4286.4	4510.2	4917.1	5437.4	5710.0	5629.6	5612.2	5565.2	5680.0	5646.5
60°	4157.7	4190.8	4452.9	4978.8	5696.1	6196.4	6243.3	6221.6	6089.9	6183.8	6156.8
62.5°	3913.4	3972.5	4238.6	4884.9	5797.3	6593.7	6845.4	6819.3	6592.4	6653.2	6523.7
65°	3514.4	3539.6	3819.1	4561.1	5668.7	6848.0	7382.2	7369.1	7083.6	6988.4	6591.5
67.5°	2800.6	2848.0	3085.4	3884.3	5142.3	6818.0	7797.3	7796.0	7404.4	7112.7	6351.1
69°	2212.5	2261.6	2487.7	3199.7	4550.2	6543.7	7866.9	7882.1	7494.8	7037.0	6007.7
70°	1763.9	1820.9	1976.1	2695.0	4024.7	6182.0	7809.0	7836.4	7477.4	6912.3	5690.8
72.5°	750.7	796.8	907.2	1389.2	2452.9	4616.3	7140.1	7243.5	7074.4	6326.3	4703.2
75°	327.7	342.1	392.1	566.4	1088.9	2512.5	5593.5	5784.7	6049.0	5347.4	3503.5
77.5°	239.9	246.0	273.4	332.5	488.6	948.9	3597.0	3708.3	4362.5	3891.3	2149.1
80°	185.6	190.0	211.3	244.3	319.1	383.8	1640.5	1736.1	2452.9	1998.7	895.0
82.5°	147.8	150.8	165.6	180.0	220.4	232.6	544.7	604.2	905.4	552.0	236.9
85°	137.4	140.8	146.1	131.3	141.3	136.5	235.6	246.5	273.4	216.9	99.1
87.5°	62.2	73.5	144.7	102.1	75.2	60.0	96.5	100.8	113.5	113.9	43.9
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°	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6	1649.6
2.5°	1653.5	1652.2	1654.4	1649.2	1655.7	1655.3	1653.1	1654.0	1658.3	1657.9	1658.3
5°	1663.5	1662.7	1665.3	1661.3	1669.2	1671.8	1672.2	1676.1	1680.9	1682.2	1682.2
7.5°	1688.7	1688.7	1690.0	1684.8	1690.0	1689.6	1687.4	1691.3	1696.1	1696.6	1696.1
10°	1732.2	1732.6	1730.5	1717.0	1712.6	1700.9	1690.0	1690.5	1696.6	1701.3	1702.6
12.5°	1787.0	1785.2	1775.7	1750.9	1732.6	1708.7	1697.4	1697.0	1703.1	1707.0	1708.3
15°	1849.6	1844.8	1820.0	1779.6	1747.4	1723.9	1705.7	1701.3	1697.9	1693.5	1694.0
17.5°	1908.7	1897.8	1856.5	1800.4	1766.5	1735.2	1700.0	1671.8	1652.2	1640.9	1637.4
20°	1968.7	1947.4	1887.8	1820.0	1777.0	1720.0	1652.2	1594.8	1559.2	1542.7	1539.6
22.5°	2023.4	1989.1	1916.9	1840.4	1768.7	1668.7	1562.2	1478.8	1429.2	1407.1	1408.8
25°	2076.9	2029.1	1947.4	1854.8	1727.0	1578.3	1437.1	1334.5	1277.1	1252.3	1251.4
27.5°	2123.9	2069.5	1980.4	1843.0	1649.2	1449.7	1288.8	1188.9	1141.0	1119.7	1116.3
30°	2177.8	2120.4	2024.3	1798.3	1535.3	1301.0	1144.1	1073.7	1039.8	1018.5	1014.5
32.5°	2243.4	2189.5	2060.4	1717.0	1389.7	1145.8	1031.1	981.9	951.1	927.2	922.8
35°	2339.0	2280.8	2069.5	1600.5	1229.7	1023.2	948.0	897.6	855.9	825.0	822.0
37.5°	2459.0	2395.1	2048.7	1449.7	1074.5	943.7	878.9	816.8	762.4	719.0	712.0
40°	2632.0	2535.5	1990.8	1275.8	960.2	882.4	811.5	740.7	673.3	622.5	612.5
42.5°	2839.8	2700.2	1902.2	1102.8	876.3	820.2	744.6	656.8	592.5	556.4	551.2
45°	3104.1	2871.5	1779.1	951.5	793.7	758.1	672.5	591.6	551.6	525.1	520.7
47.5°	3405.7	3063.6	1650.0	828.5	723.7	699.8	614.6	562.5	530.7	509.9	506.0
50°	3776.5	3280.5	1513.1	727.7	653.3	629.9	587.3	546.4	521.2	505.1	501.2
52.5°	4194.7	3525.3	1414.5	648.1	595.1	578.1	572.9	537.7	517.3	505.1	501.2
55°	4645.0	3774.3	1308.0	581.2	544.7	549.4	563.3	538.6	524.7	509.9	504.2
57.5°	5095.8	4031.7	1189.3	524.7	504.7	528.1	556.8	540.3	528.6	514.2	509.0
60°	5452.2	4194.7	1005.4	477.3	472.9	504.7	541.2	527.3	512.1	512.5	511.6
62.5°	5618.7	4186.0	802.4	435.1	441.2	472.9	516.0	506.8	494.2	511.2	512.5
65°	5525.2	3977.3	624.6	396.9	407.3	439.9	489.9	496.8	501.2	533.8	538.1
67.5°	5133.1	3571.3	483.8	363.4	376.4	417.3	492.5	541.2	546.8	581.2	580.7
69°	4727.6	3190.6	420.3	346.0	361.2	422.9	526.4	569.4	548.1	584.6	579.4
70°	4387.7	2889.3	386.4	334.3	354.3	432.9	549.0	569.0	541.6	572.9	564.2
72.5°	3379.2	2078.6	327.7	312.5	330.8	414.3	555.5	556.4	526.4	532.5	517.7
75°	2317.7	1313.6	286.0	283.0	295.1	373.4	534.7	531.6	486.8	478.1	466.0
77.5°	1278.0	667.2	243.0	254.7	263.0	330.8	486.0	481.6	444.7	426.4	422.1
80°	492.9	292.1	205.2	226.5	231.7	286.5	426.0	422.1	391.2	367.7	361.2
82.5°	186.0	153.0	169.5	196.0	194.3	236.5	360.8	358.6	328.6	294.3	283.8
85°	86.1	91.7	134.3	161.7	149.1	175.2	288.6	292.5	256.0	215.2	215.2
87.5°	36.5	51.3	95.2	122.1	100.4	118.2	211.7	202.1	185.6	128.7	120.8
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)