

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: P318566

Luminaire Tested: **GAN-SA2C-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318566
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-SA2C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11502 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

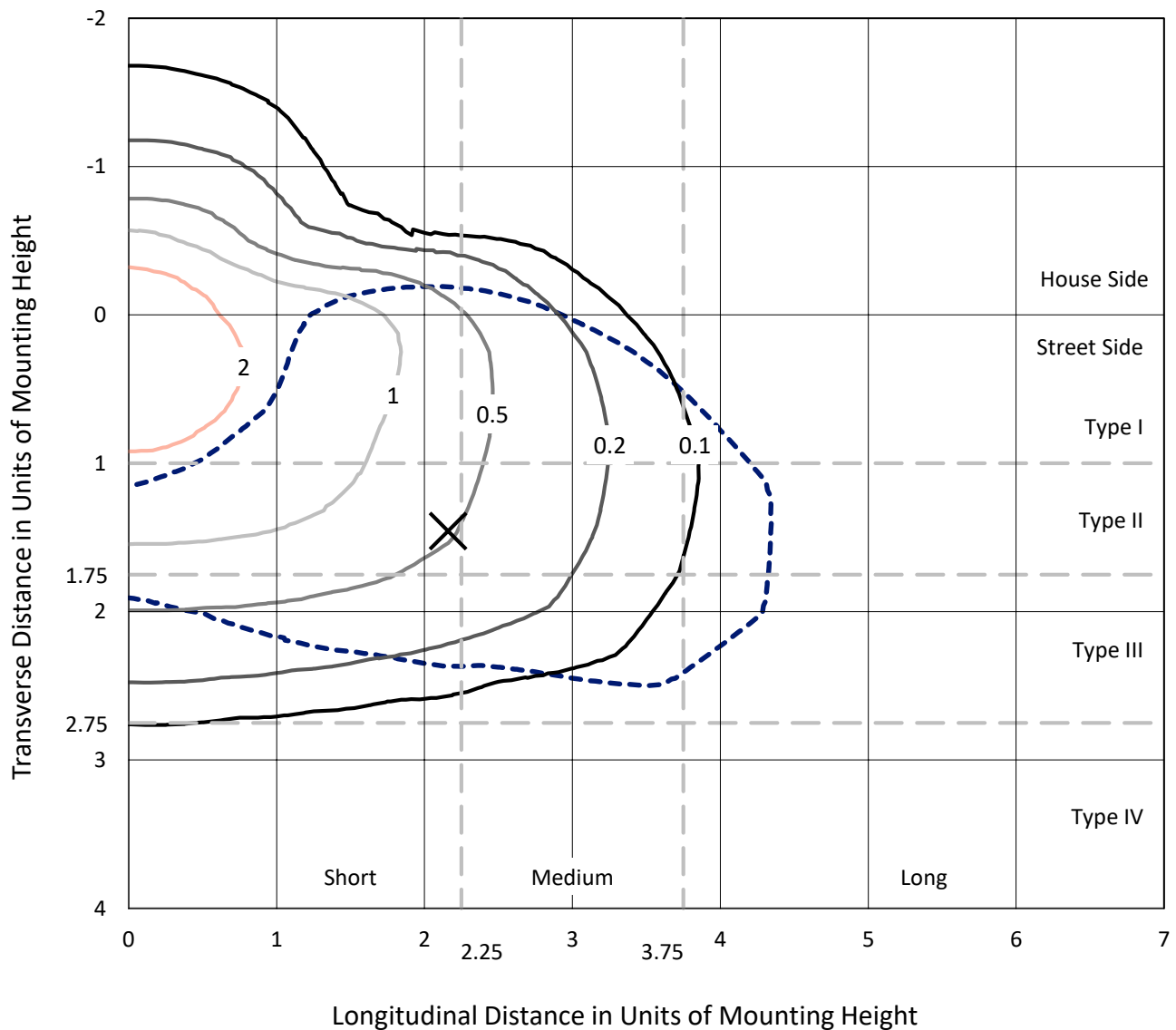
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

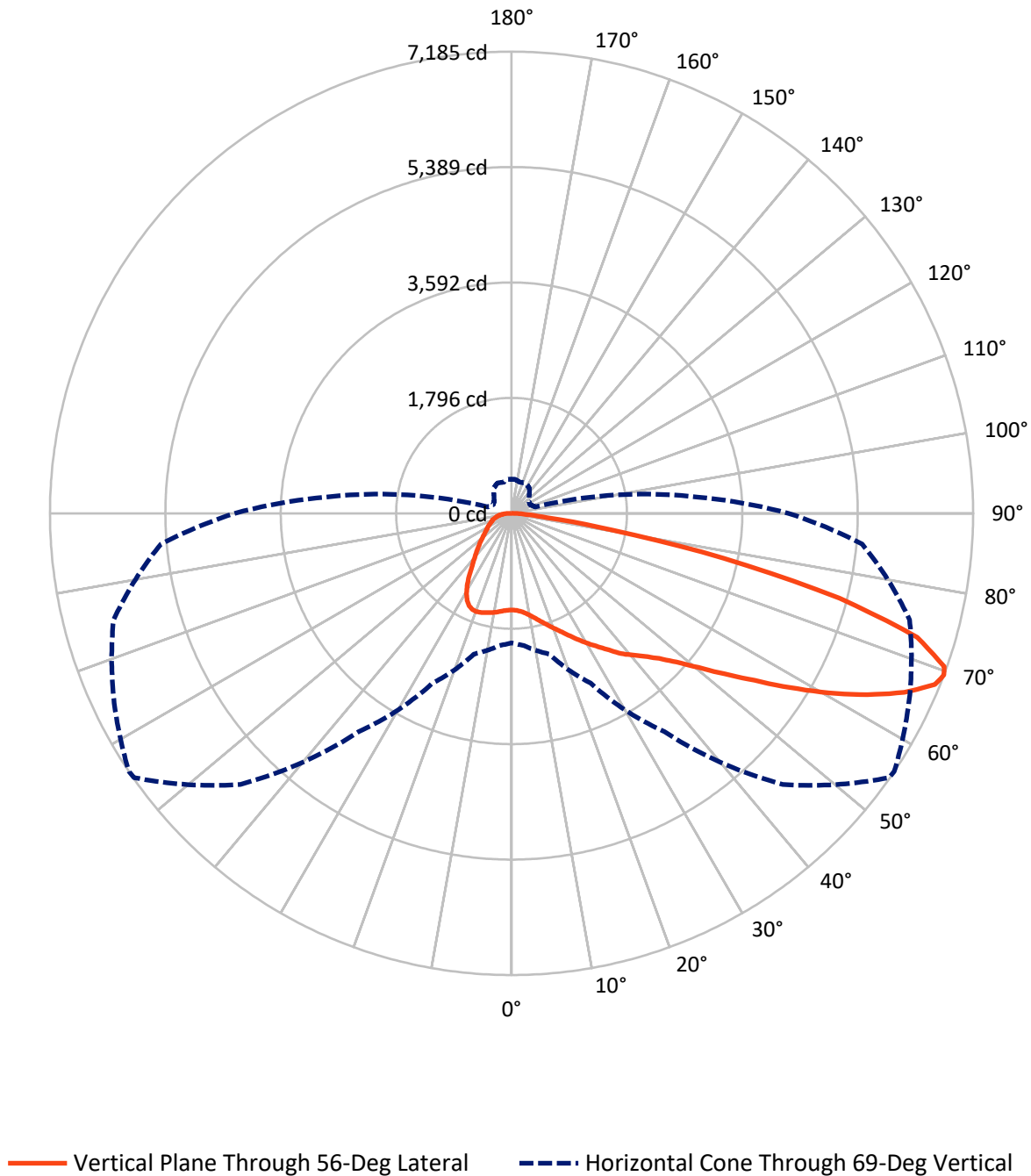
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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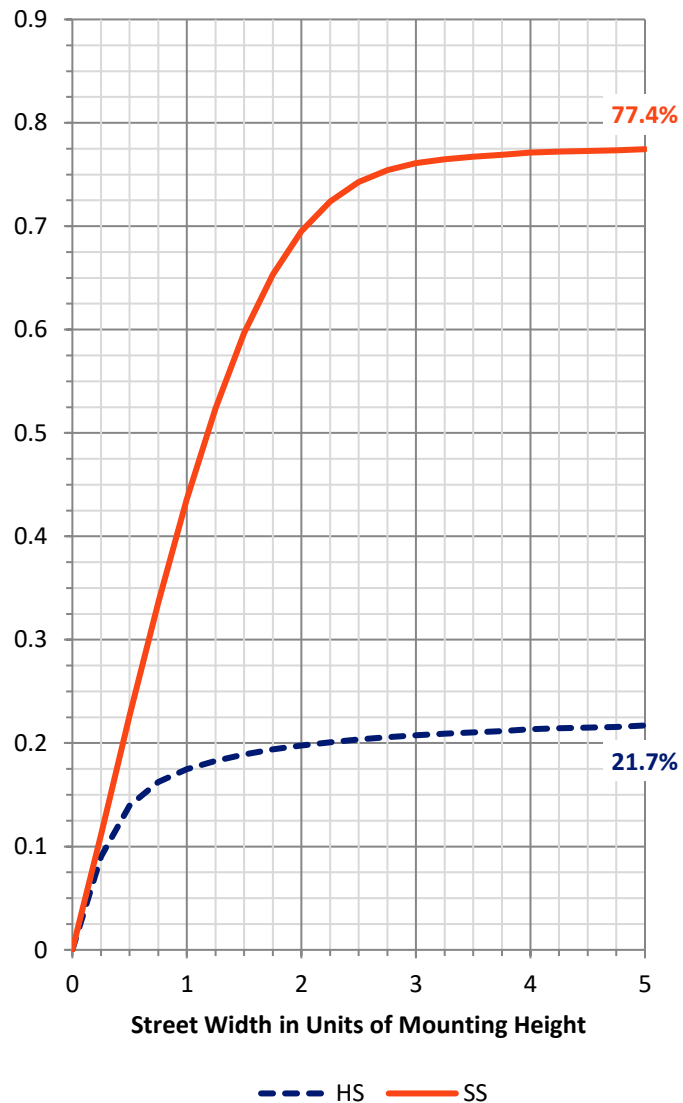
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2561.5	0.0	2561.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	8940.5	0.0	8940.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	11502.0	0.0	11502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.3
10°-20°	474.9	4.1
20°-30°	829.0	7.2
30°-40°	1190.8	10.4
40°-50°	1648.1	14.3
50°-60°	2414.6	21.0
60°-70°	2943.9	25.6
70°-80°	1627.6	14.2
80°-90°	225.4	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°	11502.0	100.0
0°-180°	11502.0	100.0

Coefficient of Utilization



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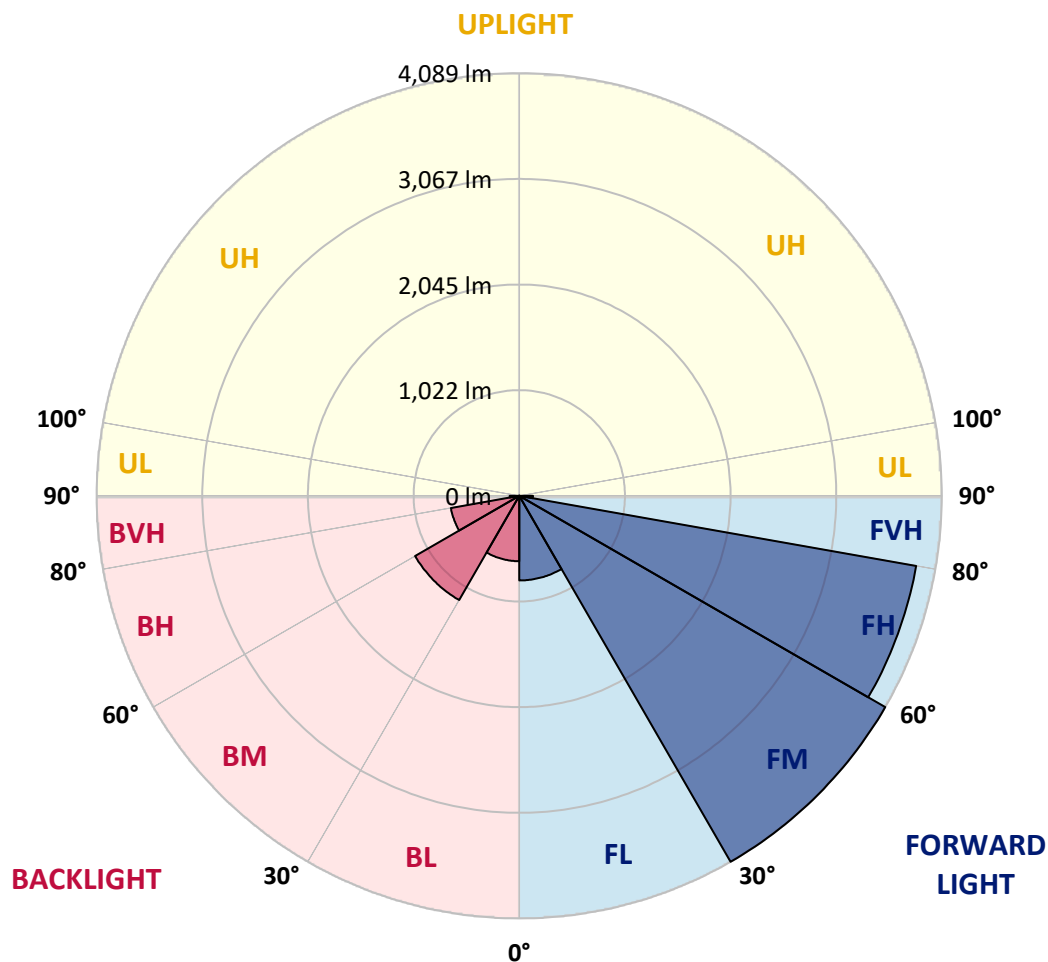
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.6	7.1			
FM	(30°-60°)	4089.4	35.6			
FH	(60°-80°)	3899.8	33.9			G2/5000
FVH	(80°-90°)	132.8	1.2			G2/225
BL	(0°-30°)	633.0	5.5	B2/1000		
BM	(30°-60°)	1164.1	10.1	B2/2500		
BH	(60°-80°)	671.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	92.6	0.8			G1/100
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°	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7
2.5°	1513.2	1514.8	1513.6	1516.8	1513.2	1515.6	1513.6	1513.6	1512.4	1508.9	1504.9
5°	1537.0	1540.2	1538.2	1541.4	1537.0	1537.8	1534.2	1534.2	1530.7	1523.1	1515.2
7.5°	1574.2	1577.8	1576.2	1579.4	1573.5	1573.5	1568.7	1568.3	1561.2	1548.9	1539.8
10°	1618.6	1623.4	1621.8	1626.5	1621.8	1623.4	1618.6	1618.6	1609.1	1591.7	1580.2
12.5°	1683.2	1689.2	1684.8	1684.4	1682.4	1685.6	1681.6	1680.8	1672.1	1648.3	1632.5
15°	1769.6	1775.9	1766.8	1766.0	1754.9	1753.7	1753.7	1752.5	1747.0	1718.5	1692.3
17.5°	1869.0	1871.0	1863.1	1850.4	1836.2	1827.0	1825.9	1829.0	1829.0	1795.7	1754.1
20°	1966.5	1970.1	1963.7	1949.5	1931.3	1917.8	1908.3	1914.6	1914.2	1874.6	1815.6
22.5°	2072.7	2081.0	2071.5	2053.3	2031.9	2016.8	2000.2	2005.7	2006.1	1957.4	1875.8
25°	2210.2	2202.7	2196.7	2171.0	2140.5	2125.0	2109.6	2115.1	2113.5	2046.6	1938.0
27.5°	2331.8	2333.4	2325.5	2298.2	2262.9	2228.8	2228.0	2231.6	2225.7	2139.3	1996.6
30°	2473.3	2474.1	2463.0	2438.4	2400.0	2356.0	2345.7	2351.7	2339.0	2227.2	2058.4
32.5°	2614.0	2617.9	2605.6	2575.9	2545.0	2491.5	2470.9	2474.9	2443.2	2317.2	2122.2
35°	2737.2	2742.7	2738.8	2719.0	2685.3	2639.3	2614.8	2612.4	2573.2	2427.3	2206.6
37.5°	2862.8	2868.0	2863.6	2847.0	2833.5	2784.7	2771.7	2771.7	2703.5	2539.9	2314.0
40°	2992.0	2999.9	2994.7	2971.8	2960.3	2938.1	2906.8	2899.3	2825.6	2675.0	2489.2
42.5°	3112.0	3122.3	3142.9	3129.5	3106.1	3109.3	3046.3	3042.3	2988.4	2874.7	2709.1
45°	3282.4	3297.5	3332.3	3322.0	3317.3	3299.8	3225.0	3221.4	3200.8	3143.3	2982.1
47.5°	3468.2	3488.9	3551.9	3553.8	3604.9	3572.1	3470.2	3457.9	3462.7	3465.1	3315.3
50°	3639.4	3662.0	3765.4	3814.2	3934.6	3941.7	3778.9	3767.8	3786.4	3841.1	3703.6
52.5°	3776.1	3804.7	3933.8	4084.4	4290.8	4349.5	4158.9	4150.6	4164.4	4258.7	4142.6
55°	3876.4	3907.3	4047.9	4322.1	4651.8	4755.2	4596.3	4588.4	4597.1	4717.2	4620.1
57.5°	3899.7	3907.3	4111.3	4482.2	4956.5	5204.9	5131.6	5115.8	5073.0	5177.6	5147.1
60°	3790.0	3820.1	4059.0	4538.5	5192.3	5648.3	5691.1	5671.3	5551.3	5636.8	5612.3
62.5°	3567.3	3621.2	3863.7	4452.9	5284.6	6010.5	6239.9	6216.1	6009.3	6064.8	5946.7
65°	3203.6	3226.5	3481.3	4157.7	5167.3	6242.3	6729.3	6717.4	6457.1	6370.3	6008.5
67.5°	2552.9	2596.1	2812.5	3540.8	4687.5	6215.0	7107.7	7106.5	6749.5	6483.6	5789.4
69°	2016.8	2061.6	2267.7	2916.7	4147.8	5964.9	7171.1	7184.9	6831.9	6414.7	5476.4
70°	1607.9	1659.8	1801.3	2456.7	3668.7	5635.3	7118.4	7143.3	6816.0	6300.9	5187.5
72.5°	684.3	726.3	826.9	1266.4	2236.0	4208.0	6508.6	6602.9	6448.7	5766.8	4287.3
75°	298.8	311.8	357.4	516.3	992.6	2290.2	5098.8	5273.1	5514.0	4874.5	3193.7
77.5°	218.7	224.3	249.2	303.1	445.4	865.0	3278.8	3380.3	3976.6	3547.1	1959.0
80°	169.2	173.2	192.6	222.7	290.8	349.9	1495.4	1582.6	2236.0	1821.9	815.8
82.5°	134.7	137.5	151.0	164.0	200.9	212.0	496.5	550.8	825.4	503.2	215.9
85°	125.2	128.4	133.1	119.7	128.8	124.4	214.8	224.7	249.2	197.7	90.3
87.5°	56.7	67.0	131.9	93.1	68.5	54.7	88.0	91.9	103.4	103.8	40.0
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°	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7	1503.7
2.5°	1507.3	1506.1	1508.1	1503.3	1509.3	1508.9	1506.9	1507.7	1511.6	1511.2	1511.6
5°	1516.4	1515.6	1518.0	1514.4	1521.5	1523.9	1524.3	1527.9	1532.2	1533.4	1533.4
7.5°	1539.4	1539.4	1540.6	1535.8	1540.6	1540.2	1538.2	1541.8	1546.1	1546.5	1546.1
10°	1579.0	1579.4	1577.4	1565.1	1561.2	1550.5	1540.6	1541.0	1546.5	1550.9	1552.1
12.5°	1628.9	1627.3	1618.6	1596.0	1579.4	1557.6	1547.3	1546.9	1552.5	1556.0	1557.2
15°	1686.0	1681.6	1659.0	1622.2	1592.9	1571.5	1554.8	1550.9	1547.7	1543.7	1544.1
17.5°	1739.9	1730.0	1692.3	1641.2	1610.3	1581.8	1549.7	1523.9	1506.1	1495.8	1492.6
20°	1794.6	1775.1	1720.9	1659.0	1619.8	1567.9	1506.1	1453.8	1421.3	1406.2	1403.5
22.5°	1844.5	1813.2	1747.4	1677.7	1612.3	1521.1	1424.1	1348.0	1302.8	1282.6	1284.2
25°	1893.2	1849.6	1775.1	1690.7	1574.2	1438.7	1310.0	1216.4	1164.1	1141.6	1140.8
27.5°	1936.0	1886.5	1805.2	1680.0	1503.3	1321.4	1174.8	1083.7	1040.1	1020.7	1017.5
30°	1985.1	1932.8	1845.3	1639.2	1399.5	1185.9	1042.9	978.7	947.8	928.4	924.8
32.5°	2045.0	1995.8	1878.2	1565.1	1266.8	1044.5	939.9	895.1	867.0	845.2	841.2
35°	2132.1	2079.0	1886.5	1458.9	1120.9	932.7	864.2	818.2	780.2	752.1	749.3
37.5°	2241.5	2183.3	1867.5	1321.4	979.5	860.2	801.2	744.5	695.0	655.4	649.0
40°	2399.2	2311.2	1814.8	1163.0	875.3	804.4	739.8	675.2	613.8	567.4	558.3
42.5°	2588.6	2461.4	1733.9	1005.2	798.8	747.7	678.8	598.7	540.1	507.2	502.4
45°	2829.5	2617.5	1621.8	867.4	723.5	691.0	613.0	539.3	502.8	478.7	474.7
47.5°	3104.5	2792.7	1504.1	755.2	659.7	637.9	560.3	512.7	483.8	464.8	461.2
50°	3442.5	2990.4	1379.3	663.3	595.5	574.1	535.3	498.1	475.1	460.4	456.9
52.5°	3823.7	3213.5	1289.4	590.8	542.4	527.0	522.2	490.1	471.5	460.4	456.9
55°	4234.2	3440.5	1192.3	529.8	496.5	500.8	513.5	490.9	478.3	464.8	459.6
57.5°	4645.1	3675.1	1084.1	478.3	460.0	481.4	507.6	492.5	481.8	468.7	464.0
60°	4970.0	3823.7	916.5	435.1	431.1	460.0	493.3	480.6	466.8	467.2	466.4
62.5°	5121.7	3815.7	731.5	396.6	402.2	431.1	470.3	462.0	450.5	466.0	467.2
65°	5036.5	3625.6	569.4	361.8	371.3	401.0	446.6	452.9	456.9	486.6	490.5
67.5°	4679.1	3255.5	441.0	331.3	343.1	380.4	448.9	493.3	498.5	529.8	529.4
69°	4309.5	2908.4	383.2	315.4	329.3	385.5	479.8	519.1	499.7	532.9	528.2
70°	3999.6	2633.8	352.3	304.7	322.9	394.7	500.4	518.7	493.7	522.2	514.3
72.5°	3080.3	1894.8	298.8	284.9	301.5	377.6	506.4	507.2	479.8	485.4	471.9
75°	2112.7	1197.4	260.7	257.9	269.0	340.4	487.4	484.6	443.8	435.9	424.8
77.5°	1164.9	608.2	221.5	232.2	239.7	301.5	443.0	439.0	405.3	388.7	384.7
80°	449.3	266.3	187.0	206.4	211.2	261.1	388.3	384.7	356.6	335.2	329.3
82.5°	169.6	139.5	154.5	178.7	177.1	215.6	328.9	326.9	299.6	268.3	258.7
85°	78.5	83.6	122.4	147.4	135.9	159.7	263.1	266.7	233.4	196.1	196.1
87.5°	33.3	46.8	86.8	111.3	91.5	107.8	193.0	184.2	169.2	117.3	110.2
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)