

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: P322398

Luminaire Tested: **GAN-SA4B-830-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13348 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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



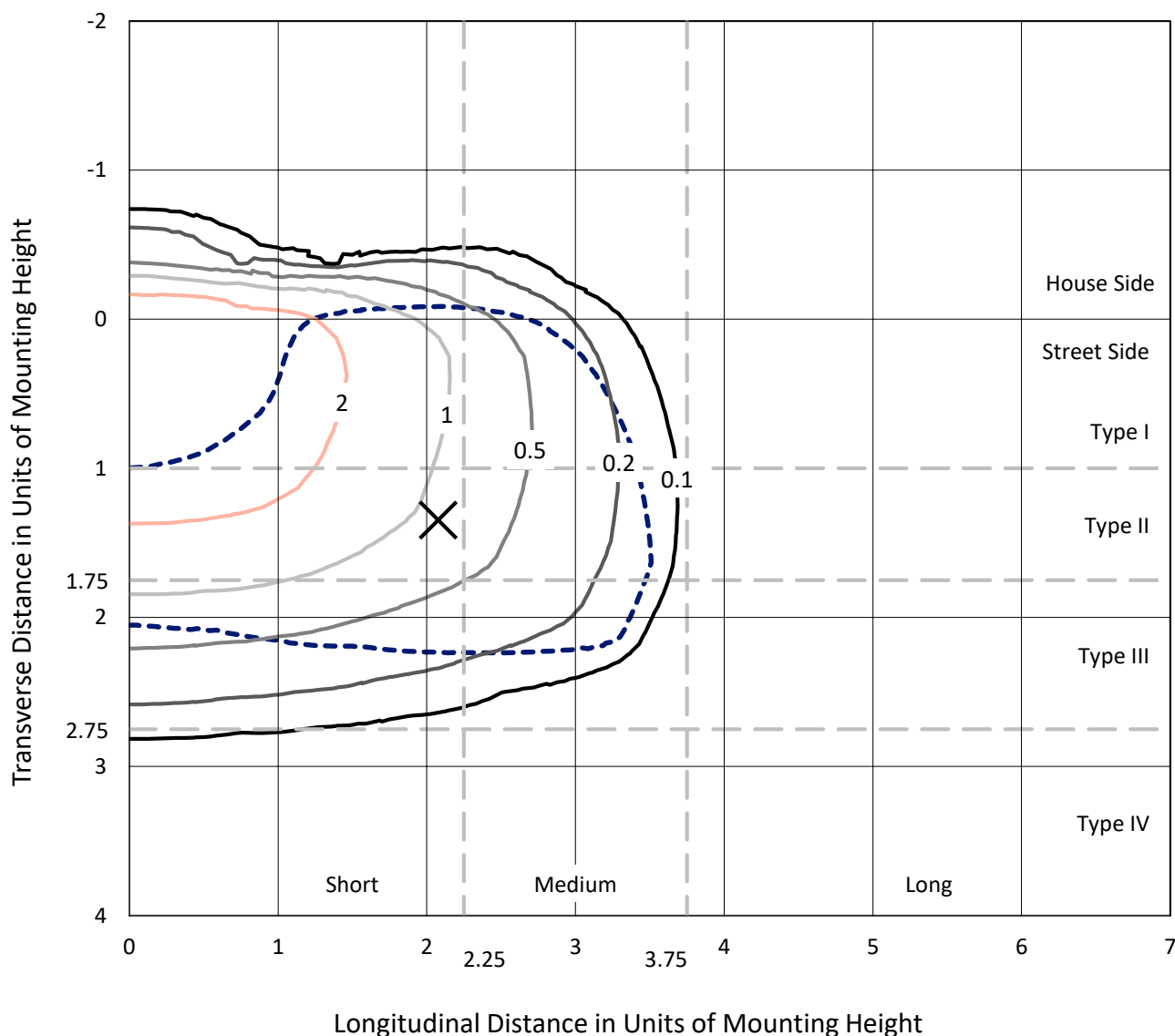
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

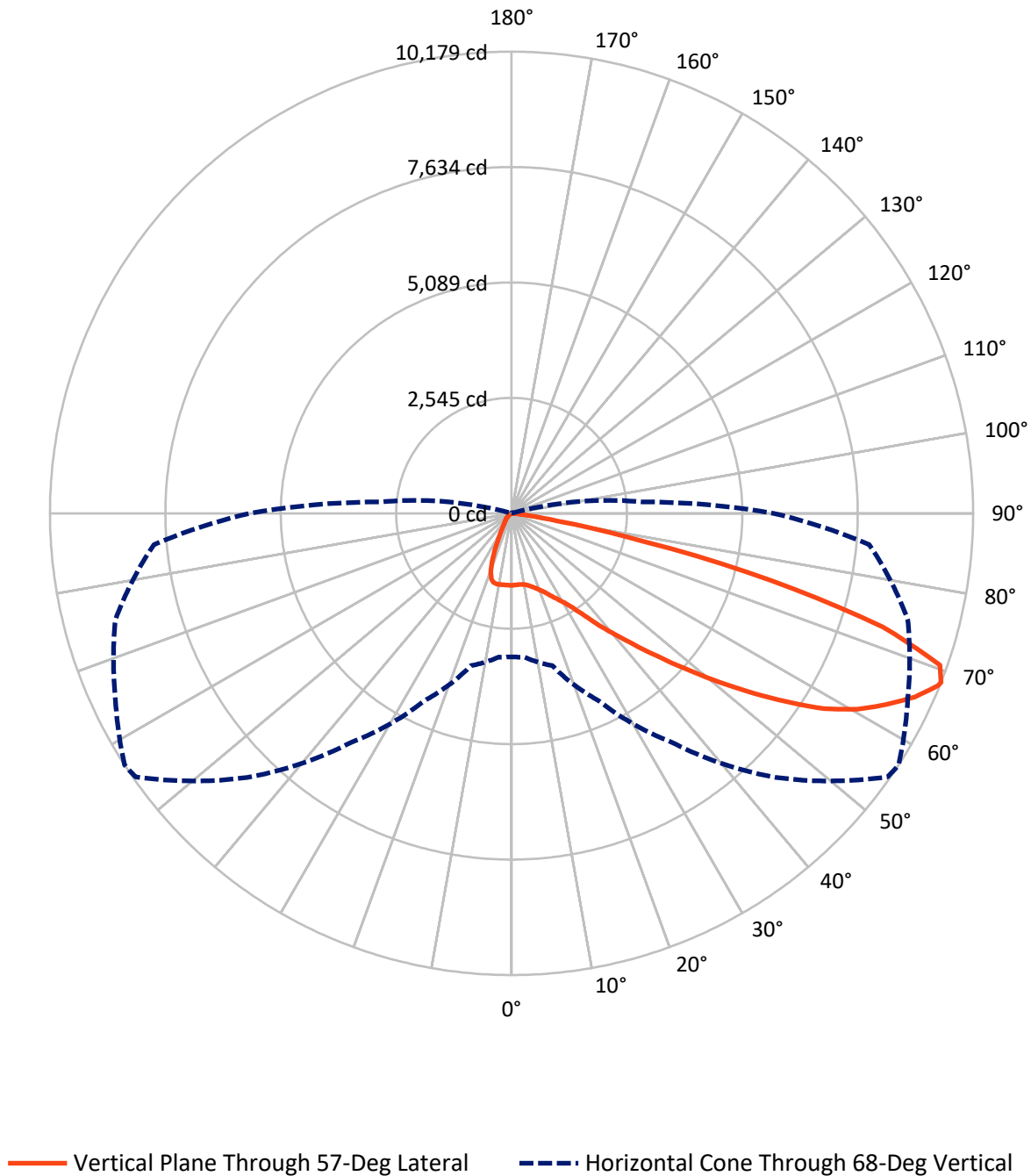
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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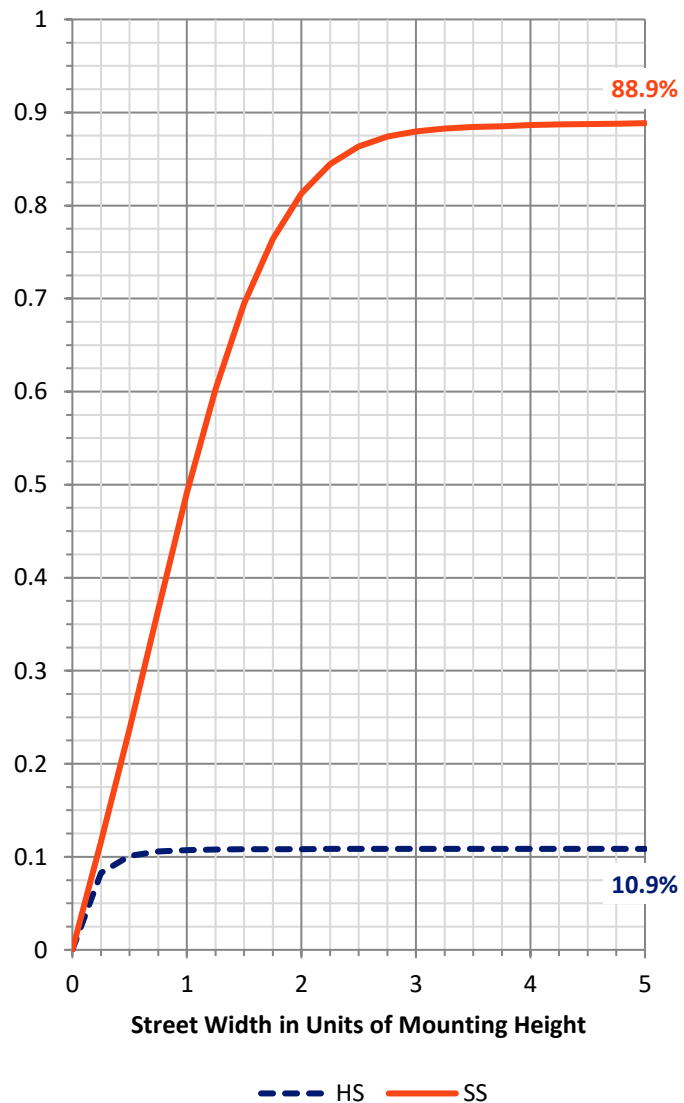
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.7	0.0	1463.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	11884.3	0.0	11884.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	13348.0	0.0	13348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.1
10°-20°	411.3	3.1
20°-30°	709.6	5.3
30°-40°	1224.7	9.2
40°-50°	2094.9	15.7
50°-60°	3351.6	25.1
60°-70°	3872.4	29.0
70°-80°	1479.7	11.1
80°-90°	55.5	0.4
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°	13348.0	100.0
0°-180°	13348.0	100.0

Coefficient of Utilization



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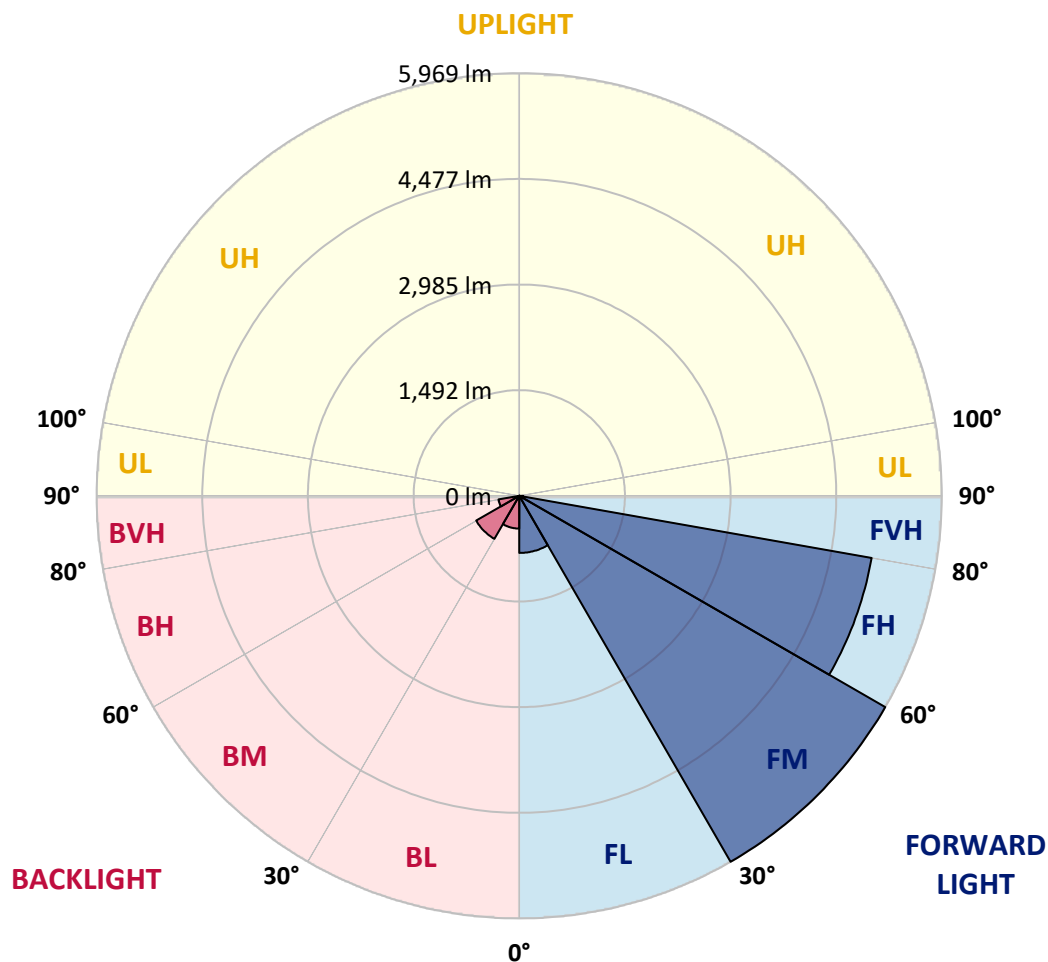
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	806.8	6.0			
FM	(30°-60°)	5969.1	44.7			
FH	(60°-80°)	5054.0	37.9			G3/7500
FVH	(80°-90°)	54.5	0.4			G1/100
BL	(0°-30°)	462.6	3.5	B1/500		
BM	(30°-60°)	702.0	5.3	B1/1000		
BH	(60°-80°)	298.1	2.2	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1
2.5°	1548.9	1555.8	1560.8	1564.0	1567.8	1576.0	1578.5	1582.3	1584.2	1584.2	1588.6
5°	1487.6	1495.2	1505.9	1514.8	1532.4	1555.2	1571.6	1577.9	1589.3	1599.3	1605.0
7.5°	1430.8	1439.7	1452.3	1473.1	1503.4	1540.0	1574.1	1582.9	1605.0	1626.5	1637.2
10°	1394.2	1401.2	1417.6	1447.2	1487.0	1538.1	1586.1	1596.8	1634.7	1670.7	1690.9
12.5°	1381.6	1387.9	1405.0	1438.4	1487.6	1547.6	1613.9	1629.6	1685.2	1737.6	1766.0
15°	1399.9	1401.2	1419.5	1451.0	1499.6	1570.9	1659.9	1678.9	1748.9	1817.1	1852.4
17.5°	1470.6	1464.9	1474.4	1488.3	1526.8	1601.9	1708.5	1736.9	1830.4	1910.5	1944.0
20°	1647.3	1647.3	1625.9	1588.0	1588.6	1649.8	1774.2	1806.4	1920.6	2013.4	2043.7
22.5°	1949.6	1944.0	1901.0	1808.3	1723.1	1732.5	1854.3	1896.0	2029.2	2128.3	2138.4
25°	2313.2	2306.2	2240.0	2109.3	1961.6	1866.3	1962.9	2010.9	2158.6	2246.3	2225.5
27.5°	2698.2	2692.5	2626.9	2464.7	2254.5	2079.7	2092.3	2137.7	2290.5	2376.9	2310.7
30°	3071.2	3073.1	3008.1	2841.5	2603.5	2351.7	2256.4	2282.9	2418.6	2506.3	2411.6
32.5°	3425.9	3428.4	3372.3	3186.1	2963.9	2667.9	2483.6	2476.7	2567.5	2654.0	2545.5
35°	3742.1	3748.4	3709.9	3565.4	3330.0	3020.1	2778.3	2761.9	2779.0	2876.8	2750.6
37.5°	4047.0	4050.8	4021.7	3899.9	3703.0	3407.0	3150.7	3127.4	3090.8	3165.9	3021.3
40°	4380.9	4371.4	4337.9	4227.5	4058.3	3834.3	3550.9	3510.5	3446.7	3513.6	3377.3
42.5°	4691.4	4680.7	4686.3	4561.4	4418.7	4273.6	4017.3	3947.9	3910.6	3987.6	3814.1
45°	5079.5	5073.9	5092.8	4984.2	4868.7	4763.3	4551.9	4476.2	4459.7	4550.0	4342.4
47.5°	5462.7	5476.5	5535.2	5489.2	5442.5	5349.7	5118.0	5084.0	5094.1	5203.2	4899.7
50°	5782.0	5798.4	5959.4	6012.4	6079.9	6025.6	5793.4	5772.6	5812.3	5910.8	5499.3
52.5°	6013.0	6046.5	6246.5	6490.8	6737.0	6773.6	6541.9	6523.0	6576.6	6591.8	5962.5
55°	6173.3	6203.0	6429.6	6876.4	7377.6	7535.4	7391.5	7318.3	7308.2	7158.6	6449.8
57.5°	6201.7	6198.6	6524.3	7125.7	7880.0	8287.1	8196.2	8124.2	7917.2	7682.4	7008.4
60°	6041.4	6059.7	6437.8	7212.2	8195.6	8855.7	8862.7	8769.3	8446.8	8191.8	7549.9
62.5°	5547.9	5622.3	6004.2	6985.6	8191.8	9084.9	9351.2	9279.9	8894.2	8609.0	8099.0
65°	4747.6	4774.1	5138.2	6209.3	7638.2	8988.9	9791.1	9764.6	9297.6	9014.2	8381.1
67.5°	3466.9	3409.5	3792.0	4889.6	6466.8	8429.7	10106.7	10140.1	9608.7	9097.5	8080.7
68°	3164.0	3181.0	3478.9	4563.3	6160.1	8232.2	10127.5	10178.6	9639.6	9043.2	7916.6
70°	1885.9	1918.7	2184.4	3141.9	4686.3	7114.4	9902.8	10019.6	9455.3	8483.4	6847.4
72.5°	481.6	520.7	771.9	1406.2	2676.7	5012.6	8359.7	8557.2	8209.4	6882.1	4622.6
75°	198.2	208.3	275.8	463.3	997.2	2258.3	5510.0	5932.9	5691.1	4120.2	2089.1
77.5°	137.0	143.9	177.4	256.9	431.7	765.6	2701.3	3006.8	2708.9	1406.2	455.7
80°	98.5	104.1	126.9	171.0	248.0	273.3	880.5	1018.1	808.5	308.6	113.0
82.5°	58.7	63.1	94.7	121.8	150.8	130.6	219.0	248.7	234.2	153.4	50.5
85°	29.0	34.1	63.7	87.1	81.4	54.9	66.9	74.5	92.1	93.4	27.1
87.5°	1.9	3.8	37.2	52.4	22.7	12.6	19.6	24.0	32.8	46.1	11.4
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°	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1	1586.1
2.5°	1590.5	1591.1	1586.7	1584.8	1586.1	1578.5	1575.4	1576.6	1576.6	1578.5	1575.4
5°	1606.3	1606.3	1598.7	1588.6	1582.9	1568.4	1559.0	1556.4	1554.5	1553.3	1550.7
7.5°	1640.4	1636.6	1623.3	1601.2	1582.3	1550.7	1526.8	1514.1	1507.8	1505.3	1503.4
10°	1695.3	1688.3	1666.3	1625.2	1581.7	1525.5	1473.1	1435.9	1405.0	1392.3	1384.8
12.5°	1769.1	1759.0	1721.8	1653.6	1577.3	1473.7	1360.1	1251.0	1149.3	1107.7	1086.9
15°	1854.3	1839.8	1781.1	1677.6	1551.4	1357.0	1110.2	919.0	778.2	725.2	702.5
17.5°	1940.8	1921.9	1832.9	1692.8	1473.7	1115.3	778.8	588.2	494.2	468.9	460.1
20°	2027.9	2000.1	1877.7	1681.4	1298.3	804.1	513.8	429.8	402.7	395.1	392.6
22.5°	2110.6	2067.7	1918.1	1637.2	1028.2	539.6	406.5	380.0	371.1	366.7	365.4
25°	2182.5	2122.6	1953.4	1500.9	727.7	407.7	366.1	357.2	345.9	337.7	338.3
27.5°	2250.1	2177.5	1974.9	1276.2	485.4	348.4	338.9	326.9	306.1	294.1	294.1
30°	2331.5	2250.7	1990.7	982.1	357.2	308.0	300.4	282.1	253.7	237.9	237.9
32.5°	2453.9	2361.8	1980.6	689.2	296.0	270.8	253.1	227.8	196.9	181.8	181.1
35°	2641.4	2533.5	1908.6	451.9	261.3	235.4	207.0	176.1	149.0	136.3	135.7
37.5°	2893.8	2763.2	1747.0	323.2	234.2	202.6	168.5	134.4	114.2	106.0	105.4
40°	3221.4	3030.2	1516.0	261.9	208.9	171.0	130.0	104.1	90.3	83.9	84.6
42.5°	3614.6	3316.1	1239.0	226.0	184.3	140.7	101.6	82.1	73.2	68.8	67.5
45°	4051.4	3598.2	948.6	201.3	159.7	113.6	79.5	65.0	58.1	55.5	55.5
47.5°	4531.7	3872.8	694.3	179.9	133.2	87.7	63.7	53.0	47.3	45.4	44.8
50°	4967.8	4063.4	500.5	157.2	109.2	69.4	51.8	44.2	40.4	37.9	37.9
52.5°	5331.4	4123.3	368.6	132.5	88.4	55.5	42.9	37.9	34.1	32.2	32.2
55°	5651.4	4098.7	273.9	109.2	71.3	45.4	36.6	32.2	29.0	27.1	27.1
57.5°	5958.1	4019.2	204.5	89.0	57.4	36.6	30.9	27.1	24.0	22.7	22.7
60°	6208.7	3886.7	152.1	72.0	46.1	29.7	25.9	22.1	19.6	17.7	17.7
62.5°	6411.9	3740.2	111.7	59.3	36.6	23.4	20.2	18.3	14.5	12.6	12.6
65°	6413.2	3497.2	83.9	49.2	28.4	18.3	15.1	14.5	9.5	7.6	6.9
67.5°	5949.3	3015.0	64.4	42.3	22.1	13.9	11.4	12.0	5.0	3.2	2.5
68°	5780.8	2892.6	60.6	41.7	20.8	13.3	10.7	12.0	4.4	2.5	1.9
70°	4873.8	2301.2	48.6	40.4	18.3	10.1	8.8	12.0	3.8	1.9	1.3
72.5°	3117.3	1335.5	36.0	32.2	13.9	7.6	5.7	10.7	3.8	1.3	0.6
75°	1326.7	414.0	24.6	22.7	8.2	5.7	3.8	6.9	2.5	0.6	0.0
77.5°	279.6	93.4	14.5	13.9	5.7	3.8	2.5	1.9	0.6	0.0	0.0
80°	72.0	27.1	7.6	6.9	3.2	1.9	1.3	0.0	0.0	0.0	0.0
82.5°	22.7	10.7	4.4	3.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.4	6.3	2.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	1.9	0.6	0.0	0.0	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)