

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: P321118

Luminaire Tested: **GAN-SA4B-830-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321118
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18793 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

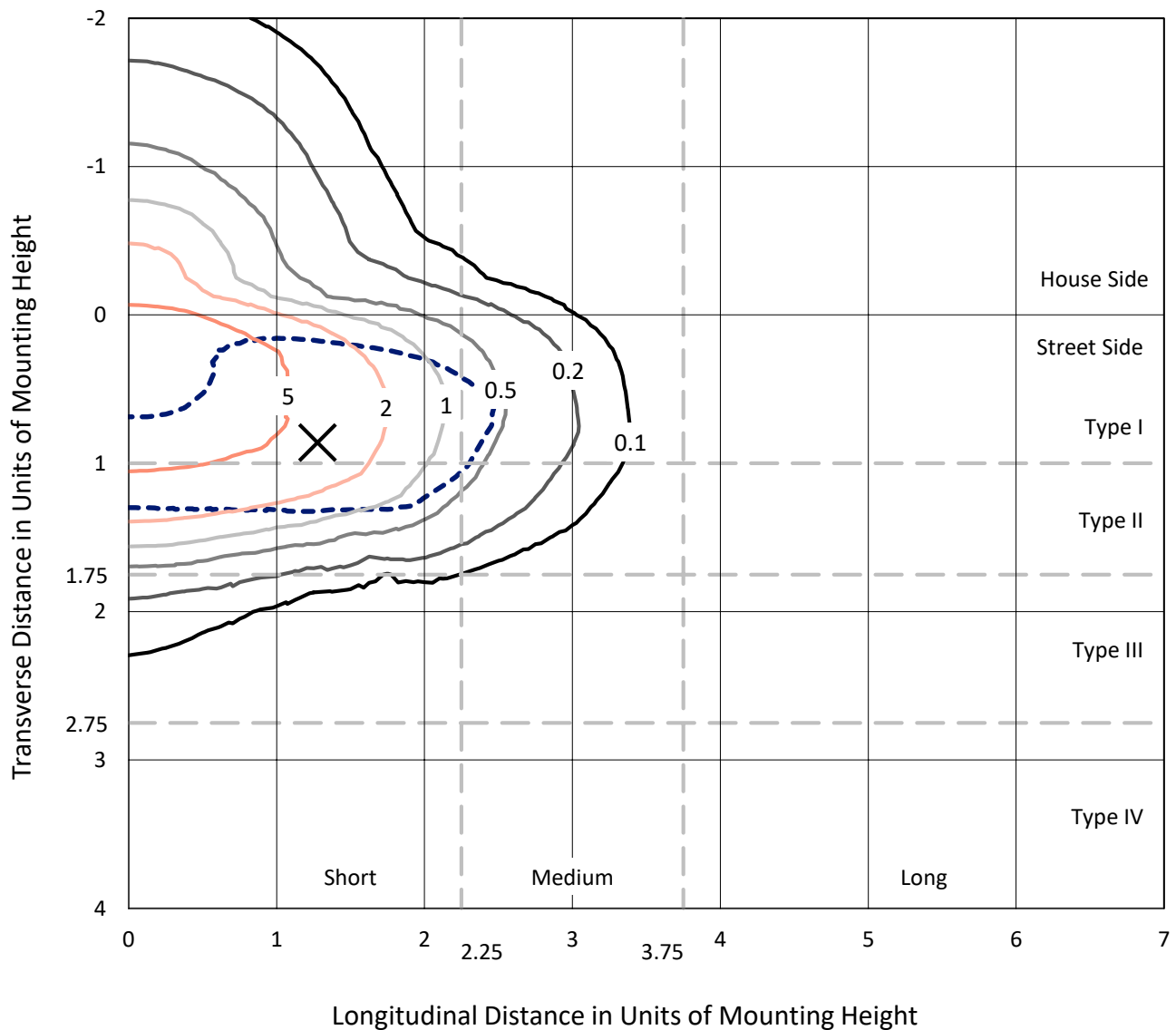


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Iso-Footcandle Lines of Horizontal Illumination

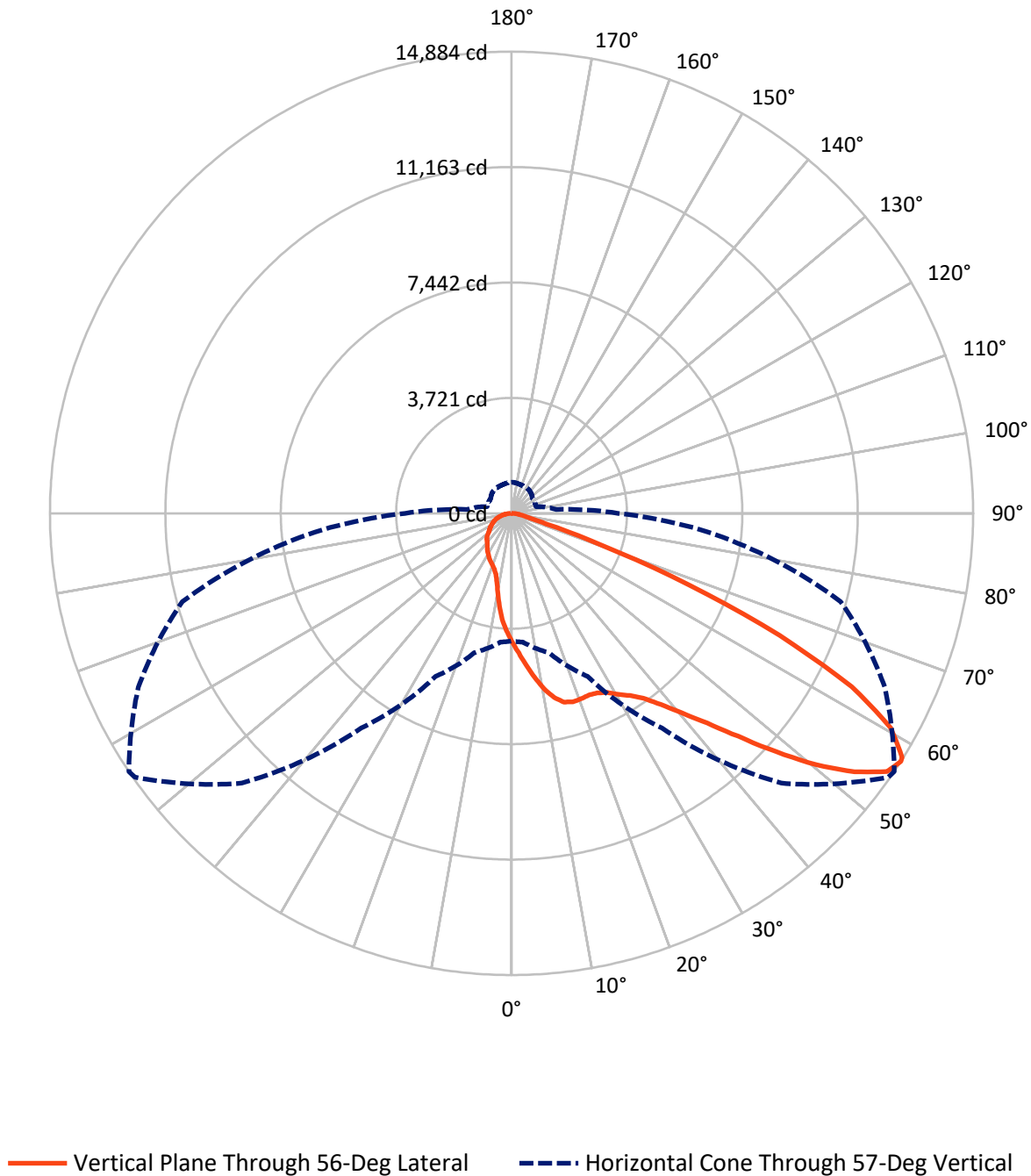
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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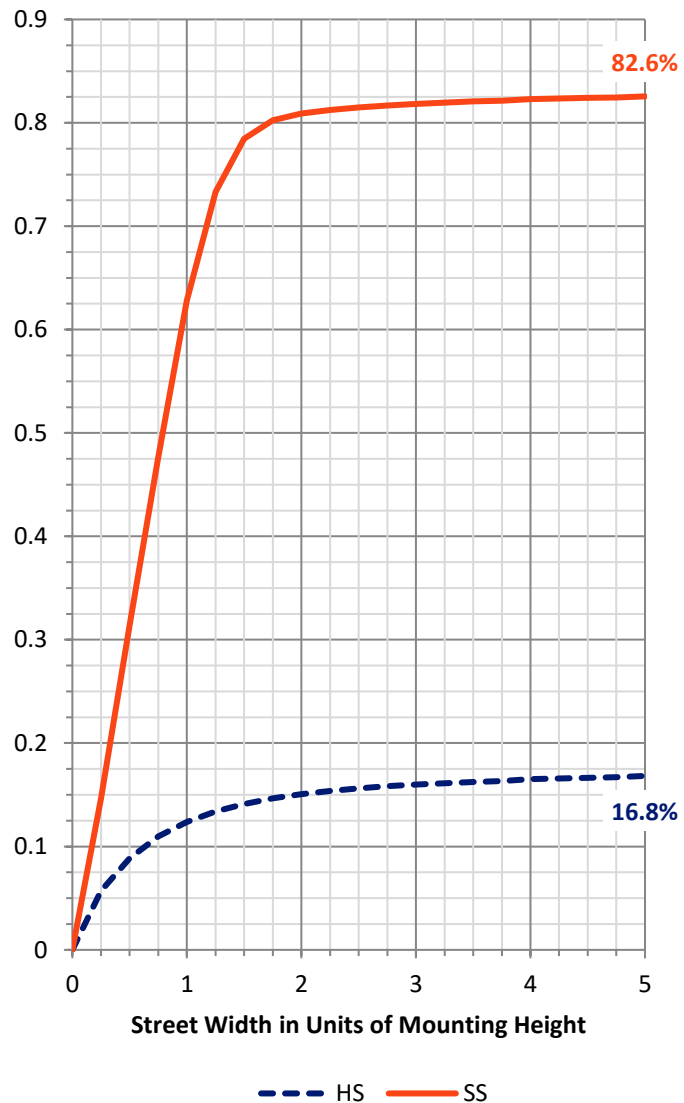
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.5	0.0	3239.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	15553.5	0.0	15553.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	18793.0	0.0	18793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	2.1
10°-20°	1125.7	6.0
20°-30°	1833.6	9.8
30°-40°	2741.0	14.6
40°-50°	4157.6	22.1
50°-60°	4659.9	24.8
60°-70°	2752.3	14.6
70°-80°	901.8	4.8
80°-90°	222.8	1.2
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°	18793.0	100.0
0°-180°	18793.0	100.0

Coefficient of Utilization



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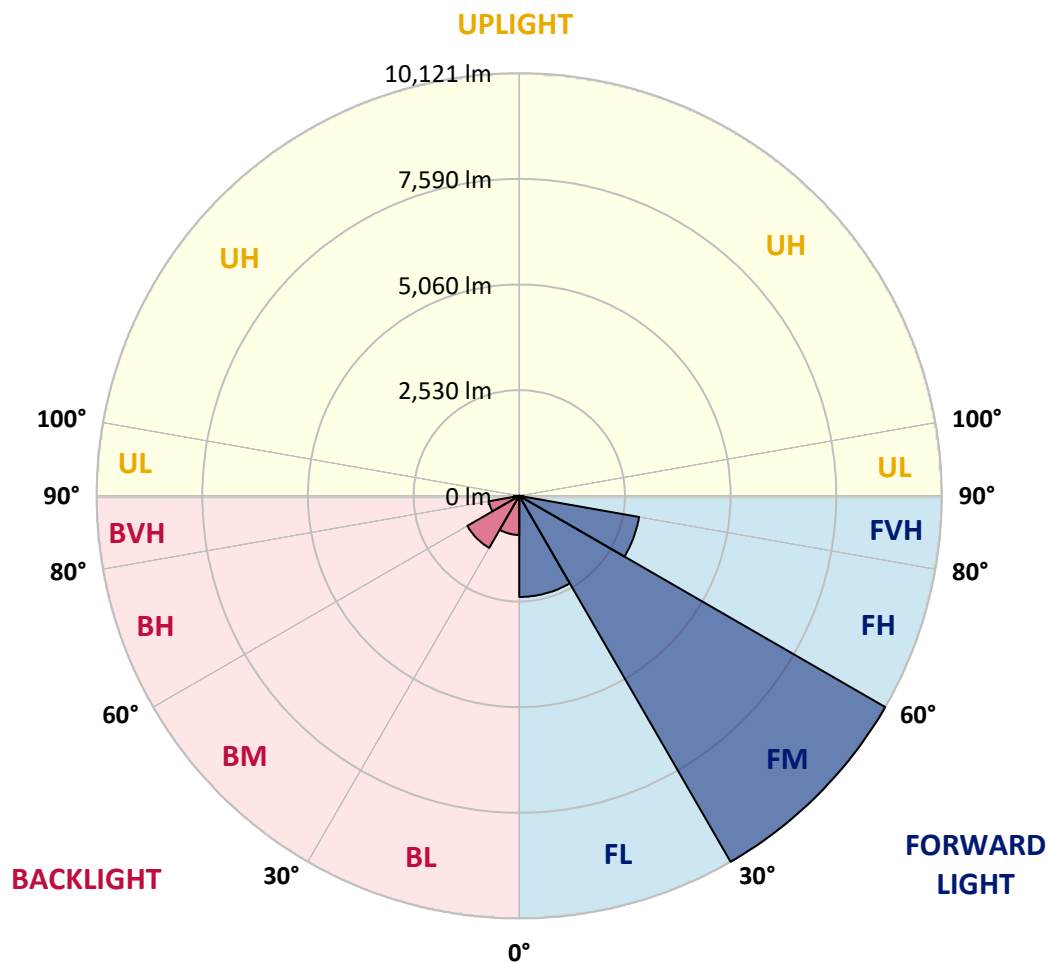
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2420.8	12.9			
FM	(30°-60°)	10120.7	53.9			
FH	(60°-80°)	2913.9	15.5			G2/5000
FVH	(80°-90°)	98.1	0.5			G1/100
BL	(0°-30°)	936.7	5.0	B2/1000		
BM	(30°-60°)	1437.9	7.7	B2/2500		
BH	(60°-80°)	740.2	3.9	B2/1000		G2/1000
BVH	(80°-90°)	124.7	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3
2.5°	4786.4	4830.3	4810.9	4743.8	4692.1	4619.1	4537.7	4513.2	4427.3	4331.1	4215.5
5°	5544.0	5522.0	5490.4	5385.7	5275.3	5146.8	4942.7	4910.4	4719.2	4501.6	4271.6
7.5°	5975.4	5973.5	5954.7	5893.4	5792.6	5624.7	5378.6	5340.5	5051.8	4701.8	4345.3
10°	5912.7	5908.2	5939.2	6003.2	6033.5	5998.6	5791.3	5753.2	5398.6	4923.3	4430.5
12.5°	5556.9	5559.5	5609.2	5743.5	5926.3	6145.9	6112.3	6093.6	5758.4	5173.9	4533.9
15°	5279.8	5285.6	5325.0	5441.9	5657.6	6056.1	6307.4	6313.8	6106.5	5450.3	4654.6
17.5°	5158.4	5170.7	5188.7	5270.8	5468.4	5877.2	6353.9	6388.7	6411.3	5737.1	4770.9
20°	5197.1	5208.8	5213.9	5266.2	5428.4	5768.7	6321.6	6384.2	6645.1	6007.0	4887.1
22.5°	5370.9	5378.0	5381.2	5394.8	5520.7	5799.7	6300.2	6366.1	6814.3	6249.2	4975.0
25°	5658.9	5653.8	5633.1	5615.7	5700.3	5922.4	6349.3	6412.0	6951.9	6468.8	5032.4
27.5°	6003.8	5997.3	5957.3	5909.5	5957.9	6113.6	6490.8	6540.5	7075.3	6674.2	5061.5
30°	6417.8	6401.0	6325.4	6268.6	6287.3	6400.4	6723.9	6769.1	7265.8	6907.3	5089.9
32.5°	6896.4	6878.3	6769.1	6674.8	6674.8	6769.1	6964.2	7001.6	7427.3	7170.9	5135.8
35°	7495.7	7473.1	7331.0	7172.8	7128.2	7176.0	7291.6	7318.1	7717.9	7502.8	5219.1
37.5°	8202.3	8171.9	7987.9	7776.0	7678.5	7675.9	7759.2	7813.5	8182.3	7938.8	5360.5
40°	8910.8	8889.5	8728.6	8562.0	8370.8	8309.5	8438.0	8454.8	8789.3	8480.0	5541.4
42.5°	9458.4	9454.6	9424.9	9446.8	9251.1	9127.1	9227.9	9241.4	9530.8	9065.8	5733.8
45°	9747.8	9754.2	9898.3	10217.3	10289.7	10199.2	10249.0	10252.8	10378.1	9656.7	5910.2
47.5°	9515.9	9549.5	9913.8	10627.4	11219.7	11520.0	11437.3	11485.1	11199.7	10164.4	6048.4
50°	8612.4	8653.7	9273.7	10444.7	11653.7	12798.1	12754.9	12743.9	11862.3	10536.4	6123.3
52.5°	7493.1	7525.4	8036.9	9494.6	11335.3	13504.7	13901.9	13845.0	12451.3	10814.7	6137.5
55°	5788.7	5839.1	6329.3	7598.4	10047.5	13234.7	14745.4	14694.3	12988.0	10960.7	6120.7
57°	4115.3	4168.3	4655.3	5799.1	8452.2	12300.2	14829.3	14883.6	13278.0	10985.2	6139.4
57.5°	3672.3	3726.5	4209.0	5319.9	7954.9	11962.4	14757.0	14847.4	13330.3	10981.4	6149.8
60°	1849.1	1869.7	2177.2	2969.6	5028.6	9670.9	13813.4	14046.6	13377.5	10791.5	6194.3
62.5°	1149.6	1134.8	1125.1	1367.9	2446.5	6413.3	11866.2	12315.0	12475.2	10331.6	6086.5
65°	1010.8	983.0	876.4	857.0	1080.5	3114.9	8936.0	9494.6	10547.3	9607.0	5829.4
67.5°	949.4	922.3	802.1	729.8	730.5	1234.9	5547.8	6176.9	8216.5	8381.8	5223.0
70°	886.1	861.6	749.2	663.9	622.0	684.0	2552.4	3029.7	5356.0	6588.3	4365.3
72.5°	804.7	787.9	681.4	593.5	549.0	512.2	977.2	1154.1	3100.7	4424.7	3031.6
75°	719.5	704.0	612.9	528.9	474.7	403.0	550.3	592.9	1575.2	2263.7	1492.6
77.5°	625.8	616.8	545.1	467.6	424.3	333.9	389.4	410.1	675.6	970.7	748.5
80°	497.9	515.4	476.6	416.6	376.5	267.4	275.8	289.3	393.3	474.1	425.0
82.5°	324.2	354.6	373.3	338.4	310.0	210.5	198.3	204.1	256.4	289.3	184.7
85°	135.0	151.8	245.4	221.5	206.0	153.7	133.0	135.6	158.9	164.7	75.6
87.5°	60.1	63.9	107.9	101.4	87.2	53.0	56.8	62.0	84.6	80.1	29.1
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°	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3	4168.3
2.5°	4172.2	4117.9	4024.9	3922.2	3838.3	3771.1	3703.3	3656.8	3602.5	3573.5	3558.6
5°	4175.4	4068.8	3873.2	3672.3	3492.7	3328.7	3172.4	3052.3	2939.9	2879.2	2862.4
7.5°	4189.0	4028.8	3712.3	3381.7	3062.6	2771.3	2546.6	2405.8	2304.4	2259.2	2246.3
10°	4200.0	3981.7	3513.4	3023.9	2589.9	2294.7	2120.3	2041.5	2006.7	2000.8	1995.0
12.5°	4225.8	3933.2	3304.2	2650.6	2222.4	2018.3	1957.6	1952.4	1962.1	1976.3	1976.3
15°	4266.5	3885.4	3065.2	2330.2	1988.6	1916.9	1929.1	1957.6	1984.0	2006.0	2009.2
17.5°	4296.2	3826.7	2808.1	2073.8	1863.9	1883.3	1927.2	1967.3	1994.4	2015.7	2017.6
20°	4317.5	3735.6	2533.7	1878.1	1792.2	1852.3	1907.2	1942.7	1961.4	1982.8	1986.0
22.5°	4306.5	3613.5	2290.2	1738.0	1734.1	1807.1	1859.4	1902.0	1887.8	1867.1	1880.7
25°	4253.6	3445.6	2039.6	1633.4	1672.7	1746.4	1811.0	1782.5	1734.7	1725.7	1730.9
27.5°	4159.3	3231.2	1807.7	1536.5	1601.7	1690.2	1686.3	1657.9	1641.1	1629.5	1636.6
30°	4057.9	2998.7	1604.9	1451.9	1522.9	1595.9	1581.0	1580.4	1563.6	1544.9	1553.9
32.5°	3957.8	2764.9	1444.1	1382.1	1463.5	1473.2	1505.5	1515.2	1482.2	1442.8	1440.2
35°	3870.6	2544.0	1322.1	1318.8	1391.8	1393.1	1440.2	1426.7	1344.7	1304.0	1304.0
37.5°	3805.3	2323.8	1229.0	1262.0	1297.5	1331.1	1355.0	1298.8	1285.2	1262.6	1262.0
40°	3776.9	2130.0	1170.9	1218.7	1231.0	1273.6	1212.3	1234.2	1240.7	1229.0	1229.0
42.5°	3747.2	1961.4	1120.5	1185.8	1183.8	1178.0	1147.0	1175.4	1201.3	1201.9	1200.0
45°	3717.5	1816.1	1076.0	1115.4	1142.5	1079.9	1085.7	1116.0	1152.2	1165.1	1165.1
47.5°	3684.6	1701.2	1035.3	1041.1	1083.1	1041.1	1036.6	1059.8	1102.5	1123.1	1127.7
50°	3612.2	1597.8	988.8	975.9	987.5	1001.7	1005.6	1016.6	1063.7	1096.7	1104.4
52.5°	3512.1	1505.5	929.4	915.8	915.8	969.4	987.5	990.7	1030.8	1070.2	1077.9
55°	3428.8	1446.7	868.0	865.4	862.9	935.2	966.2	971.4	999.1	1030.1	1034.0
57°	3434.6	1442.2	820.9	823.5	822.8	900.3	946.2	957.1	971.4	997.8	1002.4
57.5°	3437.9	1445.4	810.5	811.8	811.2	890.6	940.4	952.6	963.6	991.4	995.9
60°	3486.3	1453.8	768.6	754.4	757.6	839.0	907.4	922.9	930.0	966.8	972.6
62.5°	3414.6	1416.3	735.0	700.7	700.7	784.7	861.6	886.1	897.1	946.8	956.5
65°	3206.6	1311.1	695.6	640.0	646.5	730.5	806.7	846.7	863.5	925.5	935.8
67.5°	2885.6	1189.0	653.6	585.8	592.2	673.6	749.8	793.1	819.6	902.2	910.6
70°	2467.8	1039.8	596.8	528.3	536.1	611.6	682.7	731.7	771.1	880.3	882.9
72.5°	1819.4	852.5	517.3	465.0	473.4	539.3	614.8	671.7	724.6	825.4	824.1
75°	1081.8	666.5	429.5	401.1	406.9	468.2	553.5	622.6	702.0	804.1	816.4
77.5°	656.2	501.8	350.0	335.8	342.9	405.6	509.6	583.2	692.3	758.2	754.4
80°	396.6	358.4	279.7	270.6	277.7	346.8	471.5	553.5	605.2	647.8	647.8
82.5°	207.3	218.9	205.4	198.3	208.0	281.6	428.8	483.1	534.8	459.2	428.8
85°	84.6	114.3	124.6	124.0	129.8	195.0	370.1	413.3	344.9	327.4	335.2
87.5°	28.4	48.4	60.7	52.3	54.9	122.7	256.4	199.6	237.0	165.3	156.9
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)