

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: P320897

Luminaire Tested: **GAN-SA3D-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320897
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-SA3D-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20323 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

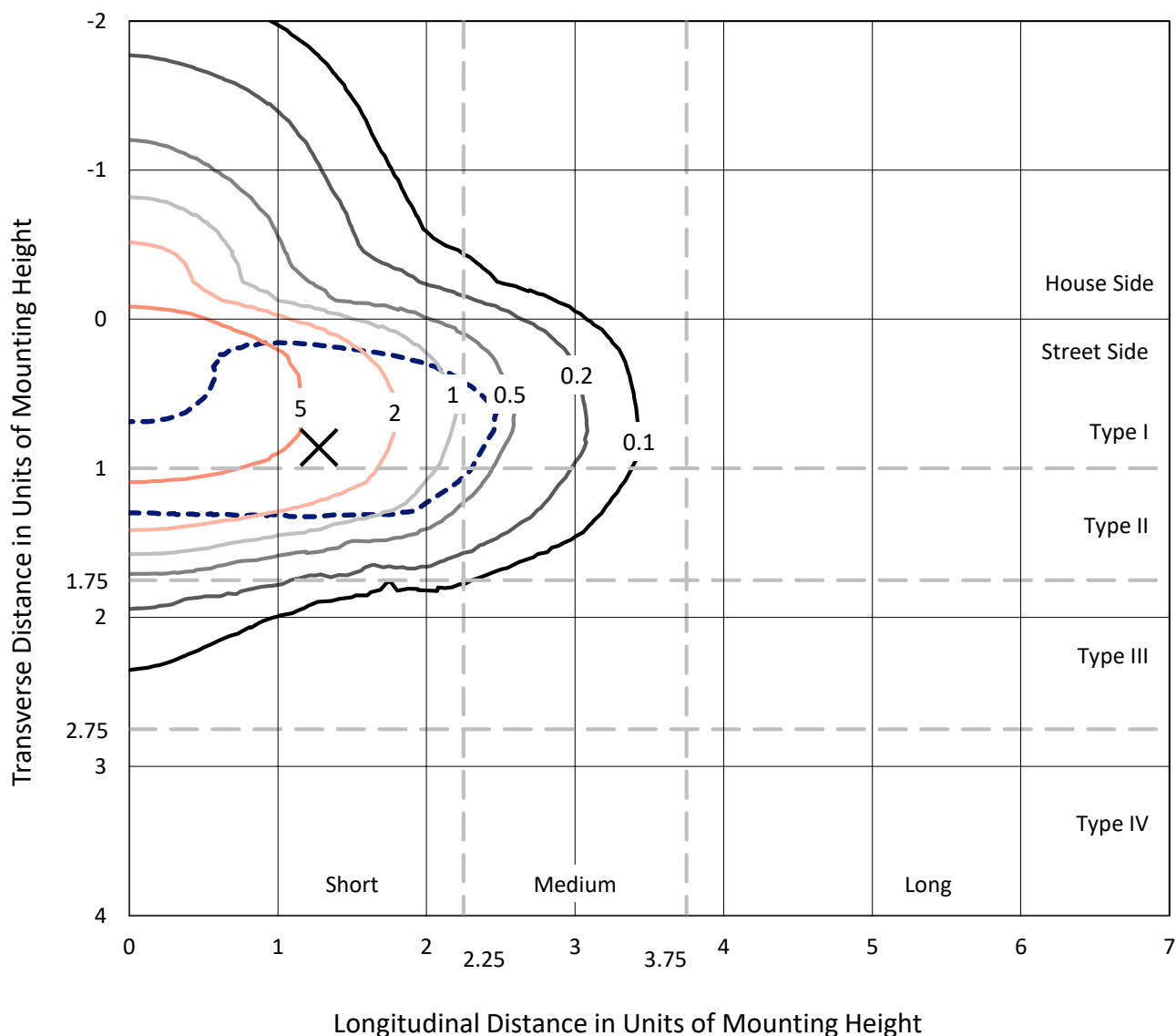
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

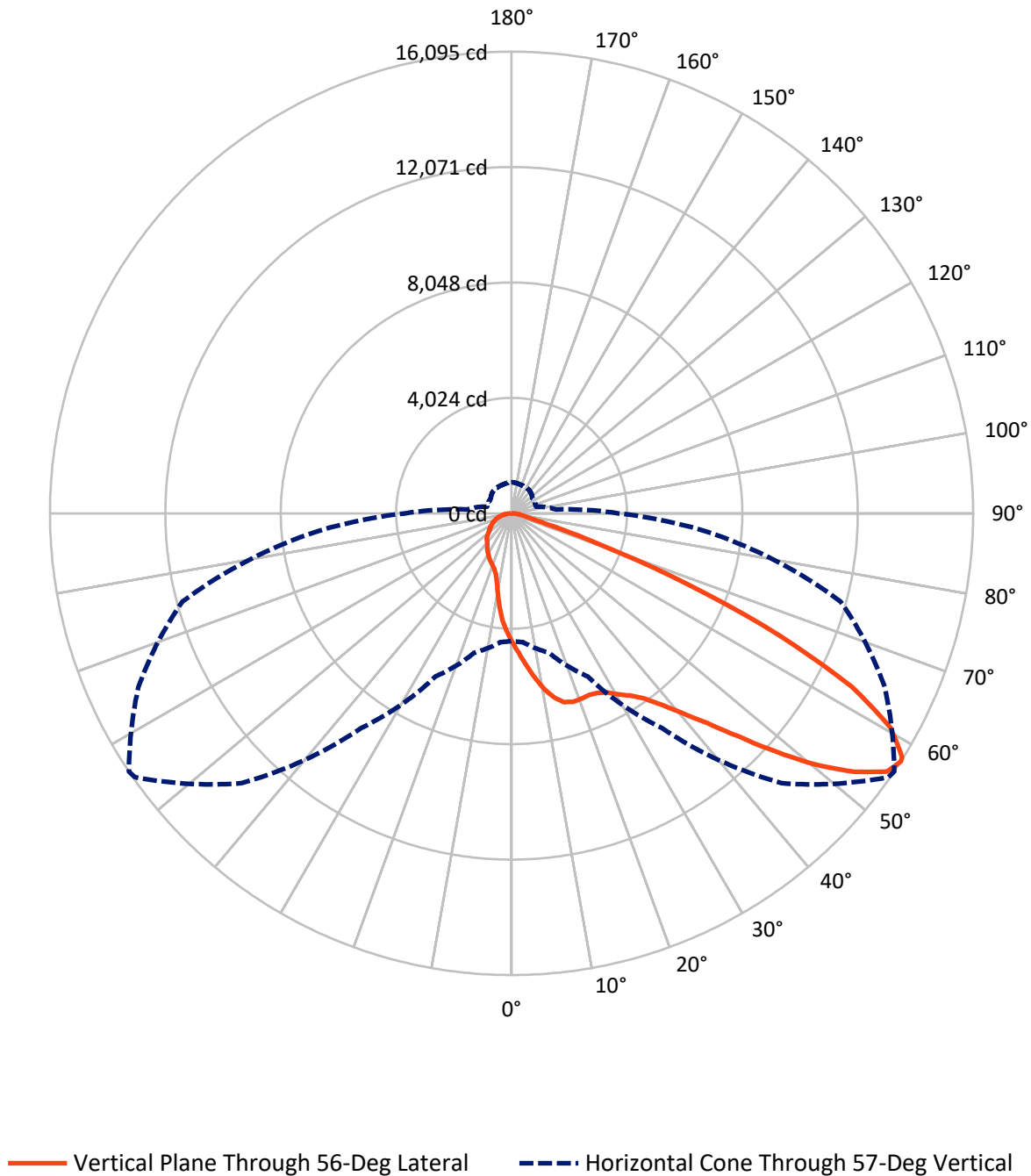
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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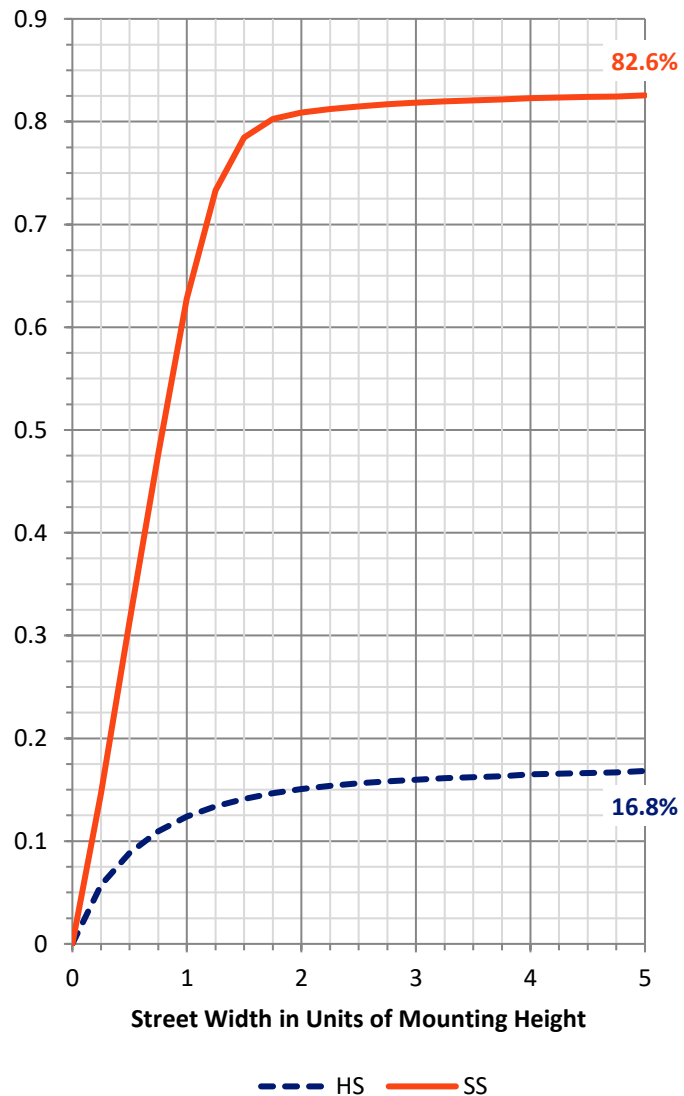
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3503.3	0.0	3503.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	16819.8	0.0	16819.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	20323.0	0.0	20323.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.6	2.1
10°-20°	1217.4	6.0
20°-30°	1982.9	9.8
30°-40°	2964.2	14.6
40°-50°	4496.1	22.1
50°-60°	5039.3	24.8
60°-70°	2976.4	14.6
70°-80°	975.2	4.8
80°-90°	240.9	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°	20323.0	100.0
0°-180°	20323.0	100.0

Coefficient of Utilization



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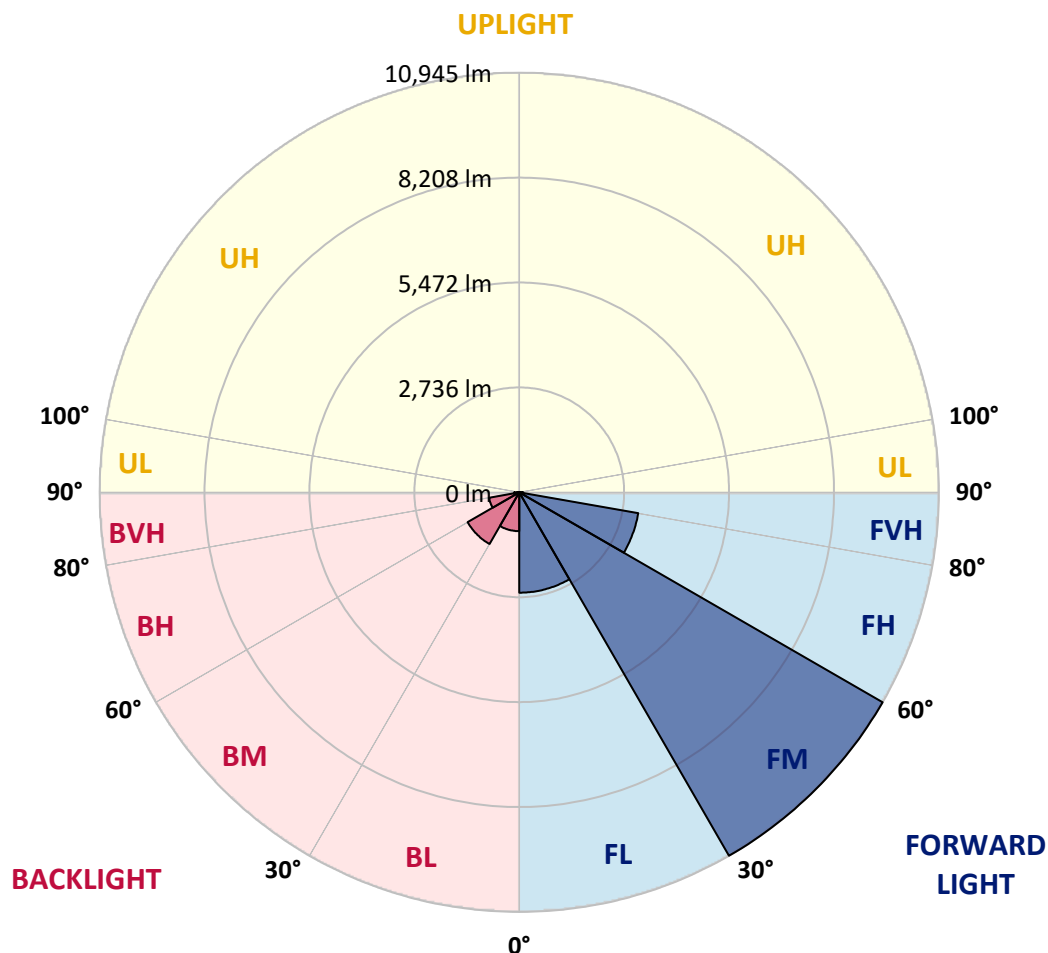
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2617.9	12.9			
FM	(30°-60°)	10944.6	53.9			
FH	(60°-80°)	3151.1	15.5			G2/5000
FVH	(80°-90°)	106.1	0.5			G2/225
BL	(0°-30°)	1013.0	5.0	B3/2500		
BM	(30°-60°)	1555.0	7.7	B2/2500		
BH	(60°-80°)	800.5	3.9	B2/1000		G2/1000
BVH	(80°-90°)	134.8	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7
2.5°	5176.1	5223.5	5202.6	5130.0	5074.1	4995.2	4907.2	4880.6	4787.7	4683.7	4558.6
5°	5995.3	5971.6	5937.3	5824.2	5704.8	5565.8	5345.1	5310.2	5103.4	4868.0	4619.4
7.5°	6461.9	6459.8	6439.5	6373.2	6264.2	6082.6	5816.5	5775.3	5463.1	5084.6	4699.0
10°	6394.1	6389.2	6422.8	6491.9	6524.7	6487.0	6262.8	6221.6	5838.2	5324.1	4791.2
12.5°	6009.3	6012.1	6065.9	6211.1	6408.8	6646.2	6609.9	6589.7	6227.2	5595.1	4903.0
15°	5709.7	5715.9	5758.5	5885.0	6118.2	6549.2	6820.9	6827.8	6603.6	5894.0	5033.6
17.5°	5578.4	5591.6	5611.2	5699.9	5913.6	6355.7	6871.1	6908.9	6933.3	6204.1	5159.3
20°	5620.3	5632.8	5638.4	5695.0	5870.3	6238.4	6836.2	6904.0	7186.1	6496.1	5285.0
22.5°	5808.1	5815.8	5819.3	5834.0	5970.2	6271.9	6813.2	6884.4	7369.1	6758.0	5380.0
25°	6119.6	6114.0	6091.7	6072.8	6164.3	6404.6	6866.3	6934.0	7517.9	6995.5	5442.2
27.5°	6492.6	6485.6	6442.3	6390.6	6443.0	6611.3	7019.2	7073.0	7651.3	7217.6	5473.6
30°	6940.3	6922.1	6840.4	6779.0	6799.2	6921.4	7271.3	7320.2	7857.3	7469.7	5504.3
32.5°	7457.8	7438.3	7320.2	7218.3	7218.3	7320.2	7531.2	7571.7	8031.9	7754.7	5553.9
35°	8106.0	8081.5	7927.9	7756.8	7708.6	7760.2	7885.3	7913.9	8346.2	8113.6	5644.0
37.5°	8870.0	8837.2	8638.2	8409.1	8303.6	8300.8	8390.9	8449.6	8848.4	8585.1	5797.0
40°	9636.2	9613.2	9439.3	9259.1	9052.3	8986.0	9125.0	9143.1	9504.9	9170.4	5992.5
42.5°	10228.5	10224.3	10192.2	10215.9	10004.3	9870.2	9979.2	9993.8	10306.7	9803.8	6200.7
45°	10541.4	10548.4	10704.1	11049.1	11127.4	11029.6	11083.4	11087.6	11223.1	10442.9	6391.3
47.5°	10290.7	10327.0	10720.9	11492.6	12133.1	12457.9	12368.5	12420.2	12111.5	10991.9	6540.8
50°	9313.5	9358.2	10028.7	11295.0	12602.5	13840.1	13793.3	13781.4	12828.0	11394.2	6621.8
52.5°	8103.2	8138.1	8691.2	10267.6	12258.1	14604.1	15033.7	14972.2	13465.0	11695.2	6637.2
55°	6260.0	6314.5	6844.6	8217.0	10865.5	14312.2	15945.8	15890.7	14045.4	11853.0	6619.0
57°	4450.4	4507.7	5034.3	6271.2	9140.3	13301.6	16036.6	16095.3	14359.0	11879.6	6639.3
57.5°	3971.3	4029.9	4551.7	5753.0	8602.5	12936.3	15958.4	16056.2	14415.6	11875.4	6650.4
60°	1999.6	2022.0	2354.4	3211.4	5438.0	10458.3	14938.0	15190.1	14466.6	11670.0	6698.6
62.5°	1243.2	1227.1	1216.7	1479.3	2645.6	6935.4	12832.2	13317.6	13490.9	11172.8	6582.0
65°	1093.0	1063.0	947.8	926.8	1168.5	3368.5	9663.5	10267.6	11406.0	10389.1	6304.0
67.5°	1026.7	997.4	867.4	789.2	789.9	1335.4	5999.5	6679.8	8885.4	9064.2	5648.2
70°	958.2	931.7	810.2	718.0	672.6	739.6	2760.2	3276.3	5792.1	7124.7	4720.7
72.5°	870.2	852.1	736.8	641.9	593.7	553.9	1056.7	1248.1	3353.2	4784.9	3278.4
75°	778.0	761.3	662.8	572.0	513.3	435.8	595.1	641.2	1703.5	2448.0	1614.1
77.5°	676.8	667.0	589.5	505.7	458.9	361.1	421.2	443.5	730.6	1049.7	809.5
80°	538.5	557.3	515.4	450.5	407.2	289.1	298.2	312.9	425.3	512.6	459.6
82.5°	350.6	383.4	403.7	366.0	335.2	227.7	214.4	220.7	277.3	312.9	199.8
85°	146.0	164.1	265.4	239.6	222.8	166.2	143.9	146.7	171.8	178.1	81.7
87.5°	65.0	69.1	116.6	109.7	94.3	57.3	61.5	67.0	91.5	86.6	31.4
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°	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7	4507.7
2.5°	4511.9	4453.2	4352.6	4241.6	4150.8	4078.1	4004.8	3954.5	3895.8	3864.4	3848.3
5°	4515.3	4400.1	4188.5	3971.3	3777.1	3599.7	3430.7	3300.8	3179.2	3113.6	3095.4
7.5°	4530.0	4356.8	4014.6	3657.0	3311.9	2997.0	2753.9	2601.6	2492.0	2443.1	2429.1
10°	4541.9	4305.8	3799.5	3270.0	2800.7	2481.5	2292.9	2207.7	2170.0	2163.7	2157.4
12.5°	4569.8	4253.4	3573.2	2866.4	2403.3	2182.6	2116.9	2111.4	2121.8	2137.2	2137.2
15°	4613.8	4201.7	3314.7	2519.9	2150.5	2072.9	2086.2	2116.9	2145.6	2169.3	2172.8
17.5°	4645.9	4138.2	3036.8	2242.7	2015.7	2036.6	2084.1	2127.4	2156.7	2179.8	2181.9
20°	4669.0	4039.7	2739.9	2031.0	1938.1	2003.1	2062.5	2100.9	2121.1	2144.2	2147.7
22.5°	4657.1	3907.7	2476.6	1879.5	1875.3	1954.2	2010.8	2056.9	2041.5	2019.2	2033.8
25°	4599.9	3726.1	2205.6	1766.3	1808.9	1888.6	1958.4	1927.7	1876.0	1866.2	1871.8
27.5°	4497.9	3494.2	1954.9	1661.6	1732.1	1827.8	1823.6	1792.9	1774.7	1762.1	1769.8
30°	4388.2	3242.8	1735.6	1570.1	1646.9	1725.8	1709.8	1709.1	1690.9	1670.6	1680.4
32.5°	4280.0	2990.0	1561.7	1494.6	1582.6	1593.1	1628.0	1638.5	1602.9	1560.3	1557.5
35°	4185.7	2751.1	1429.7	1426.2	1505.1	1506.5	1557.5	1542.8	1454.1	1410.1	1410.1
37.5°	4115.1	2512.9	1329.1	1364.7	1403.1	1439.5	1465.3	1404.5	1389.9	1365.4	1364.7
40°	4084.4	2303.4	1266.3	1317.9	1331.2	1377.3	1311.0	1334.7	1341.7	1329.1	1329.1
42.5°	4052.3	2121.1	1211.8	1282.3	1280.2	1273.9	1240.4	1271.1	1299.1	1299.8	1297.7
45°	4020.2	1964.0	1163.6	1206.2	1235.5	1167.8	1174.1	1206.9	1246.0	1260.0	1260.0
47.5°	3984.5	1839.7	1119.6	1125.9	1171.3	1125.9	1121.0	1146.1	1192.2	1214.6	1219.5
50°	3906.3	1727.9	1069.3	1055.3	1067.9	1083.3	1087.5	1099.3	1150.3	1185.9	1194.3
52.5°	3798.1	1628.0	1005.0	990.4	990.4	1048.3	1067.9	1071.4	1114.7	1157.3	1165.7
55°	3708.0	1564.5	938.7	935.9	933.1	1011.3	1044.8	1050.4	1080.5	1114.0	1118.2
57°	3714.2	1559.6	887.7	890.5	889.8	973.6	1023.2	1035.1	1050.4	1079.1	1084.0
57.5°	3717.7	1563.1	876.5	877.9	877.2	963.1	1016.9	1030.2	1042.1	1072.1	1077.0
60°	3770.1	1572.2	831.1	815.8	819.3	907.3	981.3	998.1	1005.7	1045.5	1051.8
62.5°	3692.6	1531.7	794.8	757.8	757.8	848.6	931.7	958.2	970.1	1023.9	1034.4
65°	3467.7	1417.8	752.2	692.1	699.1	789.9	872.3	915.6	933.8	1000.8	1012.0
67.5°	3120.6	1285.8	706.8	633.5	640.5	728.5	810.9	857.7	886.3	975.7	984.8
70°	2668.7	1124.5	645.3	571.3	579.7	661.4	738.2	791.3	833.9	952.0	954.8
72.5°	1967.5	921.9	559.4	502.9	511.9	583.2	664.9	726.4	783.6	892.6	891.2
75°	1169.9	720.8	464.5	433.7	440.0	506.4	598.6	673.3	759.2	869.5	882.8
77.5°	709.6	542.7	378.5	363.2	370.9	438.6	551.1	630.7	748.7	820.0	815.8
80°	428.8	387.6	302.4	292.6	300.3	375.1	509.9	598.6	654.4	700.5	700.5
82.5°	224.2	236.8	222.1	214.4	224.9	304.5	463.8	522.4	578.3	496.6	463.8
85°	91.5	123.6	134.8	134.1	140.4	210.9	400.2	447.0	373.0	354.1	362.5
87.5°	30.7	52.4	65.7	56.6	59.4	132.7	277.3	215.8	256.3	178.8	169.7
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)