

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: P320887

Luminaire Tested: **GAN-SA3C-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320887
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-SA3C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18527 lumens
Efficiency: N/A
Efficacy: 111.6 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): 166
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



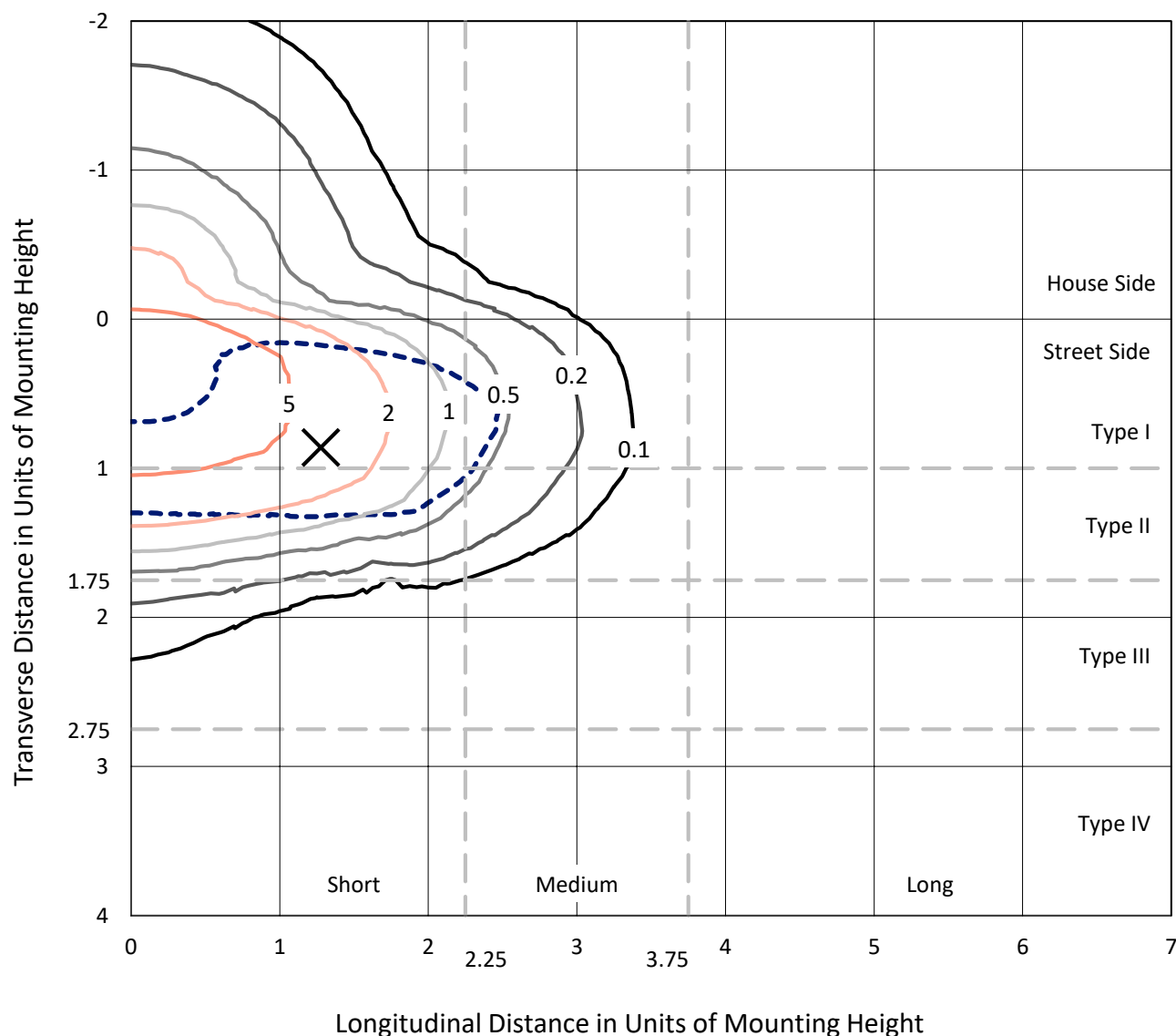
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

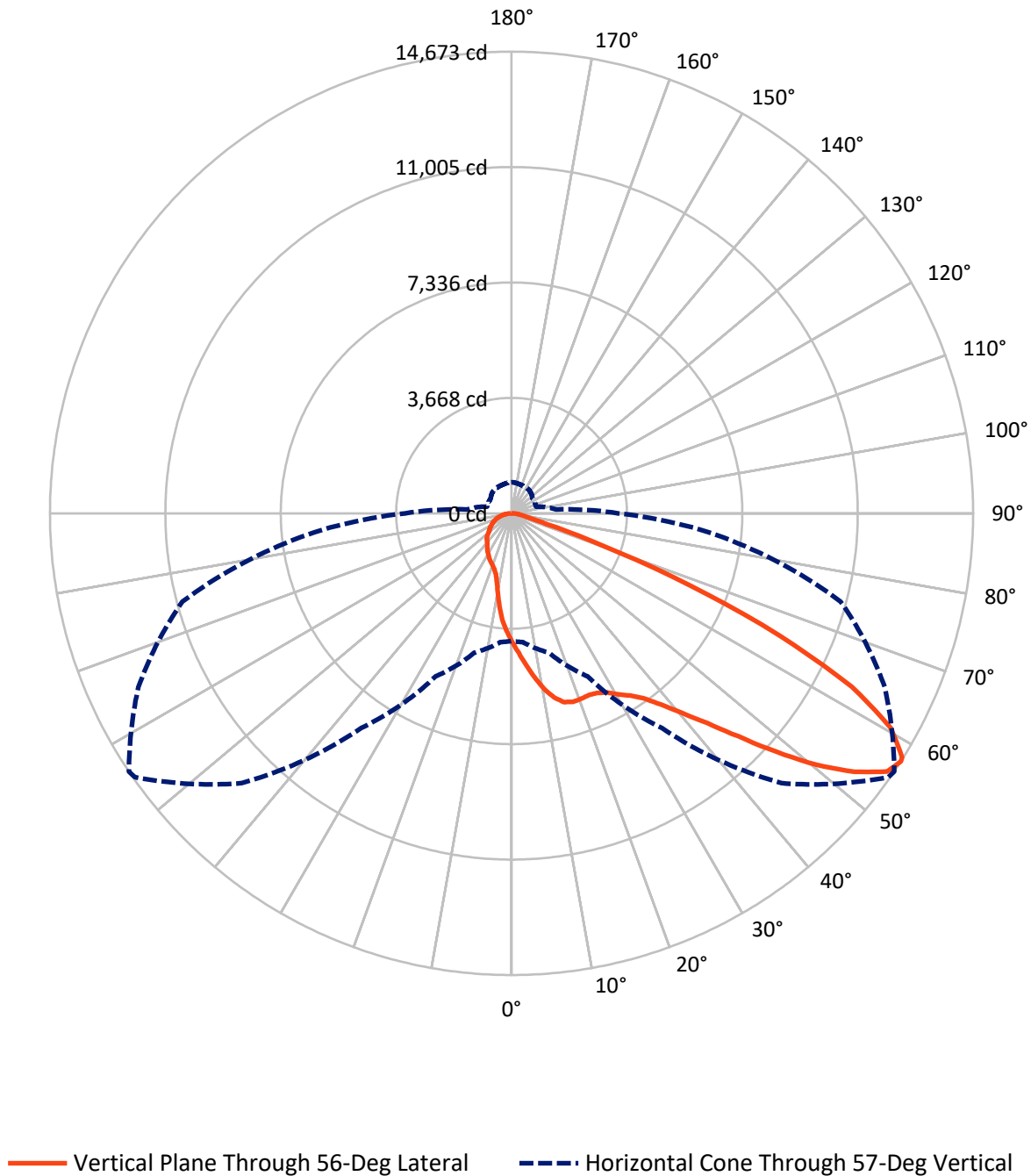


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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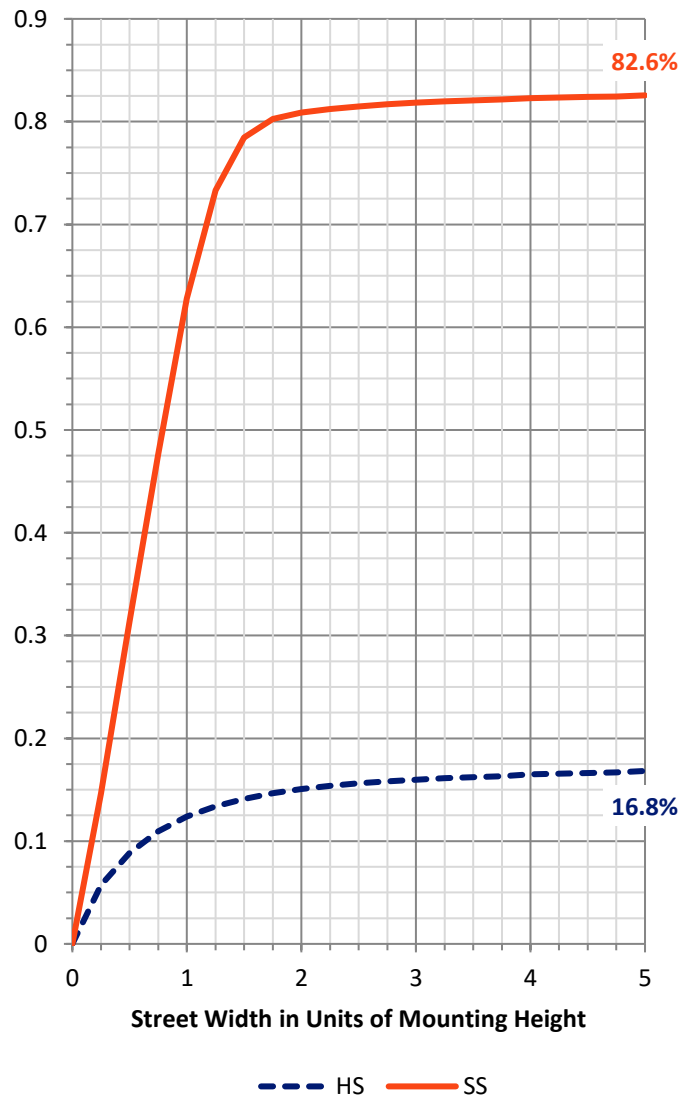
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3193.7	0.0	3193.7
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	15333.3	0.0	15333.3
	% Fixture	82.8	0.0	82.8
Total	Lumens	18527.0	0.0	18527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.5	2.1
10°-20°	1109.8	6.0
20°-30°	1807.7	9.8
30°-40°	2702.3	14.6
40°-50°	4098.7	22.1
50°-60°	4594.0	24.8
60°-70°	2713.4	14.6
70°-80°	889.0	4.8
80°-90°	219.6	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°	18527.0	100.0
0°-180°	18527.0	100.0

Coefficient of Utilization



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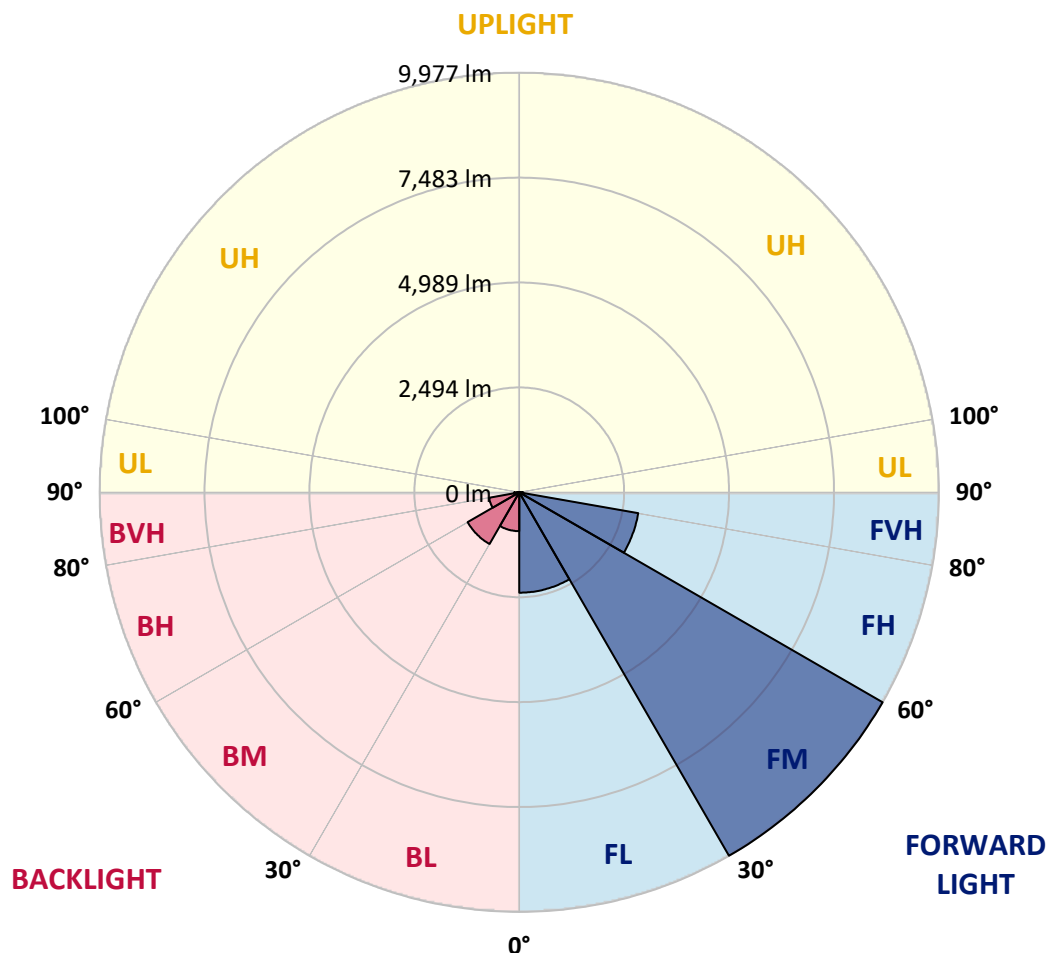
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2386.6	12.9			
FM	(30°-60°)	9977.4	53.9			
FH	(60°-80°)	2872.7	15.5			G2/5000
FVH	(80°-90°)	96.7	0.5			G1/100
BL	(0°-30°)	923.5	5.0	B2/1000		
BM	(30°-60°)	1417.6	7.7	B2/2500		
BH	(60°-80°)	729.7	3.9	B2/1000		G2/1000
BVH	(80°-90°)	122.9	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°	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3
2.5°	4718.6	4761.9	4742.8	4676.6	4625.7	4553.7	4473.5	4449.3	4364.6	4269.8	4155.8
5°	5465.5	5443.8	5412.6	5309.5	5200.6	5073.9	4872.7	4840.9	4652.4	4437.8	4211.2
7.5°	5890.8	5888.9	5870.4	5809.9	5710.6	5545.1	5302.5	5264.9	4980.3	4635.2	4283.8
10°	5829.1	5824.6	5855.2	5918.2	5948.1	5913.7	5709.3	5671.8	5322.2	4853.6	4367.8
12.5°	5478.2	5480.8	5529.8	5662.2	5842.4	6058.9	6025.8	6007.3	5676.9	5100.7	4469.7
15°	5205.1	5210.8	5249.6	5364.9	5577.6	5970.4	6218.1	6224.4	6020.1	5373.2	4588.7
17.5°	5085.4	5097.5	5115.3	5196.2	5391.0	5794.0	6263.9	6298.3	6320.6	5655.9	4703.4
20°	5123.6	5135.0	5140.1	5191.7	5351.5	5687.1	6232.1	6293.8	6551.1	5922.0	4818.0
22.5°	5294.9	5301.9	5305.0	5318.4	5442.6	5717.6	6211.1	6276.0	6717.9	6160.8	4904.6
25°	5578.8	5573.7	5553.4	5536.2	5619.6	5838.6	6259.5	6321.2	6853.5	6377.3	4961.2
27.5°	5918.8	5912.5	5873.0	5825.9	5873.6	6027.1	6398.9	6447.9	6975.1	6579.7	4989.9
30°	6327.0	6310.4	6235.9	6179.9	6198.3	6309.8	6628.8	6673.3	7163.0	6809.6	5017.9
32.5°	6798.8	6780.9	6673.3	6580.4	6580.4	6673.3	6865.6	6902.5	7322.1	7069.4	5063.1
35°	7389.6	7367.3	7227.3	7071.3	7027.3	7074.4	7188.4	7214.5	7608.6	7396.6	5145.2
37.5°	8086.2	8056.3	7874.8	7665.9	7569.8	7567.3	7649.4	7702.9	8066.4	7826.4	5284.7
40°	8784.6	8763.6	8605.1	8440.8	8252.4	8191.9	8318.6	8335.1	8664.9	8360.0	5462.9
42.5°	9324.6	9320.8	9291.5	9313.1	9120.2	8997.9	9097.3	9110.6	9395.9	8937.5	5652.7
45°	9609.8	9616.2	9758.2	10072.7	10144.0	10054.9	10103.9	10107.7	10231.2	9520.0	5826.5
47.5°	9381.2	9414.3	9773.4	10477.0	11060.9	11356.9	11275.4	11322.6	11041.1	10020.5	5962.8
50°	8490.5	8531.2	9142.5	10296.8	11488.7	12617.0	12574.3	12563.5	11694.4	10387.2	6036.6
52.5°	7387.1	7418.9	7923.2	9360.2	11174.8	13313.5	13705.1	13649.1	12275.1	10661.7	6050.6
55°	5706.8	5756.5	6239.7	7490.9	9905.2	13047.4	14536.7	14486.4	12804.2	10805.6	6034.1
57°	4057.1	4109.3	4589.4	5717.0	8332.6	12126.1	14619.4	14672.9	13090.1	10829.7	6052.5
57.5°	3620.3	3673.8	4149.4	5244.6	7842.3	11793.1	14548.1	14637.3	13141.6	10825.9	6062.7
60°	1822.9	1843.3	2146.3	2927.6	4957.4	9534.0	13617.9	13847.7	13188.1	10638.7	6106.7
62.5°	1133.3	1118.7	1109.1	1348.5	2411.8	6322.5	11698.2	12140.7	12298.6	10185.4	6000.3
65°	996.4	969.1	864.0	844.9	1065.2	3070.8	8809.5	9360.2	10398.1	9471.0	5746.9
67.5°	936.0	909.2	790.8	719.5	720.1	1217.4	5469.3	6089.5	8100.2	8263.2	5149.0
70°	873.6	849.4	738.6	654.5	613.1	674.3	2516.3	2986.8	5280.2	6495.0	4303.5
72.5°	793.3	776.8	671.7	585.1	541.2	504.9	963.3	1137.8	3056.8	4362.1	2988.7
75°	709.3	694.0	604.2	521.5	468.0	397.3	542.5	584.5	1552.9	2231.7	1471.4
77.5°	617.0	608.1	537.4	461.0	418.3	329.2	383.9	404.3	666.0	957.0	737.9
80°	490.9	508.1	469.9	410.7	371.2	263.6	271.9	285.2	387.8	467.3	419.0
82.5°	319.6	349.6	368.0	333.6	305.6	207.6	195.5	201.2	252.8	285.2	182.1
85°	133.1	149.6	241.9	218.4	203.1	151.5	131.2	133.7	156.6	162.4	74.5
87.5°	59.2	63.0	106.3	100.0	86.0	52.2	56.0	61.1	83.4	79.0	28.7
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°	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3	4109.3
2.5°	4113.1	4059.6	3968.0	3866.7	3783.9	3717.7	3650.9	3605.0	3551.6	3522.9	3508.3
5°	4116.3	4011.3	3818.3	3620.3	3443.3	3281.6	3127.5	3009.1	2898.3	2838.4	2821.9
7.5°	4129.7	3971.8	3659.8	3333.8	3019.3	2732.1	2510.5	2371.7	2271.8	2227.2	2214.5
10°	4140.5	3925.3	3463.7	2981.1	2553.2	2262.2	2090.3	2012.6	1978.2	1972.5	1966.8
12.5°	4166.0	3877.5	3257.4	2613.0	2190.9	1989.7	1929.9	1924.8	1934.3	1948.3	1948.3
15°	4206.1	3830.4	3021.8	2297.2	1960.4	1889.7	1901.8	1929.9	1956.0	1977.6	1980.8
17.5°	4235.4	3772.5	2768.4	2044.5	1837.5	1856.6	1899.9	1939.4	1966.2	1987.2	1989.1
20°	4256.4	3682.7	2497.8	1851.5	1766.9	1826.1	1880.2	1915.2	1933.7	1954.7	1957.9
22.5°	4245.6	3562.4	2257.8	1713.4	1709.6	1781.5	1833.1	1875.1	1861.1	1840.7	1854.1
25°	4193.4	3396.8	2010.7	1610.2	1649.1	1721.7	1785.3	1757.3	1710.2	1701.3	1706.4
27.5°	4100.4	3185.4	1782.1	1514.7	1579.0	1666.3	1662.4	1634.4	1617.9	1606.4	1613.4
30°	4000.4	2956.2	1582.2	1431.3	1501.4	1573.3	1558.7	1558.0	1541.5	1523.0	1531.9
32.5°	3901.7	2725.7	1423.7	1362.6	1442.8	1452.3	1484.2	1493.7	1461.2	1422.4	1419.9
35°	3815.8	2508.0	1303.3	1300.2	1372.1	1373.4	1419.9	1406.5	1325.6	1285.5	1285.5
37.5°	3751.5	2290.9	1211.7	1244.1	1279.1	1312.3	1335.8	1280.4	1267.0	1244.8	1244.1
40°	3723.5	2099.9	1154.3	1201.5	1213.6	1255.6	1195.1	1216.7	1223.1	1211.7	1211.7
42.5°	3694.2	1933.7	1104.7	1169.0	1167.1	1161.4	1130.8	1158.8	1184.3	1184.9	1183.0
45°	3664.9	1790.4	1060.8	1099.6	1126.3	1064.6	1070.3	1100.2	1135.9	1148.6	1148.6
47.5°	3632.4	1677.1	1020.6	1026.4	1067.8	1026.4	1021.9	1044.8	1086.9	1107.2	1111.7
50°	3561.1	1575.2	974.8	962.1	973.5	987.5	991.4	1002.2	1048.7	1081.1	1088.8
52.5°	3462.4	1484.2	916.2	902.9	902.9	955.7	973.5	976.7	1016.2	1055.0	1062.7
55°	3380.3	1426.2	855.7	853.2	850.6	922.0	952.5	957.6	985.0	1015.5	1019.4
57°	3386.0	1421.8	809.3	811.8	811.2	887.6	932.8	943.6	957.6	983.7	988.2
57.5°	3389.2	1424.9	799.1	800.3	799.7	878.0	927.0	939.1	950.0	977.3	981.8
60°	3436.9	1433.2	757.7	743.7	746.9	827.1	894.6	909.9	916.9	953.2	958.9
62.5°	3366.3	1396.3	724.6	690.8	690.8	773.6	849.4	873.6	884.4	933.4	943.0
65°	3161.2	1292.5	685.7	631.0	637.3	720.1	795.2	834.7	851.3	912.4	922.6
67.5°	2844.8	1172.2	644.3	577.5	583.9	664.1	739.2	781.9	808.0	889.5	897.8
70°	2432.9	1025.1	588.3	520.8	528.5	603.0	673.0	721.4	760.2	867.8	870.4
72.5°	1793.6	840.5	510.0	458.4	466.7	531.7	606.1	662.2	714.4	813.7	812.4
75°	1066.5	657.1	423.4	395.4	401.1	461.6	545.7	613.8	692.1	792.7	804.8
77.5°	646.9	494.7	345.1	331.1	338.1	399.9	502.4	574.9	682.5	747.5	743.7
80°	390.9	353.4	275.7	266.8	273.8	341.9	464.8	545.7	596.6	638.6	638.6
82.5°	204.4	215.8	202.5	195.5	205.0	277.6	422.8	476.3	527.2	452.7	422.8
85°	83.4	112.7	122.9	122.2	128.0	192.3	364.8	407.5	340.0	322.8	330.5
87.5°	28.0	47.8	59.9	51.6	54.1	121.0	252.8	196.7	233.7	163.0	154.7
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)