

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: P452911

Luminaire Tested: **GLAN-SA3D-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17373 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 184
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

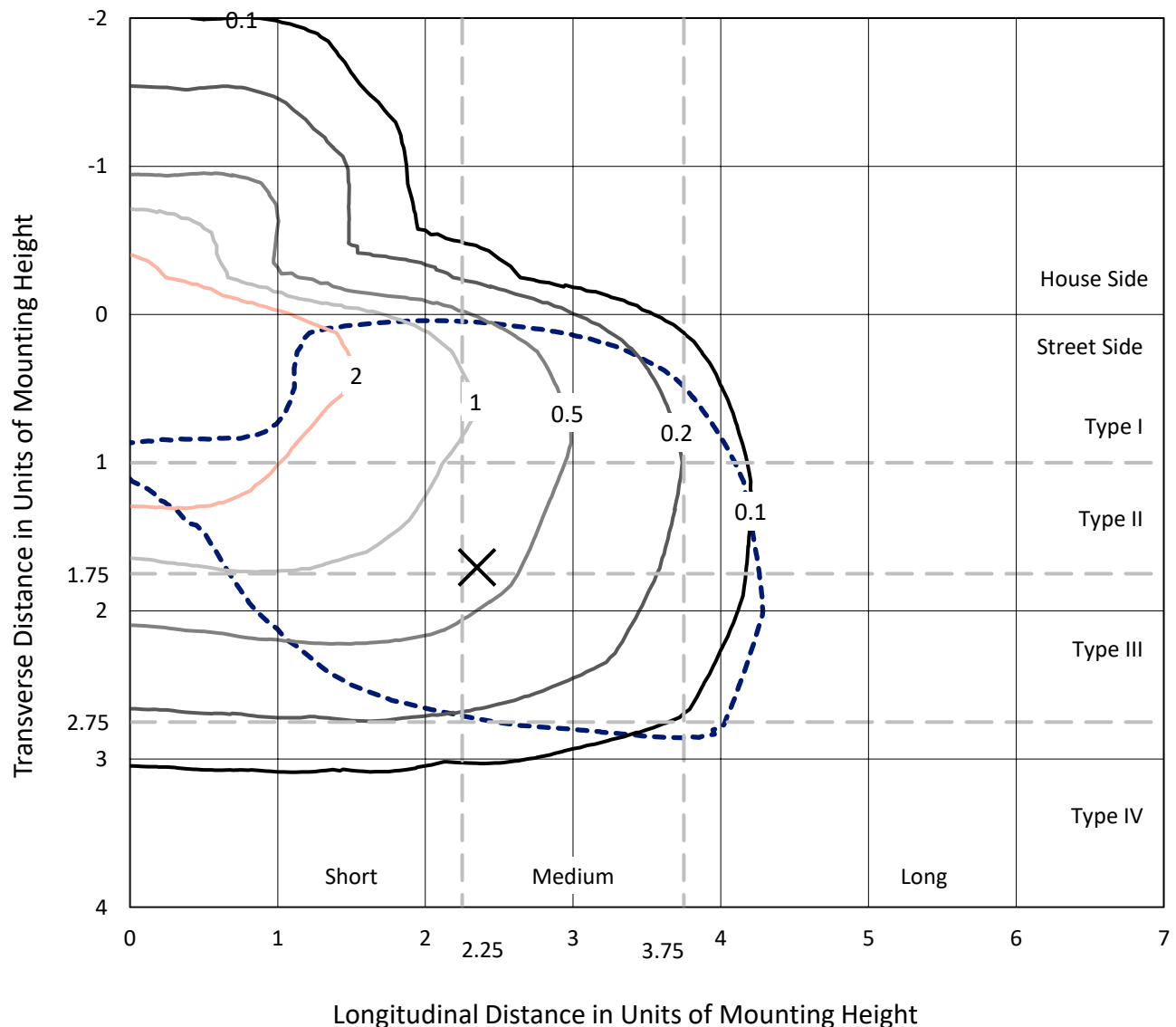


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

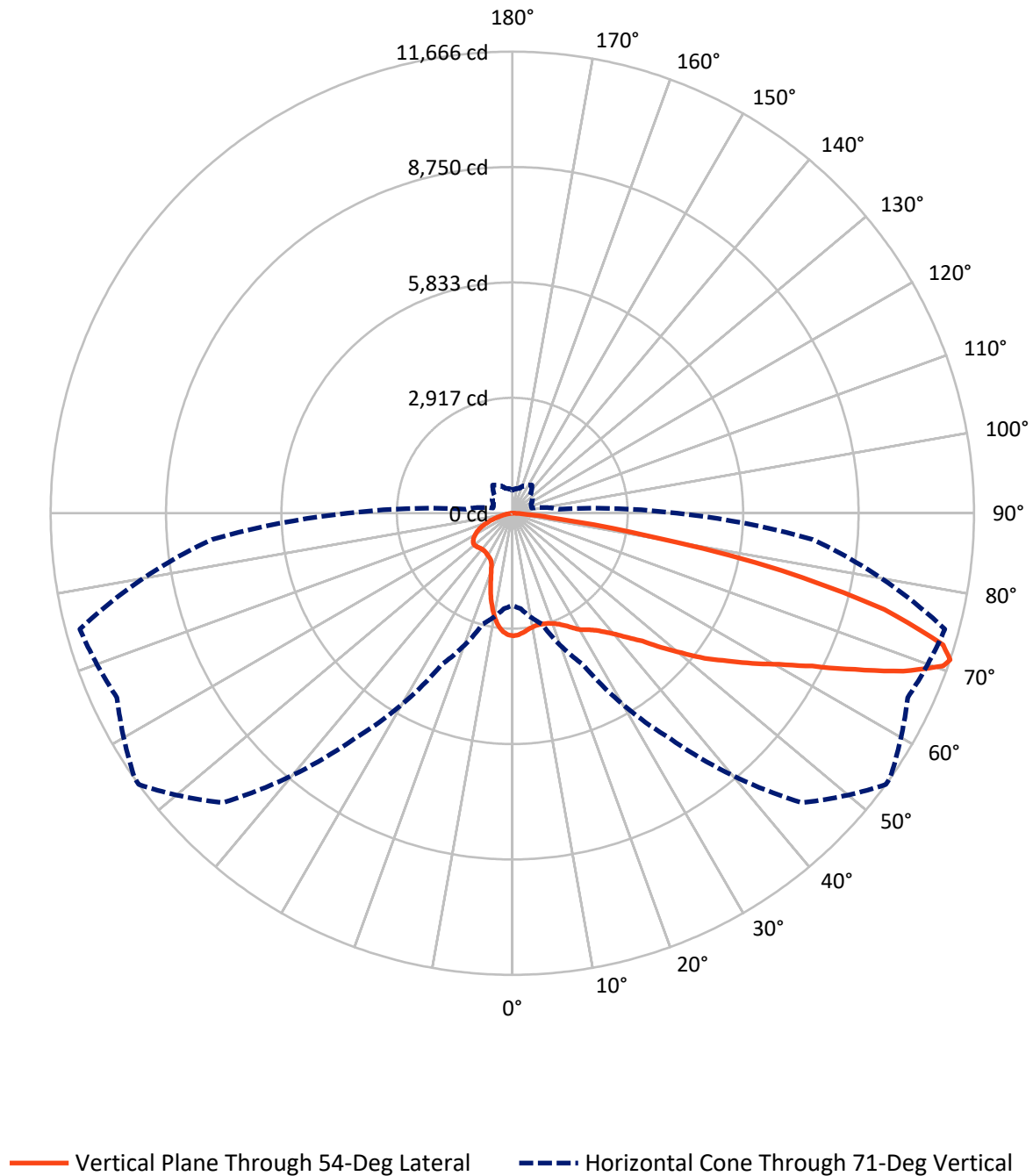


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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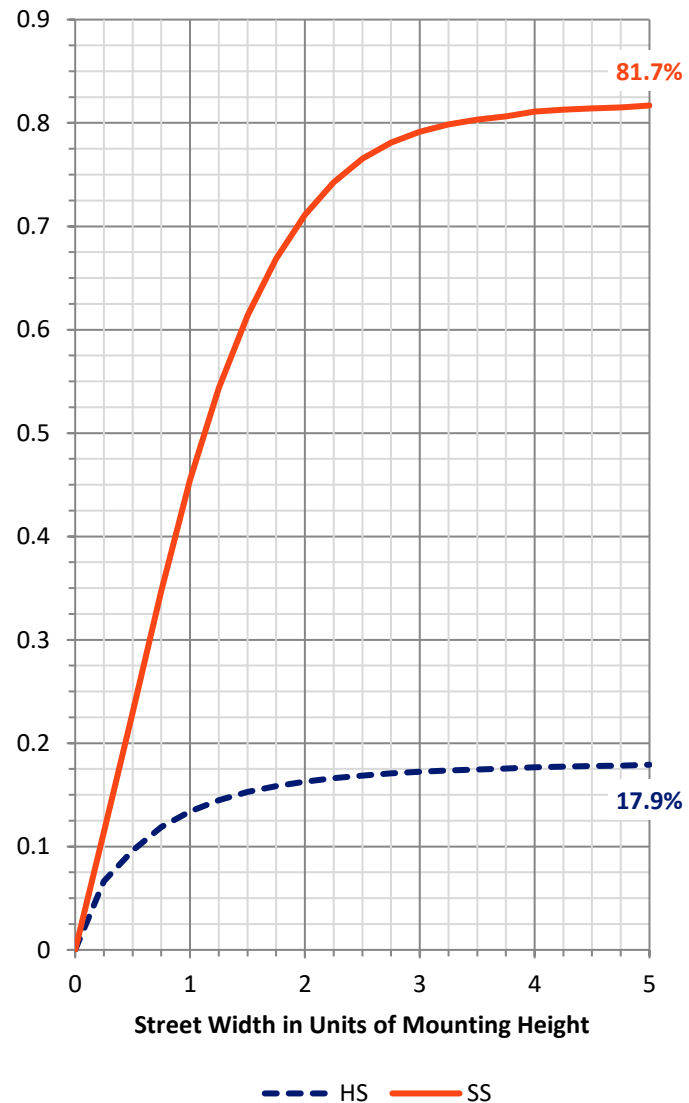
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3136.6	0.0	3136.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	14236.4	0.0	14236.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	17373.0	0.0	17373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	1.6
10°-20°	729.4	4.2
20°-30°	1214.4	7.0
30°-40°	1795.7	10.3
40°-50°	2529.3	14.6
50°-60°	3386.9	19.5
60°-70°	4268.9	24.6
70°-80°	2915.7	16.8
80°-90°	256.4	1.5
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°	17373.0	100.0
0°-180°	17373.0	100.0

Coefficient of Utilization



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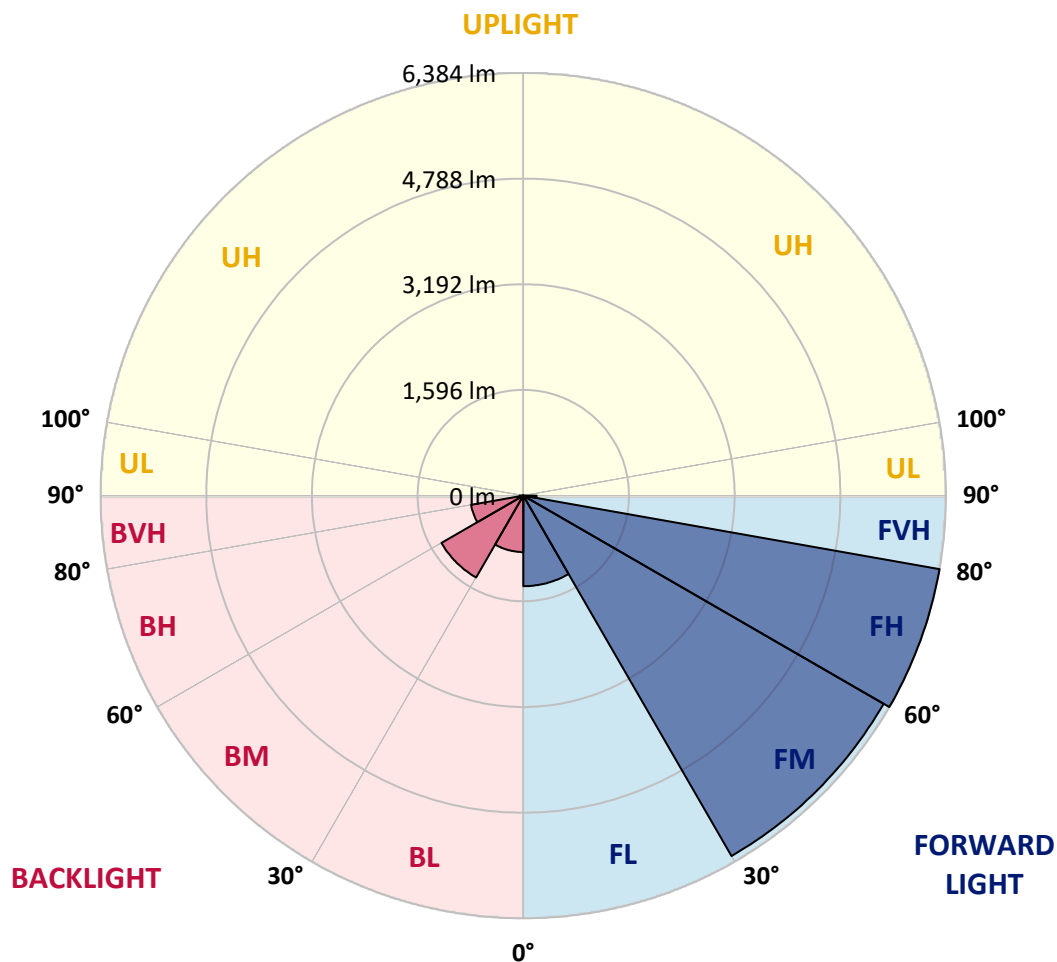
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1367.5	7.9			
FM	(30°-60°)	6284.9	36.2			
FH	(60°-80°)	6383.5	36.7			G3/7500
FVH	(80°-90°)	200.4	1.2			G2/225
BL	(0°-30°)	852.5	4.9	B2/1000		
BM	(30°-60°)	1427.1	8.2	B2/2500		
BH	(60°-80°)	801.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	56.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6
2.5°	2994.5	3008.6	3012.3	3021.7	3041.4	3057.4	3073.3	3071.4	3094.0	3103.4	3111.8
5°	2861.2	2865.0	2879.1	2897.8	2932.6	2976.7	3019.8	3020.8	3076.1	3120.2	3141.8
7.5°	2763.6	2775.8	2785.2	2804.9	2841.5	2889.4	2957.9	2963.5	3062.1	3149.3	3195.3
10°	2699.8	2713.9	2724.2	2748.6	2785.2	2838.7	2912.9	2923.2	3051.7	3195.3	3276.0
12.5°	2641.7	2655.7	2665.1	2697.0	2744.9	2810.6	2894.1	2906.3	3055.5	3248.8	3364.2
15°	2677.3	2688.6	2684.8	2694.2	2726.1	2801.2	2901.6	2913.8	3069.6	3300.4	3451.5
17.5°	2835.9	2845.3	2814.3	2778.7	2763.6	2819.0	2925.1	2938.2	3097.7	3353.9	3540.7
20°	3069.6	3094.9	3027.3	2947.6	2875.3	2882.8	2973.9	2987.9	3137.1	3407.4	3631.7
22.5°	3373.6	3392.4	3309.8	3178.4	3045.2	2976.7	3047.0	3055.5	3196.3	3476.8	3731.2
25°	3731.2	3742.4	3627.9	3459.0	3266.6	3137.1	3147.5	3162.5	3293.9	3555.7	3819.4
27.5°	4078.4	4114.0	3981.7	3775.3	3521.9	3306.1	3285.4	3294.8	3399.9	3599.8	3880.4
30°	4490.3	4487.5	4347.7	4108.4	3783.7	3490.0	3415.8	3414.0	3457.1	3621.4	3924.5
32.5°	4818.8	4857.3	4720.3	4459.4	4083.1	3680.5	3505.9	3502.2	3501.2	3658.9	3990.2
35°	5192.3	5197.9	5072.2	4809.4	4406.8	3919.8	3631.7	3612.9	3591.3	3739.6	4079.3
37.5°	5526.4	5552.6	5437.2	5142.5	4724.9	4168.5	3804.4	3792.2	3726.5	3879.4	4222.0
40°	5787.2	5806.9	5737.5	5456.9	5038.4	4436.8	4023.9	4001.4	3921.7	4108.4	4412.4
42.5°	5872.6	5913.0	5940.2	5802.2	5398.7	4755.0	4294.2	4266.1	4205.1	4455.6	4632.0
45°	5879.2	5943.0	6086.6	6093.2	5761.0	5136.0	4609.5	4589.8	4585.1	4900.4	4940.8
47.5°	5829.5	5894.2	6135.4	6265.8	6083.8	5520.7	5064.7	5033.7	5036.5	5450.3	5287.1
50°	5709.3	5786.3	6079.1	6376.6	6336.2	5920.5	5545.1	5534.8	5593.0	6078.1	5646.5
52.5°	5483.2	5576.1	6020.9	6446.0	6523.9	6264.9	6091.3	6062.2	6209.5	6759.4	6039.7
55°	4857.3	4997.1	5807.9	6484.5	6702.2	6594.3	6583.0	6635.6	6830.8	7502.7	6472.3
57.5°	4530.7	4635.8	5345.2	6491.0	6927.4	6977.2	7157.3	7170.5	7512.1	8291.9	6961.2
60°	4352.4	4445.3	5091.9	6447.9	7241.8	7451.1	7744.8	7791.7	8177.4	9146.8	7467.9
62.5°	4196.6	4276.4	4939.8	6298.7	7596.5	8153.9	8505.8	8528.4	8932.8	10090.8	7968.1
65°	3829.7	3920.7	4633.9	6149.5	7902.4	9032.3	9515.6	9489.3	9737.0	10905.4	8281.6
67.5°	3335.1	3450.6	4062.4	5634.3	8053.5	9992.3	10652.9	10620.1	10530.9	11439.3	8371.6
70°	2703.6	2765.5	3331.4	4743.7	7450.1	10496.2	11551.0	11516.3	11022.7	11509.7	7945.6
71°	2326.3	2423.0	2900.7	4213.5	6948.1	10342.3	11666.4	11657.1	11023.6	11315.5	7624.7
72.5°	1815.8	1875.0	2297.3	3264.8	5905.5	9467.7	11381.2	11416.8	10784.3	10775.9	6963.1
75°	1148.6	1174.9	1441.4	1921.9	3240.4	6705.0	9715.5	9812.1	9575.6	8820.2	5178.2
77.5°	667.2	701.0	863.3	1132.7	1400.1	3639.2	6951.8	7056.9	6653.4	4856.3	2119.9
80°	388.5	426.0	568.7	657.8	642.8	1350.4	3539.7	3719.0	2880.9	1226.5	595.0
82.5°	215.8	241.2	399.8	400.7	342.5	441.1	1113.9	1165.5	822.1	494.5	243.1
85°	156.7	177.4	258.1	233.7	164.2	189.6	387.6	406.3	332.2	208.3	78.8
87.5°	55.4	78.8	141.7	112.6	45.0	39.4	111.7	91.0	84.5	58.2	17.8
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°	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6	3099.6
2.5°	3116.5	3118.4	3109.0	3092.1	3075.2	3053.6	3029.2	3010.5	3002.0	3001.1	3000.1
5°	3150.3	3155.0	3119.3	3066.8	3008.6	2937.3	2876.3	2806.8	2789.0	2760.8	2769.3
7.5°	3204.7	3201.9	3131.5	3019.8	2883.8	2732.7	2605.1	2530.9	2454.0	2432.4	2433.3
10°	3282.6	3264.8	3131.5	2924.1	2697.0	2472.7	2294.4	2181.8	2120.8	2070.2	2051.4
12.5°	3365.2	3320.1	3101.5	2789.9	2456.8	2181.8	1990.4	1838.4	1799.0	1757.7	1758.6
15°	3444.0	3368.9	3042.4	2601.3	2197.8	1871.2	1685.4	1594.4	1582.2	1586.9	1585.9
17.5°	3515.3	3403.6	2952.3	2391.1	1895.6	1604.7	1506.2	1512.7	1545.6	1569.0	1571.9
20°	3587.6	3424.3	2818.1	2109.6	1610.3	1443.3	1447.0	1498.7	1548.4	1580.3	1585.0
22.5°	3656.1	3433.7	2660.4	1837.4	1403.9	1374.8	1430.2	1485.5	1534.3	1565.3	1570.0
25°	3701.1	3412.1	2437.1	1553.1	1302.5	1350.4	1408.6	1455.5	1496.8	1528.7	1536.2
27.5°	3713.3	3342.7	2160.2	1323.2	1255.6	1326.9	1380.4	1415.1	1447.0	1477.1	1482.7
30°	3706.8	3240.4	1856.2	1188.0	1228.4	1299.7	1341.0	1366.3	1404.8	1428.3	1433.0
32.5°	3696.4	3121.2	1539.0	1115.8	1205.9	1274.4	1298.8	1321.3	1320.4	1311.0	1317.5
35°	3700.2	2978.5	1281.9	1072.6	1186.2	1255.6	1276.3	1248.1	1167.4	1163.6	1159.9
37.5°	3719.9	2837.8	1095.1	1042.6	1175.8	1252.8	1264.1	1134.5	1063.2	1030.4	1021.9
40°	3770.6	2673.6	972.2	1020.1	1174.9	1274.4	1208.7	1077.3	940.3	876.5	871.8
42.5°	3838.1	2512.1	897.1	1006.0	1186.2	1307.2	1186.2	996.6	847.4	809.9	804.2
45°	3938.5	2327.3	855.8	999.4	1203.1	1319.4	1178.7	937.5	809.9	779.8	779.8
47.5°	4052.1	2150.9	833.3	994.7	1224.6	1311.0	1112.0	918.7	792.0	795.8	813.6
50°	4164.7	1997.9	816.4	984.4	1243.4	1306.3	1084.8	917.8	796.7	844.6	876.5
52.5°	4295.1	1890.0	795.8	967.5	1243.4	1276.3	1076.4	936.5	809.9	823.9	838.0
55°	4452.8	1856.2	769.5	930.9	1220.9	1201.2	1071.7	963.8	819.2	786.4	792.0
57.5°	4661.1	1910.6	744.2	884.9	1169.3	1123.3	1069.8	971.3	797.7	770.4	764.8
60°	4903.2	2018.5	736.7	838.0	1098.9	1056.7	1058.5	949.7	767.6	739.5	744.2
62.5°	5073.1	2083.3	732.0	802.3	1021.9	983.5	1031.3	923.4	754.5	730.1	734.8
65°	5073.1	2004.5	688.8	747.9	922.5	895.3	998.5	890.6	737.6	709.4	704.8
67.5°	4880.7	1774.6	623.1	666.3	812.7	794.8	952.5	851.1	712.3	690.7	679.4
70°	4379.6	1345.7	540.5	570.6	673.8	689.7	893.4	797.7	670.0	643.8	626.9
71°	4159.1	1172.1	505.8	521.8	620.3	643.8	865.2	775.1	651.3	613.7	583.7
72.5°	3734.0	987.2	453.3	459.8	530.2	572.4	806.1	732.0	615.6	562.1	528.3
75°	2836.8	720.7	365.0	361.3	392.3	454.2	682.2	652.2	539.6	467.3	447.6
77.5°	1225.6	392.3	273.1	275.9	266.5	344.4	536.8	560.2	462.6	380.1	362.2
80°	371.6	226.2	186.7	190.5	178.3	230.9	378.2	439.2	371.6	295.6	271.2
82.5°	190.5	135.1	127.6	125.7	113.5	130.4	229.0	300.3	265.6	184.9	163.3
85°	82.6	72.3	62.9	61.0	53.5	46.9	81.6	150.1	140.8	103.2	98.5
87.5°	20.6	18.8	12.2	11.3	6.6	0.9	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)