

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: P319119

Luminaire Tested: **GAN-SA5B-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28362 lumens
Efficiency: N/A
Efficacy: 135.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

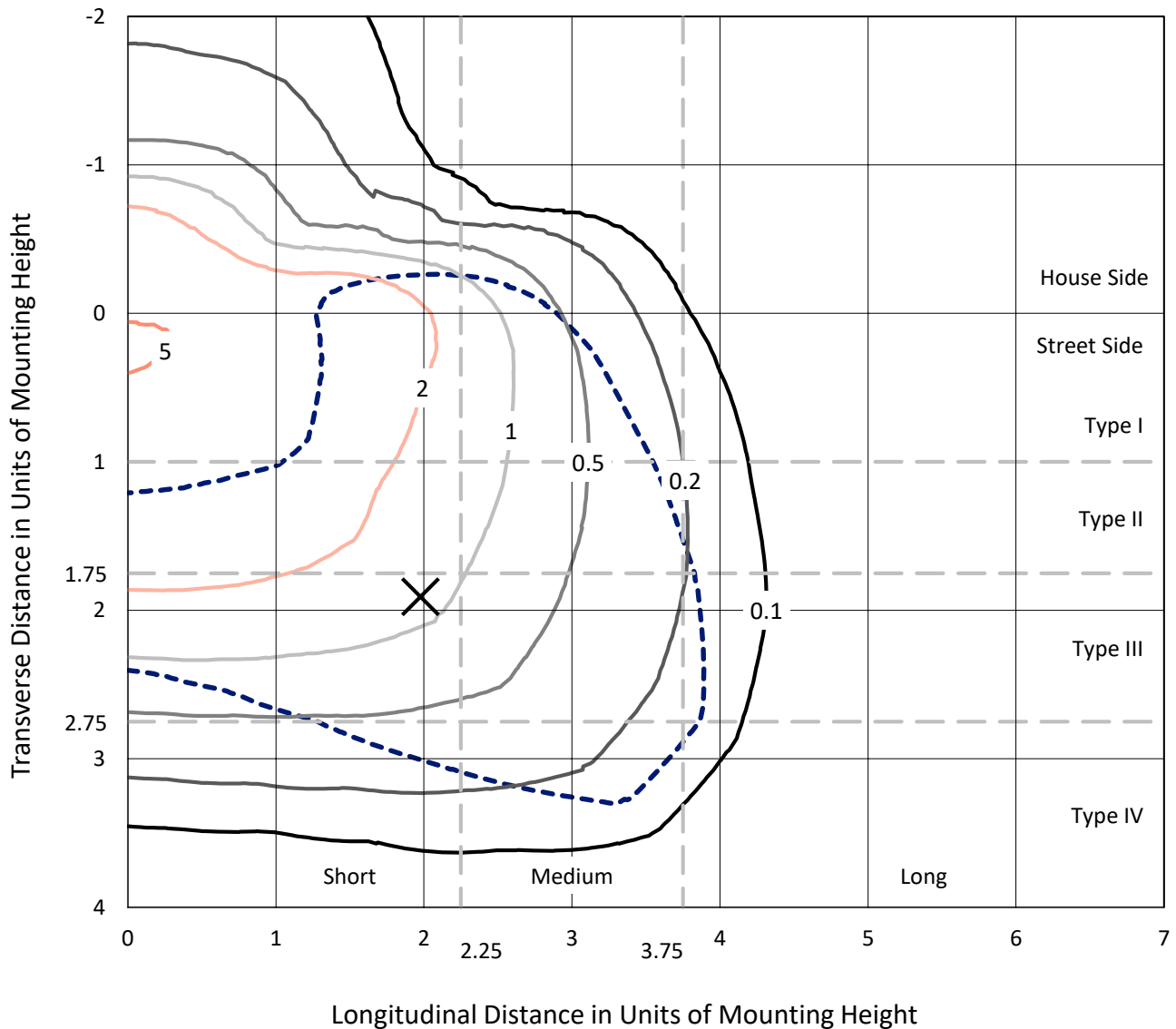
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

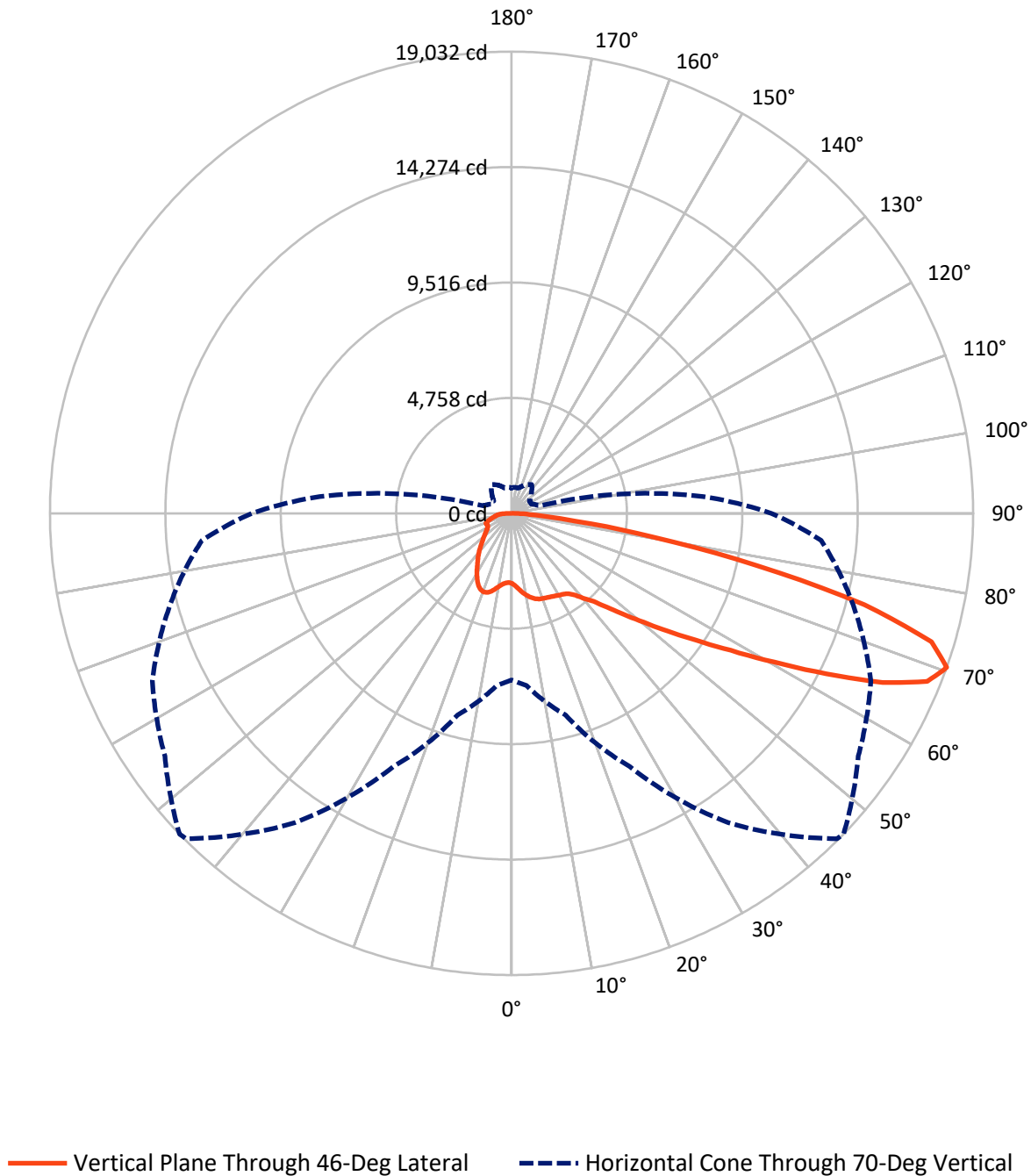
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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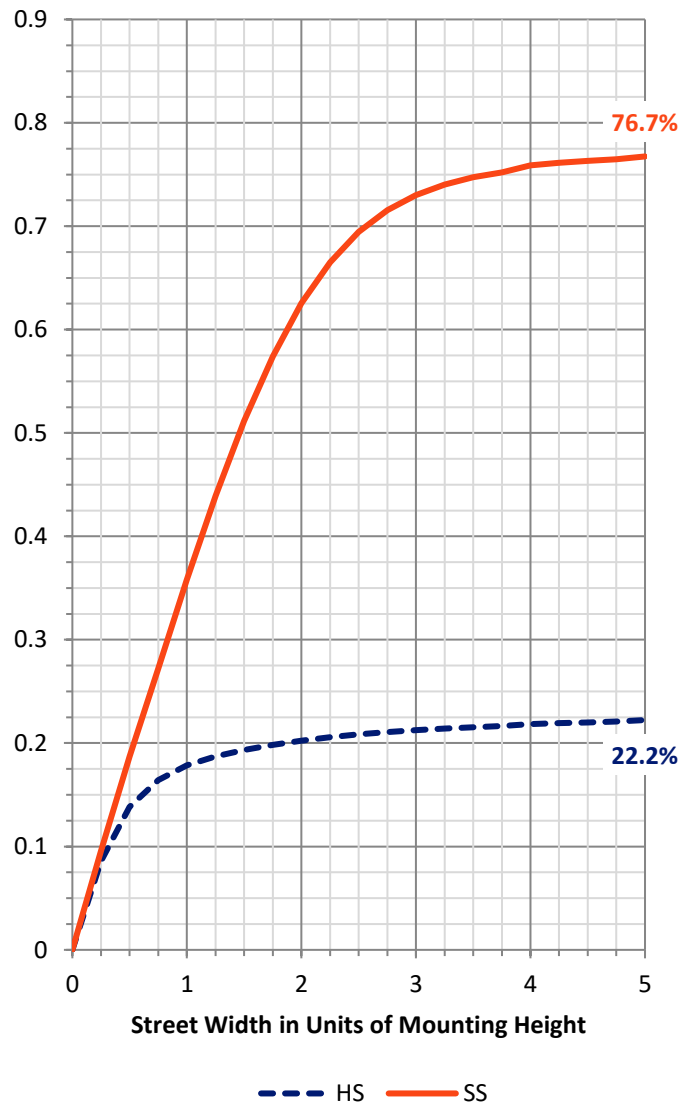
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6500.5	0.0	6500.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	21861.5	0.0	21861.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	28362.0	0.0	28362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	1.0
10°-20°	981.4	3.5
20°-30°	1636.4	5.8
30°-40°	2322.1	8.2
40°-50°	3415.7	12.0
50°-60°	5784.5	20.4
60°-70°	8211.0	29.0
70°-80°	4988.3	17.6
80°-90°	728.0	2.6
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°	28362.0	100.0
0°-180°	28362.0	100.0

Coefficient of Utilization



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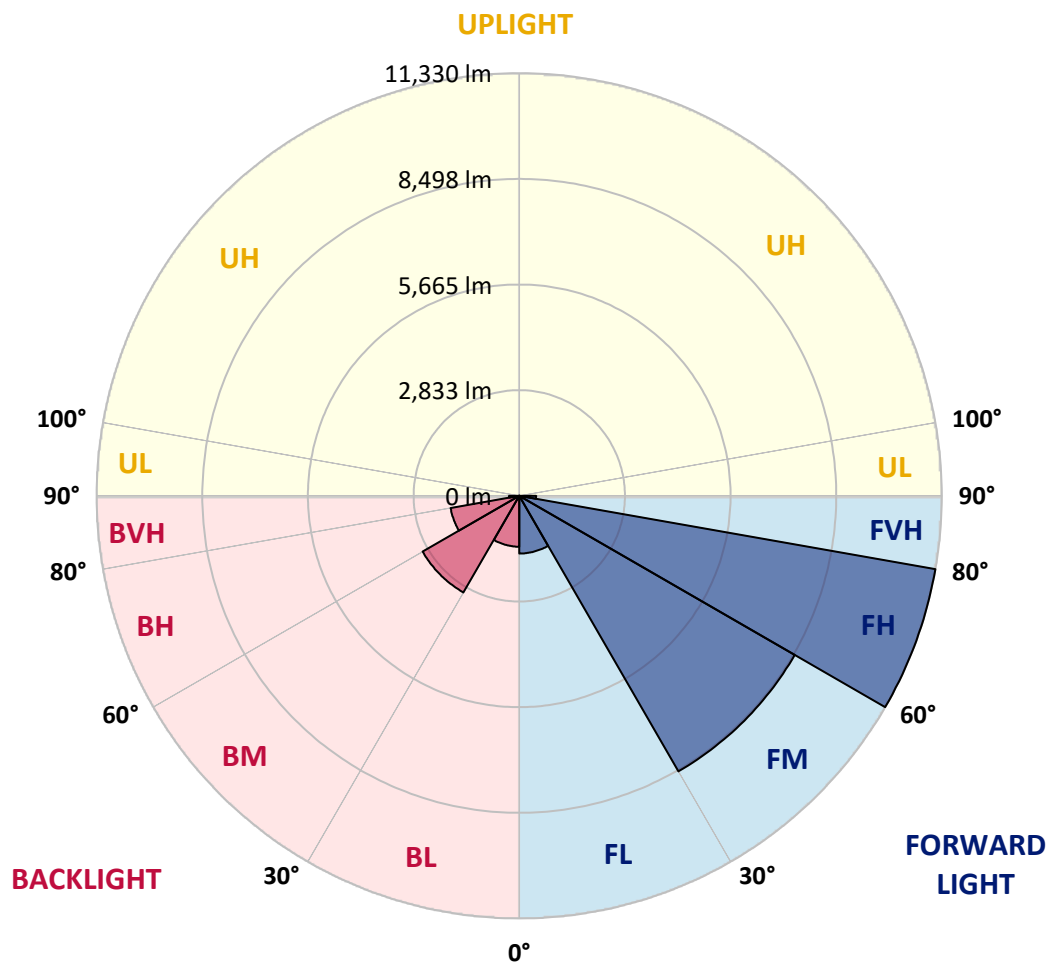
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1547.6	5.5			
FM	(30°-60°)	8530.0	30.1			
FH	(60°-80°)	11330.5	39.9			G4/12000
FVH	(80°-90°)	453.5	1.6			G3/500
BL	(0°-30°)	1364.8	4.8	B3/2500		
BM	(30°-60°)	2992.3	10.6	B3/5000		
BH	(60°-80°)	1868.8	6.6	B3/2500		G3/2500
BVH	(80°-90°)	274.5	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5
2.5°	3034.2	3036.1	3040.0	3030.3	3003.1	2995.3	2992.4	2964.3	2945.8	2918.7	2895.4
5°	3276.8	3278.8	3272.9	3245.7	3185.6	3140.9	3137.0	3073.0	3014.7	2952.6	2906.0
7.5°	3530.1	3533.1	3514.6	3463.2	3378.7	3301.1	3296.2	3208.9	3120.5	3026.4	2956.5
10°	3754.4	3742.7	3712.6	3640.8	3540.8	3445.7	3441.8	3350.6	3248.7	3135.1	3041.9
12.5°	3903.8	3894.1	3855.3	3767.9	3658.3	3570.9	3563.1	3478.7	3379.7	3255.5	3143.8
15°	3986.3	3993.1	3940.7	3841.7	3734.9	3661.2	3654.4	3594.2	3505.9	3380.7	3252.5
17.5°	3997.0	4002.8	3952.4	3854.3	3767.0	3716.5	3713.6	3673.8	3609.7	3489.4	3355.4
20°	3934.9	3938.8	3897.0	3816.5	3759.2	3743.7	3742.7	3725.2	3677.7	3570.9	3440.8
22.5°	3844.6	3847.5	3817.4	3759.2	3739.8	3764.1	3770.9	3764.1	3730.1	3630.1	3507.8
25°	3822.3	3820.4	3789.3	3730.1	3746.6	3798.0	3806.8	3809.7	3786.4	3699.0	3593.2
27.5°	3930.0	3923.2	3864.0	3768.9	3779.6	3841.7	3853.4	3881.5	3866.9	3790.3	3690.3
30°	4241.6	4230.0	4108.6	3916.4	3864.0	3896.1	3910.6	3955.3	3958.2	3894.1	3819.4
32.5°	4767.7	4753.1	4535.7	4192.1	4006.7	3951.4	3965.0	4032.0	4067.9	4018.4	3937.8
35°	5432.6	5416.1	5130.7	4660.9	4245.5	4057.2	4066.9	4120.3	4192.1	4122.2	4015.5
37.5°	6125.6	6085.8	5811.1	5212.2	4625.0	4283.3	4283.3	4290.1	4324.1	4178.5	4106.7
40°	6814.7	6774.9	6526.4	5860.6	5116.1	4639.6	4617.2	4466.8	4439.6	4314.4	4290.1
42.5°	7455.3	7443.7	7297.1	6593.4	5692.7	4990.0	4958.9	4703.6	4709.4	4631.8	4632.8
45°	8136.7	8136.7	8017.3	7333.0	6364.3	5552.9	5521.9	5146.2	5204.5	5168.5	5254.9
47.5°	8692.9	8710.3	8693.8	8103.7	7145.7	6268.3	6212.0	5759.7	5922.7	6046.0	6297.4
50°	9260.7	9287.9	9290.8	8949.1	8090.1	7118.5	7054.5	6574.0	6938.0	7291.3	7785.3
52.5°	10084.7	10145.9	9902.3	9792.6	9247.1	8128.0	8064.9	7621.3	8228.9	8724.9	9576.1
55°	10848.6	10795.2	10621.5	10689.4	10485.6	9277.2	9229.6	8840.4	9667.4	10311.9	11417.4
57.5°	11262.1	11258.2	11432.9	11724.1	11821.2	10694.3	10654.5	10275.9	11289.3	11773.6	13146.1
60°	11747.4	11754.2	12187.1	12848.1	13248.0	12458.9	12441.4	12154.1	12864.6	13138.3	14502.0
62.5°	11815.3	11937.6	12683.1	13820.6	14583.5	14520.5	14559.3	13845.9	14273.9	14227.3	15514.4
65°	11034.0	11195.1	12544.3	14114.7	15911.4	16775.2	16811.1	15547.4	15385.3	15158.2	15876.4
67.5°	9432.5	9671.2	11136.9	13475.1	16349.1	18441.8	18492.2	16866.4	16307.4	15473.6	15004.8
70°	6864.2	7129.2	8604.5	11508.6	15568.7	18974.6	19031.9	17449.8	16342.3	14575.8	12809.3
72.5°	4146.5	4354.2	5570.4	8472.5	13140.2	18004.0	18105.9	16710.2	14920.4	12346.3	9458.7
75°	1820.9	1956.8	2693.5	4882.2	9407.2	14896.1	15023.2	14303.0	12123.0	8972.4	5590.8
77.5°	775.5	814.3	1104.6	2120.8	5318.0	10178.9	10353.6	10450.7	8225.0	4882.2	2362.5
80°	483.4	498.9	625.1	959.9	2488.7	5716.9	5905.2	6148.9	4084.4	1794.7	825.0
82.5°	294.1	311.6	415.4	580.4	1295.8	2591.6	2681.8	2853.6	1585.0	775.5	427.1
85°	176.7	189.3	254.3	366.9	737.7	1019.1	1018.2	1125.9	746.4	498.9	225.2
87.5°	84.4	94.2	135.9	190.2	371.7	382.4	358.2	405.7	453.3	327.1	113.6
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°	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5	2889.5
2.5°	2887.6	2883.7	2871.1	2861.4	2859.4	2853.6	2848.8	2851.7	2855.6	2856.5	2856.5
5°	2886.6	2875.9	2859.4	2852.6	2861.4	2873.0	2887.6	2907.0	2918.7	2927.4	2933.2
7.5°	2933.2	2912.8	2894.4	2890.5	2908.0	2939.0	2972.0	3012.8	3040.9	3060.4	3064.2
10°	3010.9	2985.6	2967.2	2971.1	3002.1	3046.8	3093.4	3145.8	3188.5	3214.7	3216.6
12.5°	3100.2	3075.9	3058.4	3074.9	3126.4	3180.7	3229.2	3274.9	3313.7	3339.9	3339.9
15°	3203.0	3185.6	3165.2	3203.0	3272.9	3321.5	3341.8	3364.2	3385.5	3404.9	3401.0
17.5°	3302.0	3285.5	3274.9	3319.5	3392.3	3414.6	3401.0	3384.5	3384.5	3395.2	3397.2
20°	3387.5	3372.9	3379.7	3423.4	3461.2	3437.9	3387.5	3335.0	3313.7	3319.5	3325.3
22.5°	3462.2	3455.4	3475.8	3496.2	3469.0	3387.5	3294.3	3223.4	3197.2	3195.3	3197.2
25°	3549.6	3548.6	3573.8	3536.9	3416.6	3266.1	3140.9	3072.0	3057.4	3069.1	3088.5
27.5°	3658.3	3668.9	3681.6	3546.6	3309.8	3082.7	2955.5	2908.0	2922.5	2950.7	2969.1
30°	3797.1	3826.2	3799.0	3522.4	3156.5	2873.0	2751.7	2738.1	2777.9	2817.7	2837.1
32.5°	3932.0	3977.6	3911.6	3459.3	2958.4	2650.8	2556.6	2552.7	2601.3	2640.1	2667.3
35°	4040.7	4131.0	3996.0	3334.1	2729.4	2446.0	2377.0	2350.8	2368.3	2413.9	2445.0
37.5°	4182.4	4332.8	4054.3	3142.9	2480.9	2277.1	2196.5	2136.3	2120.8	2139.2	2154.8
40°	4441.6	4640.5	4081.5	2875.9	2238.2	2108.2	2026.7	1938.3	1877.2	1832.5	1833.5
42.5°	4864.7	5041.4	4064.0	2551.8	2014.0	1943.2	1851.0	1749.1	1650.1	1549.1	1541.3
45°	5551.9	5637.4	4011.6	2208.2	1817.0	1770.4	1684.0	1582.1	1450.1	1335.6	1324.9
47.5°	6651.7	6462.4	3930.0	1908.2	1643.3	1623.8	1544.3	1426.8	1287.0	1194.8	1187.1
50°	8151.3	7653.3	3890.2	1669.5	1489.9	1495.7	1430.7	1306.5	1174.4	1106.5	1098.7
52.5°	9945.0	9040.3	3966.9	1485.0	1366.6	1387.0	1338.5	1222.0	1111.4	1058.0	1050.2
55°	11805.6	10476.9	4049.4	1351.1	1250.2	1290.0	1273.5	1177.4	1077.4	1027.9	1021.1
57.5°	13398.4	11549.4	3884.4	1242.4	1146.3	1208.4	1223.0	1149.2	1059.9	1015.3	1007.5
60°	14401.1	11981.3	3451.5	1140.5	1063.8	1143.4	1193.9	1141.4	1066.7	1062.8	1057.0
62.5°	14876.7	11943.5	2802.2	1059.9	1012.4	1115.2	1215.2	1185.1	1144.4	1179.3	1182.2
65°	14663.1	11372.7	2086.8	1006.5	975.5	1125.9	1279.3	1267.6	1166.7	1201.6	1206.5
67.5°	13257.7	10011.0	1545.2	959.9	934.7	1156.0	1395.8	1294.8	1123.0	1148.2	1132.7
70°	10715.6	7936.8	1191.9	907.5	893.0	1152.1	1448.2	1278.3	1075.4	1081.3	1039.5
72.5°	7389.3	5412.2	969.6	859.0	832.8	1050.2	1411.3	1237.5	1035.7	991.0	935.7
75°	4018.4	2905.1	824.1	808.5	727.0	922.1	1343.3	1208.4	999.7	940.5	909.5
77.5°	1581.1	1205.5	715.3	739.6	635.8	814.3	1267.6	1153.1	950.2	872.6	857.1
80°	645.5	615.4	593.0	639.6	546.5	712.4	1176.4	1088.1	891.0	809.5	778.4
82.5°	365.9	382.4	461.0	504.7	443.6	656.1	1132.7	1035.7	820.2	725.1	688.2
85°	187.3	224.2	321.3	362.0	326.1	558.1	1043.4	906.6	658.1	555.2	558.1
87.5°	90.3	125.2	202.9	227.1	211.6	403.8	779.4	657.1	512.5	405.7	393.1
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)