

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: P318559

Luminaire Tested: **GAN-SA5B-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22701 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - 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

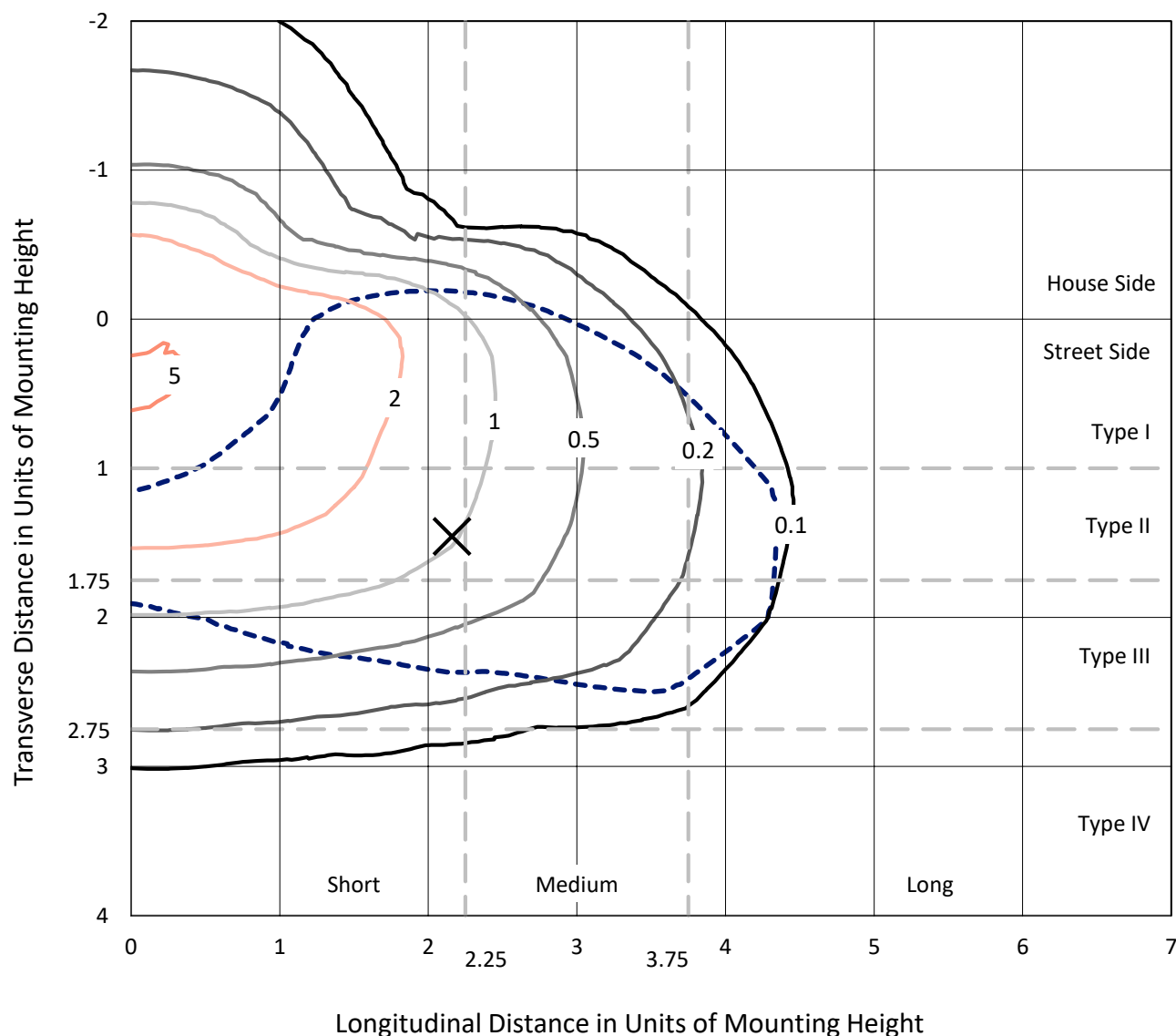


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

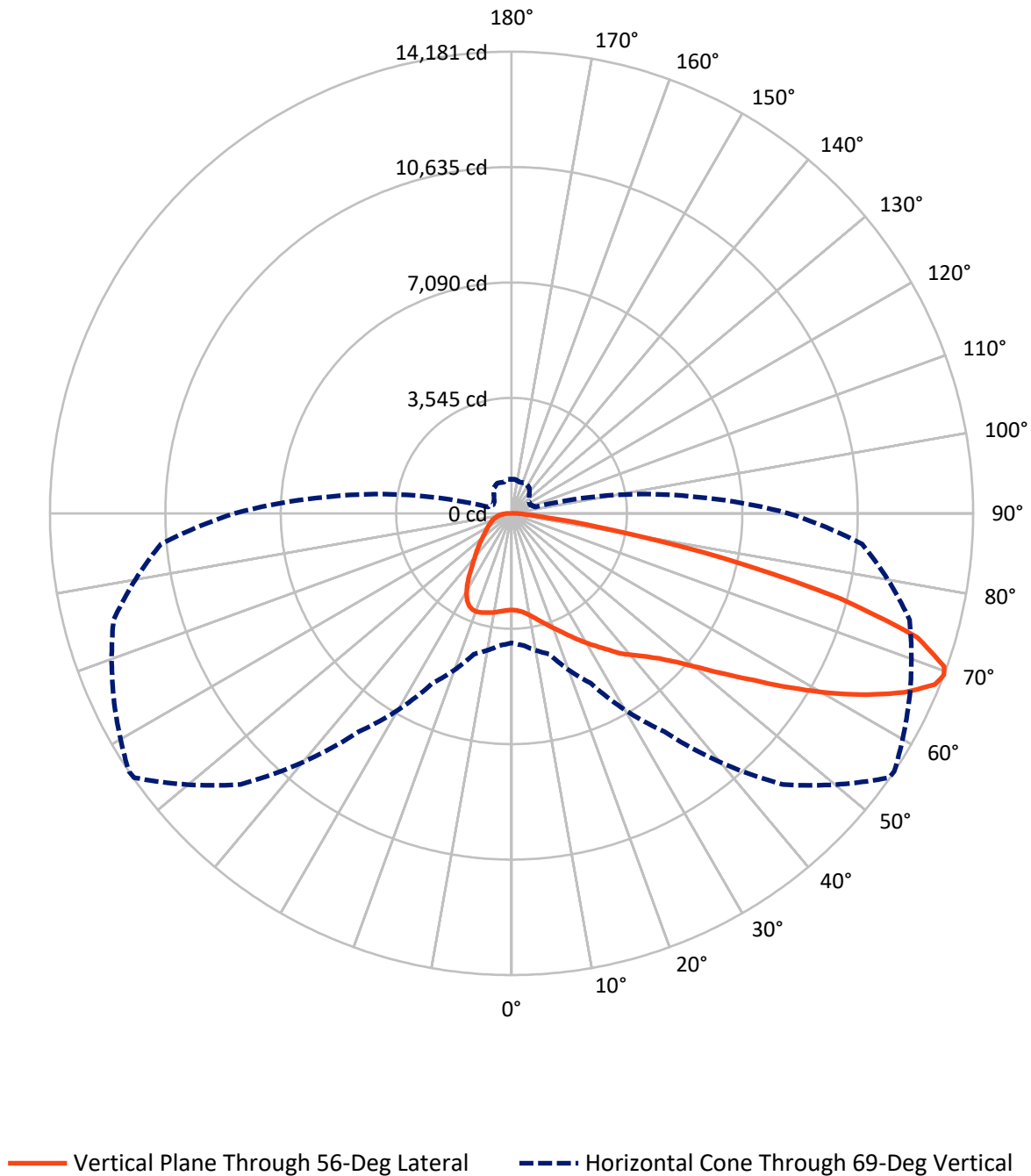
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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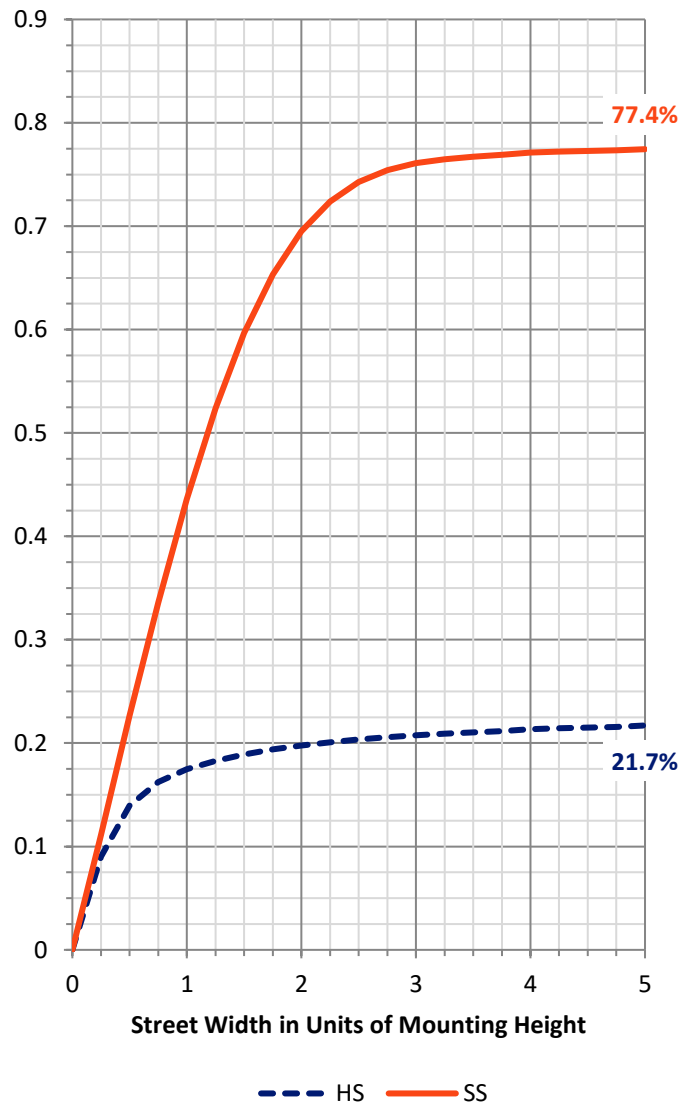
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5055.5	0.0	5055.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	17645.5	0.0	17645.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	22701.0	0.0	22701.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.5	1.3
10°-20°	937.3	4.1
20°-30°	1636.2	7.2
30°-40°	2350.3	10.4
40°-50°	3252.7	14.3
50°-60°	4765.6	21.0
60°-70°	5810.2	25.6
70°-80°	3212.3	14.2
80°-90°	444.9	2.0
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°	22701.0	100.0
0°-180°	22701.0	100.0

Coefficient of Utilization



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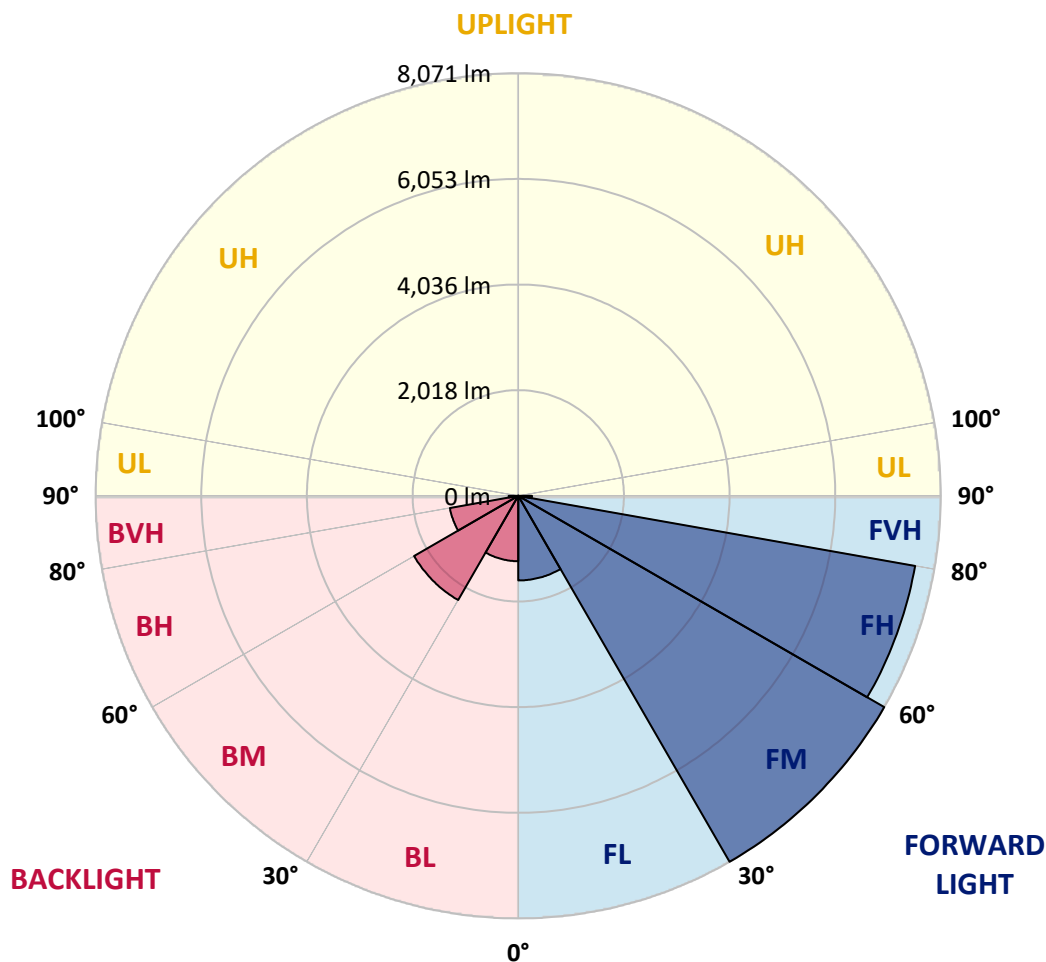
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1615.6	7.1			
FM	(30°-60°)	8071.1	35.6			
FH	(60°-80°)	7696.8	33.9			G4/12000
FVH	(80°-90°)	262.1	1.2			G3/500
BL	(0°-30°)	1249.3	5.5	B3/2500		
BM	(30°-60°)	2297.6	10.1	B2/2500		
BH	(60°-80°)	1325.7	5.8	B3/2500		G3/2500
BVH	(80°-90°)	182.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8
2.5°	2986.6	2989.7	2987.4	2993.6	2986.6	2991.3	2987.4	2987.4	2985.0	2978.0	2970.2
5°	3033.5	3039.8	3035.9	3042.1	3033.5	3035.1	3028.0	3028.0	3021.0	3006.1	2990.5
7.5°	3107.0	3114.1	3110.9	3117.2	3105.5	3105.5	3096.1	3095.3	3081.2	3057.0	3039.0
10°	3194.6	3204.0	3200.9	3210.2	3200.9	3204.0	3194.6	3194.6	3175.8	3141.4	3118.7
12.5°	3322.1	3333.8	3325.2	3324.4	3320.5	3326.8	3318.9	3317.4	3300.2	3253.3	3222.0
15°	3492.6	3505.1	3487.1	3485.5	3463.6	3461.3	3461.3	3458.9	3448.0	3391.7	3340.1
17.5°	3688.8	3692.8	3677.1	3652.1	3623.9	3606.0	3603.6	3609.9	3609.9	3544.2	3462.1
20°	3881.2	3888.3	3875.8	3847.6	3811.6	3785.0	3766.3	3778.8	3778.0	3699.8	3583.3
22.5°	4090.8	4107.2	4088.5	4052.5	4010.3	3980.5	3947.7	3958.6	3959.4	3863.2	3702.1
25°	4362.2	4347.3	4335.6	4284.8	4224.5	4194.0	4163.5	4174.5	4171.4	4039.2	3824.9
27.5°	4602.3	4605.4	4589.7	4535.8	4466.2	4398.9	4397.4	4404.4	4392.7	4222.2	3940.7
30°	4881.4	4883.0	4861.1	4812.6	4736.8	4650.0	4629.6	4641.4	4616.3	4395.8	4062.7
32.5°	5159.1	5166.9	5142.6	5084.0	5023.0	4917.4	4876.8	4884.6	4822.0	4573.3	4188.6
35°	5402.3	5413.2	5405.4	5366.3	5299.8	5209.1	5160.6	5155.9	5078.5	4790.7	4355.1
37.5°	5650.2	5660.4	5651.8	5618.9	5592.3	5496.1	5470.3	5470.3	5335.8	5012.8	4567.1
40°	5905.1	5920.8	5910.6	5865.2	5842.6	5798.8	5737.0	5722.1	5576.7	5279.5	4912.7
42.5°	6142.1	6162.4	6203.1	6176.5	6130.4	6136.6	6012.3	6004.4	5898.1	5673.6	5346.8
45°	6478.4	6508.1	6576.9	6556.6	6547.2	6512.8	6365.0	6357.9	6317.3	6203.9	5885.6
47.5°	6845.1	6885.8	7010.1	7014.1	7114.9	7050.0	6849.0	6824.8	6834.2	6838.9	6543.3
50°	7183.0	7227.5	7431.7	7527.8	7765.6	7779.7	7458.2	7436.3	7473.1	7581.0	7309.7
52.5°	7452.8	7509.1	7764.0	8061.2	8468.6	8584.4	8208.2	8191.8	8219.2	8405.3	8176.2
55°	7650.6	7711.6	7989.2	8530.4	9181.1	9385.2	9071.6	9055.9	9073.1	9310.1	9118.5
57.5°	7696.8	7711.6	8114.4	8846.4	9782.4	10272.8	10128.1	10096.8	10012.4	10218.8	10158.6
60°	7480.1	7539.6	8011.1	8957.4	10247.8	11147.9	11232.3	11193.2	10956.3	11125.2	11076.7
62.5°	7040.6	7147.0	7625.6	8788.5	10430.0	11862.7	12315.5	12268.5	11860.3	11969.8	11736.7
65°	6322.7	6368.1	6870.9	8205.9	10198.5	12320.1	13281.3	13257.8	12744.0	12572.7	11858.7
67.5°	5038.6	5123.9	5550.9	6988.2	9251.4	12266.2	14028.1	14025.8	13321.1	12796.4	11426.3
69°	3980.5	4068.9	4475.6	5756.5	8186.3	11772.7	14153.2	14180.6	13483.8	12660.3	10808.5
70°	3173.5	3275.9	3555.1	4848.6	7240.8	11122.1	14049.2	14098.5	13452.5	12435.9	10238.4
72.5°	1350.6	1433.5	1632.1	2499.4	4413.0	8305.2	12845.7	13031.8	12727.6	11381.7	8461.6
75°	589.7	615.5	705.4	1019.0	1959.0	4520.1	10063.2	10407.3	10882.8	9620.6	6303.2
77.5°	431.7	442.6	491.9	598.3	879.0	1707.2	6471.3	6671.5	7848.5	7000.8	3866.4
80°	333.9	341.7	380.1	439.5	574.0	690.5	2951.4	3123.4	4413.0	3595.8	1610.2
82.5°	265.9	271.4	298.0	323.8	396.5	418.4	979.9	1087.0	1629.0	993.2	426.2
85°	247.1	253.4	262.8	236.2	254.2	245.6	423.9	443.4	491.9	390.2	178.3
87.5°	111.8	132.2	260.4	183.8	135.3	107.9	173.6	181.4	204.1	204.9	79.0
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°	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8	2967.8
2.5°	2974.9	2972.5	2976.4	2967.0	2978.8	2978.0	2974.1	2975.6	2983.5	2982.7	2983.5
5°	2992.8	2991.3	2996.0	2988.9	3003.0	3007.7	3008.5	3015.5	3024.1	3026.5	3026.5
7.5°	3038.2	3038.2	3040.5	3031.2	3040.5	3039.8	3035.9	3042.9	3051.5	3052.3	3051.5
10°	3116.4	3117.2	3113.3	3089.0	3081.2	3060.1	3040.5	3041.3	3052.3	3060.9	3063.2
12.5°	3214.9	3211.8	3194.6	3150.0	3117.2	3074.2	3053.8	3053.1	3064.0	3071.0	3073.4
15°	3327.5	3318.9	3274.4	3201.6	3143.8	3101.5	3068.7	3060.9	3054.6	3046.8	3047.6
17.5°	3433.9	3414.4	3340.1	3239.2	3178.2	3121.9	3058.5	3007.7	2972.5	2952.2	2945.9
20°	3541.8	3503.5	3396.4	3274.4	3196.9	3094.5	2972.5	2869.3	2805.2	2775.4	2770.0
22.5°	3640.4	3578.6	3448.8	3311.1	3182.1	3002.2	2810.6	2660.5	2571.3	2531.4	2534.6
25°	3736.6	3650.5	3503.5	3336.9	3107.0	2839.6	2585.4	2400.8	2297.6	2253.0	2251.5
27.5°	3821.0	3723.3	3562.9	3315.8	2967.0	2608.1	2318.7	2138.9	2052.8	2014.5	2008.3
30°	3918.0	3814.8	3641.9	3235.3	2762.1	2340.6	2058.3	1931.6	1870.6	1832.3	1825.3
32.5°	4036.1	3939.1	3706.8	3089.0	2500.2	2061.4	1855.0	1766.6	1711.1	1668.1	1660.3
35°	4208.1	4103.3	3723.3	2879.4	2212.4	1840.9	1705.6	1614.9	1539.8	1484.3	1478.8
37.5°	4424.0	4309.0	3685.7	2608.1	1933.2	1697.8	1581.3	1469.4	1371.7	1293.5	1281.0
40°	4735.2	4561.6	3581.7	2295.3	1727.5	1587.5	1460.1	1332.6	1211.4	1119.9	1101.9
42.5°	5109.0	4858.0	3422.2	1984.0	1576.6	1475.7	1339.6	1181.7	1065.9	1001.0	991.6
45°	5584.5	5166.1	3200.9	1711.9	1428.0	1363.9	1209.8	1064.3	992.4	944.7	936.9
47.5°	6127.2	5511.8	2968.6	1490.6	1302.1	1259.1	1105.8	1012.0	954.9	917.3	910.3
50°	6794.3	5902.0	2722.3	1309.1	1175.4	1133.2	1056.5	983.0	937.7	908.7	901.7
52.5°	7546.6	6342.3	2544.7	1166.0	1070.6	1040.1	1030.7	967.4	930.6	908.7	901.7
55°	8356.8	6790.4	2353.1	1045.6	979.9	988.5	1013.5	968.9	943.9	917.3	907.2
57.5°	9167.8	7253.4	2139.6	943.9	907.9	950.2	1001.8	972.1	951.0	925.1	915.8
60°	9809.0	7546.6	1808.8	858.7	850.9	907.9	973.6	948.6	921.2	922.0	920.5
62.5°	10108.6	7531.0	1443.6	782.8	793.8	850.9	928.3	911.9	889.2	919.7	922.0
65°	9940.4	7155.6	1123.8	714.0	732.8	791.4	881.4	893.9	901.7	960.3	968.2
67.5°	9235.0	6425.2	870.4	653.8	677.2	750.8	886.0	973.6	983.8	1045.6	1044.8
69°	8505.4	5740.1	756.2	622.5	649.9	760.9	947.0	1024.5	986.1	1051.8	1042.4
70°	7893.8	5198.2	695.2	601.4	637.4	778.9	987.7	1023.7	974.4	1030.7	1015.1
72.5°	6079.5	3739.7	589.7	562.3	595.1	745.3	999.4	1001.0	947.0	958.0	931.4
75°	4169.8	2363.3	514.6	509.1	531.0	671.8	961.9	956.4	875.9	860.2	838.3
77.5°	2299.2	1200.4	437.2	458.3	473.1	595.1	874.3	866.5	800.0	767.2	759.4
80°	886.8	525.5	369.1	407.4	416.8	515.4	766.4	759.4	703.8	661.6	649.9
82.5°	334.7	275.3	305.0	352.7	349.6	425.4	649.1	645.2	591.2	529.4	510.7
85°	154.8	165.0	241.6	290.9	268.2	315.2	519.3	526.3	460.6	387.1	387.1
87.5°	65.7	92.3	171.3	219.8	180.6	212.7	380.8	363.6	333.9	231.5	217.4
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)