

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: P322712

Luminaire Tested: **GAN-SA8A-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322712
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21076 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

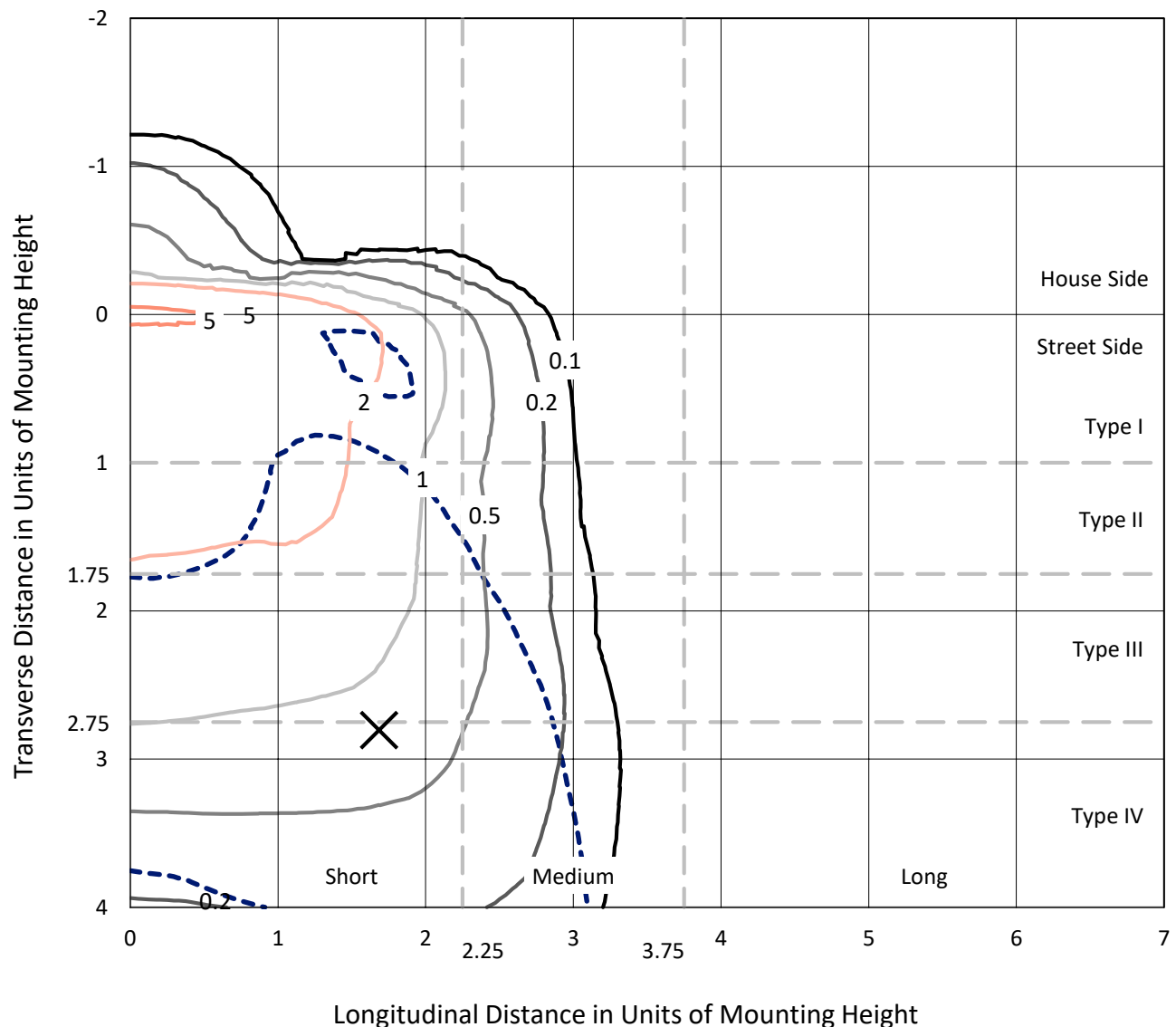
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

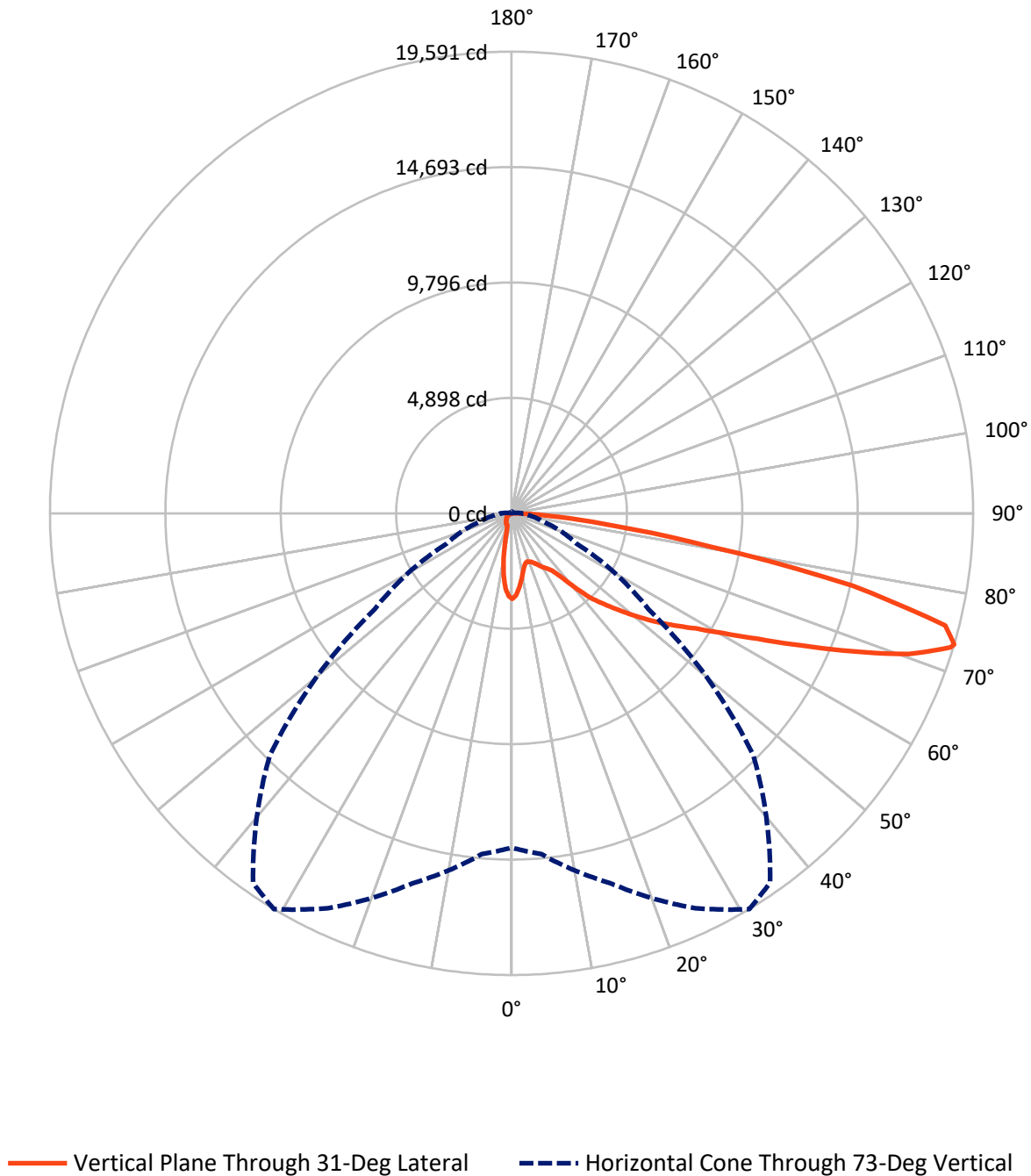
× Max cd
 - - - 1/2 Max cd



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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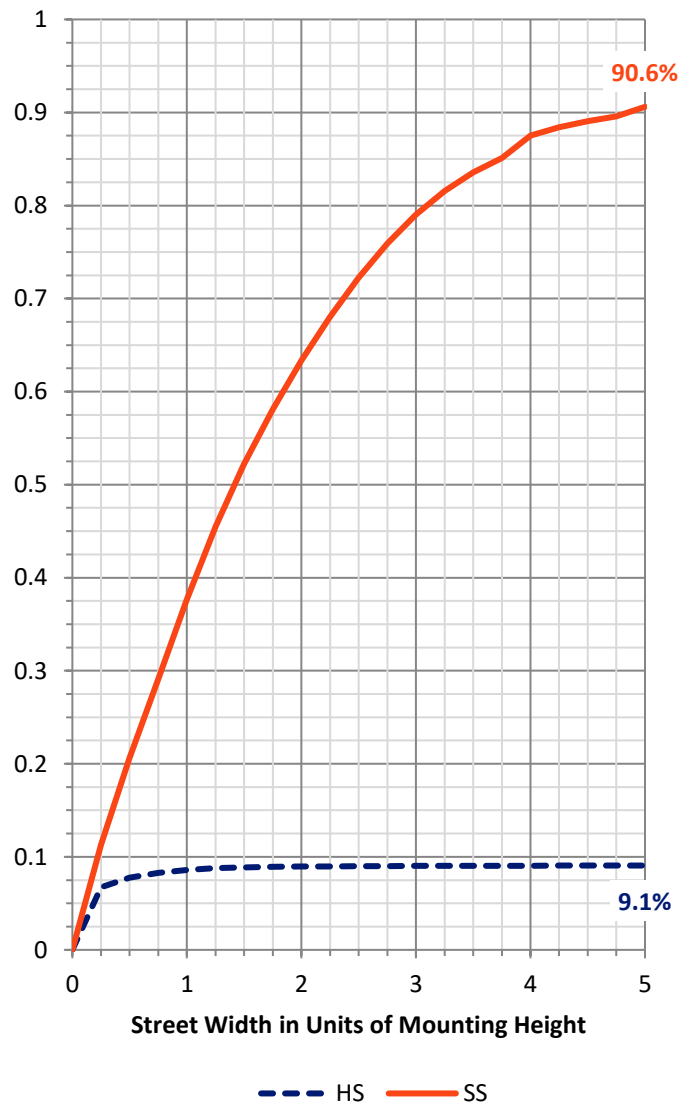
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1921.2	0.0	1921.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	19154.8	0.0	19154.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	21076.0	0.0	21076.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.7	1.4
10°-20°	652.8	3.1
20°-30°	978.1	4.6
30°-40°	1556.2	7.4
40°-50°	2778.9	13.2
50°-60°	4312.1	20.5
60°-70°	5732.3	27.2
70°-80°	4311.9	20.5
80°-90°	453.1	2.1
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°	21076.0	100.0
0°-180°	21076.0	100.0

Coefficient of Utilization



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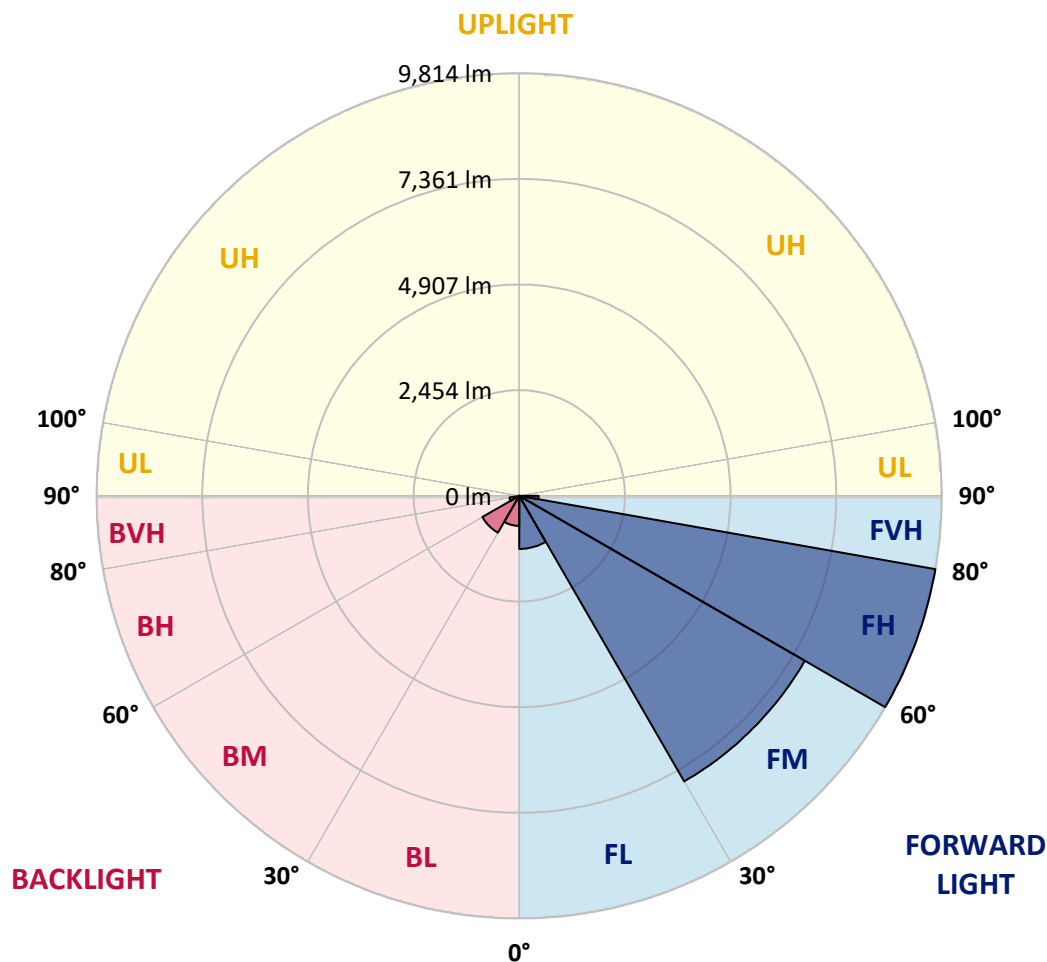
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1233.0	5.9			
FM	(30°-60°)	7658.3	36.3			
FH	(60°-80°)	9814.3	46.6			G4/12000
FVH	(80°-90°)	449.3	2.1			G3/500
BL	(0°-30°)	698.6	3.3	B2/1000		
BM	(30°-60°)	988.9	4.7	B1/1000		
BH	(60°-80°)	229.9	1.1	B1/500		G1/500
BVH	(80°-90°)	3.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2
2.5°	3436.4	3450.8	3466.3	3469.4	3495.2	3496.2	3533.3	3561.2	3589.0	3615.9	3625.1
5°	3083.7	3107.4	3135.3	3163.1	3217.8	3239.4	3330.2	3423.0	3511.7	3596.3	3637.5
7.5°	2707.3	2734.1	2773.3	2842.4	2903.2	2945.5	3088.8	3253.9	3418.9	3574.6	3664.3
10°	2363.8	2388.6	2429.8	2503.0	2596.9	2654.7	2847.5	3076.5	3318.8	3555.0	3704.6
12.5°	2145.2	2158.6	2181.3	2259.7	2344.2	2409.2	2636.1	2919.7	3236.3	3554.0	3769.5
15°	2105.0	2109.1	2090.5	2125.6	2191.6	2254.5	2484.5	2792.9	3173.4	3570.5	3854.1
17.5°	2168.9	2166.8	2105.0	2100.8	2153.4	2205.0	2410.2	2705.2	3129.1	3608.6	3963.4
20°	2265.8	2258.6	2151.4	2131.8	2187.5	2235.9	2405.1	2672.2	3112.6	3672.6	4096.5
22.5°	2394.8	2382.4	2214.3	2193.6	2253.5	2304.0	2469.0	2704.2	3127.0	3758.2	4251.2
25°	2554.6	2536.0	2322.6	2299.9	2360.7	2411.3	2583.5	2795.9	3170.3	3862.3	4447.1
27.5°	2735.1	2708.3	2495.8	2437.0	2506.1	2558.7	2736.1	2936.2	3238.4	3972.7	4687.4
30°	2905.3	2870.2	2678.4	2581.4	2666.0	2724.8	2901.1	3103.3	3347.7	4142.9	5016.4
32.5°	3076.5	3037.3	2841.3	2725.8	2802.1	2866.1	3071.3	3333.3	3552.9	4402.8	5453.7
35°	3470.4	3429.2	3188.9	2998.1	2997.1	3033.2	3309.5	3647.8	3824.2	4764.8	5975.5
37.5°	4133.6	4109.9	3880.9	3518.9	3422.0	3381.7	3634.4	4023.2	4214.0	5262.9	6564.4
40°	4859.6	4839.0	4582.2	4254.3	4106.8	4007.8	4100.6	4546.1	4764.8	5871.4	7165.7
42.5°	5679.6	5581.6	5123.7	5025.7	4893.7	4818.4	4734.9	5190.7	5441.3	6533.5	7761.8
45°	6424.2	6259.2	5665.1	5516.6	5486.7	5505.3	5551.7	6057.0	6202.4	7320.4	8355.9
47.5°	6867.7	6737.7	6281.9	6139.5	6131.3	6254.0	6604.7	7035.8	6960.5	8006.2	8878.8
50°	7289.5	7171.9	6793.4	6828.5	6866.6	7033.7	7800.0	8042.3	7652.5	8628.1	9358.3
52.5°	7630.8	7451.4	7253.4	7450.4	7638.1	7907.2	9033.5	8945.8	8143.4	9123.2	9768.8
55°	7827.8	7746.3	7842.3	8040.3	8393.0	8830.3	10197.8	9697.6	8502.3	9574.9	10042.1
57.5°	8549.8	8389.9	8580.7	8751.9	9211.9	9823.5	11195.1	10257.6	8761.2	9854.4	10105.0
60°	9423.3	9294.4	9406.8	9691.4	10312.3	11031.1	12127.5	10714.5	8896.3	10033.8	9942.1
62.5°	10813.5	10643.4	10573.2	10891.9	11714.9	12499.8	12834.9	11031.1	8866.4	9954.4	9383.1
65°	12676.1	12499.8	12186.2	12475.0	13521.8	14075.6	13626.0	11098.2	8660.1	9311.9	7970.1
67.5°	14584.1	14456.2	14188.1	14674.8	15619.5	15798.0	14462.4	10935.2	7995.9	7550.4	5631.1
70°	15844.4	15789.7	15964.0	17040.7	17883.3	17831.8	15229.7	10059.6	6232.3	4643.1	2785.6
72.5°	14935.8	15197.7	16484.8	18437.2	19466.4	19045.6	14835.7	7724.7	3562.2	1786.3	805.5
73°	14182.9	14518.1	16250.7	18489.7	19591.2	19130.2	14504.7	7090.4	3036.2	1409.8	610.5
75°	9866.8	10278.3	13453.7	17220.2	19007.5	18226.8	12090.3	4339.9	1406.7	625.0	246.5
77.5°	4790.5	5094.8	7408.1	12442.0	14782.1	14240.7	7526.7	1617.1	635.3	390.9	113.4
80°	1788.3	1988.4	3215.7	6332.4	8542.5	8766.3	3310.6	611.6	422.8	314.6	57.8
82.5°	468.2	521.9	1186.0	2823.8	4378.0	4582.2	1043.7	308.4	309.4	258.9	35.1
85°	149.5	171.2	370.2	1267.5	2062.7	1811.0	272.3	149.5	224.8	192.9	19.6
87.5°	18.6	23.7	117.6	298.1	454.8	252.7	42.3	44.3	95.9	107.3	11.3
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°	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2	3626.2
2.5°	3634.4	3629.3	3630.3	3603.5	3585.9	3550.9	3514.8	3498.3	3480.8	3473.5	3480.8
5°	3653.0	3643.7	3616.9	3534.4	3446.7	3333.3	3227.0	3146.6	3045.5	3017.7	3046.6
7.5°	3681.9	3663.3	3584.9	3416.8	3221.9	3005.3	2761.9	2584.5	2439.1	2345.3	2379.3
10°	3724.1	3689.1	3531.3	3245.6	2897.0	2513.4	2167.9	1898.7	1707.9	1629.5	1626.4
12.5°	3795.3	3729.3	3465.3	3022.8	2500.0	1988.4	1535.7	1243.8	1089.1	989.0	987.0
15°	3873.7	3776.7	3381.7	2755.7	2037.9	1424.3	989.0	767.3	667.3	635.3	631.2
17.5°	3969.6	3831.4	3273.5	2426.7	1554.2	943.7	645.6	581.7	577.5	574.5	574.5
20°	4090.3	3896.4	3134.2	2050.3	1102.5	630.1	548.7	552.8	554.9	550.7	551.8
22.5°	4230.5	3962.4	2968.2	1646.0	745.7	527.0	524.9	530.1	532.2	530.1	531.1
25°	4393.5	4038.7	2766.0	1222.1	538.4	500.2	505.4	512.6	517.7	517.7	517.7
27.5°	4595.6	4131.5	2522.6	852.9	465.1	472.4	486.8	500.2	507.4	509.5	509.5
30°	4858.6	4247.0	2230.8	584.8	422.8	435.2	462.0	487.8	501.2	503.3	504.3
32.5°	5190.7	4377.0	1892.5	432.1	386.8	396.0	424.9	468.2	494.0	498.1	498.1
35°	5571.3	4527.6	1528.4	376.4	361.0	364.1	386.8	436.3	481.6	493.0	494.0
37.5°	5987.9	4676.1	1162.3	351.7	339.3	339.3	355.8	398.1	451.7	486.8	490.9
40°	6376.7	4765.8	814.8	332.1	319.7	319.7	334.2	365.1	415.6	468.2	479.6
42.5°	6735.6	4796.7	567.2	313.5	301.1	304.2	316.6	341.4	379.5	432.1	442.4
45°	7104.9	4791.6	413.6	291.9	282.6	291.9	301.1	319.7	347.6	377.5	379.5
47.5°	7383.3	4748.3	328.0	271.2	265.1	277.4	285.7	298.1	313.5	311.5	311.5
50°	7644.2	4643.1	264.0	243.4	247.5	262.0	266.1	270.2	271.2	251.6	249.6
52.5°	7842.3	4479.1	211.4	213.5	230.0	244.4	240.3	234.1	223.8	200.1	196.0
55°	7908.3	4163.5	166.0	176.4	204.2	222.8	207.3	193.9	174.3	154.7	150.6
57.5°	7788.6	3756.1	135.1	137.2	172.2	187.7	170.2	154.7	133.0	116.5	113.4
60°	7534.9	3303.4	111.4	103.1	133.0	146.4	135.1	119.6	100.0	87.7	86.6
62.5°	7031.6	2820.7	91.8	80.4	101.1	112.4	105.2	93.9	77.4	69.1	68.1
65°	5973.5	2256.6	74.3	65.0	78.4	87.7	81.5	73.2	60.8	54.7	53.6
67.5°	4169.7	1525.3	60.8	53.6	61.9	69.1	63.9	59.8	48.5	47.4	48.5
70°	2011.1	735.3	50.5	43.3	48.5	53.6	51.6	48.5	46.4	53.6	61.9
72.5°	576.5	246.5	40.2	36.1	39.2	42.3	44.3	43.3	50.5	65.0	75.3
73°	443.5	199.0	38.2	34.0	37.1	41.3	43.3	42.3	51.6	66.0	75.3
75°	189.8	95.9	28.9	27.8	30.9	36.1	38.2	38.2	51.6	67.0	72.2
77.5°	85.6	51.6	18.6	21.7	26.8	28.9	32.0	32.0	41.3	51.6	51.6
80°	48.5	27.8	14.4	16.5	19.6	19.6	19.6	17.5	18.6	20.6	22.7
82.5°	30.9	18.6	11.3	13.4	12.4	10.3	8.3	8.3	7.2	8.3	10.3
85°	17.5	10.3	10.3	8.3	5.2	4.1	5.2	4.1	1.0	0.0	1.0
87.5°	10.3	6.2	3.1	0.0	0.0	0.0	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)