

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: P322498

Luminaire Tested: **GAN-SA4D-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322498
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-SA4D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 18588 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

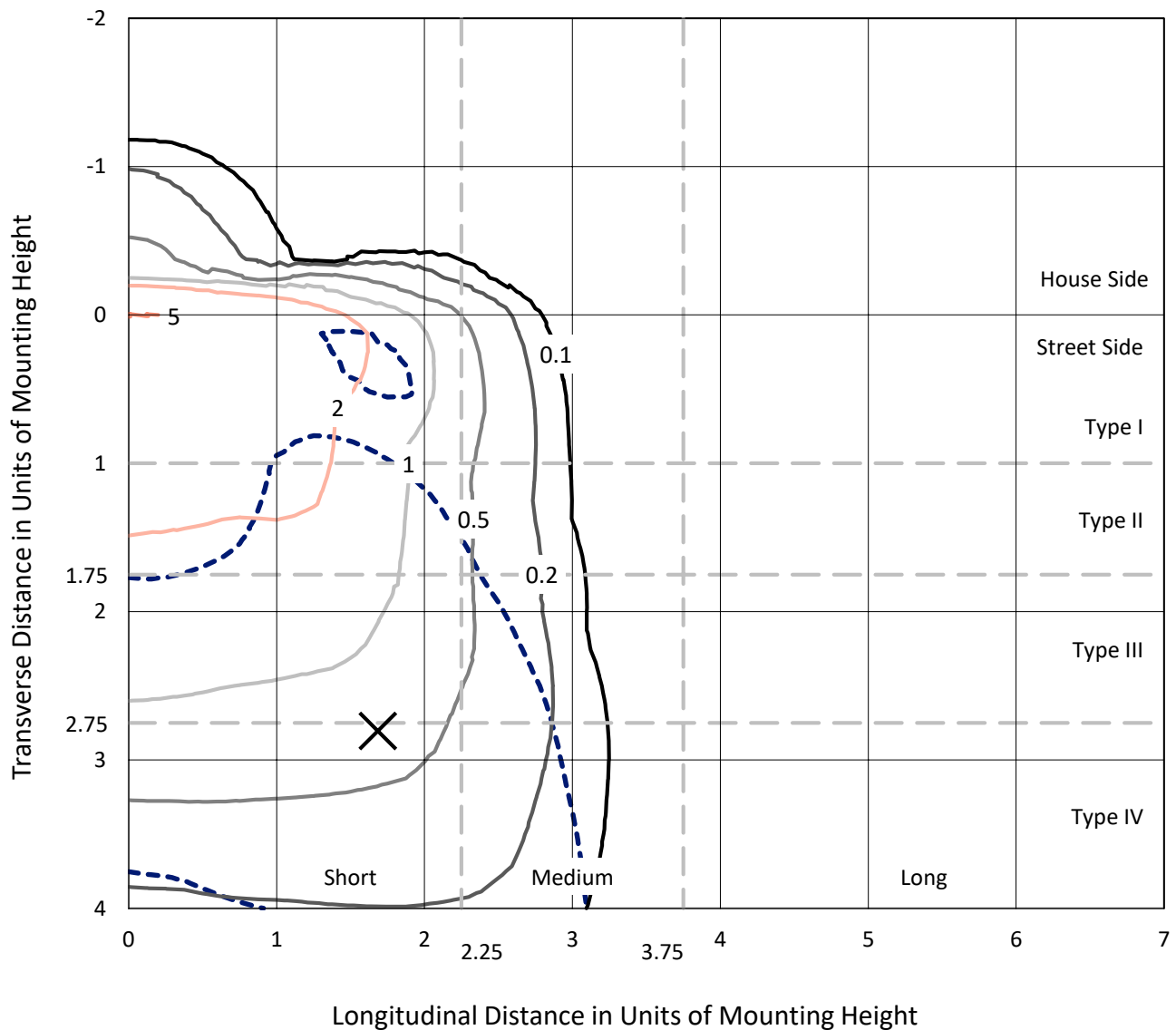
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

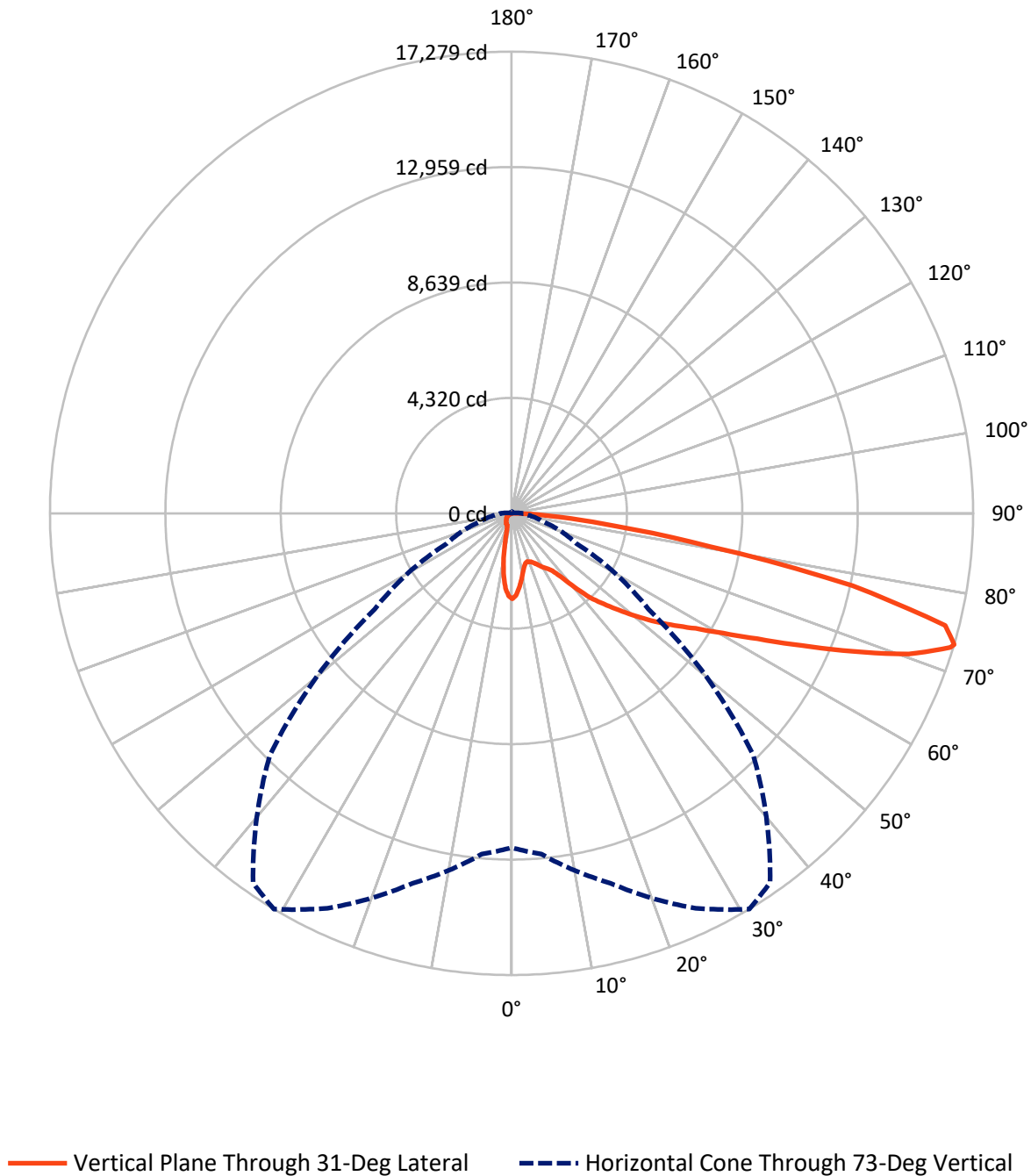
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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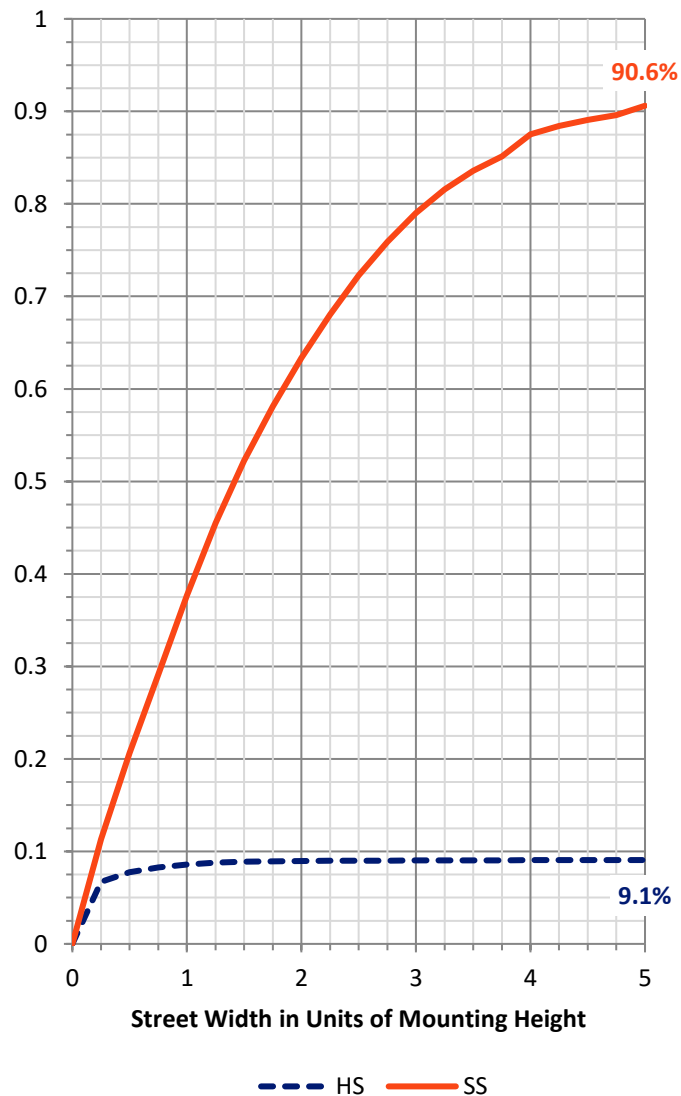
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1694.4	0.0	1694.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	16893.6	0.0	16893.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	18588.0	0.0	18588.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	1.4
10°-20°	575.8	3.1
20°-30°	862.6	4.6
30°-40°	1372.5	7.4
40°-50°	2450.9	13.2
50°-60°	3803.0	20.5
60°-70°	5055.6	27.2
70°-80°	3802.9	20.5
80°-90°	399.6	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°	18588.0	100.0
0°-180°	18588.0	100.0

Coefficient of Utilization



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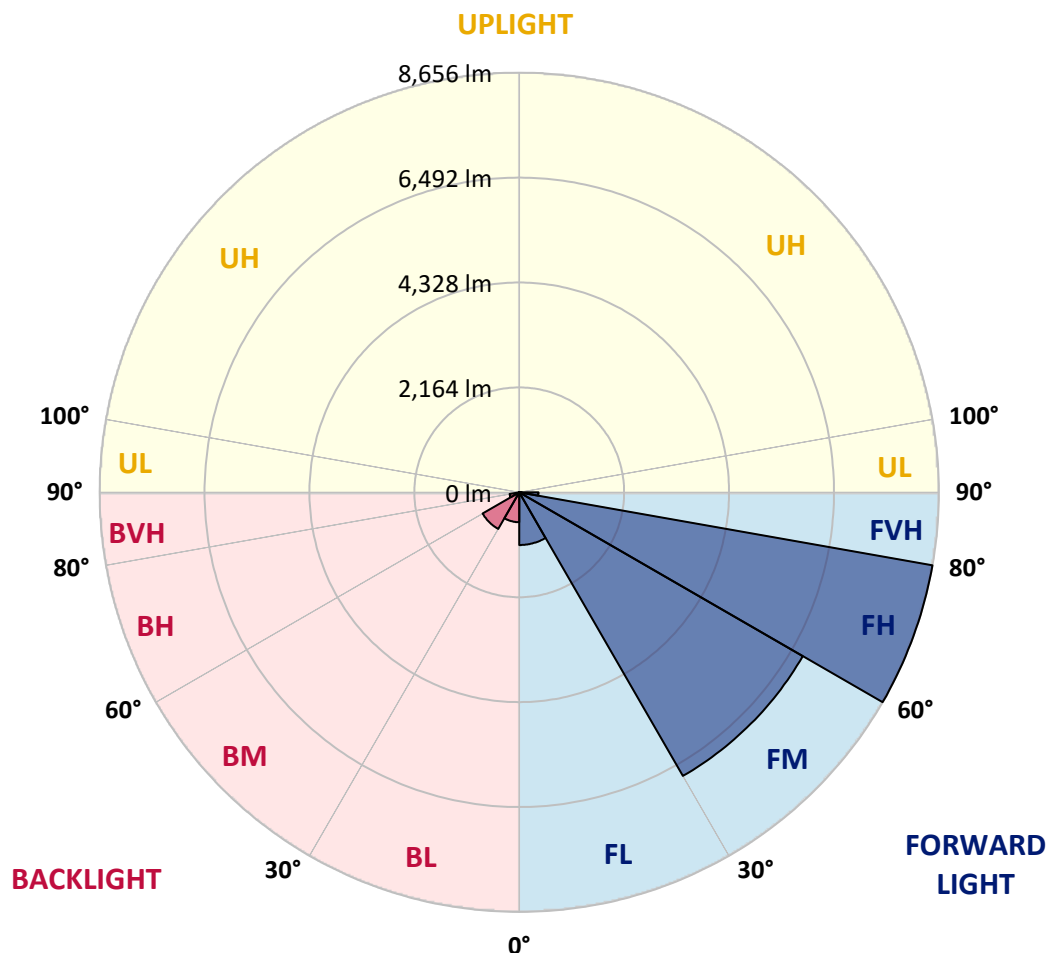
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1087.4	5.9			
FM	(30°-60°)	6754.2	36.3			
FH	(60°-80°)	8655.7	46.6			G4/12000
FVH	(80°-90°)	396.2	2.1			G3/500
BL	(0°-30°)	616.1	3.3	B2/1000		
BM	(30°-60°)	872.1	4.7	B1/1000		
BH	(60°-80°)	202.7	1.1	B1/500		G1/500
BVH	(80°-90°)	3.4	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°	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1
2.5°	3030.7	3043.5	3057.1	3059.8	3082.6	3083.5	3116.2	3140.8	3165.4	3189.0	3197.2
5°	2719.7	2740.6	2765.1	2789.7	2837.9	2857.0	2937.1	3018.9	3097.1	3171.7	3208.1
7.5°	2387.7	2411.3	2445.9	2506.8	2560.5	2597.8	2724.2	2869.7	3015.3	3152.6	3231.8
10°	2084.8	2106.6	2143.0	2207.6	2290.3	2341.3	2511.4	2713.3	2927.0	3135.3	3267.2
12.5°	1891.9	1903.8	1923.8	1992.9	2067.5	2124.8	2324.9	2575.0	2854.3	3134.4	3324.5
15°	1856.5	1860.1	1843.7	1874.7	1932.9	1988.4	2191.2	2463.2	2798.8	3149.0	3399.1
17.5°	1912.9	1911.0	1856.5	1852.8	1899.2	1944.7	2125.7	2385.8	2759.7	3182.6	3495.5
20°	1998.4	1992.0	1897.4	1880.1	1929.2	1972.0	2121.2	2356.7	2745.1	3239.0	3612.9
22.5°	2112.1	2101.1	1952.9	1934.7	1987.4	2032.0	2177.5	2384.9	2757.9	3314.5	3749.3
25°	2253.0	2236.7	2048.4	2028.4	2082.0	2126.6	2278.5	2465.9	2796.1	3406.4	3922.1
27.5°	2412.2	2388.6	2201.2	2149.4	2210.3	2256.7	2413.1	2589.6	2856.1	3503.7	4134.1
30°	2562.3	2531.4	2362.2	2276.7	2351.3	2403.1	2558.7	2736.9	2952.5	3653.8	4424.2
32.5°	2713.3	2678.7	2505.9	2404.0	2471.3	2527.7	2708.7	2939.8	3133.5	3883.0	4809.9
35°	3060.8	3024.4	2812.4	2644.2	2643.3	2675.1	2918.9	3217.2	3372.7	4202.3	5270.1
37.5°	3645.6	3624.7	3422.8	3103.5	3018.0	2982.5	3205.4	3548.3	3716.6	4641.6	5789.5
40°	4286.0	4267.8	4041.3	3752.0	3622.0	3534.7	3616.5	4009.5	4202.3	5178.3	6319.8
42.5°	5009.1	4922.7	4518.8	4432.4	4316.0	4249.6	4175.9	4577.9	4799.0	5762.2	6845.5
45°	5665.8	5520.3	4996.4	4865.4	4839.0	4855.4	4896.3	5342.0	5470.2	6456.2	7369.5
47.5°	6056.9	5942.3	5540.3	5414.8	5407.5	5515.7	5825.0	6205.2	6138.8	7061.1	7830.6
50°	6429.0	6325.3	5991.4	6022.4	6056.0	6203.4	6879.2	7092.9	6749.1	7609.6	8253.6
52.5°	6730.0	6571.8	6397.1	6570.8	6736.4	6973.8	7967.1	7889.7	7182.1	8046.2	8615.6
55°	6903.8	6831.9	6916.5	7091.1	7402.2	7787.9	8994.0	8552.8	7498.6	8444.6	8856.6
57.5°	7540.5	7399.5	7567.8	7718.7	8124.4	8663.8	9873.6	9046.7	7726.9	8691.1	8912.1
60°	8310.9	8197.2	8296.3	8547.4	9094.9	9728.9	10695.8	9449.7	7846.1	8849.4	8768.4
62.5°	9537.0	9386.9	9325.1	9606.1	10332.0	11024.2	11319.8	9728.9	7819.7	8779.3	8275.4
65°	11179.7	11024.2	10747.7	11002.3	11925.6	12414.0	12017.4	9788.1	7637.8	8212.6	7029.3
67.5°	12862.5	12749.7	12513.2	12942.5	13775.7	13933.0	12755.1	9644.3	7052.0	6659.1	4966.3
70°	13974.0	13925.8	14079.5	15029.1	15772.2	15726.7	13431.9	8872.1	5496.6	4095.0	2456.8
72.5°	13172.6	13403.7	14538.8	16260.7	17168.4	16797.3	13084.4	6812.8	3141.7	1575.4	710.4
73°	12508.6	12804.2	14332.3	16307.1	17278.5	16871.9	12792.4	6253.4	2677.8	1243.4	538.5
75°	8702.0	9064.9	11865.5	15187.4	16763.7	16075.1	10663.1	3827.5	1240.7	551.2	217.4
77.5°	4225.0	4493.4	6533.6	10973.2	13037.1	12559.6	6638.2	1426.2	560.3	344.7	100.1
80°	1577.2	1753.7	2836.1	5584.9	7534.1	7731.5	2919.8	539.4	372.9	277.4	50.9
82.5°	413.0	460.3	1046.0	2490.4	3861.2	4041.3	920.5	272.0	272.9	228.3	30.9
85°	131.9	151.0	326.5	1117.9	1819.2	1597.2	240.1	131.9	198.3	170.1	17.3
87.5°	16.4	20.9	103.7	262.9	401.1	222.8	37.3	39.1	84.6	94.6	10.0
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°	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1	3198.1
2.5°	3205.4	3200.8	3201.7	3178.1	3162.6	3131.7	3099.9	3085.3	3069.9	3063.5	3069.9
5°	3221.8	3213.6	3189.9	3117.2	3039.8	2939.8	2846.1	2775.1	2686.0	2661.4	2686.9
7.5°	3247.2	3230.8	3161.7	3013.5	2841.5	2650.5	2435.9	2279.4	2151.2	2068.4	2098.4
10°	3284.5	3253.6	3114.4	2862.5	2555.0	2216.7	1911.9	1674.5	1506.3	1437.1	1434.4
12.5°	3347.3	3289.1	3056.2	2666.0	2204.8	1753.7	1354.4	1097.0	960.5	872.3	870.5
15°	3416.4	3330.9	2982.5	2430.4	1797.3	1256.1	872.3	676.7	588.5	560.3	556.7
17.5°	3501.0	3379.1	2887.0	2140.3	1370.7	832.3	569.4	513.0	509.4	506.6	506.6
20°	3607.4	3436.4	2764.2	1808.3	972.3	555.8	483.9	487.5	489.4	485.7	486.6
22.5°	3731.1	3494.6	2617.8	1451.7	657.6	464.8	463.0	467.5	469.3	467.5	468.4
25°	3874.8	3561.9	2439.5	1077.9	474.8	441.1	445.7	452.1	456.6	456.6	456.6
27.5°	4053.1	3643.8	2224.8	752.2	410.2	416.6	429.3	441.1	447.5	449.3	449.3
30°	4285.1	3745.7	1967.4	515.7	372.9	383.8	407.5	430.2	442.1	443.9	444.8
32.5°	4577.9	3860.3	1669.1	381.1	341.1	349.3	374.7	413.0	435.7	439.3	439.3
35°	4913.6	3993.1	1348.0	332.0	318.4	321.1	341.1	384.8	424.8	434.8	435.7
37.5°	5281.1	4124.1	1025.1	310.2	299.3	299.3	313.8	351.1	398.4	429.3	433.0
40°	5624.0	4203.2	718.6	292.9	282.0	282.0	294.7	322.0	366.6	413.0	423.0
42.5°	5940.5	4230.5	500.3	276.5	265.6	268.3	279.2	301.1	334.7	381.1	390.2
45°	6266.1	4225.9	364.7	257.4	249.2	257.4	265.6	282.0	306.5	332.9	334.7
47.5°	6511.7	4187.7	289.2	239.2	233.8	244.7	252.0	262.9	276.5	274.7	274.7
50°	6741.8	4095.0	232.9	214.7	218.3	231.0	234.7	238.3	239.2	221.9	220.1
52.5°	6916.5	3950.3	186.5	188.3	202.8	215.6	211.9	206.5	197.4	176.5	172.8
55°	6974.7	3672.0	146.4	155.5	180.1	196.5	182.8	171.0	153.7	136.4	132.8
57.5°	6869.2	3312.7	119.2	121.0	151.9	165.5	150.1	136.4	117.3	102.8	100.1
60°	6645.4	2913.4	98.2	91.0	117.3	129.2	119.2	105.5	88.2	77.3	76.4
62.5°	6201.6	2487.7	81.0	70.9	89.1	99.1	92.8	82.8	68.2	60.9	60.0
65°	5268.3	1990.2	65.5	57.3	69.1	77.3	71.9	64.6	53.7	48.2	47.3
67.5°	3677.5	1345.3	53.7	47.3	54.6	60.9	56.4	52.8	42.8	41.8	42.8
70°	1773.7	648.5	44.6	38.2	42.8	47.3	45.5	42.8	40.9	47.3	54.6
72.5°	508.5	217.4	35.5	31.8	34.6	37.3	39.1	38.2	44.6	57.3	66.4
73°	391.1	175.6	33.7	30.0	32.7	36.4	38.2	37.3	45.5	58.2	66.4
75°	167.4	84.6	25.5	24.6	27.3	31.8	33.7	33.7	45.5	59.1	63.7
77.5°	75.5	45.5	16.4	19.1	23.6	25.5	28.2	28.2	36.4	45.5	45.5
80°	42.8	24.6	12.7	14.6	17.3	17.3	17.3	15.5	16.4	18.2	20.0
82.5°	27.3	16.4	10.0	11.8	10.9	9.1	7.3	7.3	6.4	7.3	9.1
85°	15.5	9.1	9.1	7.3	4.5	3.6	4.5	3.6	0.9	0.0	0.9
87.5°	9.1	5.5	2.7	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)