

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: P200642

Luminaire Tested: **GAW-AF-02-LED-E1-SLL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-02-LED-E1-SLL-8030-1200
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9772 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 129
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: 28.75 FT

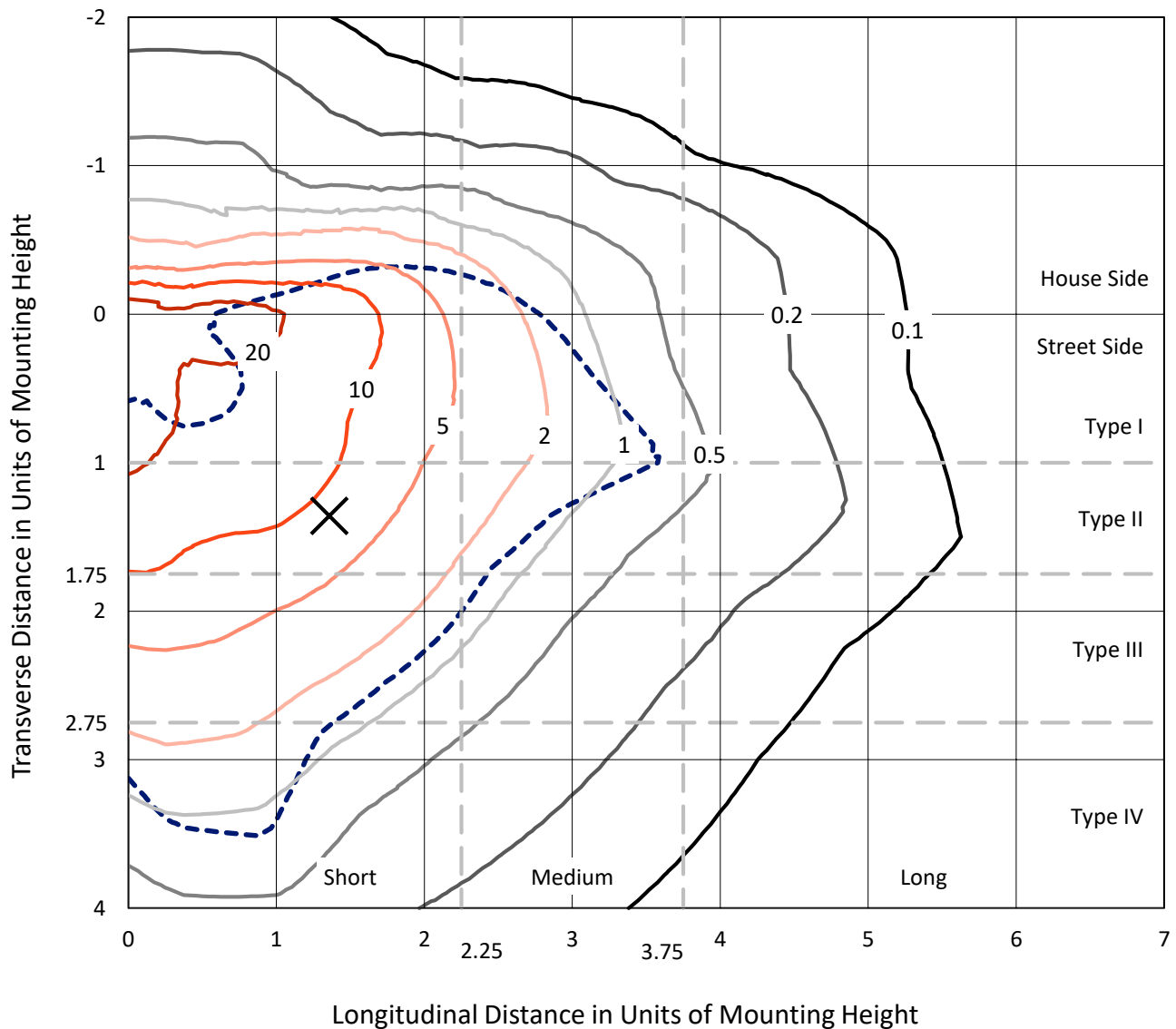


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

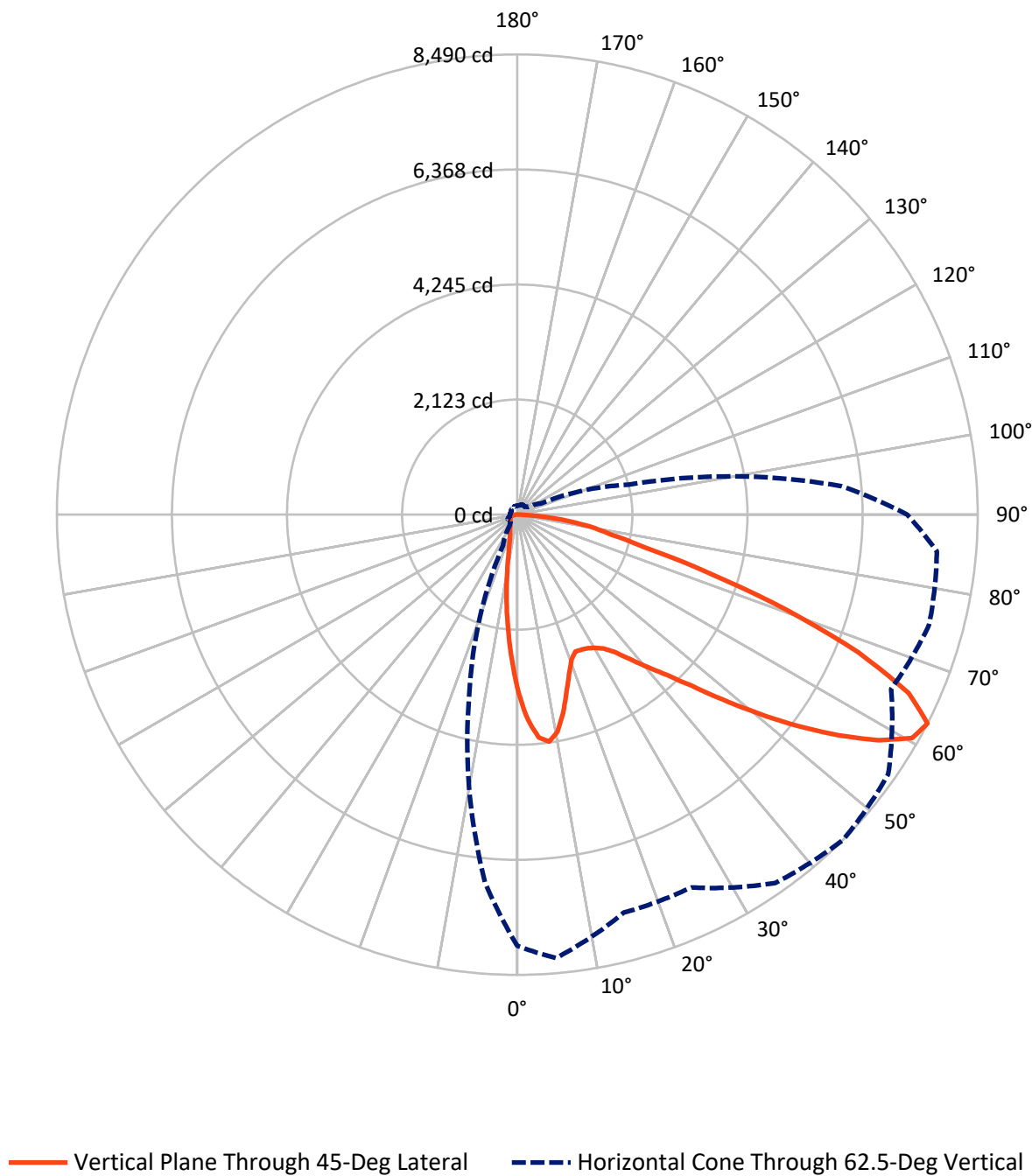


Based on 10 foot mounting height. Maximum calculated value = 38.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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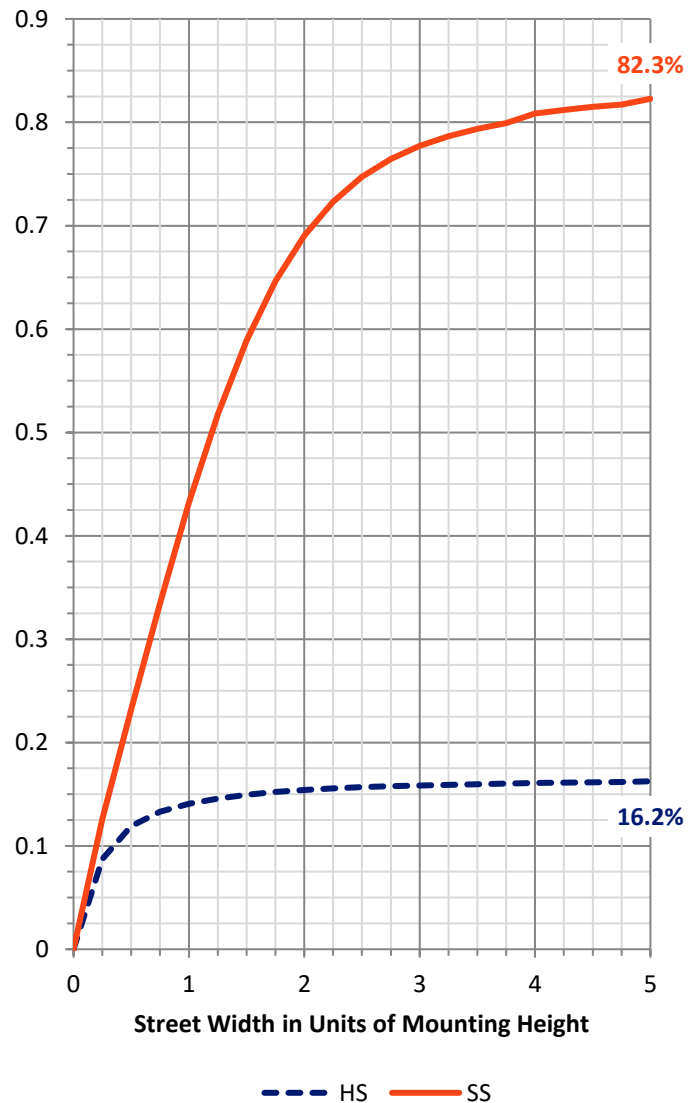
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1617.1	0.0	1617.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8154.9	0.0	8154.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	9772.0	0.0	9772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	2.5
10°-20°	440.7	4.5
20°-30°	642.6	6.6
30°-40°	989.6	10.1
40°-50°	1456.5	14.9
50°-60°	2136.3	21.9
60°-70°	2388.1	24.4
70°-80°	1169.2	12.0
80°-90°	308.7	3.2
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°	9772.0	100.0
0°-180°	9772.0	100.0

Coefficient of Utilization



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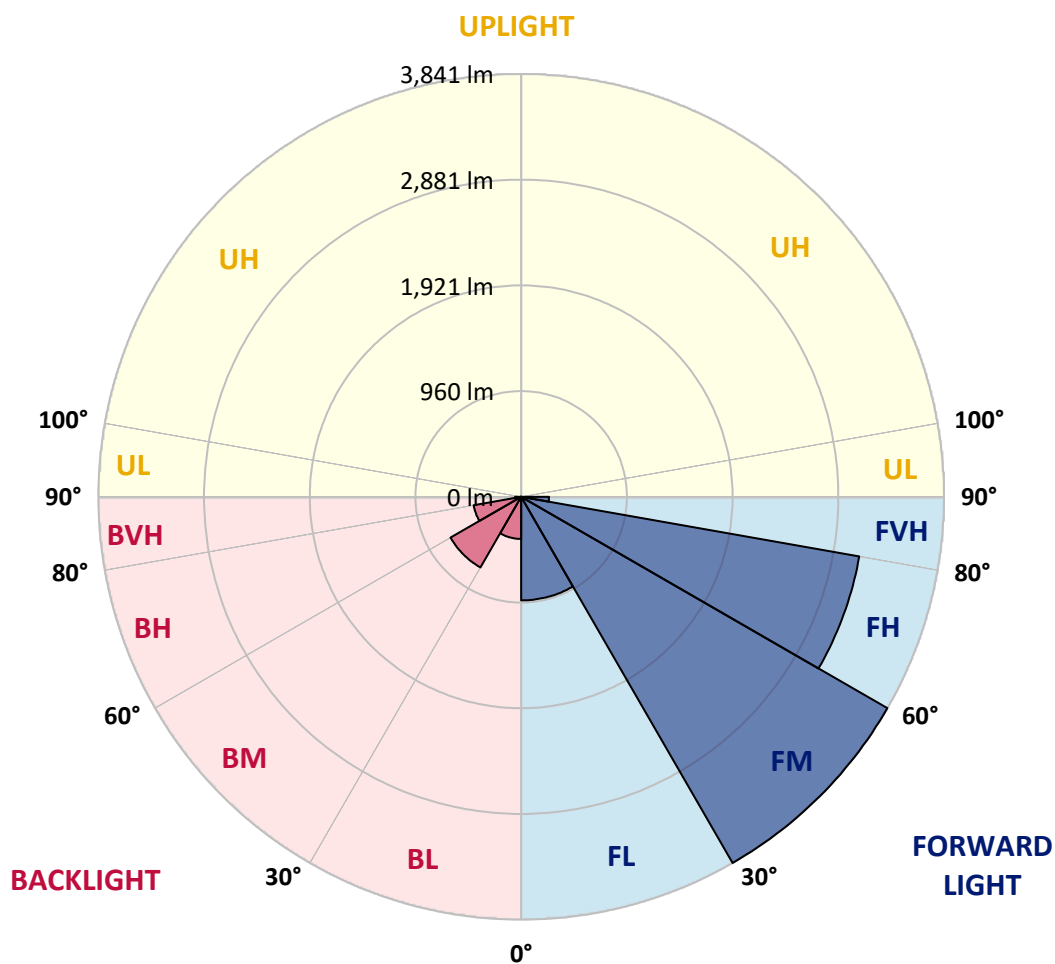
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	941.0	9.6			
FM	(30°-60°)	3841.5	39.3			
FH	(60°-80°)	3118.9	31.9			G2/5000
FVH	(80°-90°)	253.5	2.6			G3/500
BL	(0°-30°)	382.6	3.9	B1/500		
BM	(30°-60°)	741.0	7.6	B1/1000		
BH	(60°-80°)	438.4	4.5	B1/500		G1/500
BVH	(80°-90°)	55.2	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	3430.4	3485.2	3592.1	3672.2	3769.4	3792.0	3823.1	3792.5	3738.2	3666.3	3642.6
5°	3225.8	3342.9	3602.3	3830.6	4033.7	4128.2	4154.5	4076.7	3919.3	3712.5	3586.2
7.5°	2897.5	3064.1	3415.4	3751.7	4050.9	4227.6	4223.3	4042.3	3752.7	3415.9	3213.4
10°	2614.5	2804.6	3207.5	3583.5	3901.0	4072.4	4006.3	3774.8	3429.4	3041.5	2821.8
12.5°	2456.0	2642.4	3051.2	3428.8	3694.2	3753.3	3702.8	3476.1	3150.6	2758.4	2566.1
15°	2428.6	2633.3	2988.9	3296.1	3444.9	3393.4	3333.2	3231.7	3001.8	2667.1	2466.7
17.5°	2547.3	2772.9	3060.3	3203.7	3178.5	3088.8	3071.6	3082.9	3027.5	2768.6	2537.6
20°	2775.1	3045.8	3230.6	3160.2	2976.0	2852.4	2856.7	3029.2	3193.0	3025.9	2762.2
22.5°	3094.7	3403.6	3476.1	3183.3	2890.6	2743.9	2779.4	3058.7	3456.8	3402.0	3065.1
25°	3508.3	3789.8	3737.7	3267.1	2899.2	2757.3	2785.8	3160.8	3768.3	3778.0	3440.1
27.5°	3909.1	4170.1	3957.4	3378.3	2934.6	2789.0	2826.6	3321.4	4065.9	4186.2	3868.8
30°	4221.7	4403.3	4044.4	3479.9	3004.4	2850.8	2897.5	3473.9	4201.3	4461.8	4198.6
32.5°	4480.6	4611.2	4183.0	3605.6	3132.8	2948.0	3030.2	3659.3	4396.3	4724.0	4521.4
35°	4811.5	4848.6	4355.5	3745.8	3331.1	3117.3	3219.3	3840.8	4582.1	4988.8	4839.5
37.5°	5199.4	5151.6	4518.2	3937.5	3587.3	3382.1	3466.4	4040.1	4735.2	5289.1	5164.4
40°	5582.9	5468.0	4722.3	4235.1	3961.2	3694.2	3794.1	4252.9	4878.1	5589.9	5481.9
42.5°	5909.0	5738.7	4923.8	4562.3	4309.3	4038.5	4157.8	4467.2	5014.6	5846.7	5757.5
45°	6150.2	5938.5	5115.6	4876.5	4789.0	4496.2	4552.6	4712.7	5162.3	6061.0	5984.2
47.5°	6365.6	6139.4	5332.6	5193.5	5208.5	5091.4	5000.6	4998.5	5336.3	6236.1	6198.5
50°	6654.0	6418.2	5565.7	5520.1	5838.1	5760.2	5559.8	5332.0	5556.6	6434.9	6430.6
52.5°	7051.6	6859.8	5850.4	5871.9	6425.7	6476.8	6228.6	5732.8	5901.5	6799.6	6773.8
55°	7521.6	7409.9	6238.3	6276.4	7146.6	7183.2	6936.6	6234.0	6408.6	7327.7	7256.2
57.5°	7888.5	7864.9	6663.7	6762.0	7684.9	7849.3	7622.6	6814.1	6980.1	7772.5	7593.0
60°	8034.6	8149.0	7116.6	7251.9	8182.9	8365.0	8166.2	7323.9	7486.7	7956.7	7569.9
62.5°	7955.6	8211.3	7598.9	7587.7	8294.1	8490.1	8350.5	7607.5	7862.2	7766.5	7186.9
65°	7590.9	7987.3	7878.8	7501.2	7913.7	7929.9	7884.7	7480.8	7950.8	7165.4	6446.7
67.5°	6796.4	7366.9	7510.3	6759.9	6887.7	6783.0	6707.2	6786.7	7488.8	6264.6	5418.0
70°	5535.6	6394.1	6462.8	5406.7	5348.7	5278.3	5127.4	5564.1	6577.2	5134.4	4299.1
72.5°	4070.2	4972.7	5183.8	3965.5	3696.9	3711.4	3592.1	4193.2	5347.6	3814.0	3209.7
75°	2784.7	3600.7	4055.7	2767.0	2444.7	2450.6	2435.6	2971.1	4259.3	2653.1	2401.7
77.5°	2034.3	2572.6	3058.7	1860.3	1806.0	1772.7	1764.6	2078.9	3265.5	1926.3	1865.1
80°	1632.5	1900.5	2054.7	1289.2	1386.5	1383.8	1339.2	1429.4	2132.6	1409.0	1395.1
82.5°	1132.4	1460.6	1664.7	1010.4	935.8	920.2	930.9	1064.7	1507.3	963.2	915.9
85°	597.3	970.1	1648.6	895.5	555.4	443.2	551.1	871.8	1305.9	510.3	446.9
87.5°	76.3	280.4	1091.5	357.2	219.2	118.2	261.6	491.0	838.5	104.2	90.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	3581.9	3510.5	3417.0	3330.5	3240.8	3151.6	3035.1	2962.0	2911.5	2901.8	2880.4
5°	3494.9	3257.5	3078.0	2922.8	2782.1	2583.3	2473.2	2381.9	2333.0	2328.1	2316.3
7.5°	3093.6	2765.9	2523.7	2304.0	2104.7	1944.1	1766.8	1684.1	1650.2	1658.3	1666.3
10°	2676.2	2309.9	2031.6	1807.1	1631.4	1496.0	1353.7	1257.5	1190.9	1177.5	1174.8
12.5°	2371.1	1969.3	1699.1	1540.6	1404.7	1277.4	1126.5	1013.1	926.6	897.1	877.2
15°	2242.2	1802.8	1519.7	1348.9	1199.0	1037.3	897.1	778.4	698.9	673.1	658.6
17.5°	2269.6	1756.6	1396.1	1177.5	985.7	817.1	640.3	538.8	491.0	478.6	478.6
20°	2413.5	1748.0	1294.1	1019.6	780.5	585.0	440.0	381.9	366.4	364.7	369.0
22.5°	2615.5	1778.1	1217.8	882.6	606.5	427.1	342.7	321.2	314.3	315.9	320.7
25°	2916.3	1879.6	1162.5	760.6	475.9	349.7	305.7	292.8	289.5	293.8	299.7
27.5°	3273.0	1981.1	1128.1	668.8	401.8	319.6	290.6	277.2	279.3	284.7	290.1
30°	3586.2	2064.4	1073.8	603.3	378.7	321.2	290.6	272.4	270.2	271.3	272.9
32.5°	3867.2	2120.8	1010.4	540.9	326.6	285.2	271.3	268.6	256.8	252.5	253.0
35°	4109.4	2120.8	972.3	504.4	292.8	253.0	230.5	217.0	211.1	211.6	217.6
37.5°	4343.1	2078.3	953.5	484.0	274.5	240.7	220.8	209.0	200.9	199.3	200.4
40°	4549.4	2016.6	932.0	475.4	260.5	233.1	214.3	204.7	196.1	193.4	193.9
42.5°	4714.8	1966.6	908.4	464.1	251.9	227.8	210.0	201.4	191.8	189.1	188.6
45°	4893.7	1950.0	877.2	441.6	256.2	228.3	209.0	199.8	190.2	186.9	185.9
47.5°	5129.5	2002.1	845.0	414.7	265.4	231.0	210.6	199.8	189.6	186.9	185.9
50°	5426.6	2124.5	804.2	375.5	256.2	238.5	210.0	198.2	189.6	186.9	184.8
52.5°	5808.0	2290.0	750.4	330.4	250.9	256.8	209.0	195.0	186.9	183.2	179.4
55°	6271.6	2425.4	686.5	293.3	238.5	251.9	207.4	191.2	182.6	177.3	174.0
57.5°	6611.1	2474.3	604.3	269.1	221.3	243.9	205.2	186.4	177.3	173.0	168.7
60°	6543.9	2379.7	535.0	254.1	211.1	220.2	203.6	182.1	172.4	169.2	165.5
62.5°	6006.2	2132.6	490.4	247.1	204.7	200.9	205.2	177.8	168.1	164.9	163.8
65°	5199.9	1767.9	472.7	245.5	199.3	189.6	190.7	173.0	163.3	160.6	159.5
67.5°	4289.4	1426.7	457.1	250.9	192.3	181.6	176.2	166.5	158.5	155.8	153.6
70°	3382.6	1186.6	450.2	247.6	183.7	173.5	167.6	159.5	152.6	149.9	148.3
72.5°	2724.0	1002.4	446.4	244.4	172.4	162.8	157.4	150.4	142.9	141.8	140.2
75°	2305.0	788.0	408.8	234.2	159.5	149.9	146.1	139.7	132.1	132.1	131.1
77.5°	1778.1	569.9	340.0	207.4	146.1	135.4	132.1	127.3	118.7	120.3	119.8
80°	1313.4	371.7	265.9	171.9	129.5	119.3	117.6	112.8	103.7	105.8	105.8
82.5°	899.8	243.9	191.2	140.7	110.7	101.0	101.0	96.2	85.9	87.0	90.2
85°	451.8	167.6	142.9	109.0	85.9	81.1	81.1	77.4	67.1	67.7	72.0
87.5°	137.5	101.0	94.5	77.9	61.8	60.7	58.0	55.3	48.9	48.3	51.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	2847.6	2817.0	2779.9	2698.3	2670.9	2669.2	2694.0	2668.2	2717.6	2696.6	2719.7
5°	2296.4	2266.4	2225.0	2120.8	2057.4	2014.4	1994.0	1933.8	1977.4	1945.7	1972.0
7.5°	1688.9	1695.9	1668.5	1607.2	1469.2	1399.9	1359.1	1322.5	1354.2	1351.0	1401.5
10°	1187.2	1206.0	1186.6	1124.9	1013.1	975.0	982.5	997.0	1038.4	1059.9	1137.7
12.5°	854.7	853.6	841.2	785.9	712.3	716.6	747.2	772.5	810.6	833.2	912.7
15°	638.2	628.5	623.1	578.0	536.1	545.2	560.3	563.0	587.1	600.6	665.0
17.5°	482.4	487.2	493.1	460.9	429.2	423.3	411.5	397.0	404.0	406.6	438.9
20°	383.0	402.3	416.9	394.3	362.1	344.9	329.8	320.2	320.2	319.6	328.8
22.5°	334.7	348.6	364.2	348.6	319.6	304.6	296.0	288.5	287.4	287.4	296.0
25°	308.3	318.5	333.6	322.8	301.4	290.1	282.0	272.4	268.6	267.5	273.4
27.5°	295.4	299.7	307.3	297.6	279.3	274.0	271.8	263.2	258.4	255.7	261.6
30°	273.4	272.4	272.9	263.2	248.7	248.2	251.9	253.5	251.9	251.4	260.5
32.5°	253.0	250.9	250.3	241.7	228.3	225.1	228.3	231.5	235.3	240.7	251.4
35°	227.2	232.6	235.8	228.3	212.2	202.5	198.8	192.8	189.6	189.6	202.0
37.5°	206.8	219.2	224.0	217.0	199.3	185.9	179.4	178.3	178.9	181.0	192.8
40°	199.8	209.0	213.3	206.3	188.6	176.2	172.4	171.4	172.4	175.7	187.5
42.5°	195.5	202.0	201.4	192.8	178.3	169.7	167.6	166.5	167.6	170.8	183.7
45°	191.8	196.1	191.8	181.6	168.1	163.8	164.4	163.8	164.9	168.1	180.5
47.5°	188.6	190.2	184.8	174.6	160.6	159.5	161.7	163.3	164.4	167.1	180.0
50°	183.7	183.7	178.9	168.1	154.2	154.7	157.4	161.2	161.7	164.9	175.1
52.5°	177.8	177.3	174.0	163.8	148.8	150.4	150.4	154.7	155.8	159.5	170.3
55°	173.0	171.9	170.3	160.6	144.0	146.7	145.0	146.7	149.3	153.1	164.9
57.5°	168.7	166.5	166.5	157.9	140.2	141.3	137.5	139.7	142.9	146.1	158.5
60°	164.4	162.2	163.3	154.2	134.3	133.2	131.6	135.9	137.0	140.7	153.1
62.5°	159.5	157.9	158.5	149.9	130.0	127.3	127.3	131.1	131.6	137.0	148.8
65°	155.8	153.6	153.1	145.6	125.2	121.9	123.6	125.2	126.2	131.6	142.9
67.5°	152.0	147.7	147.7	141.8	119.8	116.6	119.8	119.3	120.9	125.7	134.8
70°	147.2	141.3	141.8	139.1	114.4	110.7	113.3	112.8	113.9	117.1	126.2
72.5°	139.7	134.8	135.9	134.8	109.0	103.7	104.8	104.8	104.8	107.4	117.1
75°	130.0	126.2	129.5	132.1	102.6	95.1	96.2	96.2	94.5	96.2	108.0
77.5°	118.2	116.0	126.8	123.0	95.1	85.9	85.9	84.9	81.7	83.8	96.7
80°	105.3	103.7	117.1	103.1	86.5	74.7	73.6	70.9	67.7	69.3	82.2
82.5°	91.9	90.2	98.3	79.0	74.7	61.8	59.1	54.3	51.0	52.6	64.5
85°	75.2	75.2	75.7	59.6	56.9	47.3	44.0	37.6	33.8	34.9	46.2
87.5°	53.7	55.3	51.0	40.8	33.8	26.3	24.2	20.4	17.2	19.9	24.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5	3301.5
2.5°	2837.9	2897.0	2964.2	3050.1	3123.7	3244.6	3360.6	3430.4
5°	2121.9	2220.2	2342.6	2500.0	2646.7	2866.9	3085.6	3225.8
7.5°	1518.6	1623.9	1756.0	1952.6	2160.0	2440.9	2729.9	2897.5
10°	1256.5	1364.4	1475.6	1608.3	1778.1	2083.7	2425.4	2614.5
12.5°	1039.4	1154.9	1274.7	1414.4	1571.8	1844.7	2238.4	2456.0
15°	795.6	924.5	1065.8	1242.5	1439.6	1755.0	2192.2	2428.6
17.5°	545.2	689.2	862.7	1080.8	1322.0	1726.0	2275.0	2547.3
20°	375.5	480.2	665.6	921.3	1211.3	1722.2	2434.0	2775.1
22.5°	314.3	361.0	496.4	774.6	1128.1	1768.4	2680.5	3094.7
25°	290.6	318.5	396.4	647.3	1067.4	1874.8	3020.0	3508.3
27.5°	276.6	301.9	359.9	564.0	1019.6	1998.3	3350.4	3909.1
30°	282.0	307.8	349.7	521.6	954.6	2101.4	3643.7	4221.7
32.5°	254.1	265.4	299.7	484.0	907.8	2187.9	3900.5	4480.6
35°	216.5	236.4	267.5	466.3	908.9	2245.9	4180.3	4811.5
37.5°	206.3	226.2	248.7	459.8	921.3	2307.7	4501.6	5199.4
40°	199.8	218.1	237.4	456.1	933.1	2364.1	4816.4	5582.9
42.5°	195.5	212.2	236.4	443.2	939.0	2414.6	5075.3	5909.0
45°	195.0	212.2	240.7	430.3	948.1	2468.9	5292.3	6150.2
47.5°	195.5	219.2	232.6	414.7	948.1	2559.7	5546.9	6365.6
50°	193.4	231.0	224.0	392.7	926.1	2731.6	5896.1	6654.0
52.5°	192.3	229.4	207.4	358.8	888.0	3004.4	6343.6	7051.6
55°	189.6	221.3	195.5	308.3	843.4	3302.0	6822.7	7521.6
57.5°	186.9	196.1	189.1	264.3	774.6	3511.5	7152.6	7888.5
60°	209.5	171.4	183.7	242.8	682.8	3569.0	7139.7	8034.6
62.5°	193.9	160.6	176.7	238.0	618.3	3407.9	6809.8	7955.6
65°	152.0	153.6	169.7	251.9	601.1	2980.8	6225.4	7590.9
67.5°	139.1	146.7	162.8	269.7	602.7	2386.7	5351.9	6796.4
70°	131.1	139.1	154.7	278.8	607.0	1779.1	4231.4	5535.6
72.5°	121.9	128.9	145.6	280.4	579.1	1292.5	3261.2	4070.2
75°	111.2	117.6	132.7	244.4	479.7	896.6	2494.7	2784.7
77.5°	98.8	103.7	116.6	188.6	356.2	573.7	1872.6	2034.3
80°	84.3	87.0	97.8	138.1	243.9	358.8	1481.5	1632.5
82.5°	67.7	68.8	75.7	103.7	158.5	230.5	992.2	1132.4
85°	47.8	47.8	52.1	75.2	108.0	146.1	538.8	597.3
87.5°	22.6	23.1	23.1	41.4	56.4	74.1	124.1	76.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)