

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: P453946

Luminaire Tested: **GLAN-SA5A-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453946
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5A-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17978 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 154
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



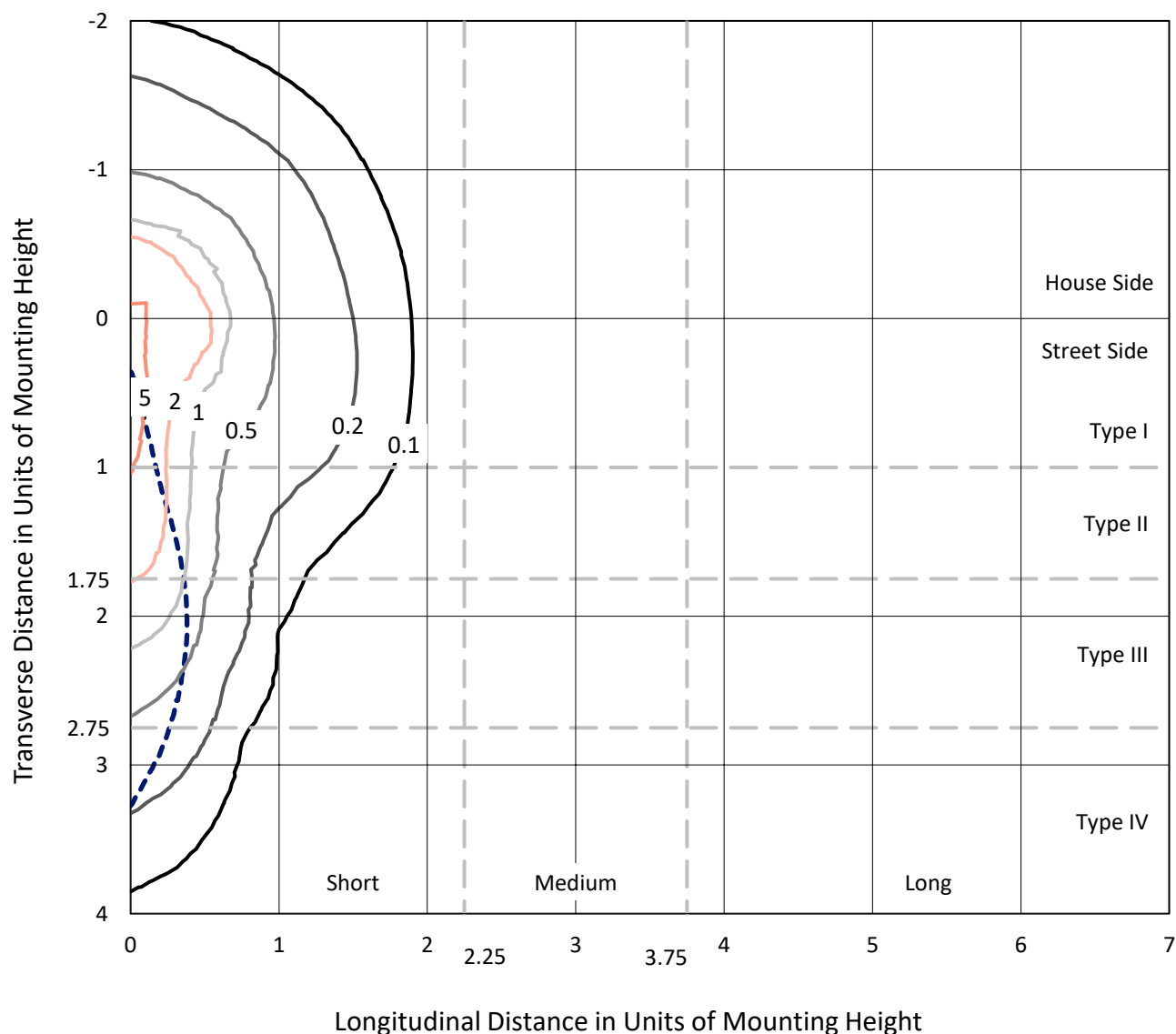
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



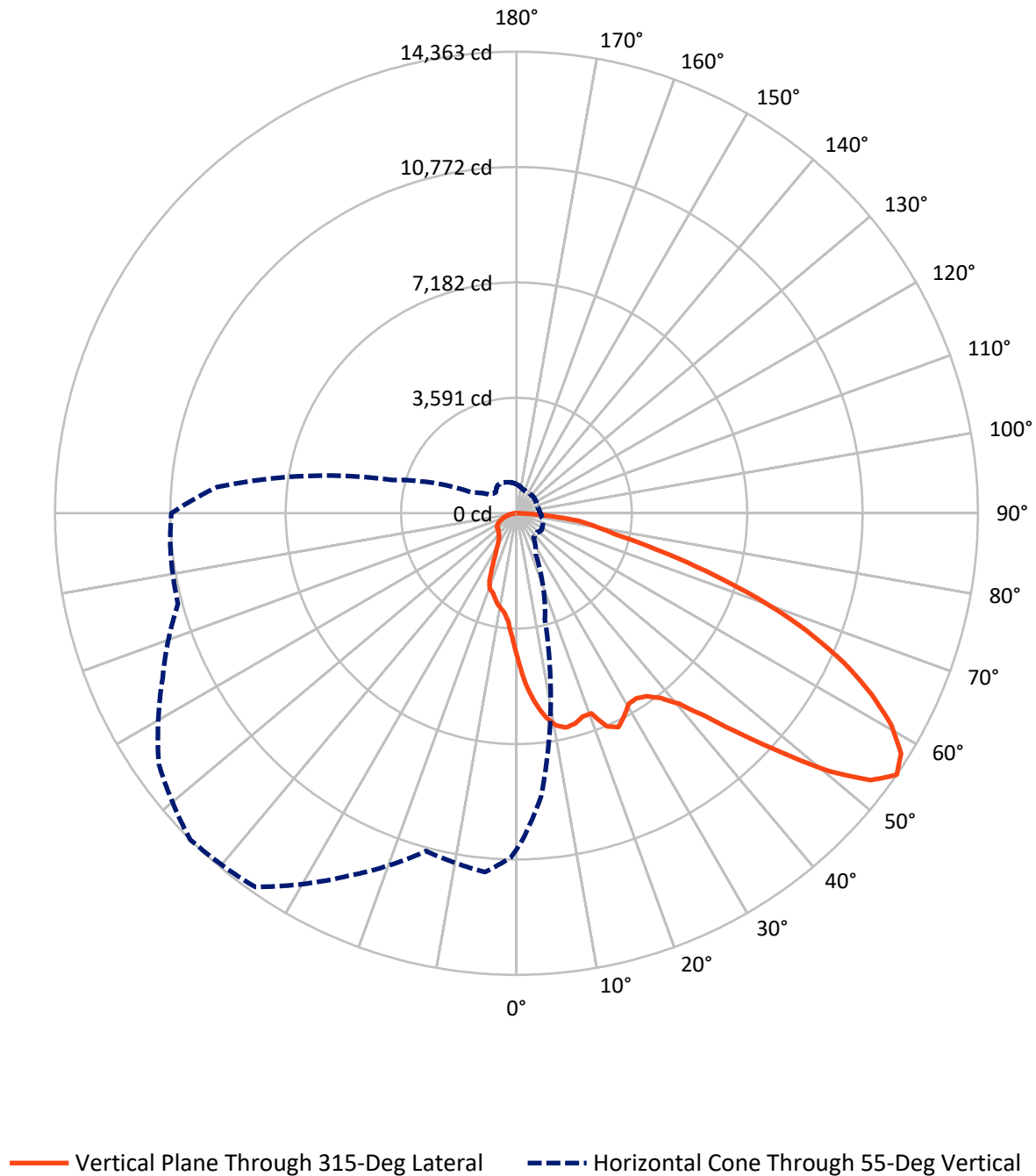
Based on 25 foot mounting height. Maximum calculated value = 7.7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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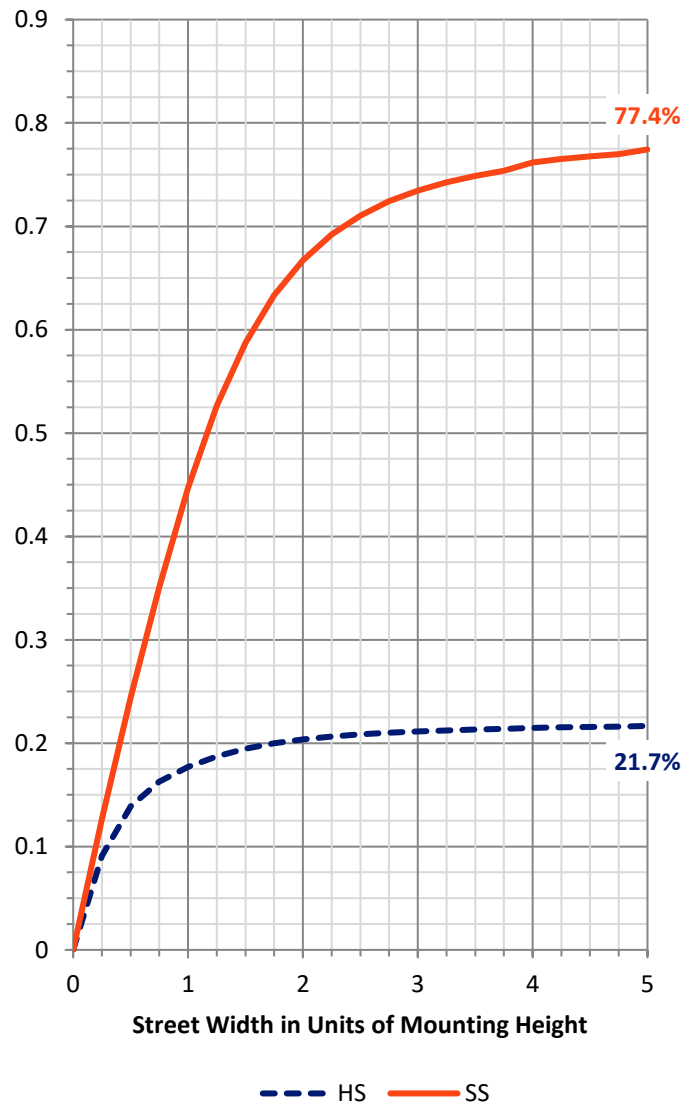
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3932.6	0.0	3932.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14045.4	0.0	14045.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	17978.0	0.0	17978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	2.1
10°-20°	1014.5	5.6
20°-30°	1752.6	9.7
30°-40°	2036.8	11.3
40°-50°	2841.7	15.8
50°-60°	3855.8	21.4
60°-70°	3668.4	20.4
70°-80°	1981.8	11.0
80°-90°	444.1	2.5
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°	17978.0	100.0
0°-180°	17978.0	100.0

Coefficient of Utilization



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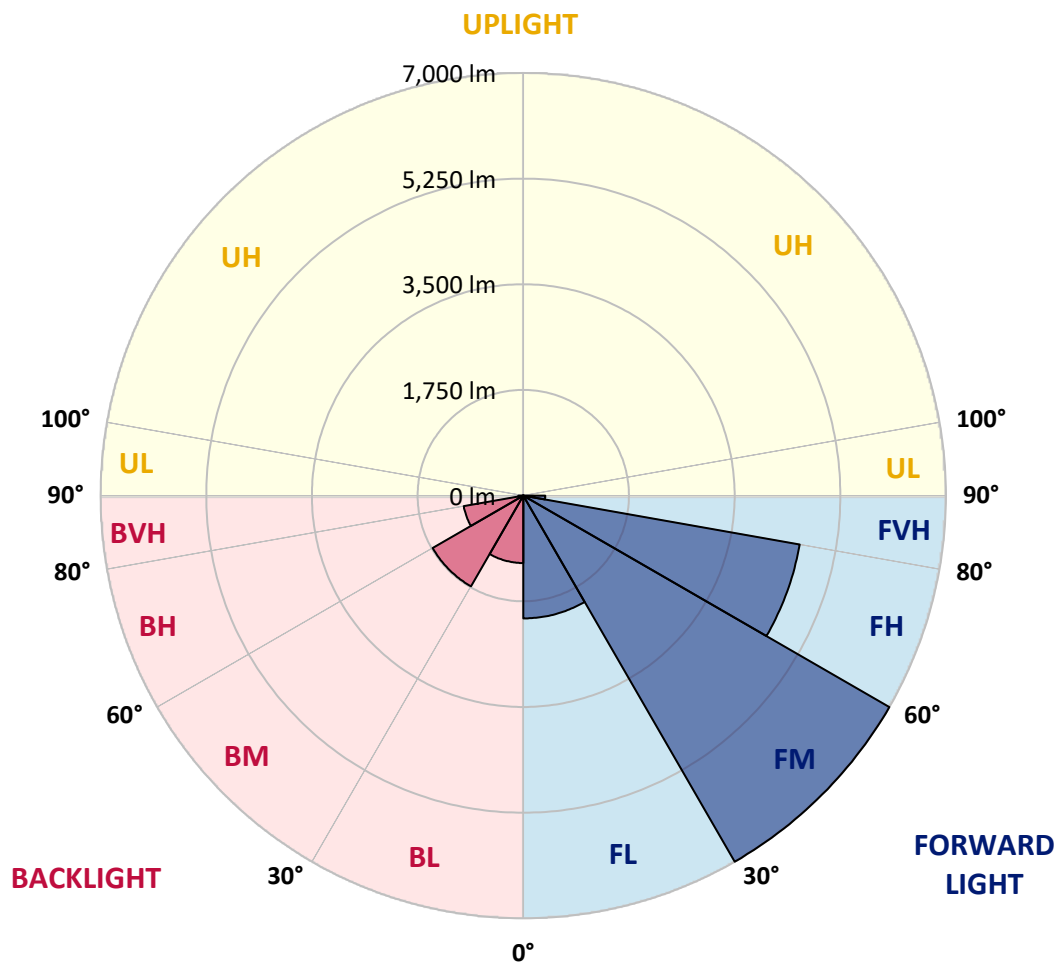
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2033.4	11.3			
FM	(30°-60°)	7000.3	38.9			
FH	(60°-80°)	4648.8	25.9			G2/5000
FVH	(80°-90°)	363.0	2.0			G3/500
BL	(0°-30°)	1116.1	6.2	B3/2500		
BM	(30°-60°)	1734.0	9.6	B2/2500		
BH	(60°-80°)	1001.3	5.6	B3/2500		G3/2500
BVH	(80°-90°)	81.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8
2.5°	5012.3	4993.3	4939.9	4800.0	4658.8	4515.3	4405.0	4267.4	4123.9	4046.8	3948.4
5°	5081.1	5059.7	4934.0	4618.5	4332.7	4032.6	3793.0	3583.1	3497.7	3372.0	3271.2
7.5°	4919.8	4910.3	4721.7	4268.6	3877.2	3484.6	3213.0	3044.6	2891.6	2834.7	2846.5
10°	4772.7	4734.8	4498.7	3906.9	3450.3	3131.2	2936.7	2771.8	2663.9	2635.4	2641.4
12.5°	4650.5	4599.5	4320.8	3663.7	3264.0	3009.0	2761.1	2589.2	2490.7	2518.0	2610.5
15°	4625.6	4556.8	4246.1	3580.7	3162.0	2833.5	2561.9	2363.8	2290.3	2349.6	2497.8
17.5°	4786.9	4700.4	4374.2	3608.0	3064.8	2654.4	2321.1	2094.6	2032.9	2127.8	2321.1
20°	5305.3	5177.2	4773.9	3765.7	3055.3	2565.4	2181.2	1953.4	1979.5	2159.8	2361.4
22.5°	6263.6	6071.4	5473.7	3995.8	3105.1	2542.9	2152.7	2034.1	2177.6	2330.6	2463.4
25°	6453.4	6302.7	5599.4	4048.0	3094.4	2527.5	2233.4	2292.7	2452.8	2528.7	2482.4
27.5°	6560.1	6388.1	5591.1	3789.5	2767.1	2292.7	2134.9	2233.4	2273.7	2200.1	2074.4
30°	6809.2	6630.1	5732.2	3517.9	2278.4	1700.8	1490.9	1450.6	1477.8	1492.1	1447.0
32.5°	7151.9	6975.2	5997.9	3339.9	1970.0	1406.7	1200.3	1143.4	1130.3	1114.9	1097.1
35°	7595.5	7323.9	6258.8	3226.1	1843.1	1301.1	1111.3	1067.5	1049.7	1028.3	1009.3
37.5°	8046.2	7761.6	6588.6	3106.3	1758.9	1227.6	1052.0	1031.9	1001.0	978.5	951.2
40°	8525.4	8206.4	6888.6	3001.9	1677.1	1180.1	1009.3	1007.0	966.6	940.5	908.5
42.5°	8940.5	8612.0	7156.7	2937.9	1614.2	1130.3	983.2	990.4	948.8	909.7	868.2
45°	9270.3	8947.6	7404.6	2937.9	1563.2	1080.5	978.5	973.8	932.2	883.6	836.2
47.5°	9559.7	9226.4	7646.5	3012.6	1531.2	1039.0	952.4	960.7	918.0	856.3	810.1
50°	9783.8	9489.7	7972.7	3128.8	1499.2	1005.8	919.2	964.3	906.2	842.1	788.7
52.5°	10069.7	9806.4	8365.3	3287.8	1471.9	969.0	889.5	964.3	905.0	843.3	785.2
55°	10465.8	10188.3	8838.5	3419.4	1428.0	934.6	863.5	937.0	901.4	837.4	775.7
57.5°	10743.3	10535.8	9173.0	3507.2	1365.2	890.7	839.7	910.9	886.0	814.8	747.2
58°	10756.4	10553.6	9221.6	3527.3	1349.7	882.4	833.8	899.0	878.9	805.3	737.7
60°	10606.9	10432.6	9231.1	3498.9	1262.0	840.9	803.0	850.4	840.9	749.6	686.7
62.5°	10063.7	9877.5	8848.0	3267.6	1145.7	789.9	755.5	785.2	763.8	671.3	613.2
65°	9291.6	8948.8	8060.5	2904.7	1062.7	735.4	691.5	693.8	671.3	604.9	553.9
67.5°	8263.3	7880.2	6824.6	2448.0	999.8	674.9	615.6	609.6	582.4	539.7	498.1
70°	6997.8	6735.6	5546.0	1991.4	929.9	608.4	530.2	526.6	510.0	478.0	441.2
72.5°	5671.7	5338.5	4478.6	1594.1	844.5	544.4	450.7	457.8	436.5	413.9	380.7
75°	4185.6	3967.4	3462.1	1278.6	729.4	474.4	376.0	378.4	368.9	345.1	319.1
77.5°	2756.4	2691.2	2476.5	839.7	561.0	377.2	307.2	309.6	302.4	281.1	253.8
80°	1855.0	1811.1	1678.3	540.8	374.8	272.8	237.2	239.6	238.4	215.9	179.1
82.5°	1143.4	1124.4	1081.7	365.3	259.7	195.7	156.6	163.7	176.7	151.8	122.2
85°	539.7	540.8	653.5	199.3	153.0	125.7	85.4	91.3	91.3	91.3	68.8
87.5°	70.0	73.5	90.1	84.2	55.7	47.4	30.8	26.1	22.5	29.7	21.3
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°	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8
2.5°	3914.0	3890.3	3839.3	3827.4	3820.3	3840.5	3787.1	3801.3	3777.6	3844.0	3833.3
5°	3277.1	3279.5	3321.0	3348.2	3357.7	3348.2	3312.7	3251.0	3203.6	3184.6	3189.3
7.5°	2824.0	2865.5	2936.7	3016.2	3088.5	3109.9	3089.7	2972.3	2844.2	2763.5	2737.4
10°	2673.4	2729.1	2811.0	2873.8	2937.9	2988.9	2999.5	2908.2	2756.4	2565.4	2490.7
12.5°	2681.7	2757.6	2835.9	2856.0	2850.1	2870.3	2860.8	2845.4	2745.7	2502.6	2378.1
15°	2603.4	2693.5	2748.1	2737.4	2718.5	2700.7	2675.8	2636.6	2601.0	2430.2	2292.7
17.5°	2423.1	2515.6	2560.7	2564.3	2564.3	2559.5	2499.0	2484.8	2480.1	2397.0	2312.8
20°	2456.3	2507.3	2487.2	2454.0	2463.4	2495.5	2459.9	2452.8	2480.1	2516.8	2501.4
22.5°	2475.3	2457.5	2305.7	2158.6	2125.4	2225.1	2245.2	2324.7	2435.0	2567.8	2654.4
25°	2357.9	2214.4	1942.8	1776.7	1683.0	1775.5	1896.5	2043.6	2208.4	2379.2	2480.1
27.5°	1971.2	1862.1	1667.6	1518.2	1436.3	1450.6	1553.7	1687.8	1840.8	1955.8	2029.4
30°	1484.9	1436.3	1335.5	1284.5	1234.7	1222.8	1266.7	1317.7	1385.3	1399.6	1418.5
32.5°	1093.5	1086.4	1092.4	1075.8	1066.3	1065.1	1052.0	1063.9	1071.0	1079.3	1062.7
35°	989.2	979.7	963.1	958.3	952.4	954.8	948.8	942.9	947.7	954.8	959.5
37.5°	935.8	921.6	897.8	889.5	889.5	893.1	883.6	881.2	889.5	912.1	923.9
40°	894.3	877.7	850.4	839.7	846.8	856.3	843.3	838.5	858.7	882.4	901.4
42.5°	855.1	842.1	816.0	804.1	810.1	827.9	808.9	805.3	831.4	857.5	880.1
45°	821.9	808.9	785.2	779.2	781.6	798.2	785.2	785.2	810.1	838.5	858.7
47.5°	795.8	779.2	763.8	759.1	761.5	770.9	768.6	768.6	792.3	821.9	842.1
50°	769.8	755.5	735.4	737.7	743.7	756.7	755.5	759.1	782.8	819.6	840.9
52.5°	757.9	736.5	714.0	716.4	734.2	749.6	744.8	748.4	775.7	844.5	875.3
55°	744.8	716.4	690.3	693.8	714.0	736.5	730.6	735.4	767.4	861.1	903.8
57.5°	719.9	686.7	658.3	660.6	690.3	714.0	704.5	710.5	748.4	843.3	888.4
58°	709.3	680.8	653.5	654.7	683.2	709.3	698.6	703.3	742.5	838.5	881.2
60°	664.2	647.6	623.9	625.1	652.3	674.9	668.9	673.7	711.6	804.1	836.2
62.5°	602.5	593.0	587.1	587.1	603.7	625.1	631.0	636.9	671.3	727.1	755.5
65°	536.1	536.1	537.3	537.3	548.0	575.2	578.8	594.2	626.2	653.5	674.9
67.5°	491.0	488.7	491.0	485.1	489.8	506.4	524.2	538.5	571.7	590.7	597.8
70°	432.9	431.7	432.9	424.6	430.5	444.8	456.6	480.4	514.8	529.0	532.5
72.5°	376.0	376.0	378.4	372.4	372.4	387.8	396.1	422.2	454.3	462.6	463.7
75°	316.7	320.2	320.2	311.9	314.3	323.8	334.5	355.8	385.5	391.4	391.4
77.5°	251.4	264.5	264.5	256.2	259.7	260.9	275.2	285.8	308.4	310.7	301.3
80°	182.7	195.7	206.4	199.3	205.2	198.1	206.4	213.5	236.0	225.4	209.9
82.5°	130.5	140.0	148.3	149.4	143.5	130.5	141.1	142.3	153.0	138.8	130.5
85°	72.3	80.7	91.3	86.6	77.1	68.8	72.3	74.7	73.5	70.0	65.2
87.5°	19.0	20.2	22.5	16.6	15.4	13.0	17.8	17.8	20.2	21.3	20.2
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8
2.5°	3841.7	3893.8	4006.5	4091.9	4196.3	4323.2	4472.6	4623.3	4785.8	4836.8	4907.9
5°	3178.6	3309.1	3363.7	3519.0	3673.2	3904.5	4151.2	4437.1	4750.2	4900.8	5045.5
7.5°	2716.1	2786.1	2843.0	2956.8	3141.9	3423.0	3732.5	4089.5	4533.1	4752.5	4964.9
10°	2467.0	2474.1	2544.1	2685.2	2846.5	3094.4	3387.4	3787.1	4281.7	4548.5	4797.6
12.5°	2302.1	2271.3	2347.2	2494.3	2676.9	2905.8	3175.1	3555.8	4100.2	4374.2	4675.5
15°	2157.4	2108.8	2165.7	2316.4	2496.7	2765.9	3055.3	3458.6	4029.0	4348.1	4682.6
17.5°	2161.0	2027.0	2047.1	2174.0	2353.1	2627.1	2978.2	3455.0	4137.0	4504.7	4900.8
20°	2427.9	2213.2	2121.9	2145.6	2318.7	2617.6	3013.8	3621.0	4491.6	5027.7	5451.1
22.5°	2690.0	2560.7	2413.6	2365.0	2459.9	2773.0	3240.3	4013.6	5262.6	6070.3	6835.3
25°	2598.7	2709.0	2672.2	2603.4	2624.8	2884.5	3394.5	4336.2	5861.5	6771.2	7490.0
27.5°	2079.2	2279.6	2319.9	2318.7	2327.1	2540.5	3052.9	4119.2	5936.2	6905.2	7592.0
30°	1461.2	1479.0	1500.4	1541.9	1579.8	1770.8	2388.7	3616.3	5903.0	6965.7	7653.7
32.5°	1054.4	1078.1	1107.8	1164.7	1254.9	1498.0	2089.8	3456.2	6078.6	7216.0	7833.9
35°	964.3	991.5	1020.0	1085.2	1170.6	1396.0	1971.2	3389.8	6366.8	7621.6	8157.7
37.5°	935.8	966.6	991.5	1039.0	1107.8	1322.5	1863.3	3344.7	6662.1	8051.0	8591.8
40°	915.6	951.2	971.4	1009.3	1056.8	1254.9	1767.2	3309.1	6947.9	8443.6	8940.5
42.5°	897.8	934.6	960.7	988.0	1027.1	1194.4	1681.8	3273.5	7195.8	8824.3	9288.0
45°	876.5	922.8	956.0	977.3	1011.7	1143.4	1616.6	3245.1	7478.1	9162.3	9639.1
47.5°	858.7	909.7	951.2	976.1	989.2	1107.8	1564.4	3284.2	7817.3	9515.8	9965.3
50°	859.9	908.5	960.7	999.8	965.5	1078.1	1532.4	3439.6	8258.5	9935.6	10222.7
52.5°	897.8	957.2	998.7	1008.2	932.2	1042.5	1515.8	3711.2	8780.4	10306.9	10482.4
55°	940.5	1002.2	1047.3	1041.4	914.5	997.5	1512.2	4000.6	9352.1	10739.8	10820.4
57.5°	925.1	1015.3	1084.1	1053.2	915.6	953.6	1496.8	4234.2	9830.1	11063.6	11154.9
58°	920.4	1010.5	1088.8	1050.8	912.1	940.5	1493.3	4254.4	9896.5	11086.1	11202.3
60°	874.1	969.0	1085.2	1033.1	891.9	905.0	1454.1	4319.6	9878.7	10969.9	11230.8
62.5°	789.9	868.2	1003.4	946.5	830.2	857.5	1366.3	4239.0	9397.2	10410.1	10814.5
65°	695.0	753.1	843.3	832.6	742.5	808.9	1246.6	3919.9	8432.9	9501.5	9927.3
67.5°	623.9	671.3	728.2	712.8	667.8	743.7	1117.3	3380.3	7351.2	8410.4	8946.5
70°	551.5	588.3	616.8	606.1	591.8	679.6	1002.2	2743.4	6314.6	7373.7	7893.2
72.5°	478.0	512.4	536.1	520.7	512.4	612.0	908.5	2129.0	4987.4	6083.3	6751.1
75°	399.7	434.1	450.7	432.9	428.2	539.7	769.8	1590.5	3742.0	4689.7	5266.1
77.5°	309.6	346.3	367.7	361.7	364.1	443.6	621.5	1088.8	2675.8	3196.4	3803.7
80°	217.0	257.4	271.6	265.7	282.3	338.0	438.8	691.5	1845.5	2074.4	2502.6
82.5°	134.0	172.0	174.4	180.3	192.1	250.3	330.9	421.1	1158.8	1197.9	1508.7
85°	67.6	81.8	87.8	97.3	107.9	153.0	188.6	260.9	746.0	564.6	843.3
87.5°	22.5	23.7	28.5	35.6	43.9	62.9	80.7	106.7	185.0	102.0	260.9
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8	4511.8
2.5°	5051.4	5152.2	5225.8	5293.4	5228.2	5222.2	5158.2	5055.0	5012.3	5012.3
5°	5349.1	5585.2	5776.1	5898.3	5846.1	5720.4	5512.8	5248.3	5106.0	5081.1
7.5°	5431.0	5897.1	6251.7	6377.4	6289.7	6012.1	5614.8	5168.9	4964.9	4919.8
10°	5381.2	5987.2	6507.9	6707.2	6585.0	6165.1	5623.1	5076.3	4824.9	4772.7
12.5°	5329.0	5999.1	6555.4	6843.6	6764.1	6288.5	5683.6	5015.9	4725.3	4650.5
15°	5366.9	6003.8	6497.2	6794.9	6845.9	6436.8	5783.2	5059.7	4705.1	4625.6
17.5°	5606.5	6094.0	6414.2	6655.0	6834.1	6638.4	6066.7	5269.7	4885.4	4786.9
20°	6107.0	6309.8	6461.7	6647.9	6936.1	7049.9	6646.7	5846.1	5391.8	5305.3
22.5°	7556.4	7519.6	7208.9	7205.3	7622.8	8079.4	8052.2	7017.9	6334.8	6263.6
25°	8099.6	7928.8	7479.3	7370.2	7554.0	8258.5	8156.5	7257.5	6626.5	6453.4
27.5°	7887.3	7463.9	7168.6	7143.6	7083.2	7748.5	7994.1	7354.8	6728.5	6560.1
30°	7874.3	7251.6	6829.3	6879.2	6937.3	7573.0	8084.2	7659.6	6989.5	6809.2
32.5°	7906.3	7281.2	6854.2	6863.7	7036.9	7599.1	8183.8	7991.7	7332.2	7151.9
35°	8035.6	7449.6	7013.2	6990.6	7261.1	7769.9	8353.4	8513.5	7800.7	7595.5
37.5°	8244.3	7785.3	7303.8	7297.8	7690.4	8078.3	8564.5	9040.2	8266.8	8046.2
40°	8551.5	8177.9	7820.9	7788.9	8274.0	8580.0	8838.5	9601.2	8808.9	8525.4
42.5°	8922.7	8648.8	8502.9	8629.8	9095.9	9143.3	9265.5	10119.5	9270.3	8940.5
45°	9266.7	9253.6	9456.5	9793.3	10064.9	9780.3	9711.5	10467.0	9628.4	9270.3
47.5°	9675.9	10029.3	10641.3	11134.7	11419.4	10521.5	10092.2	10693.5	9889.4	9559.7
50°	10091.0	10958.0	11935.3	12623.2	12683.7	11326.9	10354.3	10907.0	10126.6	9783.8
52.5°	10527.5	11699.3	13000.4	13799.8	13682.4	12027.8	10608.1	11051.7	10370.9	10069.7
55°	10907.0	12153.6	13595.8	14363.2	14191.2	12454.8	10882.1	11208.3	10719.6	10465.8
57.5°	11119.3	12191.5	13447.6	14117.7	13931.5	12371.8	11007.8	11324.5	10942.6	10743.3
58°	11150.2	12140.5	13315.9	13975.4	13785.6	12301.8	11006.6	11319.8	10956.8	10756.4
60°	11122.9	11809.6	12826.1	13413.2	13213.9	11863.0	10961.6	11230.8	10776.5	10606.9
62.5°	10870.2	11235.6	11980.4	12407.4	12350.5	11177.4	10776.5	10895.2	10227.4	10063.7
65°	10538.2	10452.8	10897.5	11200.0	11242.7	10663.9	10592.7	10169.3	9522.9	9291.6
67.5°	10134.9	9565.6	9564.4	9736.4	9807.5	9874.0	10209.6	9380.6	8507.6	8263.3
70°	9450.5	8198.1	7820.9	8023.7	7964.4	8525.4	9525.3	8272.8	7283.6	6997.8
72.5°	8195.7	6505.5	5901.8	6162.8	6013.3	6685.8	8334.5	6808.0	6022.8	5671.7
75°	6643.1	4866.4	4243.7	4483.3	4390.8	5071.6	6934.9	4944.7	4319.6	4185.6
77.5°	5158.2	3526.2	3164.4	3131.2	3200.0	3774.0	5087.0	3338.8	2847.7	2756.4
80°	3313.9	2523.9	2545.3	2502.6	2538.2	2379.2	3088.5	2130.2	1928.5	1855.0
82.5°	2181.2	1758.9	2097.0	1935.7	1838.4	1600.0	2025.8	1394.8	1183.7	1143.4
85°	1486.1	1295.2	1178.9	901.4	1061.5	1232.3	1519.3	750.8	595.4	539.7
87.5°	671.3	450.7	330.9	204.0	322.6	372.4	737.7	87.8	67.6	70.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)