

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: P453250

Luminaire Tested: **GLAN-SA4B-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453250
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-SA4B-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 17671 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 164
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



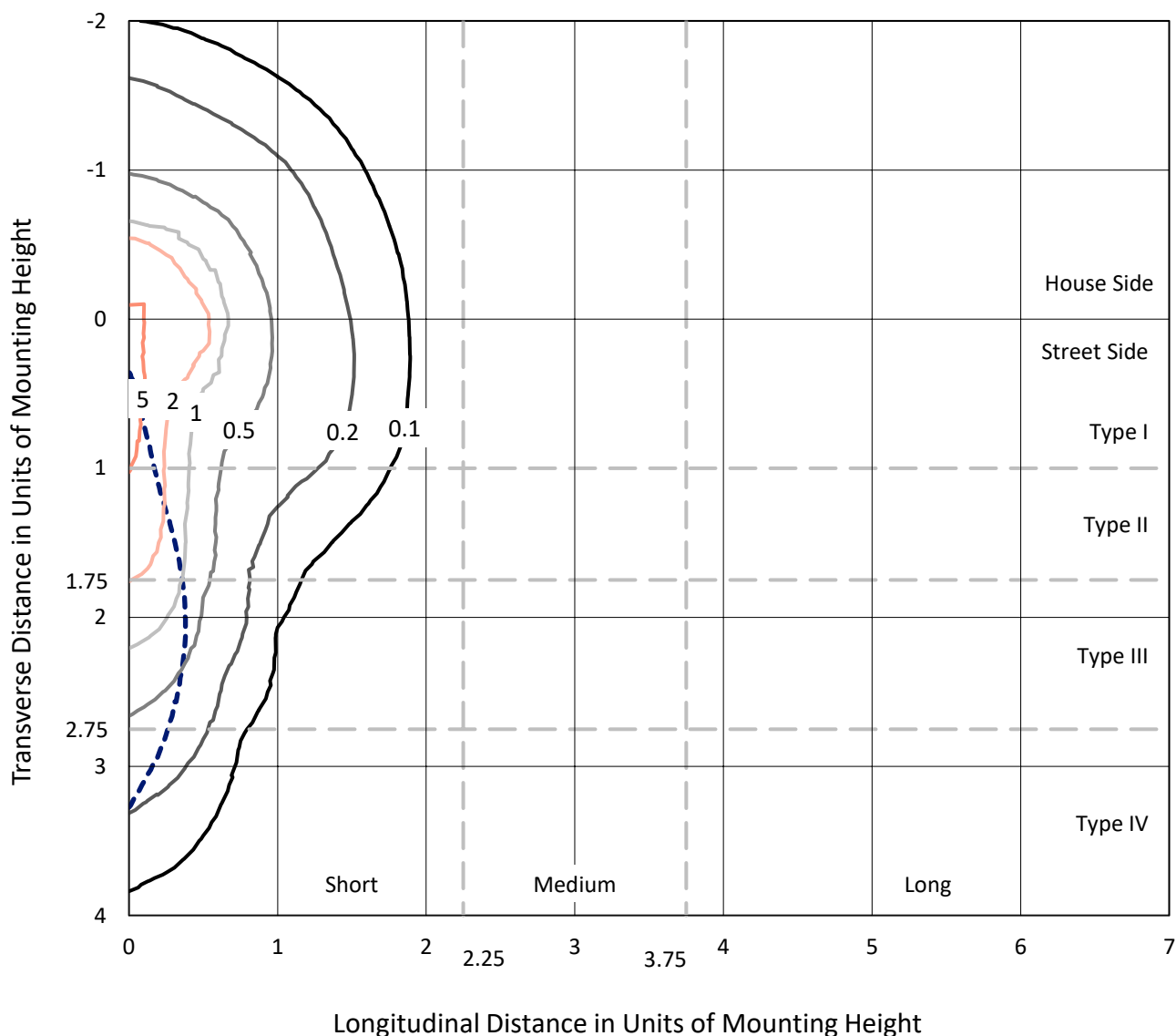
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



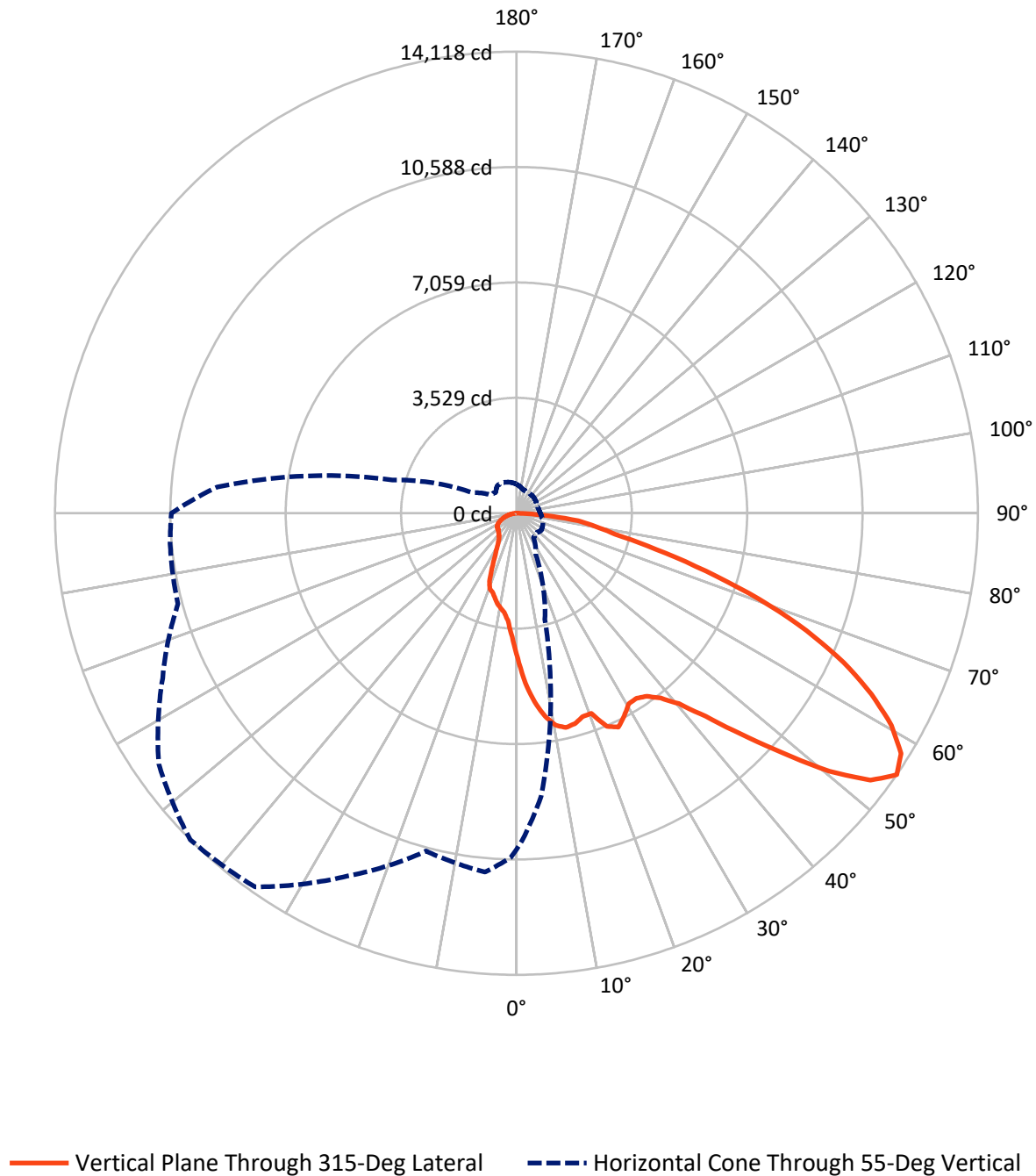
Based on 25 foot mounting height. Maximum calculated value = 7.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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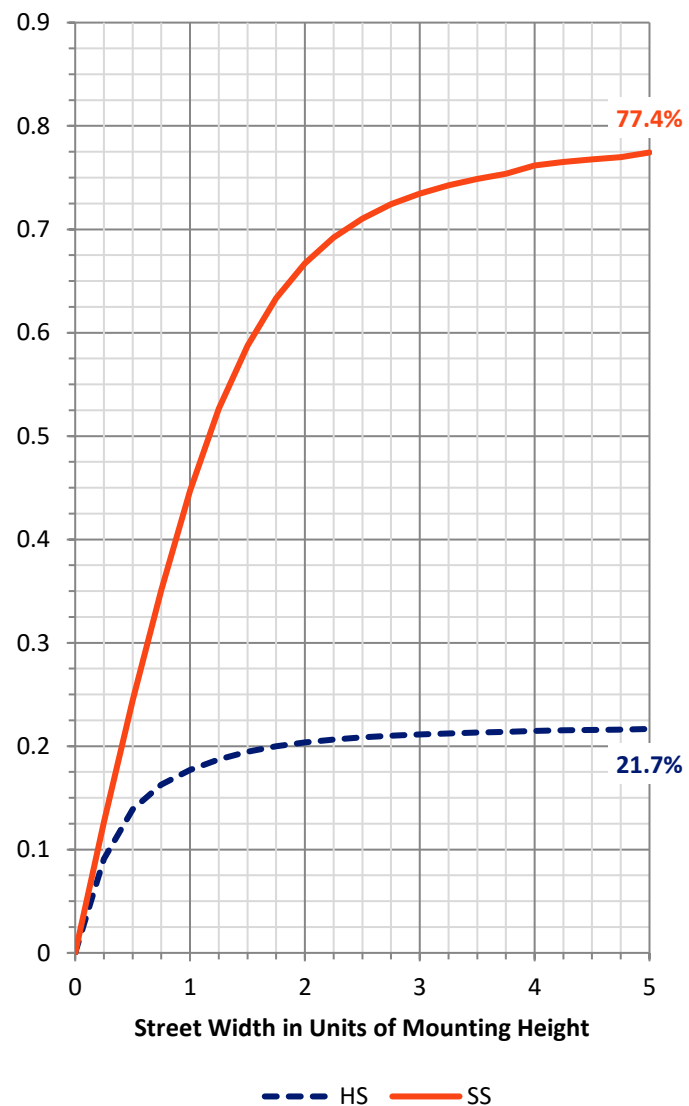
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.5	0.0	3865.5
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	13805.6	0.0	13805.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	17671.0	0.0	17671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.9	2.1
10°-20°	997.2	5.6
20°-30°	1722.6	9.7
30°-40°	2002.0	11.3
40°-50°	2793.2	15.8
50°-60°	3790.0	21.4
60°-70°	3605.7	20.4
70°-80°	1947.9	11.0
80°-90°	436.6	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°	17671.0	100.0
0°-180°	17671.0	100.0

Coefficient of Utilization



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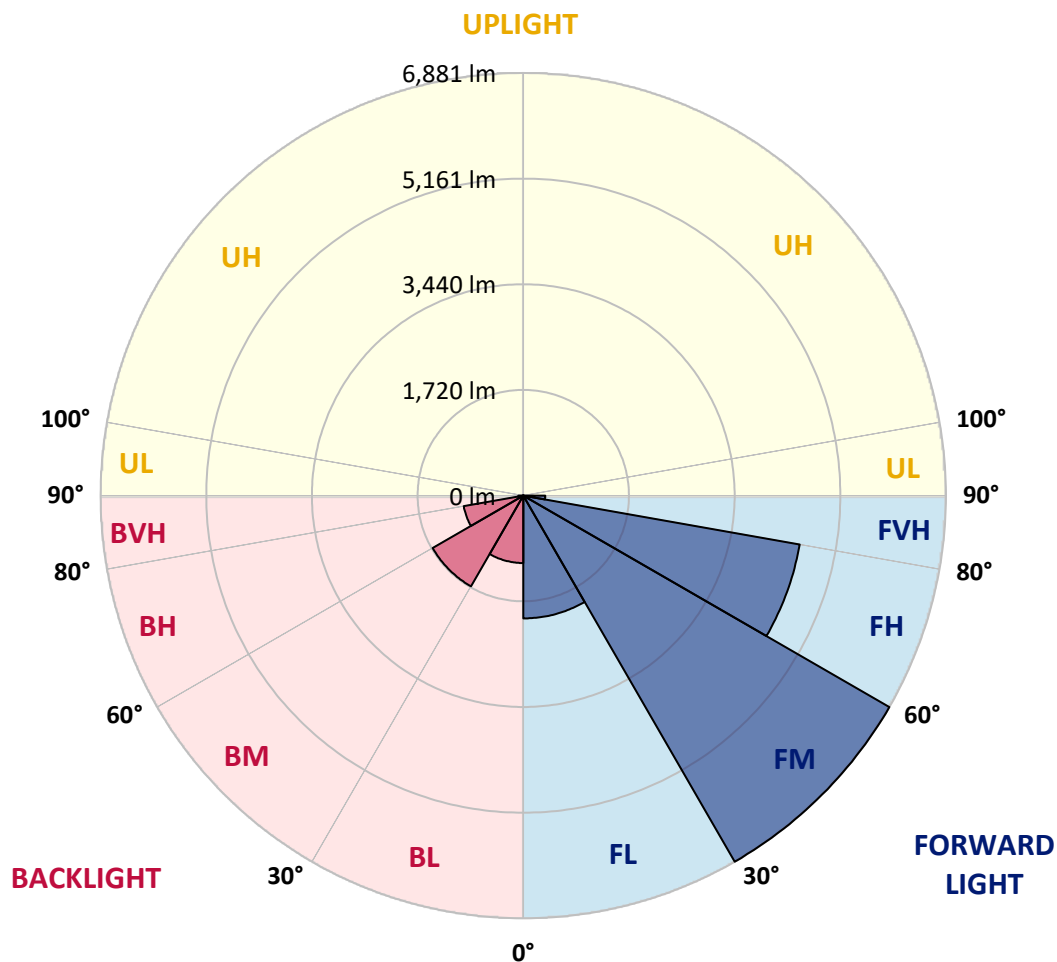
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1998.6	11.3			
FM	(30°-60°)	6880.7	38.9			
FH	(60°-80°)	4569.4	25.9			G2/5000
FVH	(80°-90°)	356.8	2.0			G3/500
BL	(0°-30°)	1097.0	6.2	B3/2500		
BM	(30°-60°)	1704.4	9.6	B2/2500		
BH	(60°-80°)	984.2	5.6	B2/1000		G2/1000
BVH	(80°-90°)	79.8	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°	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7
2.5°	4926.7	4908.0	4855.6	4718.0	4579.3	4438.2	4329.8	4194.6	4053.5	3977.7	3881.0
5°	4994.3	4973.3	4849.8	4539.7	4258.7	3963.7	3728.3	3521.9	3438.0	3314.4	3215.3
7.5°	4835.8	4826.4	4641.1	4195.7	3811.0	3425.1	3158.2	2992.6	2842.2	2786.3	2797.9
10°	4691.2	4653.9	4421.9	3840.2	3391.3	3077.7	2886.5	2724.5	2618.4	2590.4	2596.3
12.5°	4571.1	4521.0	4247.0	3601.2	3208.3	2957.7	2714.0	2545.0	2448.2	2475.0	2565.9
15°	4546.6	4479.0	4173.6	3519.6	3108.0	2785.1	2518.1	2323.5	2251.2	2309.5	2455.2
17.5°	4705.2	4620.1	4299.5	3546.4	3012.4	2609.1	2281.5	2058.8	1998.2	2091.5	2281.5
20°	5214.7	5088.7	4692.4	3701.4	3003.1	2521.6	2143.9	1920.1	1945.7	2122.9	2321.1
22.5°	6156.6	5967.8	5380.2	3927.6	3052.1	2499.5	2115.9	1999.4	2140.4	2290.8	2421.4
25°	6343.2	6195.1	5503.8	3978.9	3041.6	2484.3	2195.2	2253.5	2410.9	2485.5	2440.0
27.5°	6448.1	6279.0	5495.6	3724.8	2719.8	2253.5	2098.5	2195.2	2234.9	2162.6	2039.0
30°	6692.9	6516.9	5634.3	3457.8	2239.5	1671.8	1465.4	1425.8	1452.6	1466.6	1422.3
32.5°	7029.8	6856.1	5895.5	3282.9	1936.4	1382.6	1179.8	1123.8	1111.0	1095.9	1078.4
35°	7465.8	7198.9	6152.0	3171.0	1811.7	1278.9	1092.4	1049.2	1031.7	1010.8	992.1
37.5°	7908.8	7629.0	6476.1	3053.2	1728.9	1206.6	1034.1	1014.3	983.9	961.8	935.0
40°	8379.8	8066.2	6771.0	2950.7	1648.5	1160.0	992.1	989.8	950.1	924.5	893.0
42.5°	8787.9	8464.9	7034.5	2887.7	1586.7	1111.0	966.5	973.4	932.6	894.2	853.4
45°	9111.9	8794.8	7278.1	2887.7	1536.5	1062.1	961.8	957.1	916.3	868.5	821.9
47.5°	9396.4	9068.8	7516.0	2961.2	1505.1	1021.2	936.1	944.3	902.3	841.7	796.2
50°	9616.7	9327.6	7836.6	3075.4	1473.6	988.6	903.5	947.8	890.7	827.7	775.3
52.5°	9897.7	9638.9	8222.4	3231.6	1446.8	952.5	874.4	947.8	889.5	828.9	771.8
55°	10287.1	10014.3	8687.6	3361.0	1403.6	918.7	848.7	921.0	886.0	823.1	762.4
57.5°	10559.9	10355.9	9016.4	3447.3	1341.8	875.5	825.4	895.3	870.9	800.9	734.5
58°	10572.7	10373.4	9064.2	3467.1	1326.7	867.4	819.6	883.7	863.9	791.6	725.1
60°	10425.8	10254.4	9073.5	3439.1	1240.4	826.6	789.3	835.9	826.6	736.8	675.0
62.5°	9891.9	9708.8	8696.9	3211.8	1126.2	776.4	742.6	771.8	750.8	659.8	602.7
65°	9132.9	8796.0	7922.8	2855.1	1044.6	722.8	679.7	682.0	659.8	594.6	544.4
67.5°	8122.2	7745.6	6708.1	2406.2	982.8	663.3	605.1	599.2	572.4	530.4	489.6
70°	6878.3	6620.6	5451.3	1957.4	914.0	598.1	521.1	517.6	501.3	469.8	433.7
72.5°	5574.9	5247.3	4402.1	1566.8	830.1	535.1	443.0	450.0	429.0	406.9	374.2
75°	4114.1	3899.6	3403.0	1256.7	717.0	466.3	369.6	371.9	362.6	339.2	313.6
77.5°	2709.3	2645.2	2434.2	825.4	551.4	370.7	301.9	304.3	297.3	276.3	249.5
80°	1823.3	1780.2	1649.6	531.6	368.4	268.1	233.2	235.5	234.3	212.2	176.0
82.5°	1123.8	1105.2	1063.2	359.1	255.3	192.4	153.9	160.9	173.7	149.2	120.1
85°	530.4	531.6	642.4	195.9	150.4	123.6	83.9	89.8	89.8	89.8	67.6
87.5°	68.8	72.3	88.6	82.8	54.8	46.6	30.3	25.6	22.2	29.1	21.0
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°	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7
2.5°	3847.2	3823.8	3773.7	3762.1	3755.1	3774.9	3722.4	3736.4	3713.1	3778.4	3767.9
5°	3221.1	3223.5	3264.3	3291.1	3300.4	3291.1	3256.1	3195.5	3148.8	3130.2	3134.9
7.5°	2775.8	2816.6	2886.5	2964.6	3035.8	3056.7	3036.9	2921.5	2795.6	2716.3	2690.7
10°	2627.7	2682.5	2763.0	2824.8	2887.7	2937.8	2948.3	2858.6	2709.3	2521.6	2448.2
12.5°	2635.9	2710.5	2787.4	2807.3	2801.4	2821.3	2811.9	2796.8	2698.8	2459.9	2337.4
15°	2558.9	2647.5	2701.2	2690.7	2672.0	2654.5	2630.1	2591.6	2556.6	2388.7	2253.5
17.5°	2381.7	2472.7	2517.0	2520.5	2520.5	2515.8	2456.4	2442.4	2437.7	2356.1	2273.3
20°	2414.4	2464.5	2444.7	2412.1	2421.4	2452.9	2417.9	2410.9	2437.7	2473.8	2458.7
22.5°	2433.0	2415.6	2266.3	2121.8	2089.1	2187.1	2206.9	2285.0	2393.4	2524.0	2609.1
25°	2317.6	2176.6	1909.6	1746.4	1654.3	1745.2	1864.1	2008.7	2170.7	2338.6	2437.7
27.5°	1937.6	1830.3	1639.1	1492.2	1411.8	1425.8	1527.2	1658.9	1809.3	1922.4	1994.7
30°	1459.6	1411.8	1312.7	1262.6	1213.6	1201.9	1245.1	1295.2	1361.7	1375.7	1394.3
32.5°	1074.9	1067.9	1073.7	1057.4	1048.1	1046.9	1034.1	1045.7	1052.7	1060.9	1044.6
35°	972.3	963.0	946.6	942.0	936.1	938.5	932.6	926.8	931.5	938.5	943.1
37.5°	919.8	905.8	882.5	874.4	874.4	877.9	868.5	866.2	874.4	896.5	908.2
40°	879.0	862.7	835.9	825.4	832.4	841.7	828.9	824.2	844.0	867.4	886.0
42.5°	840.5	827.7	802.1	790.4	796.2	813.7	795.1	791.6	817.2	842.9	865.0
45°	807.9	795.1	771.8	765.9	768.3	784.6	771.8	771.8	796.2	824.2	844.0
47.5°	782.3	765.9	750.8	746.1	748.4	757.8	755.4	755.4	778.8	807.9	827.7
50°	756.6	742.6	722.8	725.1	731.0	743.8	742.6	746.1	769.4	805.6	826.6
52.5°	745.0	724.0	701.8	704.1	721.6	736.8	732.1	735.6	762.4	830.1	860.4
55°	732.1	704.1	678.5	682.0	701.8	724.0	718.1	722.8	754.3	846.4	888.3
57.5°	707.6	675.0	647.0	649.4	678.5	701.8	692.5	698.3	735.6	828.9	873.2
58°	697.2	669.2	642.4	643.5	671.5	697.2	686.7	691.3	729.8	824.2	866.2
60°	652.9	636.5	613.2	614.4	641.2	663.3	657.5	662.2	699.5	790.4	821.9
62.5°	592.2	582.9	577.1	577.1	593.4	614.4	620.2	626.0	659.8	714.6	742.6
65°	526.9	526.9	528.1	528.1	538.6	565.4	568.9	584.1	615.5	642.4	663.3
67.5°	482.6	480.3	482.6	476.8	481.5	497.8	515.3	529.3	561.9	580.6	587.6
70°	425.5	424.4	425.5	417.4	423.2	437.2	448.8	472.2	506.0	520.0	523.4
72.5°	369.6	369.6	371.9	366.1	366.1	381.2	389.4	415.0	446.5	454.7	455.8
75°	311.3	314.8	314.8	306.6	308.9	318.3	328.8	349.7	378.9	384.7	384.7
77.5°	247.2	260.0	260.0	251.8	255.3	256.5	270.5	281.0	303.1	305.4	296.1
80°	179.5	192.4	202.9	195.9	201.7	194.7	202.9	209.8	232.0	221.5	206.3
82.5°	128.2	137.6	145.7	146.9	141.1	128.2	138.7	139.9	150.4	136.4	128.2
85°	71.1	79.3	89.8	85.1	75.8	67.6	71.1	73.4	72.3	68.8	64.1
87.5°	18.7	19.8	22.2	16.3	15.2	12.8	17.5	17.5	19.8	21.0	19.8
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7
2.5°	3776.0	3827.3	3938.1	4022.0	4124.6	4249.4	4396.3	4544.3	4704.0	4754.2	4824.1
5°	3124.4	3252.6	3306.2	3459.0	3610.5	3837.8	4080.3	4361.3	4669.1	4817.1	4959.3
7.5°	2669.7	2738.5	2794.4	2906.4	3088.2	3364.5	3668.8	4019.7	4455.7	4671.4	4880.1
10°	2424.9	2431.9	2500.7	2639.4	2797.9	3041.6	3329.5	3722.4	4208.6	4470.9	4715.7
12.5°	2262.8	2232.5	2307.1	2451.7	2631.2	2856.2	3120.9	3495.1	4030.2	4299.5	4595.6
15°	2120.6	2072.8	2128.8	2276.8	2454.0	2718.7	3003.1	3399.5	3960.2	4273.8	4602.6
17.5°	2124.1	1992.4	2012.2	2136.9	2313.0	2582.3	2927.3	3396.0	4066.3	4427.7	4817.1
20°	2386.4	2175.4	2085.6	2108.9	2279.2	2572.9	2962.3	3559.2	4414.9	4941.9	5358.1
22.5°	2644.1	2517.0	2372.4	2324.6	2417.9	2725.7	3185.0	3945.1	5172.7	5966.6	6718.5
25°	2554.3	2662.7	2626.6	2558.9	2579.9	2835.2	3336.5	4262.2	5761.4	6655.6	7362.1
27.5°	2043.7	2240.7	2280.3	2279.2	2287.3	2497.2	3000.8	4048.8	5834.9	6787.3	7462.3
30°	1436.3	1453.8	1474.7	1515.5	1552.9	1740.6	2347.9	3554.5	5802.2	6846.8	7523.0
32.5°	1036.4	1059.7	1088.9	1144.8	1233.4	1472.4	2054.2	3397.2	5974.8	7092.8	7700.2
35°	947.8	974.6	1002.6	1066.7	1150.7	1372.2	1937.6	3331.9	6258.1	7491.5	8018.4
37.5°	919.8	950.1	974.6	1021.2	1088.9	1299.9	1831.5	3287.6	6548.3	7913.5	8445.1
40°	900.0	935.0	954.8	992.1	1038.7	1233.4	1737.1	3252.6	6829.3	8299.4	8787.9
42.5°	882.5	918.7	944.3	971.1	1009.6	1174.0	1653.1	3217.6	7073.0	8673.6	9129.4
45°	861.5	907.0	939.6	960.6	994.4	1123.8	1589.0	3189.6	7350.4	9005.9	9474.5
47.5°	844.0	894.2	935.0	959.5	972.3	1088.9	1537.7	3228.1	7683.8	9353.3	9795.1
50°	845.2	893.0	944.3	982.8	949.0	1059.7	1506.2	3380.8	8117.5	9766.0	10048.1
52.5°	882.5	940.8	981.6	990.9	916.3	1024.7	1489.9	3647.8	8630.5	10130.9	10303.4
55°	924.5	985.1	1029.4	1023.6	898.8	980.4	1486.4	3932.3	9192.4	10556.4	10635.7
57.5°	909.3	997.9	1065.5	1035.2	900.0	937.3	1471.2	4161.9	9662.2	10874.6	10964.4
58°	904.7	993.3	1070.2	1032.9	896.5	924.5	1467.8	4181.8	9727.5	10896.8	11011.0
60°	859.2	952.5	1066.7	1015.4	876.7	889.5	1429.3	4245.9	9710.0	10782.6	11039.0
62.5°	776.4	853.4	986.3	930.3	816.1	842.9	1343.0	4166.6	9236.7	10232.3	10629.8
65°	683.2	740.3	828.9	818.4	729.8	795.1	1225.3	3853.0	8288.9	9339.3	9757.8
67.5°	613.2	659.8	715.8	700.7	656.3	731.0	1098.2	3322.6	7225.7	8266.7	8793.7
70°	542.1	578.2	606.2	595.7	581.7	668.0	985.1	2696.5	6206.8	7247.8	7758.4
72.5°	469.8	503.6	526.9	511.8	503.6	601.6	893.0	2092.6	4902.2	5979.4	6635.8
75°	392.9	426.7	443.0	425.5	420.9	530.4	756.6	1563.3	3678.1	4609.6	5176.2
77.5°	304.3	340.4	361.4	355.6	357.9	436.0	610.9	1070.2	2630.1	3141.9	3738.7
80°	213.3	253.0	267.0	261.1	277.5	332.3	431.3	679.7	1814.0	2039.0	2459.9
82.5°	131.7	169.0	171.4	177.2	188.9	246.0	325.3	413.9	1139.0	1177.5	1482.9
85°	66.5	80.4	86.3	95.6	106.1	150.4	185.4	256.5	733.3	554.9	828.9
87.5°	22.2	23.3	28.0	35.0	43.1	61.8	79.3	104.9	181.9	100.3	256.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453250

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7	4434.7
2.5°	4965.2	5064.3	5136.5	5203.0	5138.9	5133.0	5070.1	4968.7	4926.7	4926.7
5°	5257.8	5489.8	5677.5	5797.6	5746.3	5622.7	5418.7	5158.7	5018.8	4994.3
7.5°	5338.2	5796.4	6145.0	6268.5	6182.3	5909.5	5518.9	5080.6	4880.1	4835.8
10°	5289.3	5885.0	6396.8	6592.6	6472.6	6059.9	5527.1	4989.7	4742.5	4691.2
12.5°	5238.0	5896.7	6443.4	6726.7	6648.6	6181.1	5586.5	4930.2	4644.6	4571.1
15°	5275.3	5901.3	6386.3	6678.9	6729.0	6326.8	5684.5	4973.3	4624.8	4546.6
17.5°	5510.8	5989.9	6304.7	6541.3	6717.4	6525.0	5963.1	5179.7	4802.0	4705.2
20°	6002.7	6202.1	6351.3	6534.3	6817.6	6929.6	6533.2	5746.3	5299.8	5214.7
22.5°	7427.4	7391.2	7085.8	7082.3	7492.6	7941.5	7914.7	6898.1	6226.6	6156.6
25°	7961.3	7793.4	7351.6	7244.3	7425.0	8117.5	8017.3	7133.6	6513.4	6343.2
27.5°	7752.6	7336.4	7046.1	7021.7	6962.2	7616.2	7857.5	7229.2	6613.6	6448.1
30°	7739.8	7127.7	6712.7	6761.7	6818.8	7443.7	7946.1	7528.8	6870.1	6692.9
32.5°	7771.3	7156.9	6737.2	6746.5	6916.7	7469.3	8044.1	7855.2	7207.0	7029.8
35°	7898.3	7322.4	6893.4	6871.3	7137.1	7637.2	8210.8	8368.2	7667.5	7465.8
37.5°	8103.5	7652.4	7179.0	7173.2	7559.1	7940.3	8418.3	8885.8	8125.7	7908.8
40°	8405.5	8038.2	7687.3	7655.9	8132.7	8433.4	8687.6	9437.2	8658.5	8379.8
42.5°	8770.4	8501.1	8357.7	8482.4	8940.6	8987.2	9107.3	9946.7	9111.9	8787.9
45°	9108.5	9095.6	9295.0	9626.1	9893.0	9613.2	9545.6	10288.2	9464.0	9111.9
47.5°	9510.7	9858.1	10459.6	10944.6	11224.4	10341.9	9919.9	10510.9	9720.5	9396.4
50°	9918.7	10770.9	11731.5	12407.7	12467.1	11133.5	10177.5	10720.8	9953.7	9616.7
52.5°	10347.7	11499.5	12778.4	13564.2	13448.8	11822.5	10427.0	10863.0	10193.8	9897.7
55°	10720.8	11946.0	13363.6	14117.9	13948.9	12242.1	10696.3	11016.9	10536.6	10287.1
57.5°	10929.4	11983.3	13217.9	13876.6	13693.6	12160.5	10819.9	11131.1	10755.7	10559.9
58°	10959.8	11933.2	13088.5	13736.7	13550.2	12091.8	10818.7	11126.5	10769.7	10572.7
60°	10932.9	11607.9	12607.0	13184.1	12988.3	11660.4	10774.4	11039.0	10592.5	10425.8
62.5°	10684.6	11043.7	11775.8	12195.5	12139.6	10986.6	10592.5	10709.1	10052.8	9891.9
65°	10358.2	10274.3	10711.4	11008.7	11050.7	10481.8	10411.8	9995.6	9360.3	9132.9
67.5°	9961.8	9402.2	9401.1	9570.1	9640.1	9705.3	10035.3	9220.4	8362.3	8122.2
70°	9289.2	8058.1	7687.3	7886.7	7828.4	8379.8	9362.6	8131.5	7159.2	6878.3
72.5°	8055.7	6394.5	5801.1	6057.5	5910.6	6571.7	8192.1	6691.7	5920.0	5574.9
75°	6529.7	4783.3	4171.3	4406.8	4315.8	4985.0	6816.5	4860.3	4245.9	4114.1
77.5°	5070.1	3465.9	3110.4	3077.7	3145.3	3709.6	5000.1	3281.7	2799.1	2709.3
80°	3257.3	2480.8	2501.8	2459.9	2494.8	2338.6	3035.8	2093.8	1895.6	1823.3
82.5°	2143.9	1728.9	2061.1	1902.6	1807.0	1572.7	1991.2	1371.0	1163.5	1123.8
85°	1460.8	1273.1	1158.8	886.0	1043.4	1211.3	1493.4	738.0	585.2	530.4
87.5°	659.8	443.0	325.3	200.5	317.1	366.1	725.1	86.3	66.5	68.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)