

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: P453830

Luminaire Tested: **GLAN-SA4D-827-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453830
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-SA4D-827-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1200mA 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: 19392 lumens
Efficiency: N/A
Efficacy: 79.2 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): 245
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



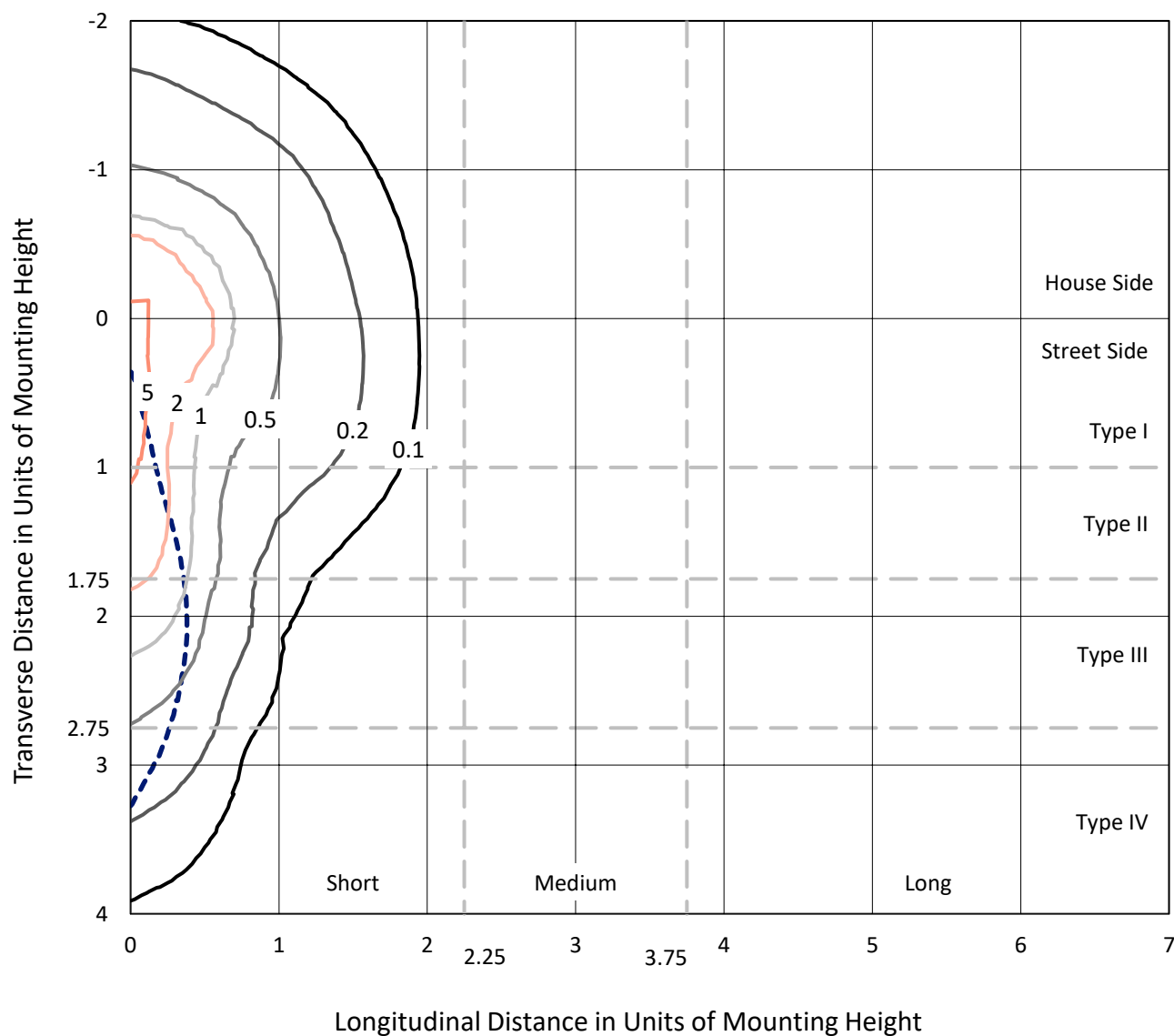
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



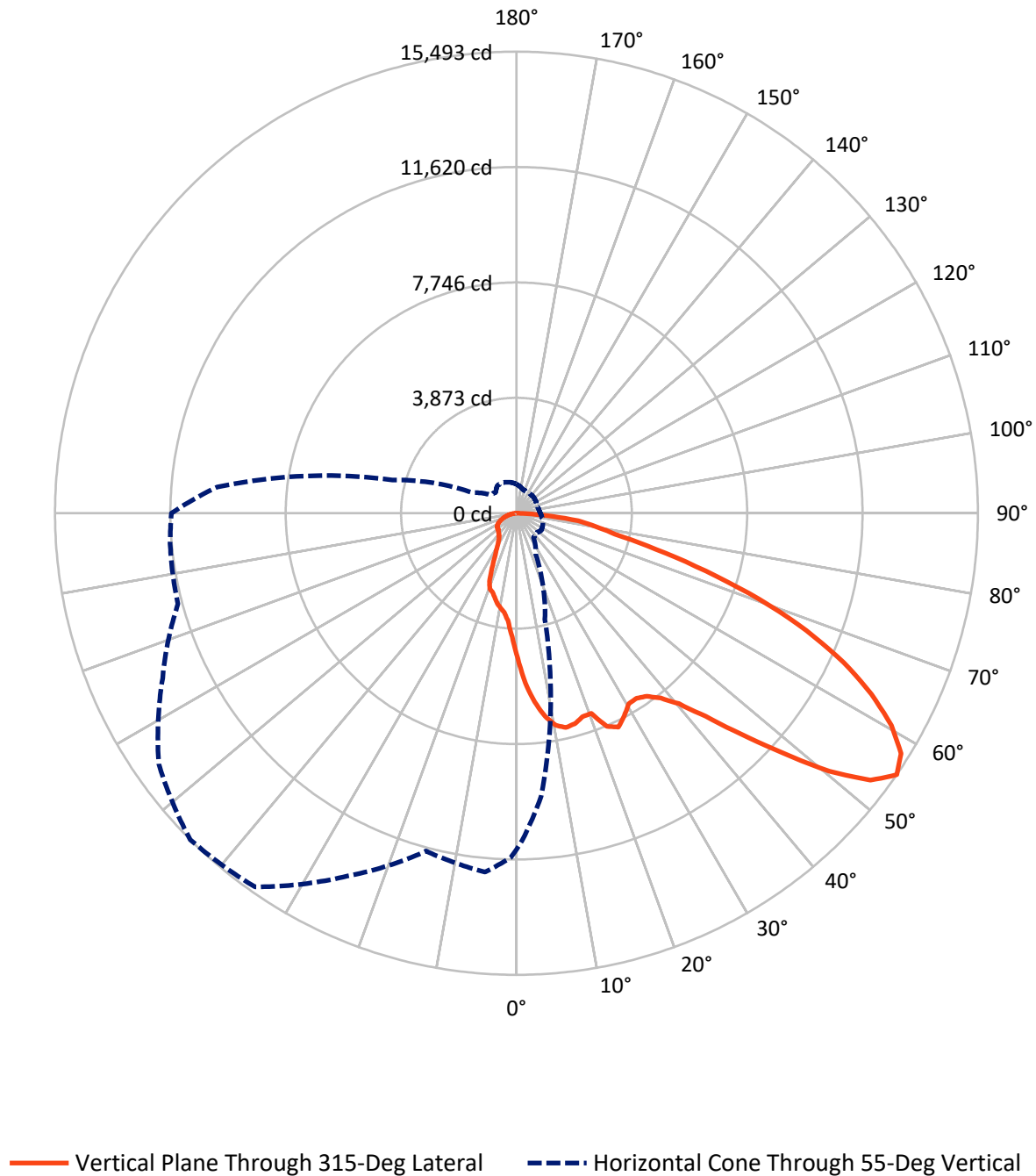
Based on 25 foot mounting height. Maximum calculated value = 8.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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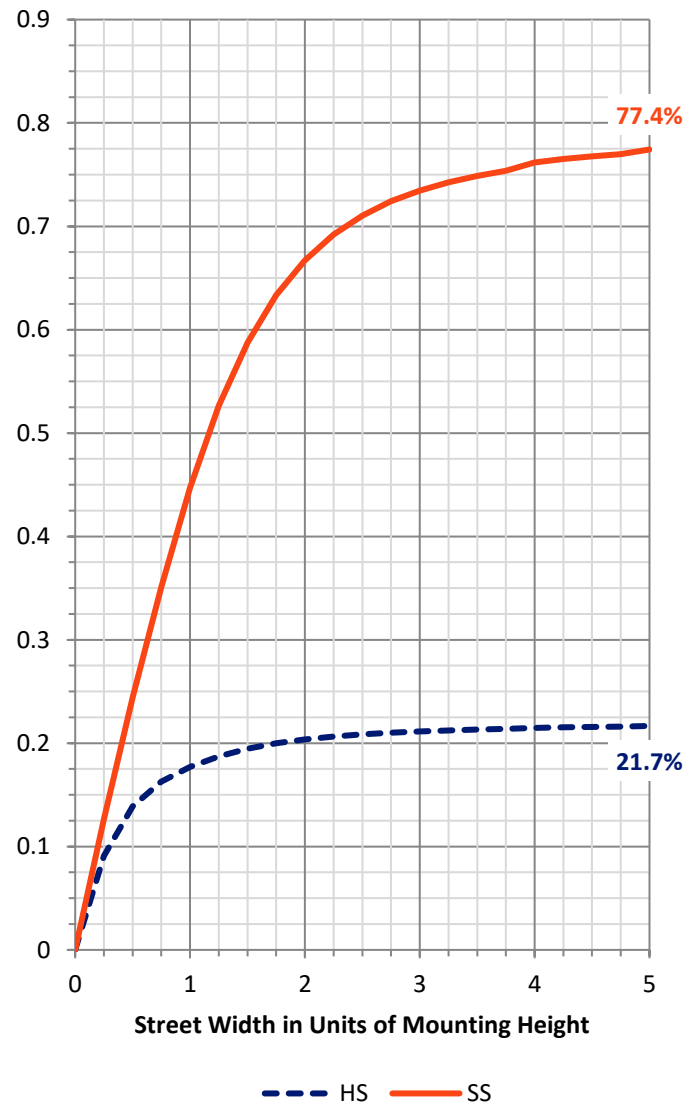
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4241.9	0.0	4241.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	15150.1	0.0	15150.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	19392.0	0.0	19392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.5	2.1
10°-20°	1094.3	5.6
20°-30°	1890.4	9.7
30°-40°	2196.9	11.3
40°-50°	3065.2	15.8
50°-60°	4159.1	21.4
60°-70°	3956.9	20.4
70°-80°	2137.6	11.0
80°-90°	479.1	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°	19392.0	100.0
0°-180°	19392.0	100.0

Coefficient of Utilization



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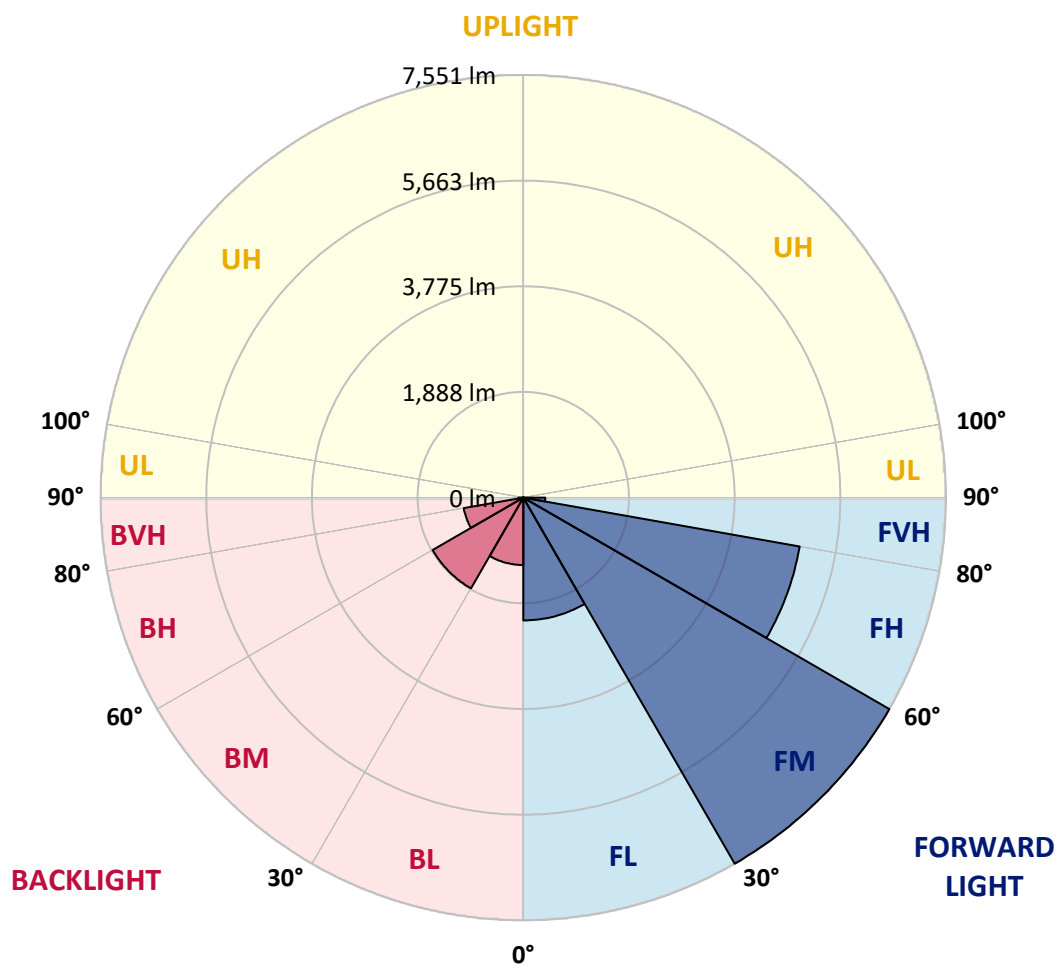
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2193.3	11.3			
FM	(30°-60°)	7550.8	38.9			
FH	(60°-80°)	5014.4	25.9			G3/7500
FVH	(80°-90°)	391.5	2.0			G3/500
BL	(0°-30°)	1203.9	6.2	B3/2500		
BM	(30°-60°)	1870.4	9.6	B2/2500		
BH	(60°-80°)	1080.1	5.6	B3/2500		G3/2500
BVH	(80°-90°)	87.5	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°	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6
2.5°	5406.5	5386.0	5328.5	5177.5	5025.3	4870.5	4751.5	4603.1	4448.3	4365.1	4258.9
5°	5480.7	5457.7	5322.1	4981.8	4673.5	4349.8	4091.4	3864.9	3772.8	3637.2	3528.4
7.5°	5306.7	5296.5	5093.1	4604.4	4182.2	3758.7	3465.7	3284.1	3119.0	3057.6	3070.4
10°	5148.1	5107.2	4852.6	4214.2	3721.6	3377.5	3167.7	2989.8	2873.4	2842.7	2849.1
12.5°	5016.3	4961.3	4660.7	3951.9	3520.8	3245.7	2978.3	2792.8	2686.6	2716.1	2815.8
15°	4989.5	4915.2	4580.1	3862.3	3410.7	3056.4	2763.4	2549.7	2470.4	2534.4	2694.3
17.5°	5163.4	5070.1	4718.2	3891.8	3305.8	2863.2	2503.7	2259.3	2192.8	2295.1	2503.7
20°	5722.5	5584.3	5149.4	4061.9	3295.6	2767.2	2352.7	2107.1	2135.2	2329.7	2547.2
22.5°	6756.2	6549.0	5904.2	4310.1	3349.3	2742.9	2322.0	2194.1	2348.9	2513.9	2657.2
25°	6960.9	6798.4	6039.8	4366.4	3337.8	2726.3	2409.0	2473.0	2645.7	2727.6	2677.7
27.5°	7076.1	6890.6	6030.8	4087.5	2984.7	2473.0	2302.8	2409.0	2452.5	2373.2	2237.6
30°	7344.7	7151.5	6183.1	3794.5	2457.6	1834.6	1608.1	1564.6	1594.1	1609.4	1560.8
32.5°	7714.5	7523.8	6469.7	3602.6	2125.0	1517.3	1294.7	1233.3	1219.2	1202.6	1183.4
35°	8192.9	7900.0	6751.1	3479.8	1988.1	1403.4	1198.7	1151.4	1132.2	1109.2	1088.7
37.5°	8679.1	8372.0	7106.8	3350.6	1897.3	1324.1	1134.8	1113.0	1079.8	1055.5	1026.0
40°	9195.9	8851.8	7430.4	3238.0	1809.0	1272.9	1088.7	1086.2	1042.7	1014.5	980.0
42.5°	9643.7	9289.3	7719.6	3168.9	1741.2	1219.2	1060.6	1068.3	1023.5	981.3	936.5
45°	9999.4	9651.4	7987.0	3168.9	1686.2	1165.5	1055.5	1050.3	1005.6	953.1	901.9
47.5°	10311.5	9952.0	8247.9	3249.5	1651.6	1120.7	1027.3	1036.3	990.2	923.7	873.8
50°	10553.3	10236.1	8599.8	3374.9	1617.1	1084.9	991.5	1040.1	977.4	908.3	850.8
52.5°	10861.7	10577.6	9023.2	3546.3	1587.7	1045.2	959.5	1040.1	976.1	909.6	846.9
55°	11289.0	10989.6	9533.7	3688.4	1540.3	1008.1	931.4	1010.7	972.3	903.2	836.7
57.5°	11588.3	11364.4	9894.5	3783.0	1472.5	960.8	905.8	982.5	955.7	878.9	806.0
58°	11602.4	11383.6	9946.9	3804.8	1455.9	951.8	899.4	969.7	948.0	868.7	795.8
60°	11441.2	11253.1	9957.2	3774.1	1361.2	907.1	866.1	917.3	907.1	808.5	740.7
62.5°	10855.3	10654.4	9543.9	3524.6	1235.8	852.0	814.9	846.9	823.9	724.1	661.4
65°	10022.4	9652.7	8694.4	3133.1	1146.3	793.2	745.9	748.4	724.1	652.5	597.5
67.5°	8913.2	8500.0	7361.4	2640.6	1078.5	727.9	664.0	657.6	628.2	582.1	537.3
70°	7548.1	7265.4	5982.2	2148.0	1003.0	656.3	571.9	568.0	550.1	515.6	475.9
72.5°	6117.8	5758.3	4830.8	1719.4	910.9	587.2	486.2	493.8	470.8	446.5	410.7
75°	4514.8	4279.4	3734.4	1379.1	786.8	511.7	405.6	408.1	397.9	372.3	344.1
77.5°	2973.2	2902.8	2671.3	905.8	605.1	406.8	331.4	333.9	326.2	303.2	273.8
80°	2000.9	1953.6	1810.3	583.4	404.3	294.2	255.9	258.4	257.1	232.8	193.2
82.5°	1233.3	1212.8	1166.8	394.0	280.2	211.1	168.9	176.5	190.6	163.8	131.8
85°	582.1	583.4	704.9	214.9	165.0	135.6	92.1	98.5	98.5	98.5	74.2
87.5°	75.5	79.3	97.2	90.8	60.1	51.2	33.3	28.1	24.3	32.0	23.0
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°	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6
2.5°	4221.8	4196.3	4141.2	4128.5	4120.8	4142.5	4085.0	4100.3	4074.7	4146.4	4134.8
5°	3534.8	3537.4	3582.2	3611.6	3621.8	3611.6	3573.2	3506.7	3455.5	3435.0	3440.2
7.5°	3046.1	3090.9	3167.7	3253.4	3331.4	3354.4	3332.7	3206.0	3067.9	2980.9	2952.7
10°	2883.6	2943.8	3032.1	3099.9	3168.9	3224.0	3235.5	3137.0	2973.2	2767.2	2686.6
12.5°	2892.6	2974.5	3058.9	3080.7	3074.3	3096.0	3085.8	3069.2	2961.7	2699.4	2565.1
15°	2808.2	2905.4	2964.2	2952.7	2932.3	2913.1	2886.2	2844.0	2805.6	2621.4	2473.0
17.5°	2613.7	2713.5	2762.1	2765.9	2765.9	2760.8	2695.6	2680.2	2675.1	2585.6	2494.7
20°	2649.5	2704.5	2682.8	2647.0	2657.2	2691.7	2653.4	2645.7	2675.1	2714.8	2698.1
22.5°	2670.0	2650.8	2487.0	2328.4	2292.6	2400.1	2421.8	2507.5	2626.5	2769.8	2863.2
25°	2543.3	2388.5	2095.6	1916.5	1815.4	1915.2	2045.7	2204.3	2382.1	2566.4	2675.1
27.5°	2126.3	2008.6	1798.8	1637.6	1549.3	1564.6	1675.9	1820.5	1985.5	2109.6	2189.0
30°	1601.7	1549.3	1440.5	1385.5	1331.8	1319.0	1366.3	1421.4	1494.3	1509.6	1530.1
32.5°	1179.6	1171.9	1178.3	1160.4	1150.1	1148.9	1134.8	1147.6	1155.2	1164.2	1146.3
35°	1067.0	1056.7	1038.8	1033.7	1027.3	1029.9	1023.5	1017.1	1022.2	1029.9	1035.0
37.5°	1009.4	994.1	968.5	959.5	959.5	963.3	953.1	950.6	959.5	983.8	996.6
40°	964.6	946.7	917.3	905.8	913.5	923.7	909.6	904.5	926.2	951.8	972.3
42.5°	922.4	908.3	880.2	867.4	873.8	893.0	872.5	868.7	896.8	925.0	949.3
45°	886.6	872.5	846.9	840.5	843.1	861.0	846.9	846.9	873.8	904.5	926.2
47.5°	858.4	840.5	823.9	818.8	821.3	831.6	829.0	829.0	854.6	886.6	908.3
50°	830.3	814.9	793.2	795.8	802.2	816.2	814.9	818.8	844.4	884.0	907.1
52.5°	817.5	794.5	770.2	772.7	791.9	808.5	803.4	807.3	836.7	910.9	944.2
55°	803.4	772.7	744.6	748.4	770.2	794.5	788.1	793.2	827.7	928.8	974.9
57.5°	776.6	740.7	710.0	712.6	744.6	770.2	759.9	766.3	807.3	909.6	958.2
58°	765.0	734.3	704.9	706.2	736.9	765.0	753.5	758.7	800.9	904.5	950.6
60°	716.4	698.5	672.9	674.2	703.6	727.9	721.6	726.7	767.6	867.4	901.9
62.5°	649.9	639.7	633.3	633.3	651.2	674.2	680.6	687.0	724.1	784.2	814.9
65°	578.3	578.3	579.5	579.5	591.1	620.5	624.3	641.0	675.5	704.9	727.9
67.5°	529.6	527.1	529.6	523.3	528.4	546.3	565.5	580.8	616.6	637.1	644.8
70°	467.0	465.7	467.0	458.0	464.4	479.8	492.5	518.1	555.2	570.6	574.4
72.5°	405.6	405.6	408.1	401.7	401.7	418.3	427.3	455.4	490.0	498.9	500.2
75°	341.6	345.4	345.4	336.5	339.0	349.3	360.8	383.8	415.8	422.2	422.2
77.5°	271.2	285.3	285.3	276.3	280.2	281.5	296.8	308.3	332.6	335.2	325.0
80°	197.0	211.1	222.6	214.9	221.3	213.7	222.6	230.3	254.6	243.1	226.4
82.5°	140.7	151.0	159.9	161.2	154.8	140.7	152.2	153.5	165.0	149.7	140.7
85°	78.0	87.0	98.5	93.4	83.2	74.2	78.0	80.6	79.3	75.5	70.4
87.5°	20.5	21.7	24.3	17.9	16.6	14.1	19.2	19.2	21.7	23.0	21.7
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°	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6
2.5°	4143.8	4200.1	4321.6	4413.7	4526.3	4663.2	4824.4	4986.9	5162.2	5217.2	5293.9
5°	3428.6	3569.4	3628.2	3795.8	3962.1	4211.6	4477.7	4786.0	5123.8	5286.3	5442.3
7.5°	2929.7	3005.2	3066.6	3189.4	3389.0	3692.2	4026.1	4411.2	4889.7	5126.3	5355.3
10°	2661.0	2668.7	2744.2	2896.4	3070.4	3337.8	3653.8	4085.0	4618.4	4906.3	5175.0
12.5°	2483.2	2449.9	2531.8	2690.5	2887.5	3134.4	3424.8	3835.5	4422.7	4718.2	5043.2
15°	2327.1	2274.7	2336.1	2498.6	2693.0	2983.4	3295.6	3730.6	4345.9	4690.1	5050.9
17.5°	2331.0	2186.4	2208.2	2345.0	2538.2	2833.8	3212.4	3726.7	4462.4	4859.0	5286.3
20°	2618.8	2387.3	2288.8	2314.3	2501.1	2823.5	3250.8	3905.8	4844.9	5423.2	5879.9
22.5°	2901.6	2762.1	2603.5	2551.0	2653.4	2991.1	3495.2	4329.3	5676.5	6547.7	7372.9
25°	2803.0	2922.0	2882.4	2808.2	2831.2	3111.4	3661.5	4677.3	6322.5	7303.8	8079.1
27.5°	2242.7	2458.9	2502.4	2501.1	2510.1	2740.4	3293.0	4443.2	6403.1	7448.4	8189.1
30°	1576.2	1595.3	1618.4	1663.2	1704.1	1910.1	2576.6	3900.7	6367.3	7513.6	8255.6
32.5°	1137.3	1162.9	1194.9	1256.3	1353.5	1615.8	2254.2	3728.0	6556.7	7783.5	8450.1
35°	1040.1	1069.5	1100.2	1170.6	1262.7	1505.8	2126.3	3656.4	6867.5	8221.1	8799.3
37.5°	1009.4	1042.7	1069.5	1120.7	1194.9	1426.5	2009.9	3607.8	7186.1	8684.2	9267.6
40°	987.7	1026.0	1047.8	1088.7	1139.9	1353.5	1906.2	3569.4	7494.4	9107.7	9643.7
42.5°	968.5	1008.1	1036.3	1065.7	1107.9	1288.3	1814.1	3531.0	7761.8	9518.3	10018.6
45°	945.4	995.3	1031.2	1054.2	1091.3	1233.3	1743.7	3500.3	8066.3	9883.0	10397.2
47.5°	926.2	981.3	1026.0	1052.9	1067.0	1194.9	1687.5	3542.5	8432.2	10264.2	10749.1
50°	927.5	980.0	1036.3	1078.5	1041.4	1162.9	1652.9	3710.1	8908.1	10717.1	11026.7
52.5°	968.5	1032.4	1077.2	1087.4	1005.6	1124.5	1635.0	4003.1	9471.0	11117.5	11306.9
55°	1014.5	1081.0	1129.7	1123.3	986.4	1075.9	1631.2	4315.2	10087.6	11584.5	11671.5
57.5°	997.9	1095.1	1169.3	1136.1	987.7	1028.6	1614.5	4567.3	10603.2	11933.7	12032.3
58°	992.8	1090.0	1174.4	1133.5	983.8	1014.5	1610.7	4589.0	10674.9	11958.1	12083.4
60°	942.9	1045.2	1170.6	1114.3	962.1	976.1	1568.5	4659.4	10655.7	11832.7	12114.1
62.5°	852.0	936.5	1082.3	1020.9	895.5	925.0	1473.8	4572.4	10136.3	11228.8	11665.1
65°	749.7	812.4	909.6	898.1	800.9	872.5	1344.6	4228.2	9096.2	10248.8	10708.1
67.5°	672.9	724.1	785.5	768.9	720.3	802.2	1205.1	3646.1	7929.4	9071.8	9650.1
70°	594.9	634.6	665.3	653.7	638.4	733.1	1081.0	2959.1	6811.2	7953.7	8514.1
72.5°	515.6	552.7	578.3	561.6	552.7	660.1	980.0	2296.4	5379.7	6561.8	7282.0
75°	431.1	468.2	486.2	467.0	461.8	582.1	830.3	1715.6	4036.3	5058.5	5680.3
77.5°	333.9	373.6	396.6	390.2	392.8	478.5	670.4	1174.4	2886.2	3447.8	4102.9
80°	234.1	277.6	293.0	286.6	304.5	364.6	473.4	745.9	1990.7	2237.6	2699.4
82.5°	144.6	185.5	188.1	194.5	207.3	269.9	356.9	454.2	1249.9	1292.1	1627.3
85°	72.9	88.3	94.7	104.9	116.4	165.0	203.4	281.5	804.7	609.0	909.6
87.5°	24.3	25.6	30.7	38.4	47.3	67.8	87.0	115.1	199.6	110.0	281.5
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: P453830

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6	4866.6
2.5°	5448.7	5557.5	5636.8	5709.7	5639.4	5633.0	5563.9	5452.6	5406.5	5406.5
5°	5769.9	6024.4	6230.4	6362.2	6305.9	6170.3	5946.4	5661.1	5507.6	5480.7
7.5°	5858.1	6360.9	6743.4	6879.0	6784.4	6485.0	6056.4	5575.4	5355.3	5306.7
10°	5804.4	6458.1	7019.8	7234.7	7102.9	6650.0	6065.4	5475.6	5204.4	5148.1
12.5°	5748.1	6470.9	7070.9	7381.8	7296.1	6783.1	6130.6	5410.4	5096.9	5016.3
15°	5789.0	6476.1	7008.3	7329.4	7384.4	6943.0	6238.1	5457.7	5075.2	4989.5
17.5°	6047.5	6573.3	6918.7	7178.4	7371.6	7160.5	6543.9	5684.1	5269.6	5163.4
20°	6587.4	6806.1	6969.9	7170.7	7481.6	7604.4	7169.5	6305.9	5815.9	5722.5
22.5°	8150.7	8111.1	7775.9	7772.0	8222.4	8714.9	8685.5	7569.9	6833.0	6756.2
25°	8736.7	8552.4	8067.6	7949.9	8148.2	8908.1	8798.1	7828.3	7147.7	6960.9
27.5°	8507.7	8050.9	7732.4	7705.5	7640.3	8358.0	8622.8	7933.2	7257.7	7076.1
30°	8493.6	7821.9	7366.5	7420.2	7482.9	8168.6	8720.0	8262.0	7539.2	7344.7
32.5°	8528.1	7853.9	7393.3	7403.6	7590.4	8196.8	8827.5	8620.2	7908.9	7714.5
35°	8667.6	8035.6	7564.8	7540.5	7832.2	8381.0	9010.4	9183.1	8414.3	8192.9
37.5°	8892.7	8397.6	7878.2	7871.8	8295.3	8713.6	9238.2	9751.2	8917.0	8679.1
40°	9224.1	8821.1	8436.0	8401.5	8924.7	9254.8	9533.7	10356.3	9501.7	9195.9
42.5°	9624.5	9329.0	9171.6	9308.5	9811.3	9862.5	9994.3	10915.4	9999.4	9643.7
45°	9995.5	9981.5	10200.2	10563.6	10856.5	10549.5	10475.3	11290.2	10385.7	9999.4
47.5°	10436.9	10818.2	11478.3	12010.5	12317.5	11349.1	10886.0	11534.6	10667.2	10311.5
50°	10884.7	11819.9	12874.1	13616.1	13681.3	12217.8	11168.7	11764.9	10923.1	10553.3
52.5°	11355.5	12619.5	14022.9	14885.2	14758.5	12973.9	11442.5	11921.0	11186.6	10861.7
55°	11764.9	13109.5	14665.2	15492.9	15307.4	13434.4	11738.0	12089.8	11562.7	11289.0
57.5°	11993.9	13150.4	14505.2	15228.1	15027.2	13344.9	11873.6	12215.2	11803.3	11588.3
58°	12027.1	13095.4	14363.2	15074.5	14869.8	13269.4	11872.3	12210.1	11818.6	11602.4
60°	11997.7	12738.5	13834.9	14468.1	14253.2	12796.0	11823.7	12114.1	11624.1	11441.2
62.5°	11725.2	12119.3	12922.7	13383.2	13321.8	12056.6	11624.1	11752.1	11031.8	10855.3
65°	11367.0	11274.9	11754.6	12080.9	12126.9	11502.6	11425.8	10969.1	10271.9	10022.4
67.5°	10932.0	10317.9	10316.7	10502.2	10578.9	10650.6	11012.6	10118.4	9176.8	8913.2
70°	10193.8	8842.8	8436.0	8654.8	8590.8	9195.9	10274.4	8923.4	7856.5	7548.1
72.5°	8840.3	7017.2	6366.0	6647.5	6486.3	7211.7	8990.0	7343.4	6496.5	6117.8
75°	7165.6	5249.2	4577.5	4835.9	4736.1	5470.5	7480.3	5333.6	4659.4	4514.8
77.5°	5563.9	3803.5	3413.3	3377.5	3451.7	4070.9	5487.1	3601.4	3071.7	2973.2
80°	3574.5	2722.4	2745.5	2699.4	2737.8	2566.4	3331.4	2297.7	2080.2	2000.9
82.5°	2352.7	1897.3	2261.9	2087.9	1983.0	1725.8	2185.1	1504.5	1276.8	1233.3
85°	1603.0	1397.0	1271.7	972.3	1145.0	1329.2	1638.8	809.8	642.2	582.1
87.5°	724.1	486.2	356.9	220.0	348.0	401.7	795.8	94.7	72.9	75.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)