

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: P534400

Luminaire Tested: **GLAN-SA9D-827-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-827-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38396 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 552
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



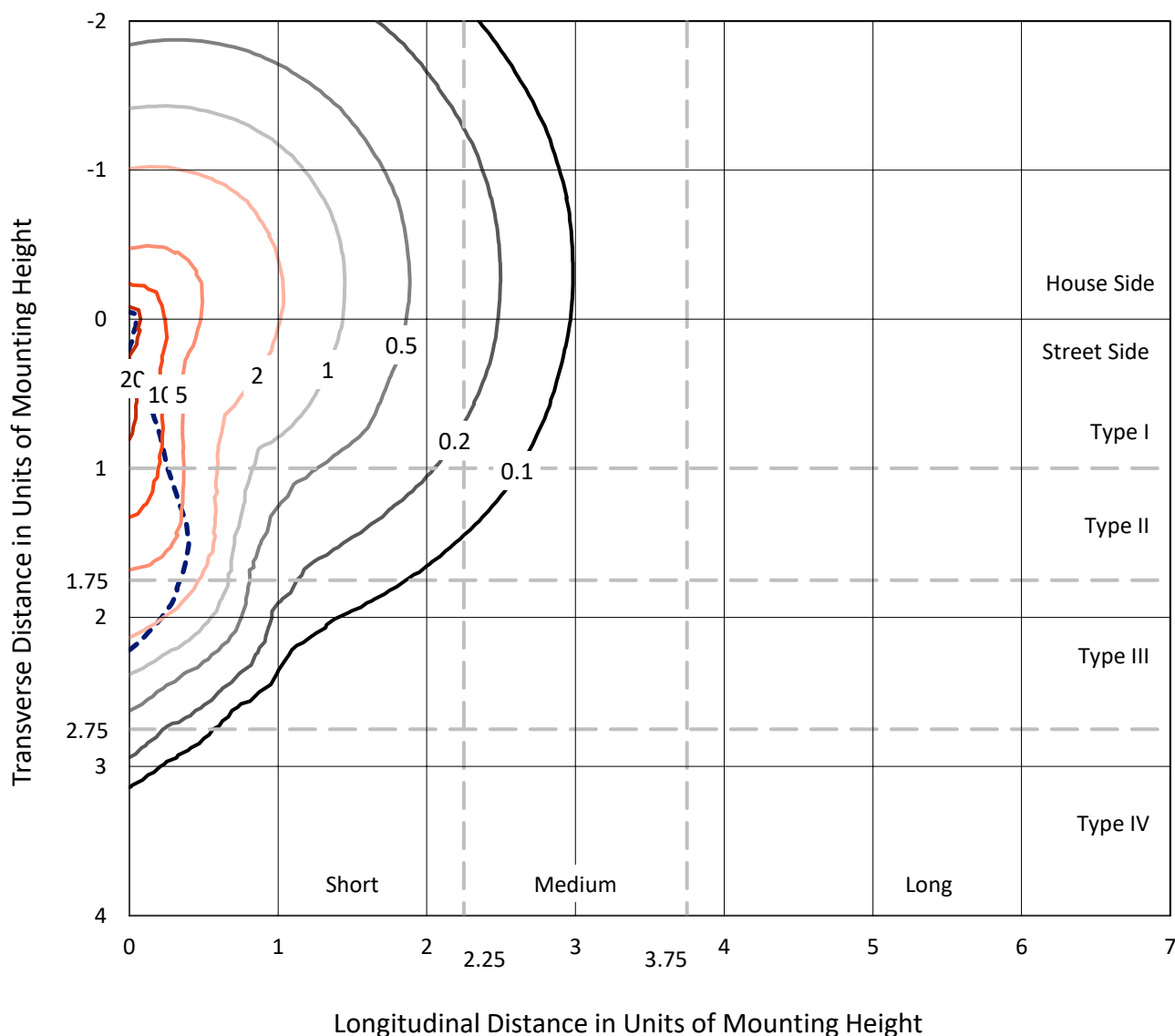
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

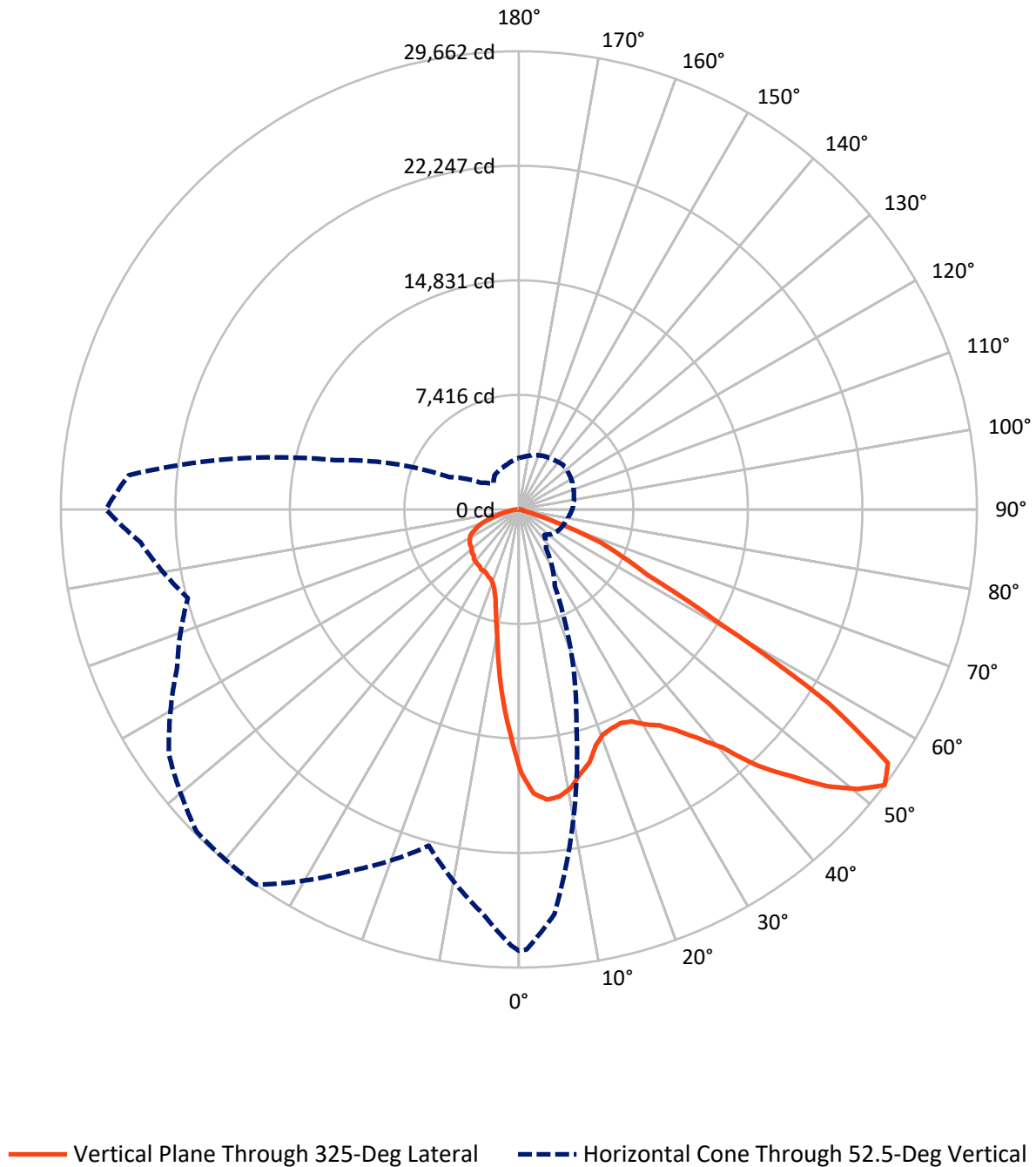


Based on 25 foot mounting height. Maximum calculated value = 27.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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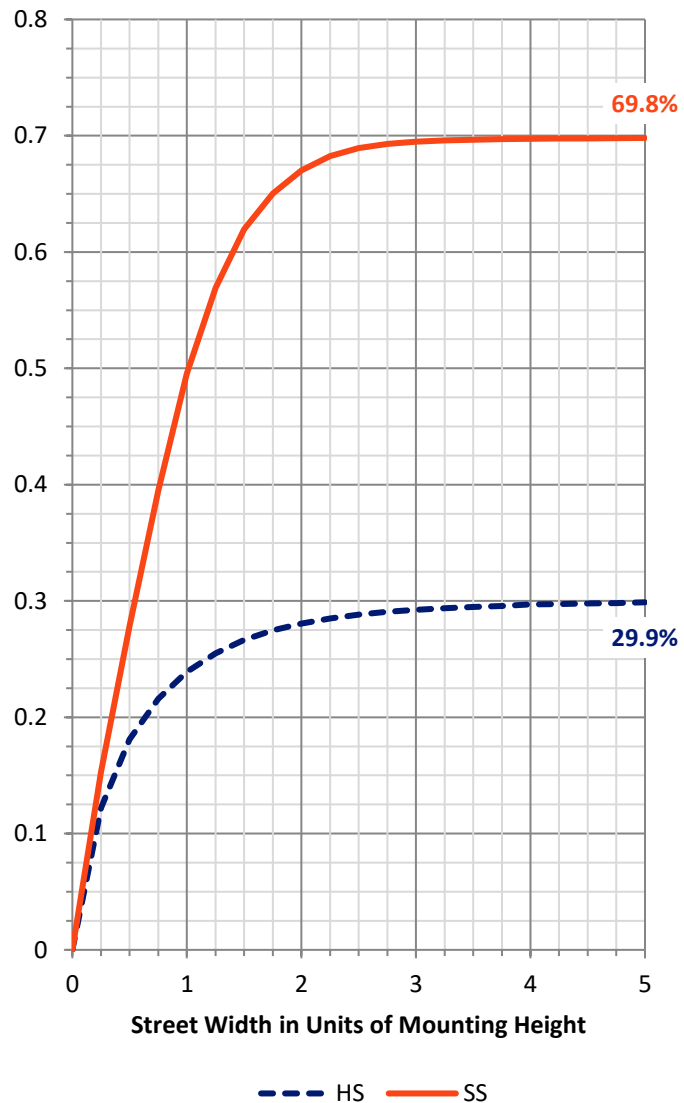
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11574.8	0.0	11574.8
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	26821.2	0.0	26821.2
	% Fixture	69.9	0.0	69.9
Total	Lumens	38396.0	0.0	38396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1300.0	3.4
10°-20°	2818.3	7.3
20°-30°	4258.2	11.1
30°-40°	6153.3	16.0
40°-50°	8188.9	21.3
50°-60°	9159.5	23.9
60°-70°	5162.2	13.4
70°-80°	1150.7	3.0
80°-90°	204.9	0.5
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°	38396.0	100.0
0°-180°	38396.0	100.0

Coefficient of Utilization



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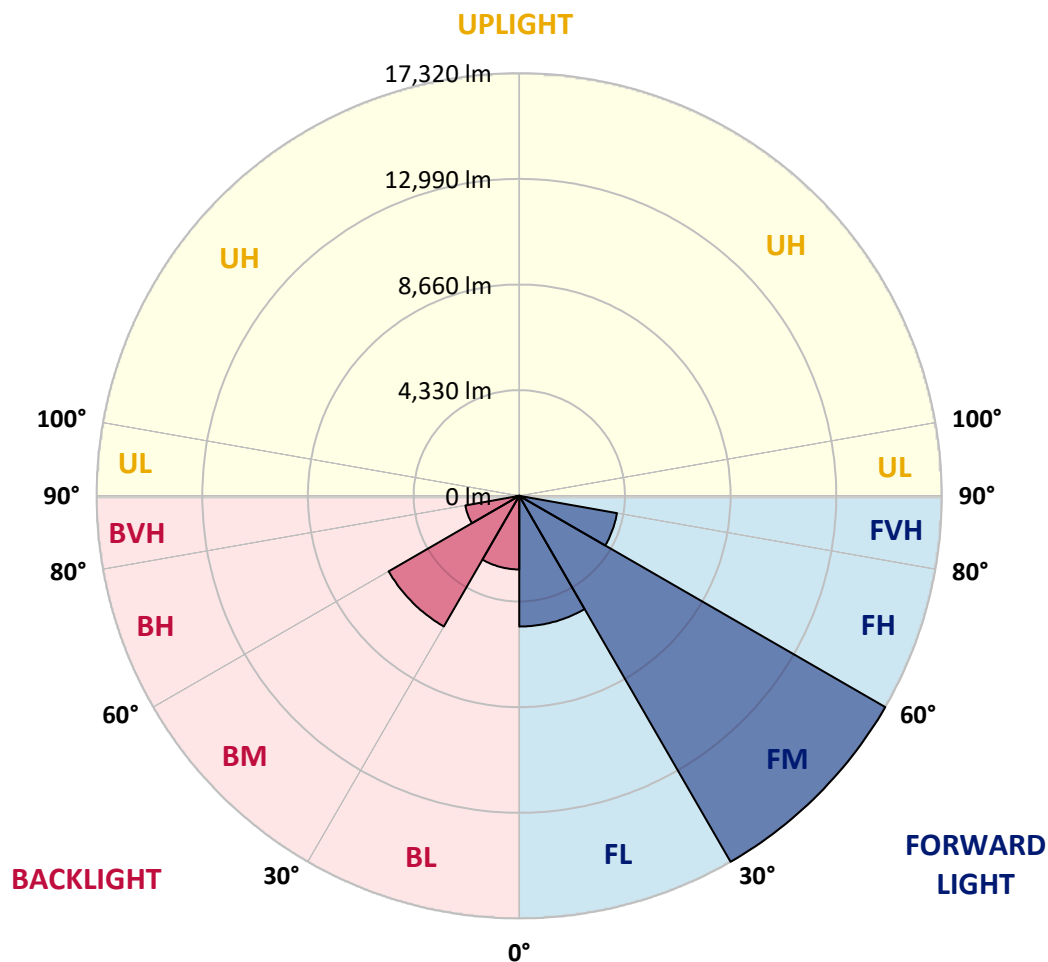
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5358.1	14.0			
FM	(30°-60°)	17319.5	45.1			
FH	(60°-80°)	4069.4	10.6			G2/5000
FVH	(80°-90°)	74.2	0.2			G1/100
BL	(0°-30°)	3018.4	7.9	B4/5000		
BM	(30°-60°)	6182.1	16.1	B4/8500		
BH	(60°-80°)	2243.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	130.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4
2.5°	17324.2	17602.5	17301.9	16767.7	16389.3	16044.2	15682.5	15610.1	15137.1	15053.6	14708.6
5°	16339.2	16278.0	15910.7	15209.5	14435.9	13734.7	13217.1	12716.3	12376.8	11981.7	11953.9
7.5°	15142.7	14786.5	14575.0	13512.1	12554.9	11453.0	10980.0	10217.6	9978.3	9622.1	9438.4
10°	14074.2	13812.6	13317.3	12254.4	10918.8	10189.7	9683.3	9271.5	8993.2	8625.9	8164.0
12.5°	13545.5	13439.8	12883.2	11236.0	10245.4	9466.3	9110.1	8709.4	8236.4	7646.5	7418.3
15°	13640.1	13283.9	12861.0	11041.2	9672.2	8920.9	8353.2	7852.4	7245.8	6683.7	6355.4
17.5°	14346.9	14074.2	13228.3	11163.6	9455.1	8369.9	7340.4	6600.2	6054.8	5548.4	5320.2
20°	15738.1	15343.0	14391.4	11319.4	8987.7	7601.9	6422.1	5509.5	4925.1	4658.0	4580.1
22.5°	17279.7	17045.9	15526.7	11670.0	8614.8	6889.6	5448.2	4535.6	4318.5	4246.2	4390.9
25°	19155.1	18548.5	17290.8	12243.3	8325.4	6283.0	4624.6	4118.2	4006.9	4079.2	4246.2
27.5°	20579.8	20418.4	18526.3	12783.1	7930.3	5554.0	4162.7	3828.8	3862.2	3934.5	4090.4
30°	22271.6	21453.5	19722.8	13155.9	7574.1	5053.1	3839.9	3750.9	3784.3	3906.7	3984.6
32.5°	23290.0	22983.9	20474.1	13718.0	7162.3	4619.0	3589.5	3506.0	3556.1	3739.8	3923.4
35°	24586.7	23980.1	21403.4	13862.7	6872.9	4446.5	3411.4	3350.2	3467.1	3595.1	3801.0
37.5°	26100.4	25683.0	22689.0	13762.5	6717.1	4268.4	3261.2	3233.3	3316.8	3494.9	3734.2
40°	26996.4	26868.4	23362.4	13823.7	6472.2	4112.6	3088.6	3122.0	3294.5	3433.7	3667.4
42.5°	27859.0	27024.2	24358.5	13801.5	6316.4	3901.1	3105.3	3066.4	3199.9	3361.3	3583.9
45°	28048.2	27219.0	24592.2	13645.7	6127.2	3695.2	2977.3	2994.0	3155.4	3355.8	3500.5
47.5°	27925.7	27313.6	25026.3	13601.1	5949.1	3550.5	2788.1	2988.5	3083.1	3244.5	3450.4
50°	27842.3	27808.9	25393.6	13812.6	5709.8	3322.4	2560.0	2916.1	3010.7	3172.1	3394.7
52.5°	28576.9	28504.5	26311.9	14369.1	5520.6	3077.5	2326.2	2732.5	2960.6	3116.5	3333.5
55°	29022.1	28704.9	27886.8	15053.6	5203.4	2754.7	2164.8	2504.3	2838.2	2977.3	3199.9
57.5°	26106.0	25888.9	25226.7	14051.9	4669.1	2331.8	1964.5	2270.6	2671.3	2888.3	3116.5
60°	21720.6	21381.2	19683.8	11942.7	3444.8	1814.2	1842.1	2086.9	2626.7	2710.2	2977.3
62.5°	20479.6	19639.3	17329.8	9611.0	2643.4	1558.2	1652.8	1920.0	2393.0	2532.1	2799.3
65°	16250.1	15626.8	12399.1	6939.7	1769.7	1352.3	1508.1	1730.8	2064.7	2337.3	2582.2
67.5°	10173.0	9577.6	6616.9	3283.4	1235.5	1157.5	1346.8	1580.5	1853.2	2098.0	2370.7
70°	5314.7	4663.6	3055.2	1185.4	851.5	946.1	1124.2	1346.8	1613.9	1814.2	2025.7
72.5°	1981.2	1608.3	996.2	512.0	589.9	723.5	912.7	1074.1	1263.3	1508.1	1625.0
75°	306.1	261.6	256.0	311.6	400.7	523.1	651.1	812.5	979.5	1135.3	1213.2
77.5°	144.7	139.1	155.8	205.9	267.1	372.9	473.0	628.9	762.4	862.6	907.1
80°	94.6	89.0	100.2	139.1	200.3	278.3	378.4	484.2	606.6	690.1	678.9
82.5°	55.7	61.2	61.2	94.6	139.1	200.3	272.7	367.3	450.8	523.1	478.6
85°	33.4	27.8	27.8	55.7	94.6	161.4	228.2	155.8	161.4	161.4	183.6
87.5°	11.1	11.1	11.1	5.6	11.1	11.1	16.7	27.8	33.4	39.0	50.1
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°	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4
2.5°	14697.5	14870.0	14808.8	14591.7	14758.7	14786.5	14675.2	15059.2	15131.5	15014.7	15048.1
5°	11914.9	11959.4	12059.6	12271.1	12421.3	12599.4	12599.4	12610.5	12460.3	12838.7	12727.4
7.5°	9282.6	9310.4	9427.3	9878.1	10006.1	10345.5	10490.2	10390.1	10089.6	9961.6	10067.3
10°	8013.8	7852.4	7813.4	7869.1	8158.5	8303.2	8425.6	8392.2	8342.1	8241.9	8130.6
12.5°	7167.9	7051.0	6956.4	6822.8	6839.5	6978.7	7073.3	6995.3	7017.6	7039.9	7073.3
15°	6249.6	6166.1	6116.1	5915.7	5893.5	5988.1	6021.5	6066.0	6149.5	6155.0	6116.1
17.5°	5275.7	5203.4	5314.7	5426.0	5348.1	5353.6	5414.9	5453.8	5431.6	5331.4	5281.3
20°	4607.9	4685.8	4797.1	4902.9	4986.3	5036.4	5058.7	4997.5	4925.1	4719.2	4713.7
22.5°	4413.1	4513.3	4607.9	4769.3	4847.2	4975.2	4858.3	4719.2	4619.0	4518.9	4402.0
25°	4268.4	4351.9	4541.1	4602.3	4752.6	4858.3	4774.9	4635.7	4463.2	4318.5	4229.5
27.5°	4162.7	4257.3	4379.7	4546.7	4663.6	4724.8	4641.3	4585.7	4407.6	4235.1	4107.1
30°	4095.9	4196.1	4418.7	4557.8	4658.0	4708.1	4563.4	4496.6	4368.6	4223.9	4112.6
32.5°	4051.4	4140.4	4329.7	4507.7	4574.5	4574.5	4596.8	4518.9	4340.8	4095.9	4001.3
35°	3906.7	4029.1	4185.0	4390.9	4513.3	4585.7	4474.4	4385.3	4268.4	4018.0	3845.5
37.5°	3823.2	3906.7	4107.1	4301.8	4407.6	4485.5	4441.0	4285.1	4129.3	3923.4	3784.3
40°	3734.2	3867.8	4045.8	4229.5	4346.4	4424.3	4390.9	4207.2	4018.0	3823.2	3728.6
42.5°	3673.0	3762.0	3945.7	4151.6	4290.7	4441.0	4340.8	4112.6	3979.1	3711.9	3606.2
45°	3622.9	3767.6	3962.4	4045.8	4190.5	4346.4	4168.3	4029.1	3873.3	3678.5	3589.5
47.5°	3561.7	3695.2	3823.2	4045.8	4112.6	4185.0	4151.6	3929.0	3795.4	3583.9	3522.7
50°	3539.4	3589.5	3823.2	3945.7	4040.3	4112.6	4023.6	3856.6	3728.6	3511.6	3378.0
52.5°	3450.4	3545.0	3695.2	3856.6	3973.5	4062.5	3917.8	3812.1	3639.6	3411.4	3327.9
55°	3339.1	3394.7	3661.8	3828.8	3890.0	3951.2	3895.6	3723.1	3545.0	3311.2	3227.8
57.5°	3194.4	3322.4	3539.4	3773.1	3851.1	3884.4	3795.4	3656.3	3433.7	3227.8	3094.2
60°	3044.1	3177.7	3417.0	3606.2	3684.1	3806.5	3673.0	3589.5	3333.5	3105.3	2960.6
62.5°	2893.9	3044.1	3222.2	3461.5	3528.3	3578.4	3545.0	3428.1	3222.2	2966.2	2788.1
65°	2715.8	2827.1	3049.7	3172.1	3216.6	3333.5	3216.6	3172.1	2988.5	2743.6	2593.3
67.5°	2448.7	2543.3	2738.0	2854.9	2888.3	2938.4	2932.8	2882.7	2676.8	2509.9	2376.3
70°	2142.6	2226.0	2348.5	2487.6	2504.3	2565.5	2509.9	2498.7	2365.2	2137.0	2064.7
72.5°	1719.6	1797.5	1958.9	2020.1	2025.7	2048.0	2020.1	1981.2	1947.8	1708.5	1636.1
75°	1318.9	1363.5	1441.4	1497.0	1497.0	1524.8	1508.1	1469.2	1380.1	1229.9	1157.5
77.5°	918.2	962.8	1062.9	1096.3	1090.8	1101.9	1051.8	1012.9	879.3	801.4	740.2
80°	667.8	695.6	745.7	768.0	773.6	790.2	729.0	695.6	617.7	528.7	500.9
82.5°	484.2	500.9	506.4	534.3	534.3	506.4	489.7	456.3	400.7	345.0	322.8
85°	200.3	205.9	211.5	244.9	250.4	300.5	278.3	261.6	228.2	194.8	178.1
87.5°	50.1	55.7	72.3	61.2	72.3	72.3	77.9	89.0	89.0	72.3	72.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4
2.5°	15176.1	15220.6	15788.2	15860.6	16138.8	16422.7	16995.9	17407.7	17741.6	17958.6	18019.8
5°	12844.3	13128.1	13389.7	13812.6	14196.6	14742.0	15370.8	16150.0	17129.4	17630.3	17830.6
7.5°	10056.2	10390.1	10768.5	11180.3	11742.4	12721.9	13562.2	14463.7	15715.9	16233.4	17018.1
10°	8208.5	8581.4	9082.3	9399.5	10078.4	11013.4	11992.8	13033.5	14230.0	14975.7	15882.8
12.5°	7256.9	7563.0	8024.9	8692.7	9199.1	9805.7	10534.8	11848.1	13562.2	14269.0	14892.2
15°	6205.1	6544.6	7078.8	7819.0	8425.6	9149.0	9967.1	11397.4	13222.7	14313.5	14842.2
17.5°	5336.9	5581.8	6143.9	6783.9	7479.5	8269.8	9444.0	11375.1	13578.9	14975.7	15838.3
20°	4735.9	4769.3	5075.4	5620.8	6566.8	7596.4	9121.2	11263.8	14719.7	16116.6	17207.3
22.5°	4357.5	4324.1	4329.7	4791.6	5453.8	6934.1	8614.8	11642.2	16016.4	17930.8	18665.4
25°	4168.3	4079.2	4023.6	4123.7	4724.8	6149.5	8230.8	12143.1	17413.2	19427.8	20329.4
27.5°	4068.1	3912.3	3801.0	3817.7	4257.3	5754.3	7991.5	12360.1	18799.0	21514.7	21831.9
30°	4029.1	3834.4	3673.0	3617.3	3906.7	5203.4	7479.5	12733.0	20040.0	22661.1	22933.8
32.5°	3890.0	3650.7	3494.9	3444.8	3561.7	4719.2	7112.2	13000.1	21136.3	23907.7	23813.1
35°	3728.6	3528.3	3333.5	3238.9	3322.4	4407.6	6817.3	12872.1	22427.4	24876.1	24826.0
37.5°	3711.9	3450.4	3289.0	3133.2	3127.6	4023.6	6416.6	12994.5	23251.0	26612.4	25927.9
40°	3567.2	3400.3	3188.8	3060.8	2988.5	3828.8	6027.0	12705.2	24458.7	27313.6	26640.2
42.5°	3572.8	3322.4	3138.7	2988.5	2916.1	3545.0	5759.9	12627.2	24881.6	28454.4	26974.1
45°	3483.8	3238.9	3083.1	2905.0	2866.0	3327.9	5503.9	12265.5	25627.4	28510.1	26556.7
47.5°	3394.7	3177.7	3010.7	2799.3	2710.2	3250.0	5303.6	11965.0	25237.8	27987.0	25978.0
50°	3333.5	3083.1	2927.3	2777.0	2526.6	3116.5	5042.0	11892.6	24692.4	27280.2	24903.9
52.5°	3227.8	3005.2	2843.8	2726.9	2326.2	2994.0	4941.8	12315.6	25360.2	26751.5	24592.2
55°	3127.6	2899.4	2693.5	2465.3	2159.3	2671.3	4663.6	12710.7	26334.1	27970.3	26005.8
57.5°	3021.9	2804.8	2582.2	2309.5	1997.9	2337.3	4374.2	12783.1	24508.8	25850.0	24686.8
60°	2882.7	2604.5	2437.5	2081.4	1825.4	1936.7	3467.1	11269.4	19010.4	21587.1	21626.0
62.5°	2726.9	2426.4	2281.7	1864.3	1647.3	1669.5	2827.1	9471.8	15420.9	17869.6	18932.5
65°	2521.0	2231.6	2059.1	1725.2	1519.3	1446.9	2070.2	6939.7	11714.6	14497.1	15704.8
67.5°	2253.9	1981.2	1764.1	1502.6	1357.9	1241.0	1413.5	3906.7	6917.4	9733.4	10100.7
70°	1970.1	1736.3	1508.1	1291.1	1129.7	1046.2	1035.1	1730.8	3305.7	5236.8	5960.2
72.5°	1552.7	1385.7	1202.1	1040.7	934.9	812.5	740.2	717.9	1118.6	2131.4	2943.9
75°	1113.0	973.9	868.2	762.4	684.5	617.7	562.1	512.0	467.5	534.3	734.6
77.5°	701.2	651.1	567.6	539.8	495.3	478.6	456.3	428.5	395.1	372.9	372.9
80°	473.0	439.6	411.8	406.3	389.6	384.0	389.6	361.7	328.3	300.5	311.6
82.5°	317.2	311.6	306.1	300.5	306.1	311.6	322.8	317.2	289.4	272.7	278.3
85°	189.2	200.3	211.5	222.6	244.9	217.0	178.1	150.3	133.6	122.4	116.9
87.5°	72.3	100.2	89.0	83.5	89.0	83.5	77.9	72.3	61.2	55.7	55.7
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: P534400

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4	17040.4
2.5°	18426.1	18537.4	18632.0	18609.7	18415.0	18153.4	18047.7	17507.9	17396.5	17324.2
5°	18676.5	19322.1	19461.2	19377.7	18871.3	18231.3	17608.0	16817.8	16355.9	16339.2
7.5°	18214.6	19010.4	19260.9	19450.1	18776.7	17663.7	16595.2	15409.8	15120.4	15142.7
10°	17040.4	18309.2	18927.0	19121.7	18348.2	17385.4	15905.1	14703.0	14085.3	14074.2
12.5°	16389.3	17385.4	17557.9	17830.6	17602.5	16628.6	15504.4	14157.7	13556.6	13545.5
15°	15810.5	16467.2	16517.3	16901.3	17023.7	16367.0	15610.1	14174.3	13690.2	13640.1
17.5°	16316.9	15860.6	15671.4	15721.4	16083.2	16322.5	16222.3	15120.4	14625.1	14346.9
20°	16656.4	15638.0	15064.8	15120.4	15548.9	16422.7	17135.0	16489.4	15704.8	15738.1
22.5°	17563.5	15671.4	14775.4	14714.2	15393.1	16945.8	18164.5	18220.2	17463.3	17279.7
25°	18921.4	16055.4	14686.3	14669.6	15320.8	17507.9	19366.6	20268.1	19494.6	19155.1
27.5°	20012.2	16656.4	14964.6	15020.2	15548.9	17964.2	20390.6	21587.1	20997.2	20579.8
30°	20969.4	17279.7	15354.2	15098.2	16161.1	18203.5	20830.2	23089.7	22616.6	22271.6
32.5°	21364.5	18164.5	15971.9	15548.9	16667.5	18492.9	21742.9	24547.7	24141.5	23290.0
35°	22032.3	18659.8	16305.8	16272.4	17552.4	19188.5	22171.4	25510.5	25343.5	24586.7
37.5°	22566.5	19160.7	17491.2	17123.9	18765.6	20357.2	22861.5	26840.5	26456.6	26100.4
40°	22978.4	20056.7	18598.6	19082.8	20257.0	21420.1	23495.9	26924.0	28031.5	26996.4
42.5°	22599.9	20858.0	20418.4	21575.9	22689.0	22633.3	23568.3	27569.6	28398.8	27859.0
45°	22505.3	22215.9	23295.6	24347.4	24603.4	23640.6	23050.7	26857.2	28287.5	28048.2
47.5°	22277.2	23551.6	25432.6	27146.6	26757.1	24314.0	22433.0	26729.2	28354.3	27925.7
50°	22199.2	23841.0	27013.1	28682.6	28448.9	24898.3	22143.6	25905.6	27881.2	27842.3
52.5°	22193.7	24436.4	27669.7	29517.4	29662.1	25822.1	22538.7	26323.0	28248.5	28576.9
55°	22444.1	24247.2	27586.3	29055.5	28999.8	25410.3	22583.2	26601.2	28699.3	29022.1
57.5°	21169.7	21720.6	22766.9	23930.0	23629.5	21047.3	20168.0	24592.2	26339.7	26106.0
60°	18281.4	16556.2	15376.4	15320.8	14736.4	13929.5	16506.1	21948.8	21948.8	21720.6
62.5°	16010.8	10868.7	9338.3	8904.2	9321.6	10250.9	15921.8	21347.8	20741.2	20479.6
65°	14001.8	8297.6	6750.5	6628.1	7351.5	8753.9	14397.0	18186.8	17118.3	16250.1
67.5°	9009.9	6077.1	5019.7	4802.7	5676.4	6427.7	9583.1	11185.9	10512.5	10173.0
70°	5810.0	3956.8	2793.7	2621.2	2960.6	3962.4	6121.6	6522.3	5542.9	5314.7
72.5°	2749.2	1708.5	979.5	806.9	907.1	1513.7	2420.8	2604.5	2164.8	1981.2
75°	873.7	628.9	400.7	345.0	328.3	389.6	556.5	428.5	311.6	306.1
77.5°	389.6	372.9	317.2	267.1	233.7	194.8	161.4	133.6	139.1	144.7
80°	322.8	295.0	261.6	233.7	194.8	150.3	116.9	89.0	89.0	94.6
82.5°	283.8	256.0	228.2	194.8	167.0	122.4	89.0	61.2	55.7	55.7
85°	122.4	144.7	155.8	167.0	133.6	100.2	61.2	39.0	33.4	33.4
87.5°	50.1	44.5	39.0	33.4	27.8	27.8	22.3	16.7	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)