

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: McGRAW-EDISON

Report Number: P531982

Luminaire Tested: **GALN-SA7B-740-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531982
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: McGRAW-EDISON
Catalog Number: GALN-SA7B-740-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA 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: 29517 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

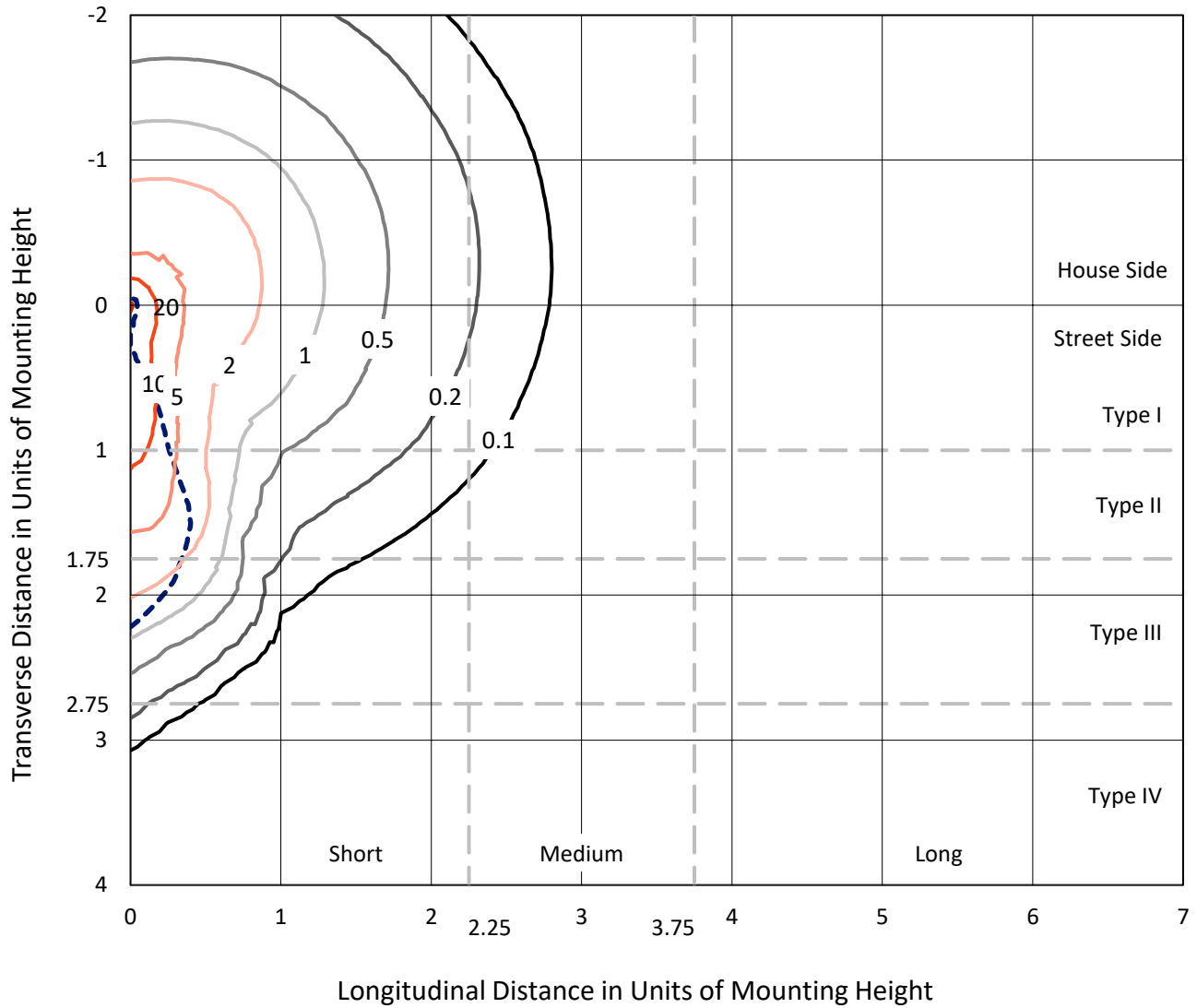
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

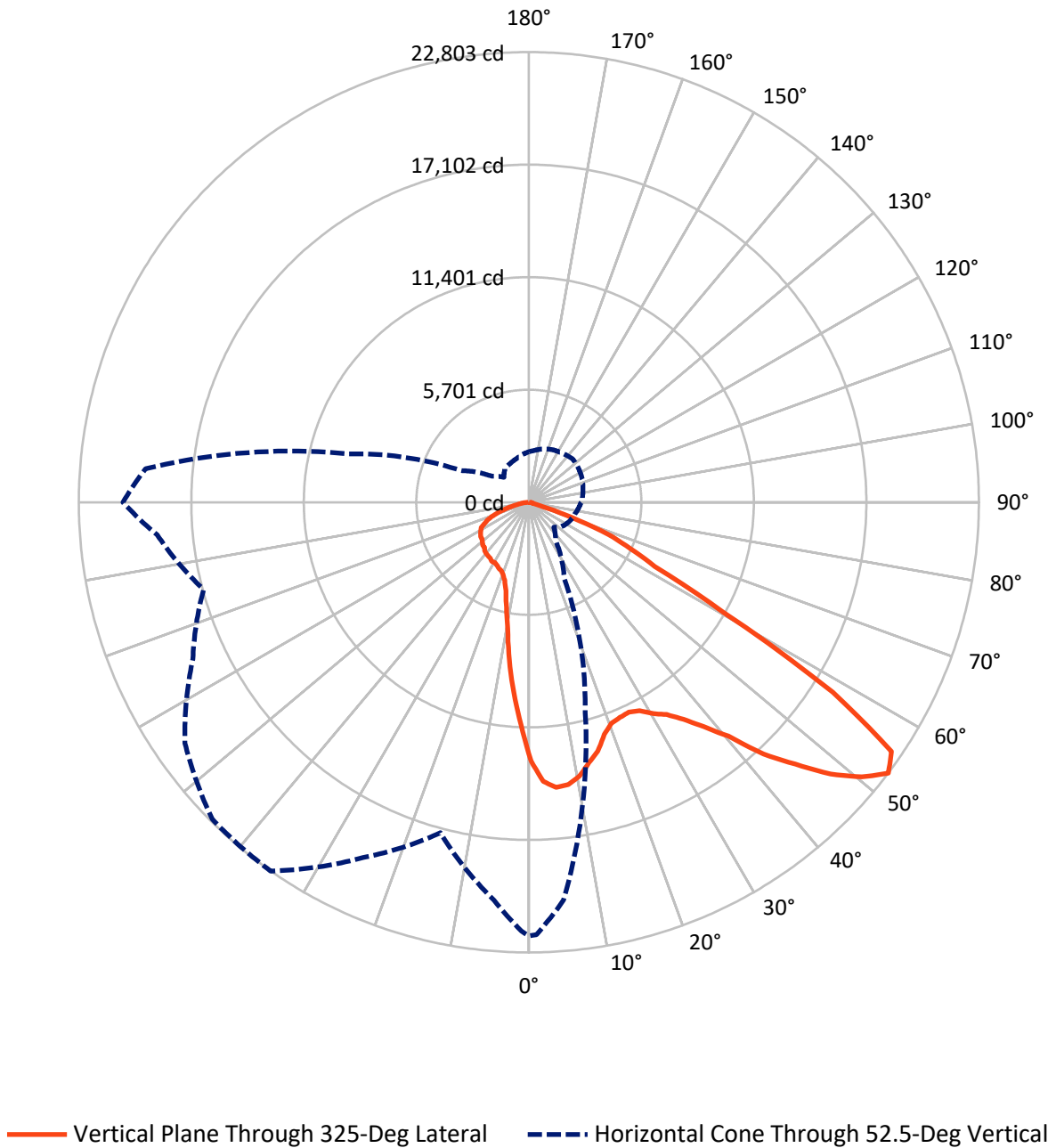
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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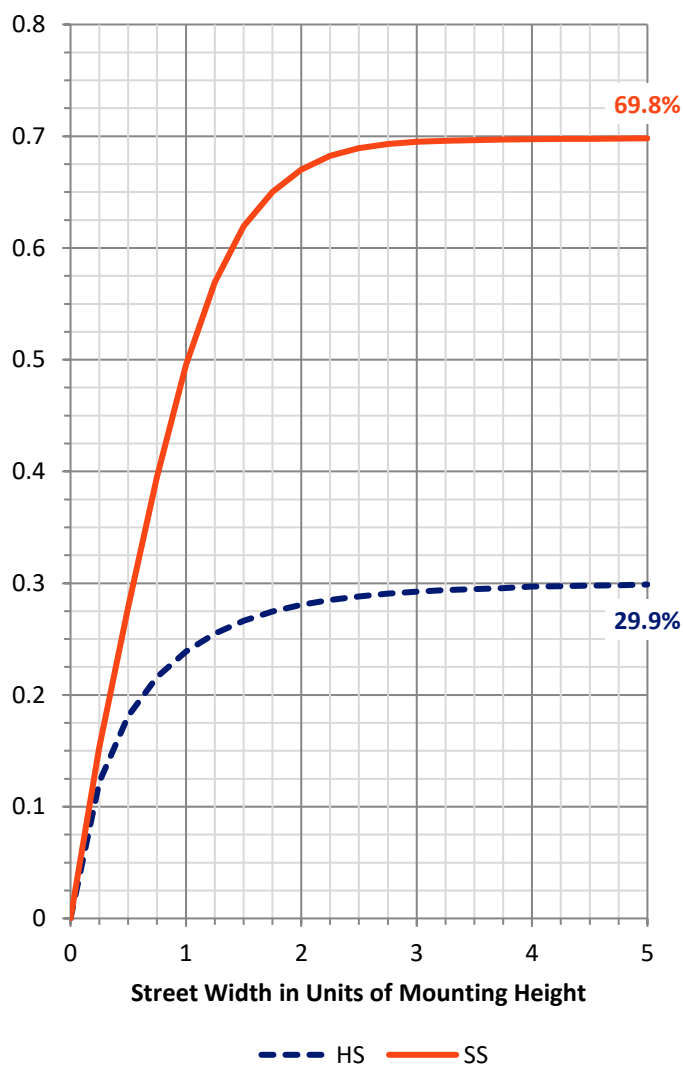
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8898.1	0.0	8898.1
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	20618.9	0.0	20618.9
	% Fixture	69.9	0.0	69.9
Total	Lumens	29517.0	0.0	29517.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	999.4	3.4
10°-20°	2166.6	7.3
20°-30°	3273.5	11.1
30°-40°	4730.3	16.0
40°-50°	6295.2	21.3
50°-60°	7041.4	23.9
60°-70°	3968.5	13.4
70°-80°	884.6	3.0
80°-90°	157.5	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°	29517.0	100.0
0°-180°	29517.0	100.0

Coefficient of Utilization



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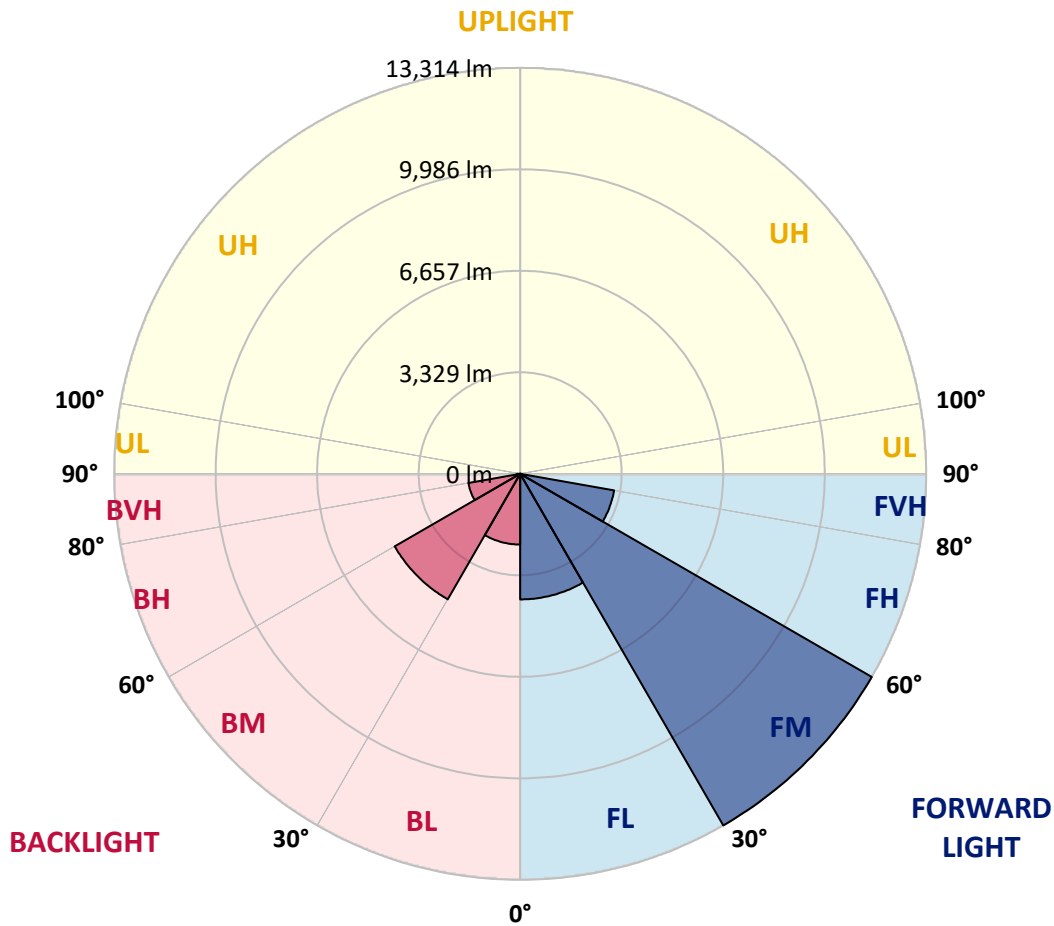
CATALOG NUMBER: GALN-SA7B-740-U-SLR-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4119.0	14.0			
FM (30°-60°)	13314.4	45.1			
FH (60°-80°)	3128.4	10.6			G2/5000
FVH (80°-90°)	57.0	0.2			G1/100
BL (0°-30°)	2320.4	7.9	B3/2500		
BM (30°-60°)	4752.5	16.1	B3/5000		
BH (60°-80°)	1724.7	5.8	B3/2500		G3/2500
BVH (80°-90°)	100.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8
2.5°	13318.0	13531.9	13300.9	12890.2	12599.3	12334.0	12055.9	12000.3	11636.7	11572.5	11307.3
5°	12560.8	12513.7	12231.4	11692.3	11097.6	10558.6	10160.7	9775.7	9514.7	9210.9	9189.6
7.5°	11641.0	11367.2	11204.6	10387.5	9651.6	8804.5	8440.9	7854.8	7670.8	7397.0	7255.8
10°	10819.5	10618.5	10237.7	9420.6	8393.8	7833.4	7444.1	7127.5	6913.6	6631.2	6276.1
12.5°	10413.1	10331.8	9904.0	8637.7	7876.2	7277.2	7003.4	6695.4	6331.7	5878.2	5702.8
15°	10485.9	10212.0	9886.9	8487.9	7435.5	6857.9	6421.6	6036.5	5570.2	5138.1	4885.7
17.5°	11029.2	10819.5	10169.3	8582.1	7268.6	6434.4	5642.9	5073.9	4654.7	4265.4	4090.0
20°	12098.7	11795.0	11063.4	8701.8	6909.3	5844.0	4937.0	4235.4	3786.2	3580.8	3521.0
22.5°	13283.8	13104.1	11936.2	8971.4	6622.6	5296.4	4188.4	3486.7	3319.9	3264.3	3375.5
25°	14725.5	14259.2	13292.3	9412.0	6400.2	4830.1	3555.2	3165.9	3080.3	3135.9	3264.3
27.5°	15820.8	15696.7	14242.1	9827.0	6096.4	4269.6	3200.1	2943.4	2969.1	3024.7	3144.5
30°	17121.3	16492.4	15161.9	10113.6	5822.6	3884.6	2952.0	2883.5	2909.2	3003.3	3063.2
32.5°	17904.2	17668.9	15739.5	10545.7	5506.0	3550.9	2759.4	2695.3	2733.8	2874.9	3016.1
35°	18901.1	18434.7	16453.9	10657.0	5283.6	3418.3	2622.5	2575.5	2665.3	2763.7	2922.0
37.5°	20064.7	19743.9	17442.2	10580.0	5163.8	3281.4	2507.0	2485.6	2549.8	2686.7	2870.7
40°	20753.5	20655.1	17959.9	10627.0	4975.5	3161.6	2374.4	2400.1	2532.7	2639.6	2819.3
42.5°	21416.6	20774.9	18725.6	10609.9	4855.7	2999.0	2387.2	2357.3	2460.0	2584.0	2755.2
45°	21562.1	20924.6	18905.3	10490.1	4710.3	2840.7	2288.8	2301.7	2425.7	2579.8	2691.0
47.5°	21468.0	20997.4	19239.0	10455.9	4573.4	2729.5	2143.4	2297.4	2370.1	2494.2	2652.5
50°	21403.8	21378.1	19521.4	10618.5	4389.4	2554.1	1968.0	2241.8	2314.5	2438.6	2609.7
52.5°	21968.5	21912.9	20227.3	11046.3	4244.0	2365.8	1788.3	2100.6	2276.0	2395.8	2562.6
55°	22310.8	22066.9	21438.0	11572.5	4000.1	2117.7	1664.2	1925.2	2181.9	2288.8	2460.0
57.5°	20069.0	19902.2	19393.0	10802.4	3589.4	1792.6	1510.2	1745.5	2053.5	2220.4	2395.8
60°	16697.8	16436.8	15132.0	9181.0	2648.2	1394.7	1416.1	1604.3	2019.3	2083.5	2288.8
62.5°	15743.7	15097.7	13322.3	7388.4	2032.1	1197.9	1270.6	1476.0	1839.6	1946.6	2151.9
65°	12492.3	12013.2	9531.8	5334.9	1360.5	1039.6	1159.4	1330.5	1587.2	1796.8	1985.1
67.5°	7820.5	7362.8	5086.8	2524.1	949.8	889.9	1035.3	1215.0	1424.6	1612.9	1822.5
70°	4085.7	3585.1	2348.7	911.3	654.6	727.3	864.2	1035.3	1240.7	1394.7	1557.3
72.5°	1523.0	1236.4	765.8	393.6	453.5	556.2	701.6	825.7	971.1	1159.4	1249.2
75°	235.3	201.1	196.8	239.6	308.0	402.2	500.5	624.6	753.0	872.8	932.6
77.5°	111.2	107.0	119.8	158.3	205.4	286.6	363.6	483.4	586.1	663.1	697.3
80°	72.7	68.5	77.0	107.0	154.0	213.9	290.9	372.2	466.3	530.5	521.9
82.5°	42.8	47.1	47.1	72.7	107.0	154.0	209.6	282.4	346.5	402.2	367.9
85°	25.7	21.4	21.4	42.8	72.7	124.1	175.4	119.8	124.1	124.1	141.2
87.5°	8.6	8.6	8.6	4.3	8.6	8.6	12.8	21.4	25.7	29.9	38.5
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°	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8
2.5°	11298.7	11431.3	11384.3	11217.4	11345.8	11367.2	11281.6	11576.8	11632.4	11542.6	11568.2
5°	9159.6	9193.8	9270.8	9433.4	9548.9	9685.8	9685.8	9694.4	9578.9	9869.8	9784.2
7.5°	7136.0	7157.4	7247.3	7593.8	7692.2	7953.2	8064.4	7987.4	7756.4	7658.0	7739.3
10°	6160.6	6036.5	6006.6	6049.4	6271.8	6383.1	6477.2	6451.5	6413.0	6336.0	6250.4
12.5°	5510.3	5420.5	5347.7	5245.1	5257.9	5364.9	5437.6	5377.7	5394.8	5411.9	5437.6
15°	4804.4	4740.2	4701.7	4547.7	4530.6	4603.3	4629.0	4663.2	4727.4	4731.7	4701.7
17.5°	4055.7	4000.1	4085.7	4171.2	4111.3	4115.6	4162.7	4192.6	4175.5	4098.5	4060.0
20°	3542.3	3602.2	3687.8	3769.1	3833.3	3871.8	3888.9	3841.8	3786.2	3627.9	3623.6
22.5°	3392.6	3469.6	3542.3	3666.4	3726.3	3824.7	3734.9	3627.9	3550.9	3473.9	3384.1
25°	3281.4	3345.5	3491.0	3538.1	3653.6	3734.9	3670.7	3563.7	3431.1	3319.9	3251.4
27.5°	3200.1	3272.8	3366.9	3495.3	3585.1	3632.2	3568.0	3525.2	3388.3	3255.7	3157.3
30°	3148.7	3225.8	3396.9	3503.8	3580.8	3619.4	3508.1	3456.8	3358.4	3247.1	3161.6
32.5°	3114.5	3183.0	3328.4	3465.3	3516.7	3516.7	3533.8	3473.9	3337.0	3148.7	3076.0
35°	3003.3	3097.4	3217.2	3375.5	3469.6	3525.2	3439.7	3371.2	3281.4	3088.9	2956.2
37.5°	2939.1	3003.3	3157.3	3307.0	3388.3	3448.2	3414.0	3294.2	3174.4	3016.1	2909.2
40°	2870.7	2973.3	3110.2	3251.4	3341.3	3401.2	3375.5	3234.3	3088.9	2939.1	2866.4
42.5°	2823.6	2892.1	3033.2	3191.5	3298.5	3414.0	3337.0	3161.6	3058.9	2853.6	2772.3
45°	2785.1	2896.3	3046.1	3110.2	3221.5	3341.3	3204.4	3097.4	2977.6	2827.9	2759.4
47.5°	2738.0	2840.7	2939.1	3110.2	3161.6	3217.2	3191.5	3020.4	2917.7	2755.2	2708.1
50°	2720.9	2759.4	2939.1	3033.2	3106.0	3161.6	3093.1	2964.8	2866.4	2699.5	2596.9
52.5°	2652.5	2725.2	2840.7	2964.8	3054.6	3123.1	3011.8	2930.6	2797.9	2622.5	2558.4
55°	2566.9	2609.7	2815.1	2943.4	2990.5	3037.5	2994.7	2862.1	2725.2	2545.5	2481.4
57.5°	2455.7	2554.1	2720.9	2900.6	2960.5	2986.2	2917.7	2810.8	2639.6	2481.4	2378.7
60°	2340.2	2442.8	2626.8	2772.3	2832.2	2926.3	2823.6	2759.4	2562.6	2387.2	2276.0
62.5°	2224.7	2340.2	2477.1	2661.0	2712.4	2750.9	2725.2	2635.4	2477.1	2280.3	2143.4
65°	2087.8	2173.3	2344.4	2438.6	2472.8	2562.6	2472.8	2438.6	2297.4	2109.1	1993.6
67.5°	1882.4	1955.1	2104.9	2194.7	2220.4	2258.9	2254.6	2216.1	2057.8	1929.5	1826.8
70°	1647.1	1711.3	1805.4	1912.4	1925.2	1972.2	1929.5	1920.9	1818.2	1642.8	1587.2
72.5°	1322.0	1381.9	1505.9	1553.0	1557.3	1574.4	1553.0	1523.0	1497.4	1313.4	1257.8
75°	1013.9	1048.2	1108.1	1150.8	1150.8	1172.2	1159.4	1129.4	1061.0	945.5	889.9
77.5°	705.9	740.1	817.1	842.8	838.5	847.1	808.6	778.6	676.0	616.1	569.0
80°	513.4	534.8	573.3	590.4	594.7	607.5	560.4	534.8	474.9	406.4	385.0
82.5°	372.2	385.0	389.3	410.7	410.7	389.3	376.5	350.8	308.0	265.2	248.1
85°	154.0	158.3	162.6	188.2	192.5	231.0	213.9	201.1	175.4	149.7	136.9
87.5°	38.5	42.8	55.6	47.1	55.6	55.6	59.9	68.5	68.5	55.6	55.6
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°	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8
2.5°	11666.6	11700.9	12137.2	12192.8	12406.8	12624.9	13065.6	13382.2	13638.9	13805.7	13852.8
5°	9874.1	10092.3	10293.3	10618.5	10913.7	11332.9	11816.4	12415.3	13168.3	13553.3	13707.3
7.5°	7730.7	7987.4	8278.3	8594.9	9027.0	9779.9	10426.0	11119.0	12081.6	12479.5	13082.7
10°	6310.3	6597.0	6982.0	7225.9	7747.8	8466.5	9219.5	10019.5	10939.3	11512.6	12210.0
12.5°	5578.8	5814.1	6169.2	6682.5	7071.9	7538.2	8098.6	9108.3	10426.0	10969.3	11448.4
15°	4770.2	5031.2	5441.9	6010.9	6477.2	7033.3	7662.2	8761.7	10165.0	11003.5	11409.9
17.5°	4102.8	4291.0	4723.1	5215.1	5749.9	6357.4	7260.1	8744.6	10438.8	11512.6	12175.7
20°	3640.7	3666.4	3901.7	4321.0	5048.3	5839.7	7012.0	8659.1	11315.8	12389.6	13228.2
22.5°	3349.8	3324.2	3328.4	3683.5	4192.6	5330.6	6622.6	8950.0	12312.6	13784.3	14349.1
25°	3204.4	3135.9	3093.1	3170.1	3632.2	4727.4	6327.4	9335.0	13386.5	14935.2	15628.2
27.5°	3127.4	3007.6	2922.0	2934.8	3272.8	4423.7	6143.5	9501.9	14451.7	16539.5	16783.3
30°	3097.4	2947.7	2823.6	2780.8	3003.3	4000.1	5749.9	9788.5	15405.8	17420.8	17630.4
32.5°	2990.5	2806.5	2686.7	2648.2	2738.0	3627.9	5467.5	9993.9	16248.6	18379.1	18306.4
35°	2866.4	2712.4	2562.6	2489.9	2554.1	3388.3	5240.8	9895.5	17241.1	19123.5	19085.0
37.5°	2853.6	2652.5	2528.4	2408.6	2404.3	3093.1	4932.8	9989.6	17874.3	20458.3	19932.1
40°	2742.3	2614.0	2451.4	2353.0	2297.4	2943.4	4633.3	9767.1	18802.7	20997.4	20479.7
42.5°	2746.6	2554.1	2412.9	2297.4	2241.8	2725.2	4427.9	9707.2	19127.8	21874.4	20736.4
45°	2678.1	2489.9	2370.1	2233.2	2203.3	2558.4	4231.1	9429.1	19701.1	21917.2	20415.5
47.5°	2609.7	2442.8	2314.5	2151.9	2083.5	2498.5	4077.1	9198.1	19401.6	21515.0	19970.6
50°	2562.6	2370.1	2250.3	2134.8	1942.3	2395.8	3876.0	9142.5	18982.3	20971.7	19144.9
52.5°	2481.4	2310.2	2186.2	2096.3	1788.3	2301.7	3799.0	9467.6	19495.7	20565.3	18905.3
55°	2404.3	2228.9	2070.6	1895.2	1659.9	2053.5	3585.1	9771.4	20244.4	21502.2	19992.0
57.5°	2323.1	2156.2	1985.1	1775.4	1535.9	1796.8	3362.7	9827.0	18841.2	19872.2	18978.1
60°	2216.1	2002.2	1873.8	1600.0	1403.2	1488.8	2665.3	8663.3	14614.3	16595.1	16625.1
62.5°	2096.3	1865.3	1754.1	1433.2	1266.3	1283.5	2173.3	7281.5	11854.9	13737.3	14554.4
65°	1938.0	1715.6	1582.9	1326.2	1167.9	1112.3	1591.5	5334.9	9005.6	11144.7	12073.1
67.5°	1732.7	1523.0	1356.2	1155.1	1043.9	954.0	1086.7	3003.3	5317.8	7482.6	7764.9
70°	1514.5	1334.8	1159.4	992.5	868.5	804.3	795.7	1330.5	2541.2	4025.8	4581.9
72.5°	1193.6	1065.3	924.1	800.0	718.7	624.6	569.0	551.9	859.9	1638.5	2263.2
75°	855.6	748.7	667.4	586.1	526.2	474.9	432.1	393.6	359.4	410.7	564.7
77.5°	539.1	500.5	436.4	415.0	380.8	367.9	350.8	329.4	303.8	286.6	286.6
80°	363.6	338.0	316.6	312.3	299.5	295.2	299.5	278.1	252.4	231.0	239.6
82.5°	243.9	239.6	235.3	231.0	235.3	239.6	248.1	243.9	222.5	209.6	213.9
85°	145.5	154.0	162.6	171.1	188.2	166.8	136.9	115.5	102.7	94.1	89.8
87.5°	55.6	77.0	68.5	64.2	68.5	64.2	59.9	55.6	47.1	42.8	42.8
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: P531982

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8	13099.8
2.5°	14165.1	14250.7	14323.4	14306.3	14156.5	13955.5	13874.2	13459.2	13373.6	13318.0
5°	14357.6	14853.9	14960.8	14896.7	14507.4	14015.4	13536.2	12928.7	12573.6	12560.8
7.5°	14002.5	14614.3	14806.8	14952.3	14434.6	13579.0	12757.6	11846.3	11623.8	11641.0
10°	13099.8	14075.3	14550.1	14699.9	14105.2	13365.1	12227.1	11303.0	10828.1	10819.5
12.5°	12599.3	13365.1	13497.7	13707.3	13531.9	12783.2	11919.0	10883.7	10421.7	10413.1
15°	12154.3	12659.2	12697.7	12992.9	13087.0	12582.2	12000.3	10896.6	10524.4	10485.9
17.5°	12543.7	12192.8	12047.4	12085.9	12364.0	12547.9	12470.9	11623.8	11243.1	11029.2
20°	12804.6	12021.7	11581.1	11623.8	11953.3	12624.9	13172.6	12676.3	12073.1	12098.7
22.5°	13502.0	12047.4	11358.6	11311.5	11833.5	13027.1	13964.0	14006.8	13425.0	13283.8
25°	14545.9	12342.6	11290.2	11277.3	11777.9	13459.2	14888.1	15581.2	14986.5	14725.5
27.5°	15384.4	12804.6	11504.1	11546.8	11953.3	13810.0	15675.3	16595.1	16141.6	15820.8
30°	16120.2	13283.8	11803.5	11606.7	12423.9	13994.0	16013.3	17750.2	17386.6	17121.3
32.5°	16424.0	13964.0	12278.4	11953.3	12813.2	14216.4	16714.9	18871.1	18558.8	17904.2
35°	16937.4	14344.8	12535.1	12509.4	13493.4	14751.2	17044.3	19611.2	19482.9	18901.1
37.5°	17348.1	14729.8	13446.4	13164.0	14426.1	15649.6	17574.8	20633.7	20338.5	20064.7
40°	17664.7	15418.6	14297.7	14669.9	15572.6	16466.8	18062.5	20697.9	21549.3	20753.5
42.5°	17373.7	16034.7	15696.7	16586.6	17442.2	17399.4	18118.1	21194.2	21831.6	21416.6
45°	17301.0	17078.5	17908.5	18717.1	18913.9	18173.8	17720.3	20646.6	21746.1	21562.1
47.5°	17125.6	18105.3	19551.3	20869.0	20569.6	18691.4	17245.4	20548.2	21797.4	21468.0
50°	17065.7	18327.8	20766.3	22049.8	21870.1	19140.6	17022.9	19915.0	21433.7	21403.8
52.5°	17061.4	18785.5	21271.2	22691.5	22802.8	19850.8	17326.7	20235.9	21716.1	21968.5
55°	17254.0	18640.1	21207.0	22336.4	22293.7	19534.2	17360.9	20449.8	22062.6	22310.8
57.5°	16274.2	16697.8	17502.1	18396.2	18165.2	16180.1	15504.2	18905.3	20248.7	20069.0
60°	14053.9	12727.6	11820.6	11777.9	11328.7	10708.3	12689.1	16873.2	16873.2	16697.8
62.5°	12308.4	8355.3	7178.8	6845.1	7166.0	7880.4	12239.9	16411.1	15944.8	15743.7
65°	10763.9	6378.8	5189.4	5095.3	5651.5	6729.6	11067.7	13981.1	13159.7	12492.3
67.5°	6926.4	4671.8	3858.9	3692.1	4363.8	4941.3	7367.0	8599.2	8081.5	7820.5
70°	4466.4	3041.8	2147.7	2015.0	2276.0	3046.1	4706.0	5014.0	4261.1	4085.7
72.5°	2113.4	1313.4	753.0	620.3	697.3	1163.7	1861.0	2002.2	1664.2	1523.0
75°	671.7	483.4	308.0	265.2	252.4	299.5	427.8	329.4	239.6	235.3
77.5°	299.5	286.6	243.9	205.4	179.7	149.7	124.1	102.7	107.0	111.2
80°	248.1	226.7	201.1	179.7	149.7	115.5	89.8	68.5	68.5	72.7
82.5°	218.2	196.8	175.4	149.7	128.3	94.1	68.5	47.1	42.8	42.8
85°	94.1	111.2	119.8	128.3	102.7	77.0	47.1	29.9	25.7	25.7
87.5°	38.5	34.2	29.9	25.7	21.4	21.4	17.1	12.8	8.6	8.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)