

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: P530290

Luminaire Tested: **GALN-SA5C-730-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23880 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

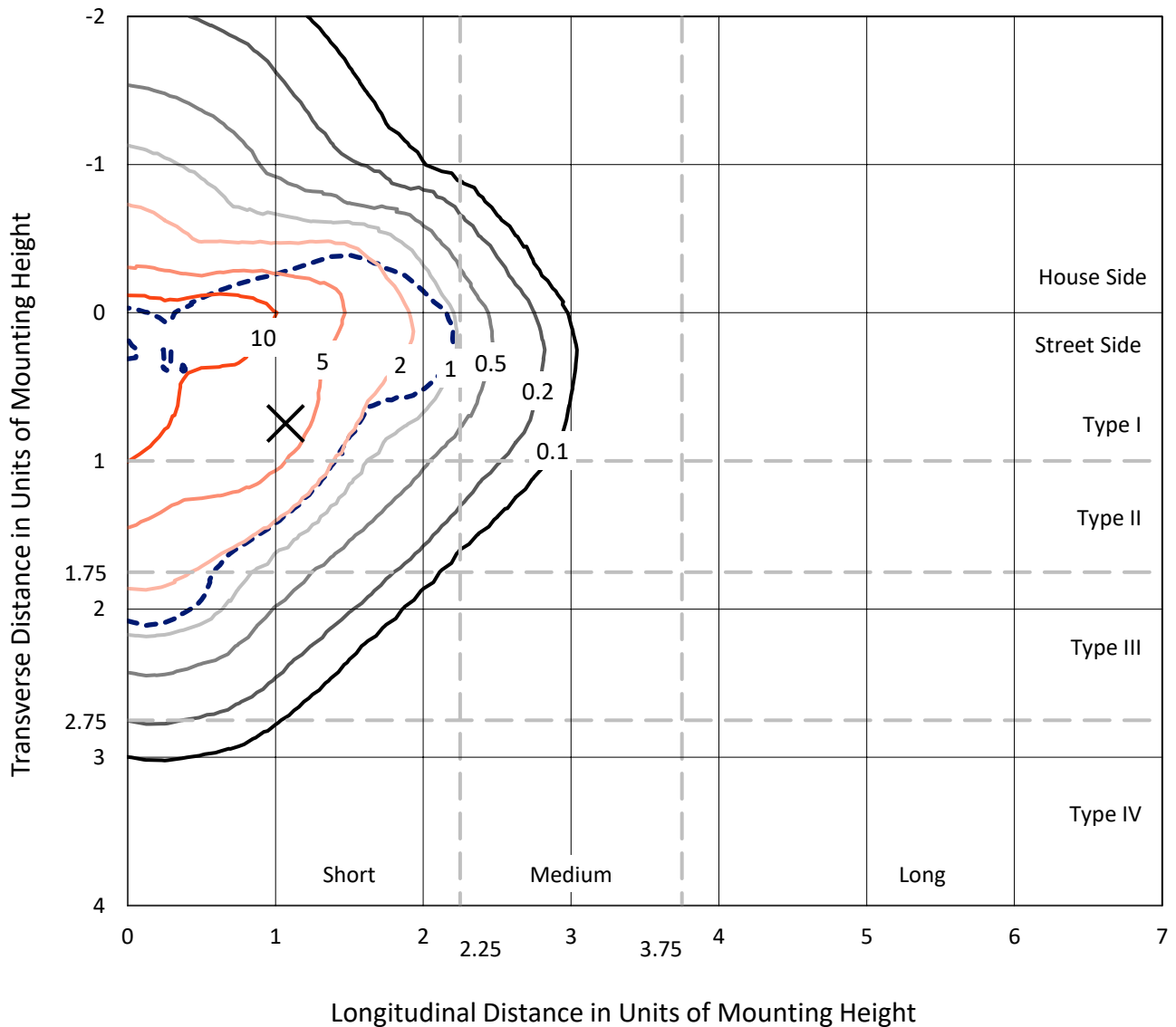
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

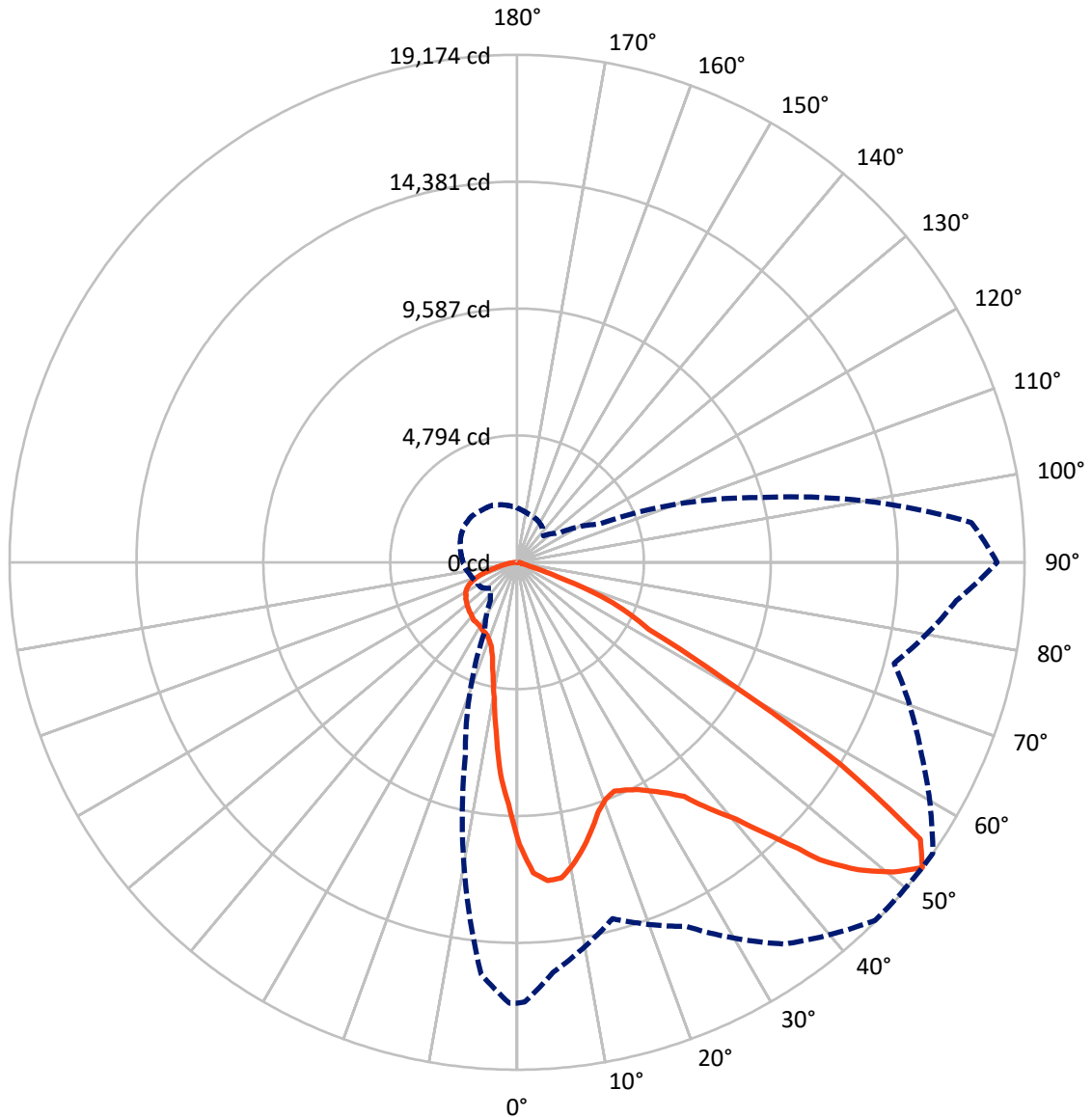
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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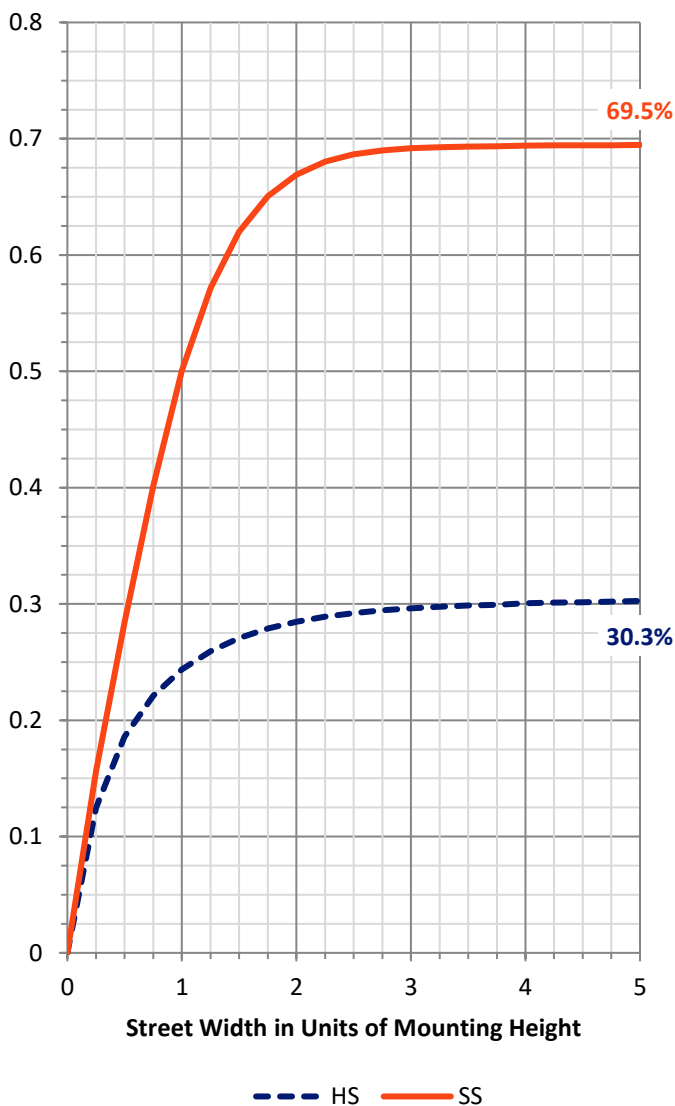
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7284.7	0.0	7284.7
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16595.3	0.0	16595.3
	% Fixture	69.5	0.0	69.5
Total	Lumens	23880.0	0.0	23880.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.8	3.4
10°-20°	1754.7	7.3
20°-30°	2660.7	11.1
30°-40°	3844.3	16.1
40°-50°	5137.0	21.5
50°-60°	5734.1	24.0
60°-70°	3145.4	13.2
70°-80°	680.0	2.8
80°-90°	110.0	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°	23880.0	100.0
0°-180°	23880.0	100.0

Coefficient of Utilization

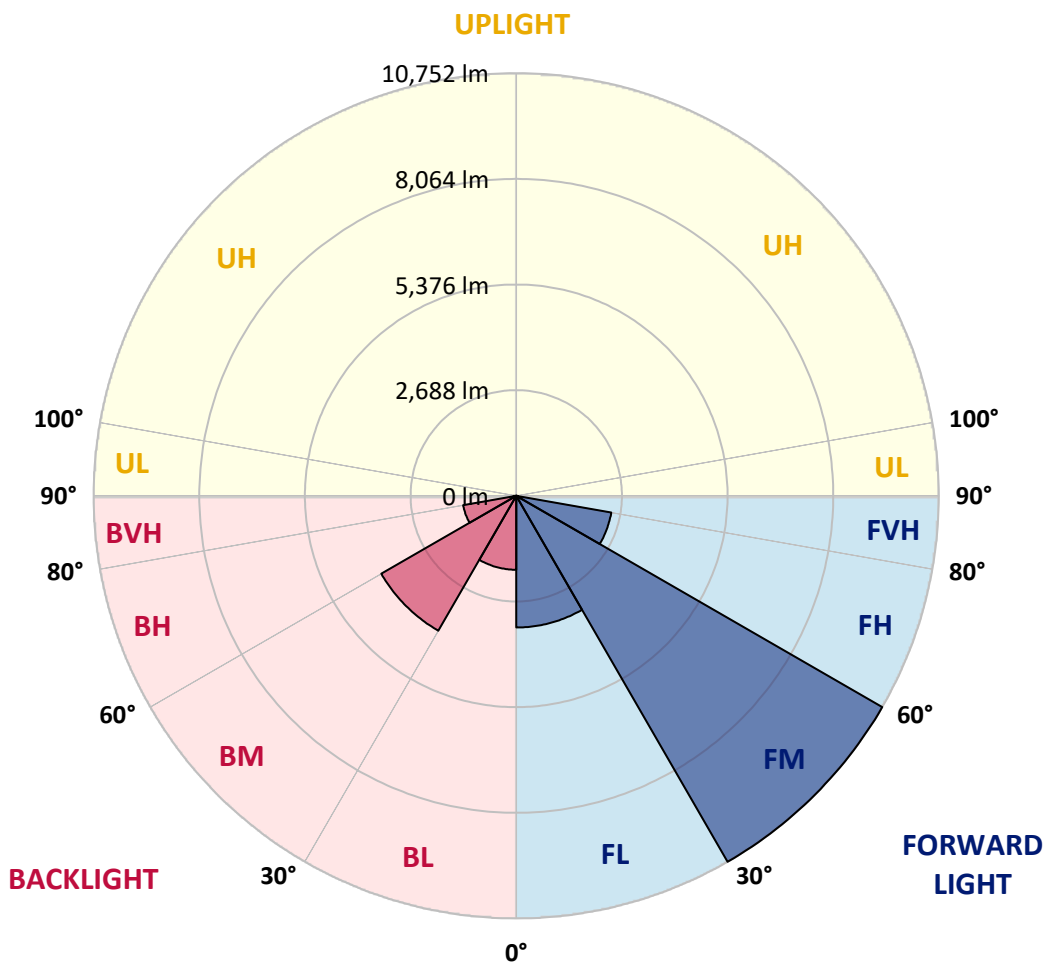


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3348.4	14.0			
FM (30°-60°)	10751.9	45.0			
FH (60°-80°)	2454.3	10.3			G2/5000
FVH (80°-90°)	40.7	0.2			G1/100
BL (0°-30°)	1880.8	7.9	B3/2500		
BM (30°-60°)	3963.5	16.6	B3/5000		
BH (60°-80°)	1371.1	5.7	B3/2500		G3/2500
BVH (80°-90°)	69.3	0.3			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3
2.5°	11178.8	11116.1	11171.9	11436.9	11590.3	11694.9	11761.1	11750.7	11499.6	11255.6	11255.6
5°	10851.1	10770.9	10885.9	11485.7	12088.9	12141.2	12228.4	12085.4	11715.8	11269.5	10711.6
7.5°	9902.7	9961.9	10153.7	10941.7	11726.3	12120.3	12224.9	12043.6	11443.8	10610.5	9791.1
10°	9083.2	9222.7	9665.5	10516.3	11238.1	11750.7	11865.8	11611.2	11137.0	10115.4	9383.1
12.5°	8800.8	8713.6	9205.3	10056.1	10746.5	11021.9	11074.2	11091.7	10770.9	9864.3	8971.7
15°	8765.9	8821.7	9205.3	9850.4	10275.7	10289.7	10376.9	10512.9	10554.7	10035.2	9163.4
17.5°	9268.0	9201.8	9595.8	10108.4	9906.1	9703.9	9724.8	9920.1	10265.3	10181.6	9766.7
20°	10010.7	10160.7	10471.0	10418.7	9874.8	9362.2	9365.7	9550.5	10230.4	10788.3	10607.0
22.5°	11245.1	11391.5	11621.7	10990.6	9874.8	9261.1	9142.5	9393.6	10453.6	11510.1	11555.4
25°	12371.3	12639.8	12702.6	11959.9	10369.9	9355.2	9278.5	9526.1	10676.7	12214.4	12643.3
27.5°	13396.5	13494.1	13769.6	12584.0	10645.4	9418.0	9411.0	9728.3	10959.2	12566.6	13616.1
30°	14205.4	14195.0	14351.9	12978.1	11084.7	9770.2	9431.9	10031.7	11328.8	13148.9	14515.8
32.5°	14756.3	14874.9	15206.2	13525.5	11269.5	10104.9	9839.9	10387.3	11778.6	13424.4	15150.4
35°	15725.7	15931.4	15513.0	13828.8	11855.3	10436.1	10125.8	10872.0	12001.7	13724.2	15927.9
37.5°	16639.2	16482.3	16056.9	13992.7	12235.4	11049.8	10760.4	11810.0	12695.6	14376.3	16444.0
40°	17225.0	17221.6	16464.9	14125.2	12503.8	11987.8	11970.4	12761.9	13546.4	14787.7	17022.8
42.5°	17479.6	17723.7	16632.3	14111.3	13068.7	13124.5	13476.7	14184.5	14149.6	14871.4	17008.9
44°	17828.3	17974.7	16921.7	14142.7	13445.3	13891.6	14721.5	15171.3	14676.2	14826.1	16991.4
45°	17814.3	17824.8	16510.2	14184.5	13766.1	14533.2	15275.9	16036.0	15139.9	14728.5	17221.6
47.5°	17406.4	17287.8	16161.6	13874.2	14766.8	16227.8	16914.7	17375.0	15711.7	14519.2	16935.6
50°	16600.9	16464.9	15314.2	13741.7	14976.0	17280.8	18229.3	18396.6	16231.3	14313.5	16653.2
52.5°	16656.7	16618.3	15554.8	13940.4	15185.2	17612.1	19132.3	19174.2	16820.6	14745.9	16656.7
55°	17653.9	17521.4	16245.2	14188.0	15031.8	17225.0	18557.0	18483.8	16621.8	14484.4	16963.5
57.5°	16154.6	16241.7	15289.8	13208.2	13155.9	14003.2	14589.0	14407.7	13870.7	13072.2	15781.5
60°	13033.8	13281.4	13372.1	11046.3	9927.1	9491.2	9316.9	8996.1	9086.7	10739.5	13863.7
62.5°	11178.8	11164.9	11733.3	10014.2	6503.0	5592.9	5509.2	5582.4	6628.5	10572.1	13577.8
65°	8863.6	9100.7	9275.0	8487.0	5146.6	4152.8	4149.4	4613.1	5735.9	8835.7	10962.7
67.5°	5627.8	5938.1	6154.3	5429.0	3441.5	2956.8	2876.7	3434.5	3975.0	5795.1	6600.6
70°	3173.0	3319.5	3417.1	3131.2	2189.7	1534.2	1443.6	1576.1	2402.4	3751.9	3912.2
72.5°	1223.9	1290.1	1422.6	1433.1	826.4	495.1	401.0	481.2	1011.2	1485.4	1415.7
75°	188.3	202.2	285.9	341.7	237.1	181.3	191.8	198.8	282.4	383.6	320.8
77.5°	90.7	90.7	87.2	101.1	118.6	129.0	139.5	153.4	167.4	184.8	177.8
80°	59.3	59.3	59.3	69.7	87.2	104.6	118.6	125.5	132.5	146.4	139.5
82.5°	38.4	38.4	38.4	52.3	69.7	87.2	94.1	111.6	125.5	146.4	136.0
85°	20.9	20.9	20.9	34.9	52.3	73.2	69.7	55.8	31.4	3.5	7.0
87.5°	7.0	7.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3
2.5°	10962.7	10802.3	10788.3	10460.6	10167.7	10024.7	9909.6	9588.8	9658.6	9473.8	9470.3
5°	10432.7	10104.9	9574.9	9139.0	8703.2	8616.0	8235.9	7904.7	7915.1	7678.0	7719.9
7.5°	9480.7	9254.1	8609.0	7925.6	7346.8	6935.3	6576.2	6360.0	6084.6	5990.4	5941.6
10°	8877.5	8598.6	7873.3	7015.5	6367.0	6147.3	5802.1	5610.3	5327.9	5188.4	5090.8
12.5°	8612.5	8204.6	7298.0	6426.3	5993.9	5767.3	5474.4	5125.7	4790.9	4661.9	4484.1
15°	8640.4	8152.3	7130.6	6189.2	5669.6	5230.3	4968.8	4581.7	4240.0	4013.4	3884.4
17.5°	9062.3	8469.6	7207.3	6007.8	5261.7	4710.7	4198.2	3779.7	3507.8	3336.9	3295.1
20°	10059.6	9254.1	7336.3	5714.9	4853.7	4166.8	3535.7	3099.8	2890.6	2887.1	2890.6
22.5°	10889.4	10090.9	7597.8	5540.6	4445.7	3469.4	2841.8	2702.3	2660.5	2747.6	2758.1
25°	12008.7	11032.4	8047.7	5449.9	4069.2	2956.8	2569.8	2517.5	2514.0	2625.6	2629.1
27.5°	13155.9	11855.3	8316.1	5184.9	3685.6	2691.8	2405.9	2395.5	2451.3	2569.8	2559.3
30°	13936.9	12545.7	8800.8	4867.6	3232.3	2458.2	2339.7	2353.6	2430.3	2521.0	2534.9
32.5°	14847.0	13225.6	8926.3	4693.3	2953.4	2263.0	2179.3	2210.7	2308.3	2451.3	2528.0
35°	15889.6	13706.8	9118.1	4456.2	2848.8	2113.0	2071.2	2106.1	2224.6	2318.8	2402.4
37.5°	16660.2	14557.6	9153.0	4271.4	2733.7	2029.3	1963.1	2078.2	2147.9	2280.4	2322.2
40°	17232.0	15174.8	9243.6	4156.3	2643.0	1921.3	1921.3	1998.0	2092.1	2214.1	2297.8
42.5°	17598.1	15624.6	9309.9	4051.7	2468.7	1889.9	1872.4	1949.1	2074.7	2193.2	2231.6
44°	17821.3	15816.4	9243.6	3954.1	2419.9	1851.5	1851.5	1917.8	2015.4	2154.9	2200.2
45°	17877.1	16056.9	9097.2	3950.6	2360.6	1806.2	1799.2	1924.7	1991.0	2161.8	2189.7
47.5°	18093.3	16353.3	9114.6	3839.0	2217.6	1698.1	1820.1	1875.9	1935.2	2085.1	2179.3
50°	18086.3	16538.1	9076.3	3675.1	2113.0	1576.1	1778.3	1841.1	1900.3	2053.8	2092.1
52.5°	18135.1	17228.5	9428.4	3413.6	1924.7	1419.1	1638.8	1778.3	1851.5	1980.5	2060.7
55°	18110.7	17622.5	9777.1	3218.4	1659.7	1325.0	1520.3	1684.1	1788.8	1924.7	1963.1
57.5°	16541.6	15575.8	9048.4	2852.2	1373.8	1213.4	1352.9	1586.5	1719.0	1858.5	1907.3
60°	13515.0	12005.2	7461.9	2099.1	1129.7	1115.8	1258.8	1555.1	1610.9	1733.0	1816.6
62.5°	12489.9	10530.3	5917.2	1604.0	965.9	1021.6	1161.1	1405.2	1492.4	1642.3	1719.0
65°	9773.6	6994.6	3664.7	1084.4	850.8	917.0	1049.5	1230.9	1373.8	1513.3	1604.0
67.5°	5788.2	3821.6	1813.2	760.1	742.7	812.4	948.4	1084.4	1248.3	1401.7	1447.0
70°	3152.1	1879.4	774.1	578.8	631.1	693.9	826.4	920.5	1077.4	1196.0	1272.7
72.5°	1011.2	571.8	387.0	428.9	481.2	554.4	634.6	749.7	861.3	931.0	993.8
75°	244.1	240.6	275.5	299.9	348.7	404.5	470.7	530.0	617.2	683.4	739.2
77.5°	170.9	184.8	212.7	247.6	265.0	285.9	327.8	373.1	411.4	460.3	495.1
80°	132.5	143.0	163.9	181.3	198.8	216.2	237.1	254.5	278.9	310.3	327.8
82.5°	125.5	132.5	153.4	163.9	156.9	153.4	167.4	174.3	177.8	188.3	198.8
85°	10.5	0.0	7.0	24.4	59.3	87.2	94.1	94.1	90.7	97.6	97.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	13.9	10.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3
2.5°	9428.4	9309.9	9355.2	9411.0	9330.8	9146.0	9194.8	9173.9	9362.2	9348.2	9536.5
5°	7904.7	7719.9	7740.8	8012.8	7925.6	8019.8	7831.5	7807.1	7841.9	7859.4	7890.7
7.5°	6049.7	6025.3	6234.5	6464.6	6572.7	6461.1	6276.3	6234.5	6196.1	6119.4	6293.8
10°	4937.4	4944.4	4930.4	5104.7	5226.8	5202.4	5090.8	5076.9	5003.6	4975.7	5073.4
12.5°	4407.4	4313.2	4267.9	4212.1	4306.3	4369.0	4320.2	4285.3	4288.8	4323.7	4337.6
15°	3894.8	3835.5	3737.9	3675.1	3720.5	3689.1	3671.7	3741.4	3724.0	3717.0	3800.7
17.5°	3319.5	3368.3	3361.3	3291.6	3350.9	3326.5	3323.0	3274.2	3207.9	3159.1	3187.0
20°	2939.4	3030.1	3099.8	3103.3	3134.7	3131.2	3078.9	2929.0	2880.1	2869.7	2876.7
22.5°	2803.4	2852.2	2935.9	3054.5	3054.5	2998.7	2935.9	2761.6	2716.3	2667.4	2646.5
25°	2695.3	2789.5	2897.6	2911.5	2967.3	2915.0	2813.9	2726.7	2632.6	2566.3	2566.3
27.5°	2639.5	2744.2	2824.3	2848.8	2925.5	2883.6	2779.0	2667.4	2555.9	2552.4	2493.1
30°	2615.1	2712.8	2765.1	2824.3	2859.2	2793.0	2761.6	2643.0	2531.5	2503.6	2405.9
32.5°	2541.9	2681.4	2779.0	2765.1	2793.0	2765.1	2719.7	2622.1	2496.6	2433.8	2423.4
35°	2458.2	2597.7	2702.3	2775.5	2793.0	2733.7	2705.8	2573.3	2402.4	2371.1	2263.0
37.5°	2412.9	2496.6	2625.6	2744.2	2768.6	2737.2	2643.0	2507.0	2336.2	2301.3	2207.2
40°	2357.1	2465.2	2566.3	2664.0	2737.2	2660.5	2552.4	2419.9	2343.2	2238.6	2210.7
42.5°	2315.3	2437.3	2521.0	2629.1	2712.8	2611.7	2486.1	2395.5	2287.4	2217.6	2137.4
44°	2301.3	2412.9	2468.7	2601.2	2670.9	2594.2	2489.6	2395.5	2269.9	2207.2	2137.4
45°	2252.5	2405.9	2465.2	2583.8	2643.0	2580.3	2447.8	2353.6	2263.0	2186.3	2113.0
47.5°	2203.7	2308.3	2409.4	2503.6	2545.4	2524.5	2412.9	2297.8	2189.7	2144.4	2074.7
50°	2189.7	2294.3	2388.5	2475.7	2524.5	2482.6	2381.5	2269.9	2144.4	2071.2	2011.9
52.5°	2120.0	2249.0	2353.6	2381.5	2444.3	2419.9	2343.2	2221.1	2102.6	2039.8	1991.0
55°	2018.9	2154.9	2297.8	2332.7	2423.4	2385.0	2269.9	2154.9	2053.8	1959.6	1896.8
57.5°	1980.5	2113.0	2252.5	2297.8	2353.6	2290.9	2263.0	2140.9	1980.5	1931.7	1834.1
60°	1882.9	2050.3	2165.3	2269.9	2273.4	2256.0	2207.2	2067.7	1935.2	1844.5	1774.8
62.5°	1806.2	1963.1	2053.8	2151.4	2210.7	2161.8	2113.0	1984.0	1841.1	1739.9	1659.7
65°	1694.6	1837.6	1914.3	1973.6	2039.8	2032.8	1949.1	1855.0	1705.1	1624.9	1548.2
67.5°	1523.8	1649.3	1753.9	1809.7	1851.5	1841.1	1778.3	1712.0	1558.6	1478.4	1422.6
70°	1318.0	1447.0	1513.3	1544.7	1586.5	1607.4	1558.6	1527.2	1391.3	1286.6	1234.3
72.5°	1060.0	1143.7	1241.3	1269.2	1286.6	1300.6	1300.6	1272.7	1133.2	1091.4	1000.7
75°	781.1	847.3	920.5	920.5	951.9	955.4	962.4	944.9	840.3	784.5	763.6
77.5°	530.0	578.8	638.1	662.5	683.4	679.9	676.4	627.6	571.8	547.4	526.5
80°	345.2	394.0	421.9	453.3	474.2	470.7	477.7	442.8	418.4	376.6	383.6
82.5°	205.7	244.1	272.0	310.3	310.3	320.8	320.8	310.3	285.9	265.0	265.0
85°	97.6	129.0	146.4	170.9	184.8	188.3	167.4	143.0	118.6	108.1	118.6
87.5°	17.4	24.4	34.9	31.4	38.4	34.9	34.9	34.9	34.9	27.9	31.4
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: P530290

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3	10652.3
2.5°	9466.8	9641.1	9763.2	9965.4	10314.1	10593.1	10879.0	11091.7	11116.1	11178.8
5°	8005.8	8100.0	8410.3	8814.8	9100.7	9571.4	9874.8	10425.7	10631.4	10851.1
7.5°	6251.9	6405.3	6820.3	7092.3	7719.9	8309.2	8919.4	9599.3	9871.3	9902.7
10°	5272.1	5495.3	5777.7	6213.6	6555.3	7210.8	7970.9	8727.6	9030.9	9083.2
12.5°	4630.5	4916.5	5293.0	5606.9	5934.6	6506.5	7235.2	8169.7	8563.7	8800.8
15°	4013.4	4309.7	4724.7	5160.5	5449.9	6133.4	6991.1	8044.2	8556.7	8765.9
17.5°	3378.8	3654.2	3995.9	4466.7	5049.0	5816.1	6952.8	8462.6	9024.0	9268.0
20°	2834.8	2988.2	3385.7	3870.4	4599.2	5491.8	6966.7	9079.8	9902.7	10010.7
22.5°	2622.1	2657.0	2813.9	3260.2	4058.7	5160.5	7214.3	9955.0	10889.4	11245.1
25°	2458.2	2451.3	2493.1	2793.0	3664.7	5031.5	7458.4	10760.4	11984.3	12371.3
27.5°	2367.6	2297.8	2301.3	2583.8	3385.7	4822.3	7772.2	11684.4	13225.6	13396.5
30°	2322.2	2308.3	2266.5	2381.5	3082.4	4508.5	7824.5	12594.5	13957.9	14205.4
32.5°	2294.3	2158.4	2106.1	2147.9	2796.5	4166.8	8019.8	13194.2	14864.4	14756.3
35°	2154.9	2032.8	1998.0	2039.8	2594.2	3975.0	7890.7	13717.3	15544.4	15725.7
37.5°	2102.6	1994.5	1924.7	1889.9	2405.9	3814.6	7824.5	14522.7	16203.4	16639.2
40°	2053.8	1938.7	1855.0	1820.1	2259.5	3601.9	7803.6	15143.4	16963.5	17225.0
42.5°	1998.0	1924.7	1830.6	1767.8	2081.6	3389.2	7563.0	15335.2	17197.1	17479.6
44°	1980.5	1869.0	1771.3	1750.4	2011.9	3281.1	7514.2	15509.5	17399.4	17828.3
45°	1963.1	1858.5	1746.9	1719.0	1987.5	3221.8	7447.9	15551.4	17734.1	17814.3
47.5°	1914.3	1848.0	1739.9	1663.2	1935.2	3092.8	7249.2	15314.2	17392.4	17406.4
50°	1875.9	1799.2	1687.6	1537.7	1865.5	2984.7	7339.8	15227.1	16569.5	16600.9
52.5°	1834.1	1719.0	1656.3	1398.2	1750.4	2894.1	7531.6	15621.1	16663.7	16656.7
55°	1785.3	1659.7	1506.3	1279.7	1558.6	2779.0	7995.3	16398.7	17535.4	17653.9
57.5°	1708.6	1600.5	1380.8	1175.1	1339.0	2559.3	7845.4	14909.8	16133.7	16154.6
60°	1607.4	1506.3	1251.8	1094.9	1098.4	2018.9	7015.5	11618.2	12730.5	13033.8
62.5°	1509.8	1454.0	1143.7	979.8	934.5	1607.4	5931.1	9655.1	10927.8	11178.8
65°	1394.7	1258.8	1049.5	892.6	802.0	1126.3	4201.7	7214.3	8525.3	8863.6
67.5°	1248.3	1101.8	924.0	784.5	686.9	753.2	2168.8	4100.5	5429.0	5627.8
70°	1091.4	955.4	777.6	662.5	554.4	519.5	955.4	1956.1	2967.3	3173.0
72.5°	896.1	770.6	620.7	523.0	414.9	359.1	320.8	523.0	1053.0	1223.9
75°	648.6	561.4	467.2	373.1	292.9	230.1	188.3	156.9	174.3	188.3
77.5°	477.7	408.0	345.2	265.0	205.7	163.9	129.0	97.6	94.1	90.7
80°	373.1	331.3	275.5	212.7	160.4	122.0	90.7	66.3	59.3	59.3
82.5°	292.9	272.0	226.6	174.3	132.5	97.6	66.3	45.3	38.4	38.4
85°	111.6	111.6	163.9	143.0	101.1	69.7	45.3	24.4	20.9	20.9
87.5°	27.9	27.9	27.9	27.9	24.4	20.9	20.9	10.5	7.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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