

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: P532320

Luminaire Tested: **GALN-SA7C-830-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532320
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-SA7C-830-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 28981 lumens
Efficiency: N/A
Efficacy: 76.9 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): 377
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



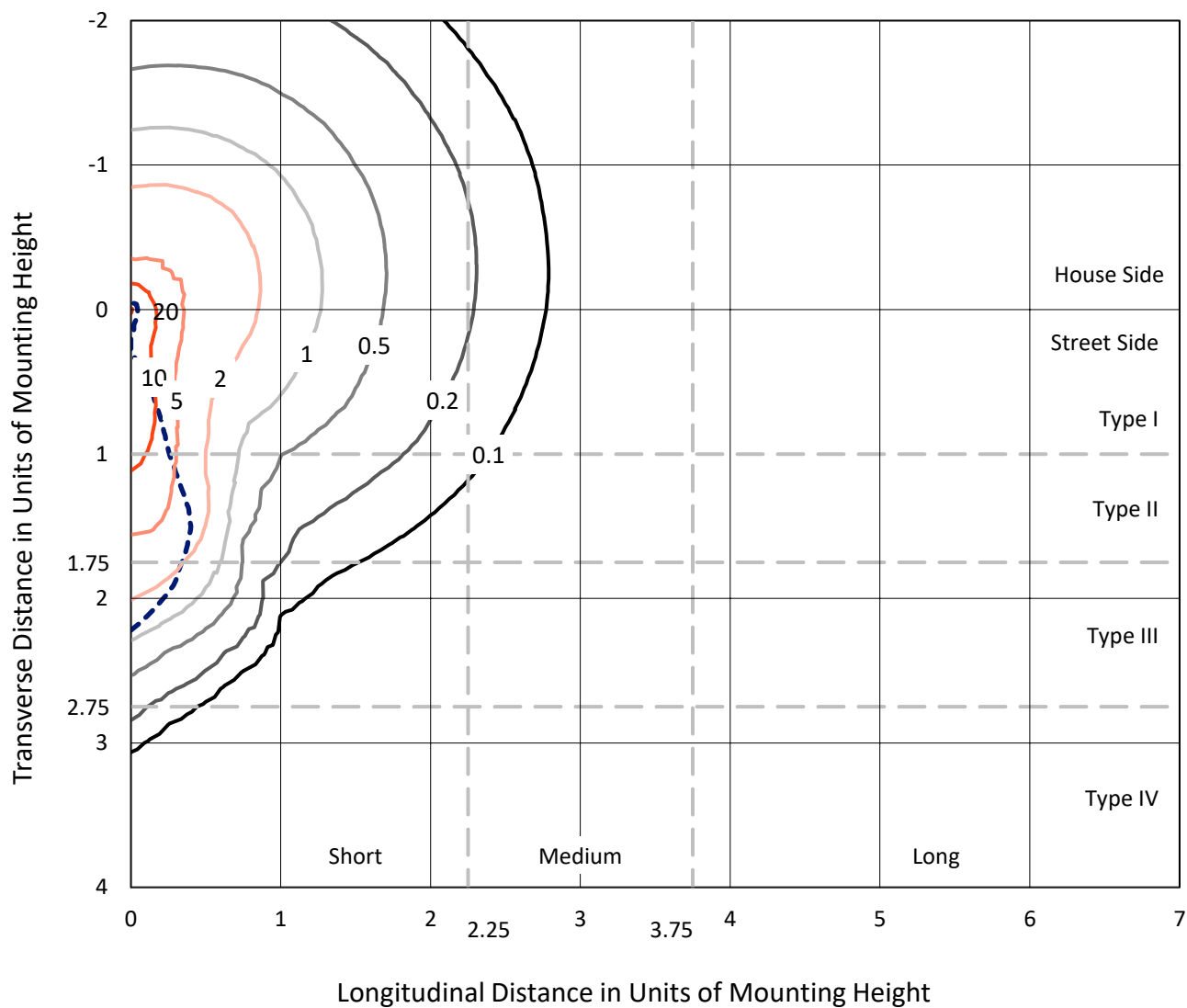
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



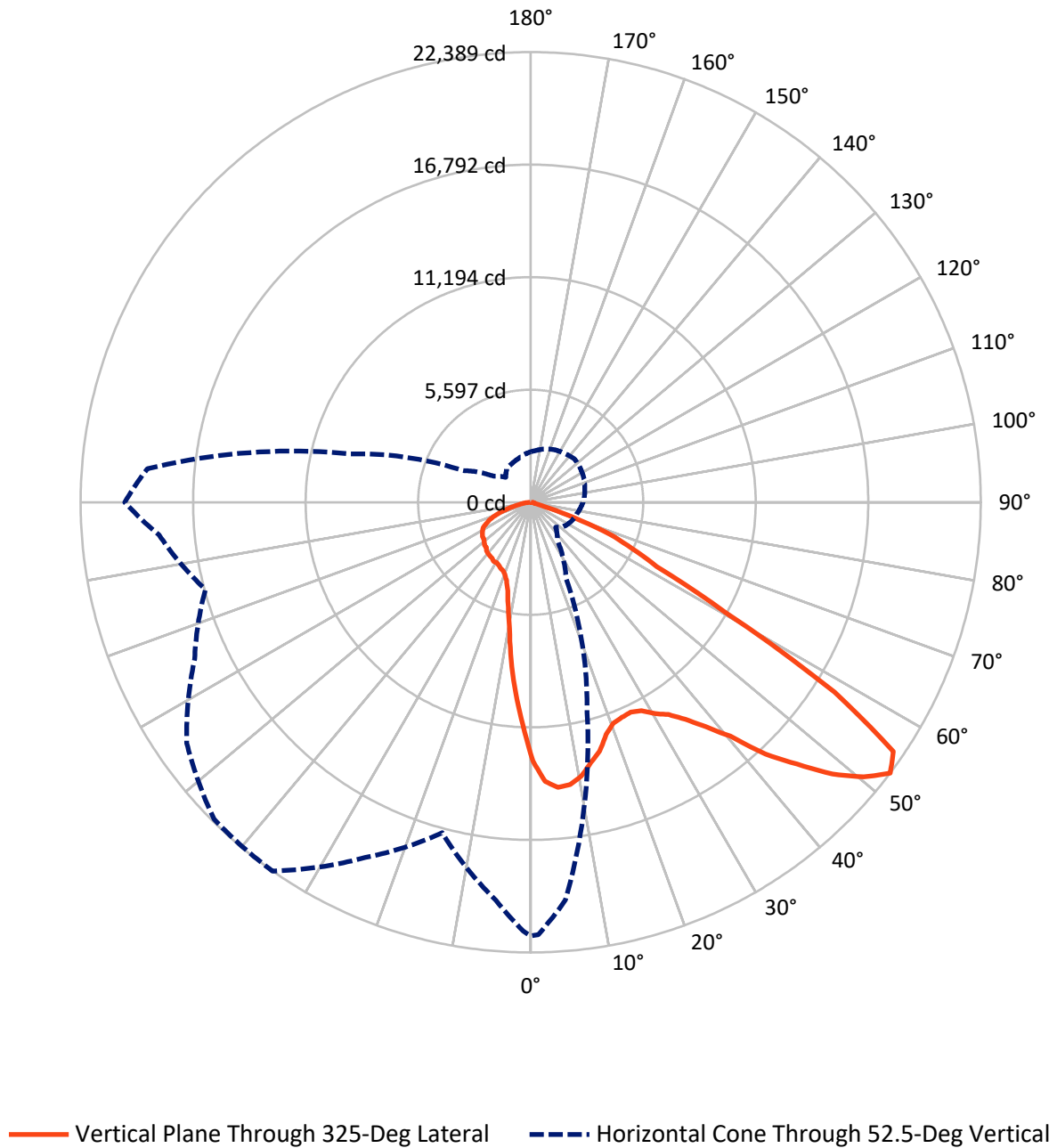
Based on 25 foot mounting height. Maximum calculated value = 20.6 fc

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	8736.5	0.0	8736.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	20244.4	0.0	20244.4
	% Fixture	69.9	0.0	69.9
Total	Lumens	28981.0	0.0	28981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	981.3	3.4
10°-20°	2127.2	7.3
20°-30°	3214.0	11.1
30°-40°	4644.4	16.0
40°-50°	6180.9	21.3
50°-60°	6913.5	23.9
60°-70°	3896.4	13.4
70°-80°	868.6	3.0
80°-90°	154.7	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°	28981.0	100.0
0°-180°	28981.0	100.0

Coefficient of Utilization



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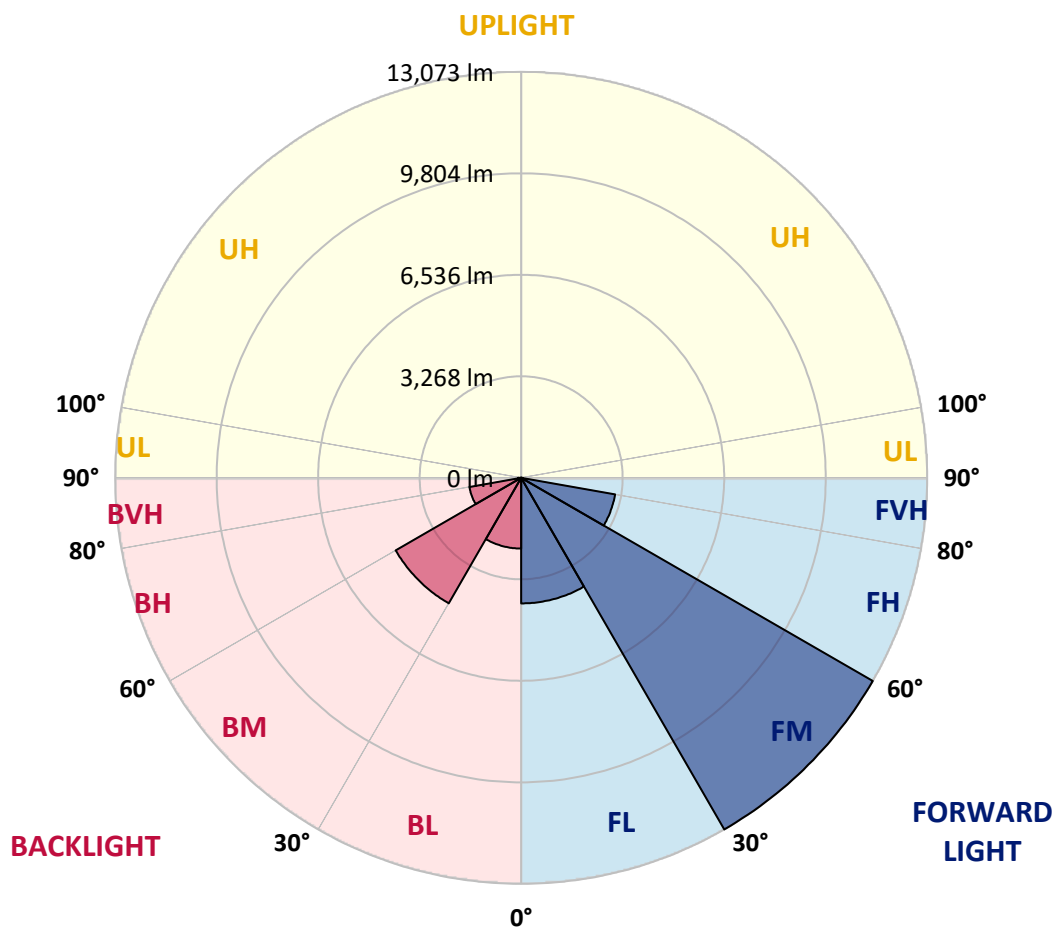
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4044.2	14.0			
FM	(30°-60°)	13072.7	45.1			
FH	(60°-80°)	3071.6	10.6			G2/5000
FVH	(80°-90°)	56.0	0.2			G1/100
BL	(0°-30°)	2278.3	7.9	B3/2500		
BM	(30°-60°)	4666.2	16.1	B3/5000		
BH	(60°-80°)	1693.4	5.8	B3/2500		G3/2500
BVH	(80°-90°)	98.6	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9
2.5°	13076.2	13286.2	13059.4	12656.1	12370.5	12110.1	11837.0	11782.4	11425.4	11362.4	11101.9
5°	12332.7	12286.5	12009.2	11480.0	10896.1	10366.8	9976.2	9598.2	9341.9	9043.7	9022.7
7.5°	11429.6	11160.7	11001.1	10198.8	9476.3	8644.6	8287.6	7712.1	7531.5	7262.7	7124.1
10°	10623.1	10425.7	10051.8	9249.5	8241.4	7691.1	7308.9	6998.0	6788.0	6510.8	6162.1
12.5°	10224.0	10144.2	9724.2	8480.8	7733.1	7145.1	6876.2	6573.8	6216.7	5771.5	5599.3
15°	10295.4	10026.6	9707.4	8333.8	7300.5	6733.4	6305.0	5926.9	5469.1	5044.8	4797.0
17.5°	10828.9	10623.1	9984.6	8426.2	7136.7	6317.6	5540.5	4981.8	4570.1	4187.9	4015.7
20°	11879.0	11580.8	10862.5	8543.8	6783.8	5737.9	4847.4	4158.5	3717.4	3515.8	3457.0
22.5°	13042.6	12866.1	11719.4	8808.5	6502.4	5200.2	4112.3	3423.4	3259.6	3205.0	3314.2
25°	14458.1	14000.3	13051.0	9241.1	6284.0	4742.4	3490.6	3108.4	3024.4	3079.0	3205.0
27.5°	15533.5	15411.7	13983.5	9648.6	5985.7	4192.1	3142.0	2889.9	2915.2	2969.8	3087.4
30°	16810.4	16192.9	14886.6	9930.0	5716.9	3814.1	2898.3	2831.1	2856.3	2948.8	3007.6
32.5°	17579.1	17348.1	15453.7	10354.2	5406.0	3486.4	2709.3	2646.3	2684.1	2822.7	2961.4
35°	18557.8	18100.0	16155.1	10463.5	5187.6	3356.2	2574.9	2528.7	2616.9	2713.5	2868.9
37.5°	19700.4	19385.3	17125.5	10387.8	5070.0	3221.8	2461.5	2440.5	2503.5	2637.9	2818.5
40°	20376.6	20280.0	17633.7	10434.1	4885.2	3104.2	2331.3	2356.5	2486.7	2591.7	2768.1
42.5°	21027.7	20397.7	18385.6	10417.3	4767.6	2944.6	2343.9	2314.5	2415.3	2537.1	2705.1
45°	21170.5	20544.7	18562.0	10299.6	4624.8	2789.1	2247.3	2259.9	2381.7	2532.9	2642.1
47.5°	21078.1	20616.1	18889.7	10266.0	4490.3	2679.9	2104.5	2255.7	2327.1	2448.9	2604.3
50°	21015.1	20989.9	19166.9	10425.7	4309.7	2507.7	1932.2	2201.1	2272.5	2394.3	2562.3
52.5°	21569.6	21515.0	19860.0	10845.7	4166.9	2322.9	1755.8	2062.4	2234.7	2352.3	2516.1
55°	21905.6	21666.2	21048.7	11362.4	3927.5	2079.2	1634.0	1890.2	2142.3	2247.3	2415.3
57.5°	19704.6	19540.7	19040.9	10606.3	3524.2	1760.0	1482.8	1713.8	2016.2	2180.1	2352.3
60°	16394.6	16138.3	14857.2	9014.3	2600.1	1369.4	1390.4	1575.2	1982.6	2045.6	2247.3
62.5°	15457.9	14823.6	13080.4	7254.3	1995.2	1176.1	1247.5	1449.2	1806.2	1911.2	2112.9
65°	12265.5	11795.0	9358.7	5238.0	1335.8	1020.7	1138.3	1306.4	1558.4	1764.2	1949.0
67.5°	7678.5	7229.1	4994.4	2478.3	932.5	873.7	1016.5	1192.9	1398.8	1583.6	1789.4
70°	4011.5	3520.0	2306.1	894.7	642.7	714.1	848.5	1016.5	1218.1	1369.4	1529.0
72.5°	1495.4	1213.9	751.9	386.4	445.3	546.1	688.9	810.7	953.5	1138.3	1226.5
75°	231.0	197.4	193.2	235.2	302.4	394.8	491.5	613.3	739.3	856.9	915.7
77.5°	109.2	105.0	117.6	155.4	201.6	281.4	357.0	474.7	575.5	651.1	684.7
80°	71.4	67.2	75.6	105.0	151.2	210.0	285.6	365.4	457.9	520.9	512.5
82.5°	42.0	46.2	46.2	71.4	105.0	151.2	205.8	277.2	340.2	394.8	361.2
85°	25.2	21.0	21.0	42.0	71.4	121.8	172.2	117.6	121.8	121.8	138.6
87.5°	8.4	8.4	8.4	4.2	8.4	8.4	12.6	21.0	25.2	29.4	37.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9
2.5°	11093.5	11223.7	11177.5	11013.7	11139.7	11160.7	11076.7	11366.6	11421.2	11333.0	11358.2
5°	8993.3	9026.9	9102.5	9262.1	9375.5	9509.9	9509.9	9518.3	9404.9	9690.6	9606.6
7.5°	7006.4	7027.4	7115.7	7455.9	7552.5	7808.7	7918.0	7842.3	7615.5	7518.9	7598.7
10°	6048.7	5926.9	5897.5	5939.5	6157.9	6267.2	6359.6	6334.4	6296.6	6220.9	6136.9
12.5°	5410.3	5322.0	5250.6	5149.8	5162.4	5267.4	5338.8	5280.0	5296.8	5313.6	5338.8
15°	4717.2	4654.2	4616.4	4465.1	4448.3	4519.7	4544.9	4578.6	4641.6	4645.8	4616.4
17.5°	3982.1	3927.5	4011.5	4095.5	4036.7	4040.9	4087.1	4116.5	4099.7	4024.1	3986.3
20°	3478.0	3536.8	3620.8	3700.6	3763.7	3801.5	3818.3	3772.1	3717.4	3562.0	3557.8
22.5°	3331.0	3406.6	3478.0	3599.8	3658.6	3755.3	3667.0	3562.0	3486.4	3410.8	3322.6
25°	3221.8	3284.8	3427.6	3473.8	3587.2	3667.0	3604.0	3499.0	3368.8	3259.6	3192.4
27.5°	3142.0	3213.4	3305.8	3431.8	3520.0	3566.2	3503.2	3461.2	3326.8	3196.6	3100.0
30°	3091.6	3167.2	3335.2	3440.2	3515.8	3553.6	3444.4	3394.0	3297.4	3188.2	3104.2
32.5°	3058.0	3125.2	3268.0	3402.4	3452.8	3452.8	3469.6	3410.8	3276.4	3091.6	3020.2
35°	2948.8	3041.2	3158.8	3314.2	3406.6	3461.2	3377.2	3310.0	3221.8	3032.8	2902.5
37.5°	2885.7	2948.8	3100.0	3247.0	3326.8	3385.6	3352.0	3234.4	3116.8	2961.4	2856.3
40°	2818.5	2919.4	3053.8	3192.4	3280.6	3339.4	3314.2	3175.6	3032.8	2885.7	2814.3
42.5°	2772.3	2839.5	2978.2	3133.6	3238.6	3352.0	3276.4	3104.2	3003.4	2801.7	2721.9
45°	2734.5	2843.7	2990.8	3053.8	3163.0	3280.6	3146.2	3041.2	2923.6	2776.5	2709.3
47.5°	2688.3	2789.1	2885.7	3053.8	3104.2	3158.8	3133.6	2965.6	2864.7	2705.1	2658.9
50°	2671.5	2709.3	2885.7	2978.2	3049.6	3104.2	3037.0	2910.9	2814.3	2650.5	2549.7
52.5°	2604.3	2675.7	2789.1	2910.9	2999.2	3066.4	2957.2	2877.3	2747.1	2574.9	2511.9
55°	2520.3	2562.3	2763.9	2889.9	2936.2	2982.4	2940.4	2810.1	2675.7	2499.3	2436.3
57.5°	2411.1	2507.7	2671.5	2847.9	2906.7	2932.0	2864.7	2759.7	2591.7	2436.3	2335.5
60°	2297.7	2398.5	2579.1	2721.9	2780.7	2873.1	2772.3	2709.3	2516.1	2343.9	2234.7
62.5°	2184.3	2297.7	2432.1	2612.7	2663.1	2700.9	2675.7	2587.5	2432.1	2238.9	2104.5
65°	2049.8	2133.9	2301.9	2394.3	2427.9	2516.1	2427.9	2394.3	2255.7	2070.8	1957.4
67.5°	1848.2	1919.6	2066.6	2154.9	2180.1	2217.9	2213.7	2175.9	2020.4	1894.4	1793.6
70°	1617.2	1680.2	1772.6	1877.6	1890.2	1936.4	1894.4	1886.0	1785.2	1613.0	1558.4
72.5°	1298.0	1356.8	1478.6	1524.8	1529.0	1545.8	1524.8	1495.4	1470.2	1289.6	1234.9
75°	995.5	1029.1	1087.9	1129.9	1129.9	1150.9	1138.3	1108.9	1041.7	928.3	873.7
77.5°	693.1	726.7	802.3	827.5	823.3	831.7	793.9	764.5	663.7	604.9	558.7
80°	504.1	525.1	562.9	579.7	583.9	596.5	550.3	525.1	466.3	399.0	378.0
82.5°	365.4	378.0	382.2	403.2	403.2	382.2	369.6	344.4	302.4	260.4	243.6
85°	151.2	155.4	159.6	184.8	189.0	226.8	210.0	197.4	172.2	147.0	134.4
87.5°	37.8	42.0	54.6	46.2	54.6	54.6	58.8	67.2	67.2	54.6	54.6
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°	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9
2.5°	11454.8	11488.4	11916.8	11971.4	12181.5	12395.7	12828.3	13139.2	13391.2	13555.0	13601.2
5°	9694.8	9909.0	10106.4	10425.7	10715.5	11127.1	11601.8	12189.9	12929.2	13307.2	13458.4
7.5°	7590.3	7842.3	8128.0	8438.8	8863.1	9602.4	10236.6	10917.1	11862.2	12252.9	12845.1
10°	6195.7	6477.2	6855.2	7094.7	7607.1	8312.8	9052.1	9837.6	10740.7	11303.6	11988.2
12.5°	5477.5	5708.5	6057.1	6561.2	6943.4	7401.3	7951.6	8942.9	10236.6	10770.1	11240.6
15°	4683.6	4939.8	5343.0	5901.7	6359.6	6905.6	7523.1	8602.6	9980.4	10803.7	11202.7
17.5°	4028.3	4213.1	4637.4	5120.4	5645.5	6242.0	7128.3	8585.8	10249.2	11303.6	11954.6
20°	3574.6	3599.8	3830.9	4242.5	4956.6	5733.7	6884.6	8501.8	11110.3	12164.7	12988.0
22.5°	3289.0	3263.8	3268.0	3616.6	4116.5	5233.8	6502.4	8787.5	12089.1	13534.0	14088.5
25°	3146.2	3079.0	3037.0	3112.6	3566.2	4641.6	6212.5	9165.5	13143.4	14664.0	15344.4
27.5°	3070.6	2953.0	2868.9	2881.5	3213.4	4343.3	6031.9	9329.3	14189.3	16239.2	16478.6
30°	3041.2	2894.1	2772.3	2730.3	2948.8	3927.5	5645.5	9610.8	15126.0	17104.5	17310.3
32.5°	2936.2	2755.5	2637.9	2600.1	2688.3	3562.0	5368.2	9812.4	15953.5	18045.4	17974.0
35°	2814.3	2663.1	2516.1	2444.7	2507.7	3326.8	5145.6	9715.8	16928.0	18776.3	18738.5
37.5°	2801.7	2604.3	2482.5	2364.9	2360.7	3037.0	4843.2	9808.2	17549.7	20086.8	19570.2
40°	2692.5	2566.5	2406.9	2310.3	2255.7	2889.9	4549.1	9589.8	18461.2	20616.1	20107.8
42.5°	2696.7	2507.7	2369.1	2255.7	2201.1	2675.7	4347.5	9530.9	18780.5	21477.2	20359.8
45°	2629.5	2444.7	2327.1	2192.7	2163.3	2511.9	4154.3	9257.9	19343.3	21519.2	20044.8
47.5°	2562.3	2398.5	2272.5	2112.9	2045.6	2453.1	4003.1	9031.1	19049.3	21124.3	19608.0
50°	2516.1	2327.1	2209.5	2096.1	1907.0	2352.3	3805.7	8976.5	18637.6	20590.9	18797.3
52.5°	2436.3	2268.3	2146.5	2058.2	1755.8	2259.9	3730.0	9295.7	19141.7	20191.8	18562.0
55°	2360.7	2188.5	2033.0	1860.8	1629.8	2016.2	3520.0	9594.0	19876.8	21111.7	19629.0
57.5°	2280.9	2117.1	1949.0	1743.2	1508.0	1764.2	3301.6	9648.6	18499.0	19511.3	18633.4
60°	2175.9	1965.8	1839.8	1571.0	1377.8	1461.8	2616.9	8506.0	14348.9	16293.8	16323.2
62.5°	2058.2	1831.4	1722.2	1407.2	1243.3	1260.2	2133.9	7149.3	11639.6	13487.8	14290.1
65°	1902.8	1684.4	1554.2	1302.2	1146.7	1092.1	1562.6	5238.0	8842.1	10942.3	11853.8
67.5°	1701.2	1495.4	1331.6	1134.1	1024.9	936.7	1066.9	2948.8	5221.2	7346.7	7623.9
70°	1487.0	1310.6	1138.3	974.5	852.7	789.7	781.3	1306.4	2495.1	3952.7	4498.7
72.5°	1171.9	1045.9	907.3	785.5	705.7	613.3	558.7	541.9	844.3	1608.8	2222.1
75°	840.1	735.1	655.3	575.5	516.7	466.3	424.3	386.4	352.8	403.2	554.5
77.5°	529.3	491.5	428.5	407.4	373.8	361.2	344.4	323.4	298.2	281.4	281.4
80°	357.0	331.8	310.8	306.6	294.0	289.8	294.0	273.0	247.8	226.8	235.2
82.5°	239.4	235.2	231.0	226.8	231.0	235.2	243.6	239.4	218.4	205.8	210.0
85°	142.8	151.2	159.6	168.0	184.8	163.8	134.4	113.4	100.8	92.4	88.2
87.5°	54.6	75.6	67.2	63.0	67.2	63.0	58.8	54.6	46.2	42.0	42.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9	12861.9
2.5°	13907.9	13991.9	14063.3	14046.5	13899.5	13702.0	13622.2	13214.8	13130.8	13076.2
5°	14096.9	14584.2	14689.2	14626.2	14243.9	13760.9	13290.4	12693.9	12345.3	12332.7
7.5°	13748.3	14348.9	14537.9	14680.8	14172.5	13332.4	12525.9	11631.2	11412.8	11429.6
10°	12861.9	13819.7	14285.9	14432.9	13849.1	13122.4	12005.0	11097.7	10631.5	10623.1
12.5°	12370.5	13122.4	13252.6	13458.4	13286.2	12551.1	11702.6	10686.1	10232.4	10224.0
15°	11933.6	12429.3	12467.1	12756.9	12849.3	12353.7	11782.4	10698.7	10333.2	10295.4
17.5°	12315.9	11971.4	11828.6	11866.4	12139.5	12320.1	12244.5	11412.8	11038.9	10828.9
20°	12572.1	11803.4	11370.8	11412.8	11736.2	12395.7	12933.4	12446.1	11853.8	11879.0
22.5°	13256.8	11828.6	11152.3	11106.1	11618.6	12790.5	13710.4	13752.5	13181.2	13042.6
25°	14281.7	12118.5	11085.1	11072.5	11564.0	13214.8	14617.8	15298.2	14714.4	14458.1
27.5°	15105.0	12572.1	11295.2	11337.2	11736.2	13559.2	15390.6	16293.8	15848.5	15533.5
30°	15827.5	13042.6	11589.2	11396.0	12198.3	13739.9	15722.5	17427.9	17070.9	16810.4
32.5°	16125.7	13710.4	12055.4	11736.2	12580.5	13958.3	16411.4	18528.4	18221.8	17579.1
35°	16629.8	14084.3	12307.5	12282.3	13248.4	14483.3	16734.8	19255.1	19129.1	18557.8
37.5°	17033.0	14462.3	13202.2	12925.0	14164.1	15365.4	17255.7	20259.0	19969.2	19700.4
40°	17343.9	15138.6	14038.1	14403.5	15289.8	16167.7	17734.5	20322.0	21157.9	20376.6
42.5°	17058.3	15743.5	15411.7	16285.4	17125.5	17083.5	17789.1	20809.3	21435.2	21027.7
45°	16986.8	16768.4	17583.3	18377.2	18570.4	17843.7	17398.5	20271.6	21351.2	21170.5
47.5°	16814.6	17776.5	19196.3	20490.1	20196.0	18352.0	16932.2	20175.0	21401.6	21078.1
50°	16755.8	17995.0	20389.3	21649.4	21473.0	18793.1	16713.8	19553.4	21044.5	21015.1
52.5°	16751.6	18444.4	20884.9	22279.5	22388.7	19490.3	17012.0	19868.4	21321.8	21569.6
55°	16940.6	18301.6	20821.9	21930.8	21888.8	19179.5	17045.6	20078.4	21662.0	21905.6
57.5°	15978.7	16394.6	17184.3	18062.2	17835.3	15886.3	15222.6	18562.0	19881.0	19704.6
60°	13798.7	12496.5	11606.0	11564.0	11122.9	10513.9	12458.7	16566.8	16566.8	16394.6
62.5°	12084.9	8203.6	7048.4	6720.8	7035.8	7737.3	12017.6	16113.1	15655.3	15457.9
65°	10568.5	6263.0	5095.2	5002.8	5548.9	6607.4	10866.7	13727.2	12920.8	12265.5
67.5°	6800.6	4587.0	3788.9	3625.0	4284.5	4851.6	7233.3	8443.0	7934.8	7678.5
70°	4385.3	2986.6	2108.7	1978.4	2234.7	2990.8	4620.6	4923.0	4183.7	4011.5
72.5°	2075.0	1289.6	739.3	609.1	684.7	1142.5	1827.2	1965.8	1634.0	1495.4
75°	659.5	474.7	302.4	260.4	247.8	294.0	420.1	323.4	235.2	231.0
77.5°	294.0	281.4	239.4	201.6	176.4	147.0	121.8	100.8	105.0	109.2
80°	243.6	222.6	197.4	176.4	147.0	113.4	88.2	67.2	67.2	71.4
82.5°	214.2	193.2	172.2	147.0	126.0	92.4	67.2	46.2	42.0	42.0
85°	92.4	109.2	117.6	126.0	100.8	75.6	46.2	29.4	25.2	25.2
87.5°	37.8	33.6	29.4	25.2	21.0	21.0	16.8	12.6	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)