

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: P532084

Luminaire Tested: **GALN-SA7B-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532084
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-SA7B-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA 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: 23455 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - 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

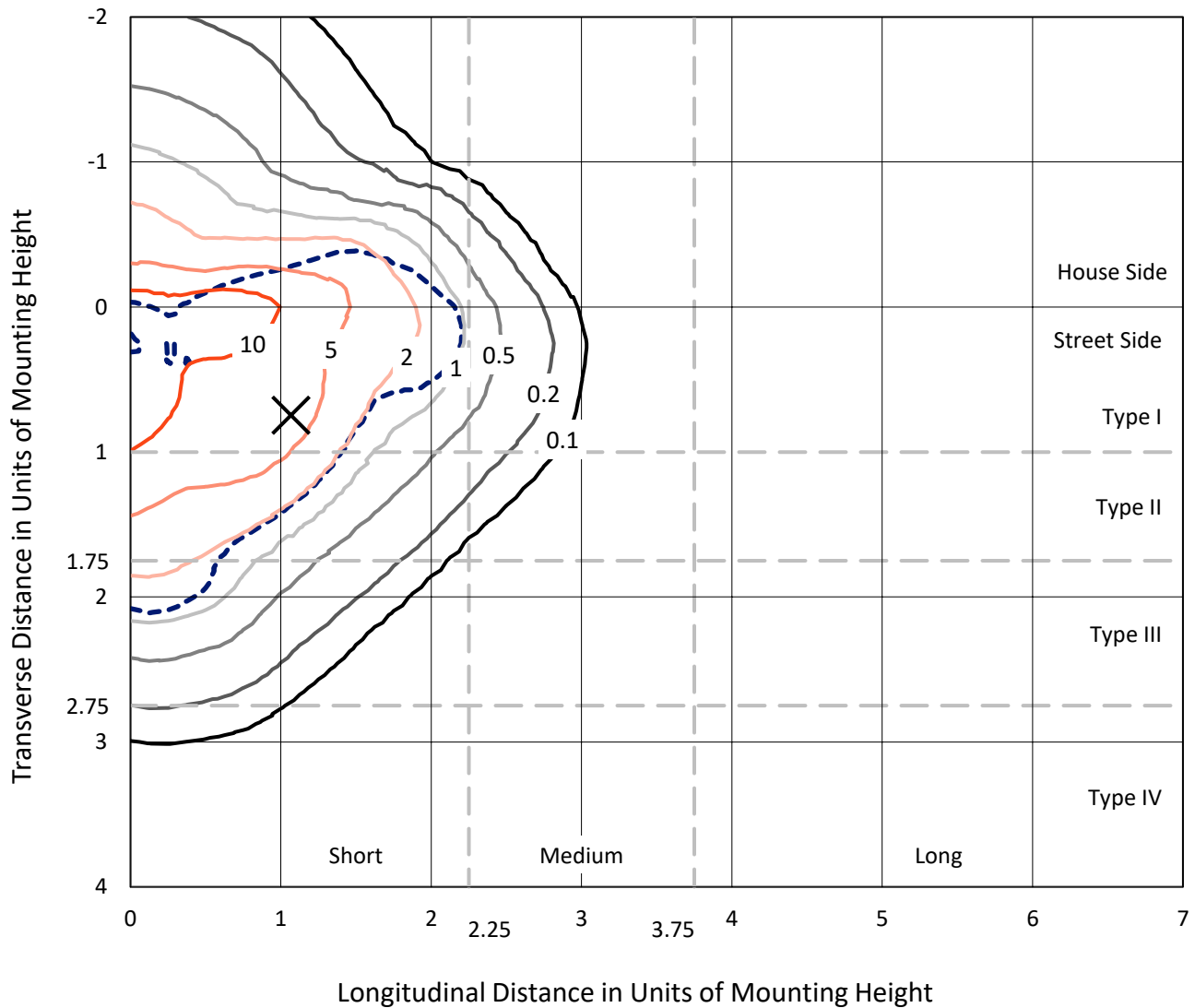


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

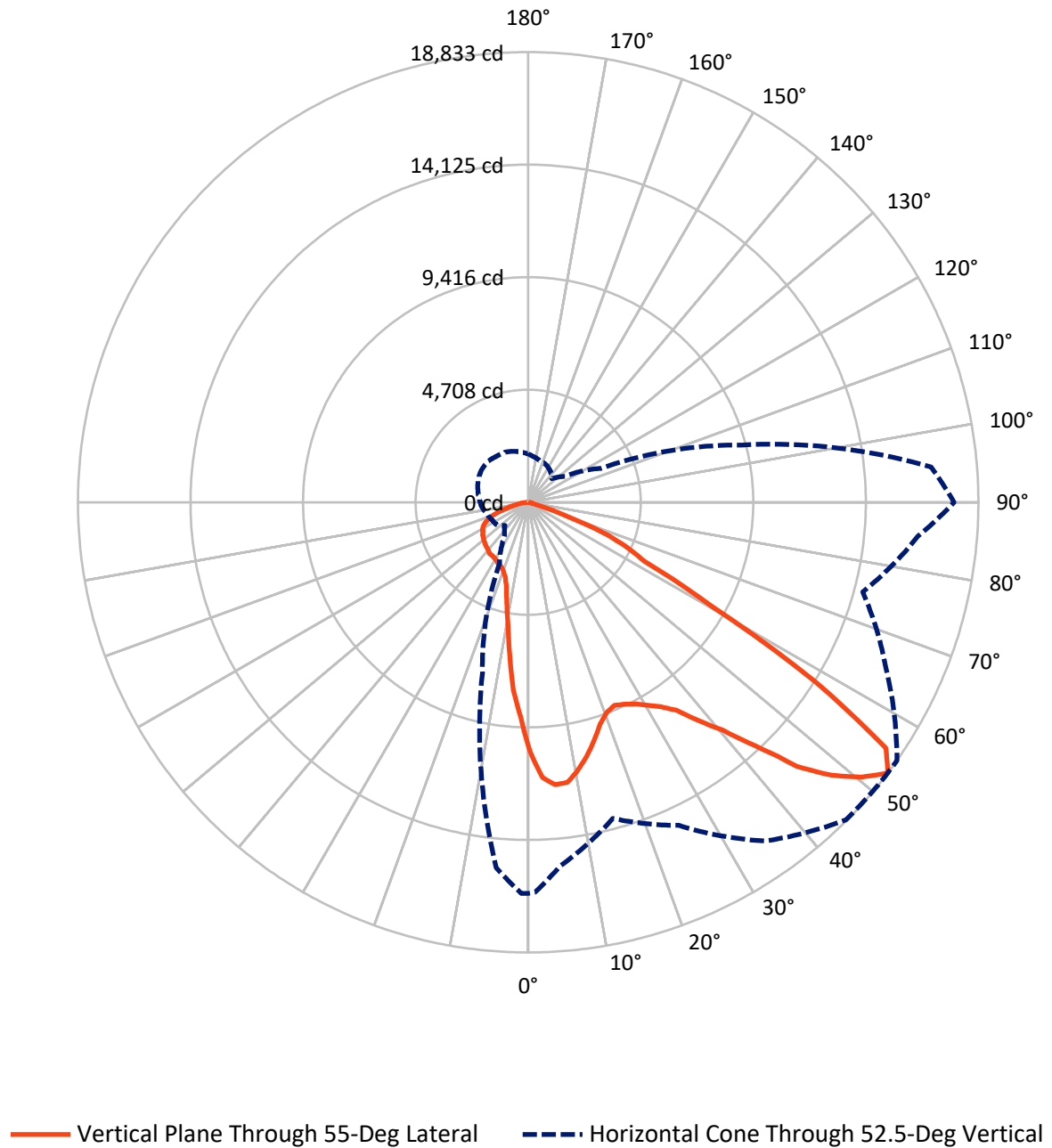


Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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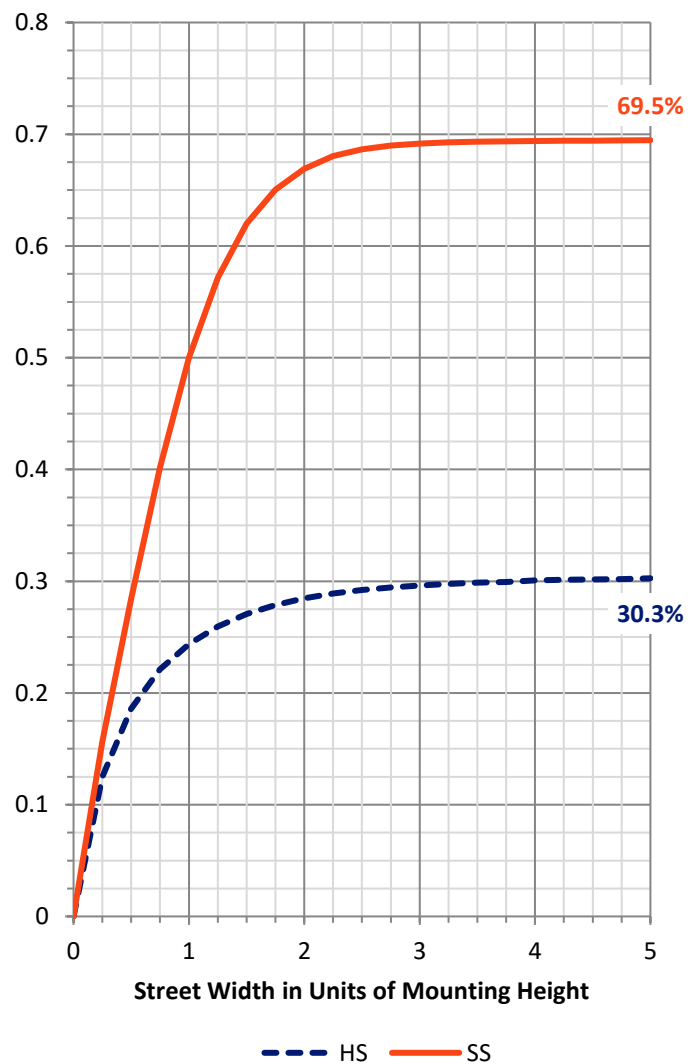
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7155.0	0.0	7155.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	16299.9	0.0	16299.9
	% Fixture	69.5	0.0	69.5
Total	Lumens	23455.0	0.0	23455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.3	3.4
10°-20°	1723.5	7.3
20°-30°	2613.3	11.1
30°-40°	3775.9	16.1
40°-50°	5045.6	21.5
50°-60°	5632.0	24.0
60°-70°	3089.4	13.2
70°-80°	667.9	2.8
80°-90°	108.0	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°	23455.0	100.0
0°-180°	23455.0	100.0

Coefficient of Utilization



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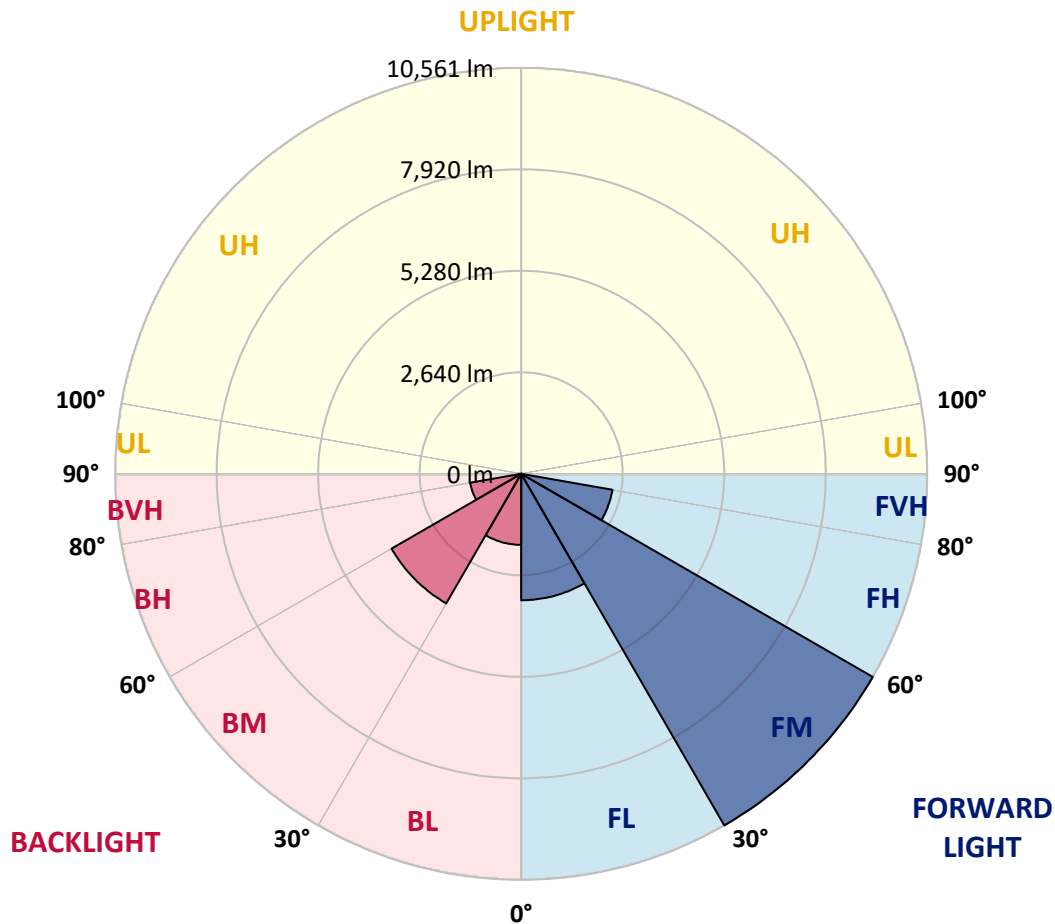
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3288.8	14.0			
FM	(30°-60°)	10560.5	45.0			
FH	(60°-80°)	2410.6	10.3			G2/5000
FVH	(80°-90°)	40.0	0.2			G1/100
BL	(0°-30°)	1847.3	7.9	B3/2500		
BM	(30°-60°)	3892.9	16.6	B3/5000		
BH	(60°-80°)	1346.7	5.7	B3/2500		G3/2500
BVH	(80°-90°)	68.0	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°	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7
2.5°	10979.9	10918.2	10973.0	11233.3	11384.0	11486.8	11551.8	11541.6	11295.0	11055.2	11055.2
5°	10658.0	10579.2	10692.2	11281.3	11873.8	11925.1	12010.8	11870.3	11507.3	11068.9	10521.0
7.5°	9726.4	9784.6	9973.0	10747.0	11517.6	11904.6	12007.3	11829.2	11240.2	10421.6	9616.8
10°	8921.6	9058.6	9493.5	10329.2	11038.1	11541.6	11654.6	11404.6	10938.8	9935.3	9216.1
12.5°	8644.2	8558.6	9041.5	9877.1	10555.2	10825.8	10877.1	10894.3	10579.2	9688.7	8812.0
15°	8609.9	8664.7	9041.5	9675.0	10092.9	10106.6	10192.2	10325.8	10366.9	9856.6	9000.4
17.5°	9103.1	9038.0	9425.0	9928.5	9729.8	9531.2	9551.7	9743.5	10082.6	10000.4	9592.8
20°	9832.6	9979.8	10284.7	10233.3	9699.0	9195.6	9199.0	9380.5	10048.3	10596.3	10418.2
22.5°	11045.0	11188.8	11414.8	10794.9	9699.0	9096.3	8979.8	9226.4	10267.5	11305.2	11349.8
25°	12151.2	12414.9	12476.5	11747.0	10185.3	9188.7	9113.4	9356.5	10486.7	11997.1	12418.3
27.5°	13158.1	13254.0	13524.5	12360.1	10455.9	9250.4	9243.5	9555.2	10764.1	12343.0	13373.8
30°	13952.6	13942.3	14096.5	12747.1	10887.4	9596.3	9264.1	9853.1	11127.2	12914.9	14257.4
32.5°	14493.7	14610.2	14935.5	13284.8	11068.9	9925.1	9664.8	10202.5	11569.0	13185.5	14880.7
35°	15445.8	15647.9	15236.9	13582.7	11644.3	10250.4	9945.6	10678.5	11788.1	13480.0	15644.5
37.5°	16343.1	16189.0	15771.2	13743.7	12017.6	10853.2	10568.9	11599.8	12469.7	14120.4	16151.3
40°	16918.5	16915.1	16171.9	13873.8	12281.3	11774.4	11757.3	12534.7	13305.3	14524.5	16719.8
42.5°	17168.5	17408.2	16336.3	13860.1	12836.1	12890.9	13236.8	13932.1	13897.8	14606.7	16706.1
44°	17511.0	17654.8	16620.5	13891.0	13206.0	13644.4	14459.5	14901.3	14415.0	14562.2	16689.0
45°	17497.3	17507.5	16216.4	13932.1	13521.1	14274.5	15004.0	15750.6	14870.5	14466.3	16915.1
47.5°	17096.6	16980.1	15873.9	13627.3	14504.0	15939.0	16613.7	17065.7	15432.1	14260.8	16634.2
50°	16305.4	16171.9	15041.7	13497.1	14709.5	16973.3	17904.8	18069.2	15942.4	14058.8	16356.8
52.5°	16360.2	16322.6	15278.0	13692.3	14915.0	17298.6	18791.8	18832.9	16521.2	14483.5	16360.2
55°	17339.7	17209.6	15956.1	13935.5	14764.3	16918.5	18226.8	18154.8	16326.0	14226.6	16661.6
57.5°	15867.1	15952.7	15017.7	12973.1	12921.7	13754.0	14329.3	14151.2	13623.8	12839.6	15500.6
60°	12801.9	13045.0	13134.1	10849.7	9750.4	9322.3	9151.0	8836.0	8925.0	10548.4	13617.0
62.5°	10979.9	10966.2	11524.4	9836.0	6387.2	5493.4	5411.2	5483.1	6510.5	10384.0	13336.1
65°	8705.8	8938.7	9110.0	8335.9	5055.0	4078.9	4075.5	4531.0	5633.8	8678.4	10767.6
67.5°	5527.6	5832.4	6044.8	5332.4	3380.3	2904.2	2825.5	3373.4	3904.3	5692.0	6483.1
70°	3116.6	3260.4	3356.3	3075.5	2150.8	1506.9	1417.9	1548.0	2359.7	3685.1	3842.6
72.5°	1202.1	1267.2	1397.3	1407.6	811.7	486.3	393.9	472.6	993.2	1459.0	1390.5
75°	184.9	198.6	280.8	335.6	232.9	178.1	188.4	195.2	277.4	376.7	315.1
77.5°	89.0	89.0	85.6	99.3	116.4	126.7	137.0	150.7	164.4	181.5	174.7
80°	58.2	58.2	58.2	68.5	85.6	102.7	116.4	123.3	130.1	143.8	137.0
82.5°	37.7	37.7	37.7	51.4	68.5	85.6	92.5	109.6	123.3	143.8	133.6
85°	20.5	20.5	20.5	34.2	51.4	71.9	68.5	54.8	30.8	3.4	6.8
87.5°	6.8	6.8	6.8	6.8	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°	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7
2.5°	10767.6	10610.0	10596.3	10274.4	9986.7	9846.3	9733.3	9418.2	9486.7	9305.2	9301.7
5°	10247.0	9925.1	9404.5	8976.4	8548.3	8462.7	8089.4	7764.0	7774.3	7541.4	7582.5
7.5°	9312.0	9089.4	8455.8	7784.6	7216.0	6811.9	6459.2	6246.8	5976.3	5883.8	5835.8
10°	8719.5	8445.5	7733.2	6890.7	6253.7	6037.9	5698.9	5510.5	5233.1	5096.1	5000.2
12.5°	8459.2	8058.5	7168.1	6311.9	5887.2	5664.6	5376.9	5034.4	4705.7	4578.9	4404.3
15°	8486.6	8007.2	7003.7	6079.0	5568.7	5137.2	4880.3	4500.2	4164.5	3941.9	3815.2
17.5°	8901.0	8318.8	7079.0	5900.9	5168.0	4626.9	4123.5	3712.5	3445.3	3277.5	3236.4
20°	9880.5	9089.4	7205.8	5613.2	4767.3	4092.6	3472.7	3044.6	2839.2	2835.7	2839.2
22.5°	10695.6	9911.4	7462.6	5442.0	4366.6	3407.7	2791.2	2654.2	2613.1	2698.7	2709.0
25°	11795.0	10836.0	7904.4	5353.0	3996.7	2904.2	2524.1	2472.7	2469.3	2578.9	2582.3
27.5°	12921.7	11644.3	8168.1	5092.7	3620.0	2643.9	2363.1	2352.8	2407.6	2524.1	2513.8
30°	13688.9	12322.4	8644.2	4781.0	3174.8	2414.5	2298.0	2311.7	2387.1	2476.1	2489.8
32.5°	14582.8	12990.2	8767.5	4609.8	2900.8	2222.7	2140.5	2171.3	2267.2	2407.6	2483.0
35°	15606.8	13462.9	8955.8	4376.9	2798.1	2075.4	2034.3	2068.6	2185.0	2277.5	2359.7
37.5°	16363.7	14298.5	8990.1	4195.4	2685.0	1993.2	1928.2	2041.2	2109.7	2239.8	2280.9
40°	16925.3	14904.7	9079.1	4082.4	2596.0	1887.1	1887.1	1962.4	2054.9	2174.7	2256.9
42.5°	17284.9	15346.5	9144.2	3979.6	2424.8	1856.2	1839.1	1914.5	2037.8	2154.2	2191.9
44°	17504.1	15534.9	9079.1	3883.7	2376.8	1818.6	1818.6	1883.6	1979.5	2116.5	2161.0
45°	17558.9	15771.2	8935.3	3880.3	2318.6	1774.0	1767.2	1890.5	1955.6	2123.4	2150.8
47.5°	17771.3	16062.3	8952.4	3770.7	2178.2	1667.9	1787.7	1842.5	1900.8	2048.0	2140.5
50°	17764.4	16243.8	8914.7	3609.7	2075.4	1548.0	1746.6	1808.3	1866.5	2017.2	2054.9
52.5°	17812.4	16921.9	9260.6	3352.9	1890.5	1393.9	1609.7	1746.6	1818.6	1945.3	2024.1
55°	17788.4	17308.9	9603.1	3161.1	1630.2	1301.4	1493.2	1654.2	1756.9	1890.5	1928.2
57.5°	16247.2	15298.6	8887.3	2801.5	1349.4	1191.8	1328.8	1558.3	1688.4	1825.4	1873.4
60°	13274.5	11791.6	7329.1	2061.7	1109.6	1095.9	1236.4	1527.5	1582.3	1702.1	1784.3
62.5°	12267.6	10342.9	5811.9	1575.4	948.7	1003.5	1140.5	1380.2	1465.8	1613.1	1688.4
65°	9599.7	6870.1	3599.5	1065.1	835.6	900.7	1030.9	1209.0	1349.4	1486.4	1575.4
67.5°	5685.2	3753.6	1780.9	746.6	729.5	798.0	931.5	1065.1	1226.1	1376.8	1421.3
70°	3096.0	1846.0	760.3	568.5	619.9	681.5	811.7	904.1	1058.3	1174.7	1250.0
72.5°	993.2	561.7	380.2	421.2	472.6	544.5	623.3	736.3	845.9	914.4	976.1
75°	239.7	236.3	270.6	294.5	342.5	397.3	462.3	520.6	606.2	671.3	726.1
77.5°	167.8	181.5	208.9	243.2	260.3	280.8	321.9	366.5	404.1	452.1	486.3
80°	130.1	140.4	161.0	178.1	195.2	212.3	232.9	250.0	274.0	304.8	321.9
82.5°	123.3	130.1	150.7	161.0	154.1	150.7	164.4	171.2	174.7	184.9	195.2
85°	10.3	0.0	6.8	24.0	58.2	85.6	92.5	92.5	89.0	95.9	95.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	13.7	10.3
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°	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7
2.5°	9260.6	9144.2	9188.7	9243.5	9164.7	8983.2	9031.2	9010.6	9195.6	9181.9	9366.8
5°	7764.0	7582.5	7603.0	7870.2	7784.6	7877.0	7692.1	7668.1	7702.4	7719.5	7750.3
7.5°	5942.0	5918.0	6123.5	6349.6	6455.7	6346.1	6164.6	6123.5	6085.9	6010.5	6181.8
10°	4849.5	4856.4	4842.7	5013.9	5133.8	5109.8	5000.2	4986.5	4914.6	4887.2	4983.1
12.5°	4328.9	4236.5	4191.9	4137.2	4229.6	4291.3	4243.3	4209.1	4212.5	4246.7	4260.4
15°	3825.5	3767.3	3671.4	3609.7	3654.3	3623.4	3606.3	3674.8	3657.7	3650.8	3733.0
17.5°	3260.4	3308.4	3301.5	3233.0	3291.2	3267.3	3263.8	3215.9	3150.8	3102.9	3130.3
20°	2887.1	2976.1	3044.6	3048.1	3078.9	3075.5	3024.1	2876.8	2828.9	2818.6	2825.5
22.5°	2753.5	2801.5	2883.7	3000.1	3000.1	2945.3	2883.7	2712.4	2667.9	2620.0	2599.4
25°	2647.4	2739.8	2846.0	2859.7	2914.5	2863.1	2763.8	2678.2	2585.7	2520.6	2520.6
27.5°	2592.6	2695.3	2774.1	2798.1	2873.4	2832.3	2729.6	2620.0	2510.4	2506.9	2448.7
30°	2568.6	2664.5	2715.9	2774.1	2808.3	2743.3	2712.4	2596.0	2486.4	2459.0	2363.1
32.5°	2496.7	2633.7	2729.6	2715.9	2743.3	2715.9	2671.3	2575.4	2452.2	2390.5	2380.2
35°	2414.5	2551.5	2654.2	2726.1	2743.3	2685.0	2657.6	2527.5	2359.7	2328.9	2222.7
37.5°	2370.0	2452.2	2578.9	2695.3	2719.3	2688.5	2596.0	2462.4	2294.6	2260.4	2167.9
40°	2315.2	2421.3	2520.6	2616.5	2688.5	2613.1	2506.9	2376.8	2301.5	2198.7	2171.3
42.5°	2274.1	2393.9	2476.1	2582.3	2664.5	2565.2	2441.9	2352.8	2246.7	2178.2	2099.4
44°	2260.4	2370.0	2424.8	2554.9	2623.4	2548.0	2445.3	2352.8	2229.5	2167.9	2099.4
45°	2212.4	2363.1	2421.3	2537.8	2596.0	2534.3	2404.2	2311.7	2222.7	2147.3	2075.4
47.5°	2164.5	2267.2	2366.5	2459.0	2500.1	2479.6	2370.0	2256.9	2150.8	2106.2	2037.8
50°	2150.8	2253.5	2346.0	2431.6	2479.6	2438.5	2339.1	2229.5	2106.2	2034.3	1976.1
52.5°	2082.3	2209.0	2311.7	2339.1	2400.8	2376.8	2301.5	2181.6	2065.2	2003.5	1955.6
55°	1983.0	2116.5	2256.9	2291.2	2380.2	2342.6	2229.5	2116.5	2017.2	1924.7	1863.1
57.5°	1945.3	2075.4	2212.4	2256.9	2311.7	2250.1	2222.7	2102.8	1945.3	1897.3	1801.4
60°	1849.4	2013.8	2126.8	2229.5	2233.0	2215.8	2167.9	2030.9	1900.8	1811.7	1743.2
62.5°	1774.0	1928.2	2017.2	2113.1	2171.3	2123.4	2075.4	1948.7	1808.3	1709.0	1630.2
65°	1664.4	1804.9	1880.2	1938.4	2003.5	1996.7	1914.5	1822.0	1674.7	1596.0	1520.6
67.5°	1496.6	1619.9	1722.7	1777.5	1818.6	1808.3	1746.6	1681.6	1530.9	1452.1	1397.3
70°	1294.6	1421.3	1486.4	1517.2	1558.3	1578.8	1530.9	1500.1	1366.5	1263.7	1212.4
72.5°	1041.1	1123.3	1219.2	1246.6	1263.7	1277.4	1277.4	1250.0	1113.1	1072.0	982.9
75°	767.2	832.2	904.1	904.1	935.0	938.4	945.2	928.1	825.4	770.6	750.0
77.5°	520.6	568.5	626.7	650.7	671.3	667.8	664.4	616.5	561.7	537.7	517.1
80°	339.1	387.0	414.4	445.2	465.8	462.3	469.2	434.9	411.0	369.9	376.7
82.5°	202.1	239.7	267.1	304.8	304.8	315.1	315.1	304.8	280.8	260.3	260.3
85°	95.9	126.7	143.8	167.8	181.5	184.9	164.4	140.4	116.4	106.2	116.4
87.5°	17.1	24.0	34.2	30.8	37.7	34.2	34.2	34.2	34.2	27.4	30.8
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7	10462.7
2.5°	9298.3	9469.6	9589.4	9788.1	10130.5	10404.5	10685.4	10894.3	10918.2	10979.9
5°	7863.3	7955.8	8260.6	8657.9	8938.7	9401.1	9699.0	10240.1	10442.2	10658.0
7.5°	6140.7	6291.3	6698.9	6966.0	7582.5	8161.3	8760.6	9428.5	9695.6	9726.4
10°	5178.3	5397.5	5674.9	6103.0	6438.6	7082.5	7829.1	8572.3	8870.2	8921.6
12.5°	4548.1	4829.0	5198.8	5507.1	5829.0	6390.7	7106.4	8024.3	8411.3	8644.2
15°	3941.9	4233.0	4640.6	5068.7	5353.0	6024.2	6866.7	7901.0	8404.4	8609.9
17.5°	3318.6	3589.2	3924.8	4387.2	4959.1	5712.6	6829.0	8312.0	8863.4	9103.1
20°	2784.4	2935.0	3325.5	3801.5	4517.3	5394.0	6842.7	8918.2	9726.4	9832.6
22.5°	2575.4	2609.7	2763.8	3202.2	3986.5	5068.7	7085.9	9777.8	10695.6	11045.0
25°	2414.5	2407.6	2448.7	2743.3	3599.5	4942.0	7325.6	10568.9	11771.0	12151.2
27.5°	2325.4	2256.9	2260.4	2537.8	3325.5	4736.5	7633.9	11476.5	12990.2	13158.1
30°	2280.9	2267.2	2226.1	2339.1	3027.5	4428.3	7685.2	12370.4	13709.4	13952.6
32.5°	2253.5	2119.9	2068.6	2109.7	2746.7	4092.6	7877.0	12959.4	14599.9	14493.7
35°	2116.5	1996.7	1962.4	2003.5	2548.0	3904.3	7750.3	13473.1	15267.7	15445.8
37.5°	2065.2	1959.0	1890.5	1856.2	2363.1	3746.7	7685.2	14264.3	15915.0	16343.1
40°	2017.2	1904.2	1822.0	1787.7	2219.3	3537.8	7664.7	14873.9	16661.6	16918.5
42.5°	1962.4	1890.5	1798.0	1736.4	2044.6	3328.9	7428.4	15062.2	16891.1	17168.5
44°	1945.3	1835.7	1739.8	1719.2	1976.1	3222.7	7380.4	15233.5	17089.7	17511.0
45°	1928.2	1825.4	1715.8	1688.4	1952.1	3164.5	7315.4	15274.6	17418.5	17497.3
47.5°	1880.2	1815.1	1709.0	1633.6	1900.8	3037.8	7120.1	15041.7	17082.9	17096.6
50°	1842.5	1767.2	1657.6	1510.3	1832.3	2931.6	7209.2	14956.1	16274.6	16305.4
52.5°	1801.4	1688.4	1626.8	1373.3	1719.2	2842.6	7397.6	15343.1	16367.1	16360.2
55°	1753.5	1630.2	1479.5	1256.9	1530.9	2729.6	7853.1	16106.8	17223.3	17339.7
57.5°	1678.1	1572.0	1356.2	1154.2	1315.1	2513.8	7705.8	14644.4	15846.5	15867.1
60°	1578.8	1479.5	1229.5	1075.4	1078.8	1983.0	6890.7	11411.4	12503.9	12801.9
62.5°	1482.9	1428.1	1123.3	962.4	917.8	1578.8	5825.6	9483.3	10733.3	10979.9
65°	1369.9	1236.4	1030.9	876.7	787.7	1106.2	4126.9	7085.9	8373.6	8705.8
67.5°	1226.1	1082.2	907.6	770.6	674.7	739.8	2130.2	4027.6	5332.4	5527.6
70°	1072.0	938.4	763.7	650.7	544.5	510.3	938.4	1921.3	2914.5	3116.6
72.5°	880.2	756.9	609.6	513.7	407.6	352.8	315.1	513.7	1034.3	1202.1
75°	637.0	551.4	458.9	366.5	287.7	226.0	184.9	154.1	171.2	184.9
77.5°	469.2	400.7	339.1	260.3	202.1	161.0	126.7	95.9	92.5	89.0
80°	366.5	325.4	270.6	208.9	157.5	119.9	89.0	65.1	58.2	58.2
82.5°	287.7	267.1	222.6	171.2	130.1	95.9	65.1	44.5	37.7	37.7
85°	109.6	109.6	161.0	140.4	99.3	68.5	44.5	24.0	20.5	20.5
87.5°	27.4	27.4	27.4	27.4	24.0	20.5	20.5	10.3	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)