

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: P324276

Luminaire Tested: **GLEON-SA2B-827-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6372 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

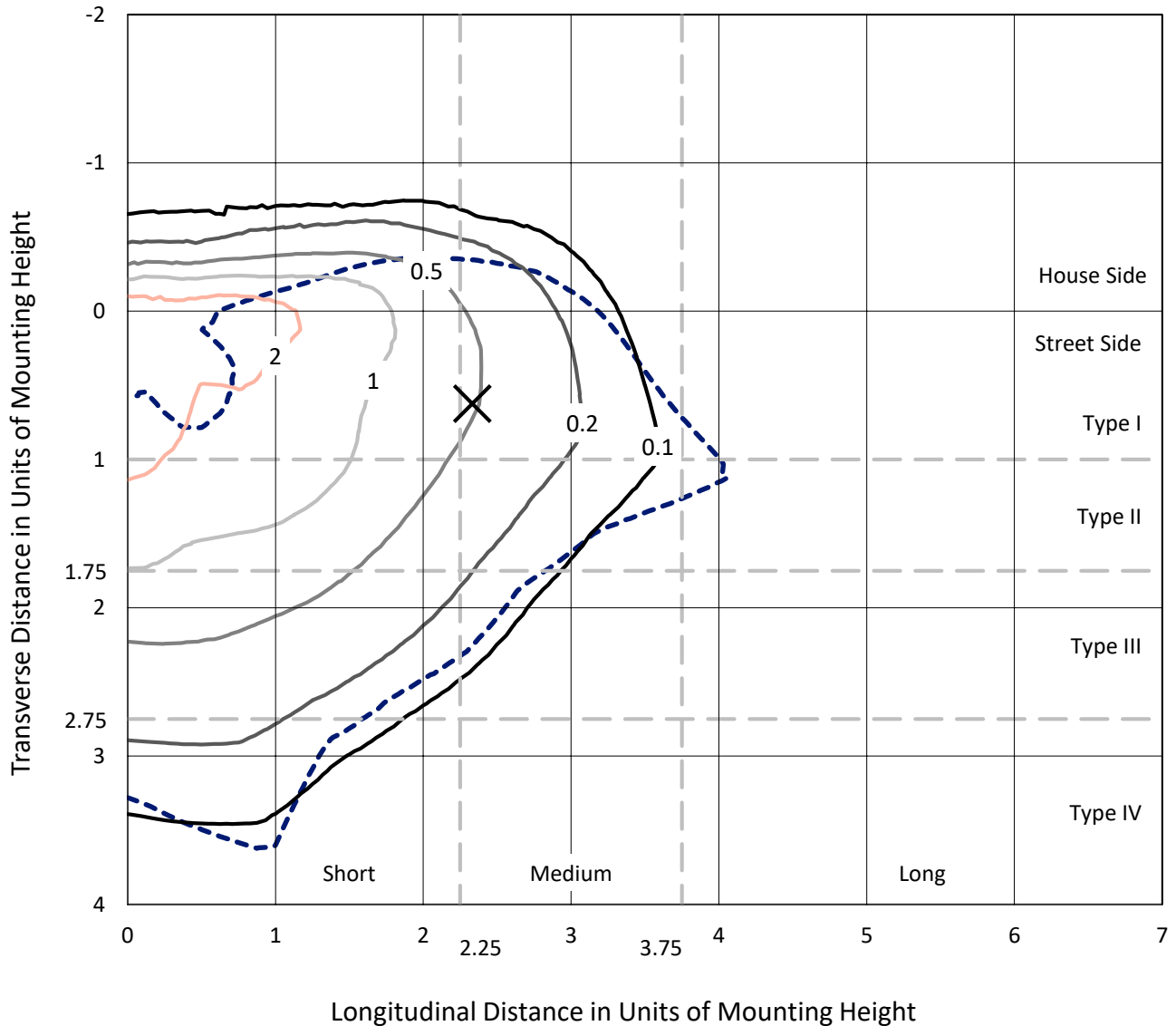




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Iso-Footcandle Lines of Horizontal Illumination

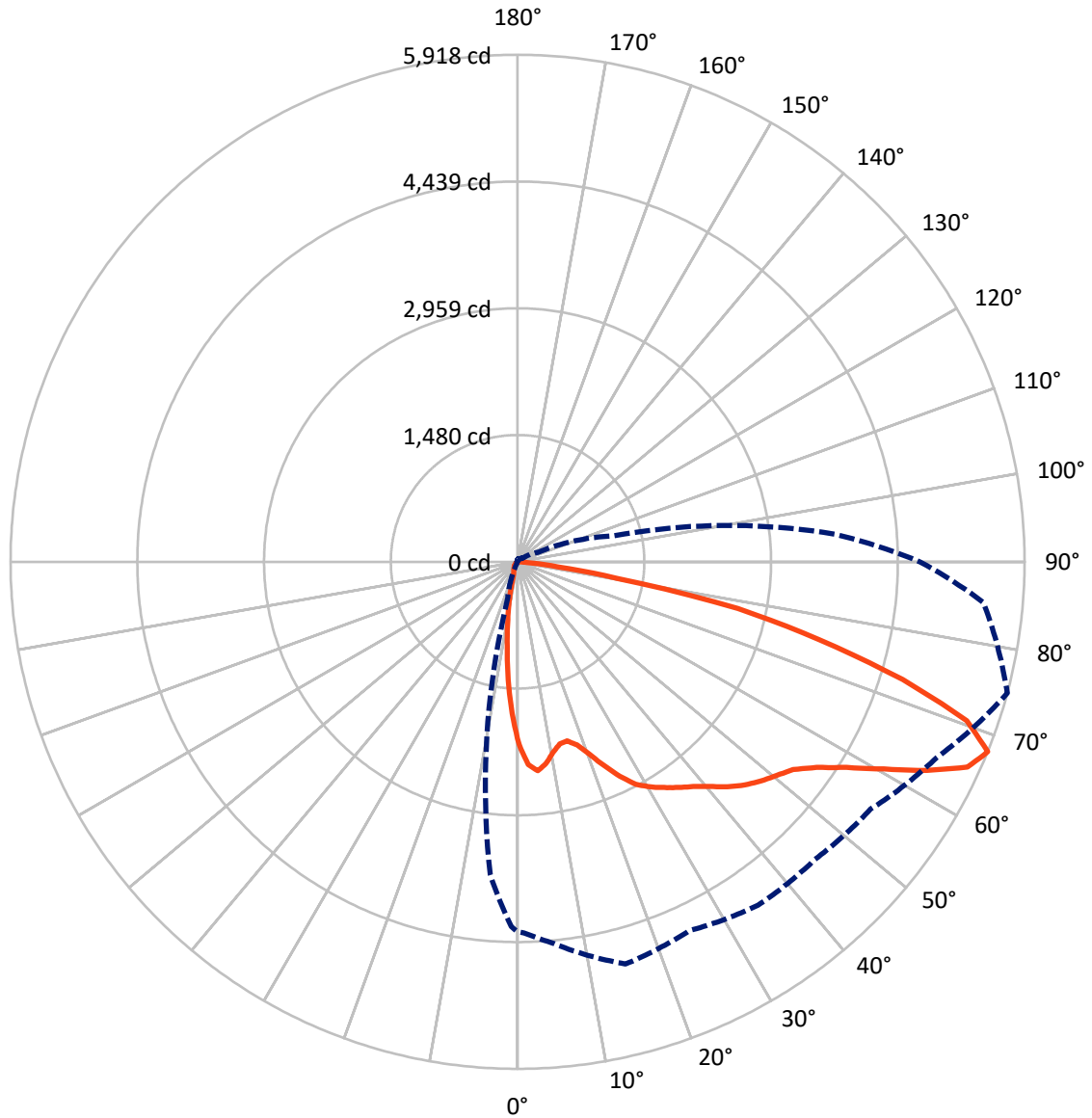
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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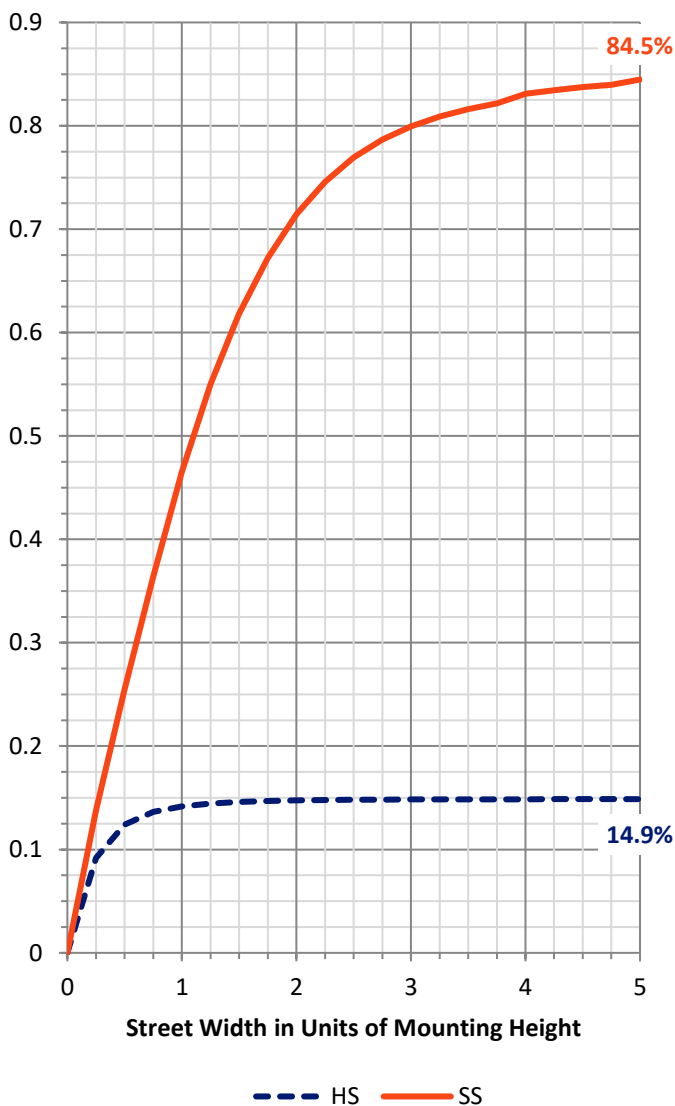
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.2	0.0	956.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	5415.8	0.0	5415.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	6372.0	0.0	6372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	2.5
10°-20°	319.3	5.0
20°-30°	451.7	7.1
30°-40°	664.1	10.4
40°-50°	954.6	15.0
50°-60°	1343.8	21.1
60°-70°	1569.4	24.6
70°-80°	800.7	12.6
80°-90°	106.4	1.7
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°	6372.0	100.0
0°-180°	6372.0	100.0

Coefficient of Utilization

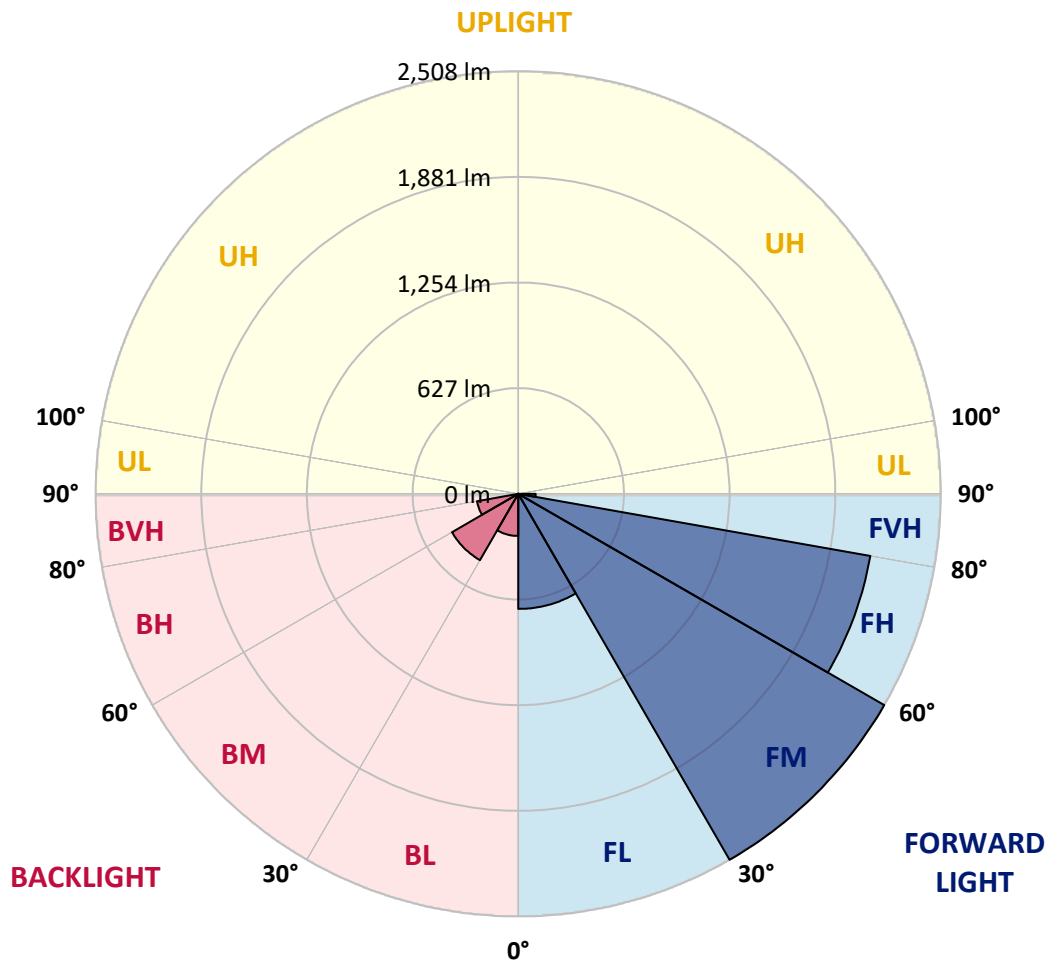


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	683.1	10.7			
FM (30°-60°)	2507.9	39.4			
FH (60°-80°)	2121.7	33.3			G2/5000
FVH (80°-90°)	103.1	1.6			G2/225
BL (0°-30°)	250.1	3.9	B1/500		
BM (30°-60°)	454.5	7.1	B1/1000		
BH (60°-80°)	248.4	3.9	B1/500		G1/500
BVH (80°-90°)	3.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7
2.5°	2317.3	2320.9	2339.6	2383.1	2430.5	2434.1	2466.1	2433.2	2422.0	2368.9	2314.0
5°	2334.8	2348.7	2413.0	2540.7	2651.4	2687.1	2712.4	2647.8	2579.9	2450.1	2311.6
7.5°	2193.8	2217.1	2318.2	2557.9	2755.9	2843.4	2860.0	2758.9	2592.6	2378.9	2170.6
10°	2013.3	2039.9	2161.8	2456.4	2728.4	2878.4	2901.4	2768.9	2529.8	2263.6	2018.2
12.5°	1867.2	1898.3	2023.0	2342.4	2633.9	2800.0	2845.2	2735.4	2475.5	2181.8	1914.0
15°	1799.9	1835.5	1966.5	2268.7	2529.2	2659.9	2697.3	2649.9	2445.3	2168.8	1889.9
17.5°	1838.6	1877.2	2012.4	2275.0	2430.8	2486.6	2516.8	2536.1	2445.3	2247.0	1960.5
20°	1997.0	2038.7	2181.8	2339.3	2349.3	2328.5	2360.8	2428.7	2473.7	2395.5	2130.2
22.5°	2216.2	2265.1	2426.6	2449.5	2309.4	2230.7	2234.9	2341.4	2525.3	2583.8	2365.6
25°	2483.3	2543.1	2707.3	2613.7	2326.1	2172.4	2170.9	2269.6	2575.7	2772.5	2627.9
27.5°	2748.6	2814.4	2958.7	2814.1	2394.6	2161.8	2158.8	2247.9	2624.9	2940.3	2914.4
30°	2971.1	3035.1	3159.5	2959.3	2468.5	2186.6	2172.1	2271.1	2654.2	3049.3	3123.2
32.5°	3152.2	3203.5	3304.0	3059.2	2547.6	2234.6	2203.2	2333.3	2704.0	3141.3	3315.2
35°	3351.4	3405.5	3445.6	3154.3	2636.4	2303.7	2258.7	2432.0	2780.6	3234.9	3525.6
37.5°	3578.7	3632.5	3627.6	3241.3	2748.9	2418.1	2389.4	2588.4	2899.9	3327.6	3760.4
40°	3801.2	3856.1	3816.9	3336.3	2881.2	2606.8	2585.6	2823.2	3059.5	3446.2	4035.7
42.5°	4009.5	4068.9	3985.0	3426.3	3038.7	2844.6	2880.9	3125.6	3259.4	3592.3	4273.0
45°	4177.3	4238.0	4126.0	3513.8	3204.7	3133.2	3242.2	3460.7	3499.6	3715.8	4433.3
47.5°	4299.2	4356.6	4223.8	3601.4	3417.2	3486.1	3675.9	3812.1	3716.7	3822.9	4547.1
50°	4377.1	4421.8	4252.5	3710.9	3696.1	3897.8	4127.8	4194.2	3921.0	3919.5	4685.3
52.5°	4426.6	4446.8	4273.6	3825.3	3987.1	4346.0	4570.3	4591.1	4131.4	4025.8	4871.5
55°	4597.2	4613.5	4423.3	3963.9	4227.7	4738.7	4970.6	4951.2	4369.6	4233.7	5091.3
57.5°	4888.1	4905.4	4732.7	4163.1	4422.4	4981.4	5260.6	5295.3	4648.8	4525.9	5326.7
60°	5034.2	5066.2	5004.7	4415.5	4611.1	5136.6	5458.3	5569.1	4997.7	4911.1	5554.9
62.5°	4901.7	4948.2	5037.6	4695.3	4798.5	5222.0	5519.9	5667.2	5355.1	5359.9	5695.6
65°	4637.3	4674.4	4826.0	4848.6	4907.2	5211.4	5367.8	5530.2	5573.9	5772.3	5688.0
67.5°	4318.0	4331.8	4460.4	4860.7	4749.6	4893.9	4910.8	5030.9	5401.0	5918.4	5459.5
70°	3858.2	3865.8	3978.1	4456.5	4081.6	4113.3	4088.2	4112.7	4643.3	5562.5	4882.7
72.5°	3105.1	3124.1	3283.8	3701.0	2973.5	2882.1	3078.9	3068.0	3576.0	4699.5	3626.4
75°	2286.2	2319.1	2560.3	2981.1	2087.0	1887.8	2031.4	2069.8	2542.2	3635.2	2267.8
77.5°	1600.7	1625.2	1858.8	2191.4	1510.5	1349.9	1298.0	1343.5	1678.0	2629.7	1142.5
80°	922.1	931.2	1080.3	1265.4	1017.8	1164.5	1055.0	1086.4	1005.5	1170.0	491.4
82.5°	603.4	604.9	663.2	753.1	633.9	736.5	545.1	697.0	618.5	470.0	160.0
85°	326.0	327.8	384.6	534.6	358.9	202.8	119.2	244.8	382.4	107.8	43.8
87.5°	35.9	32.9	115.9	194.4	99.6	18.4	6.3	27.5	61.3	6.9	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°	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7
2.5°	2285.9	2260.9	2198.4	2132.3	2079.1	2029.3	1979.2	1918.0	1870.6	1860.9	1845.2
5°	2237.0	2157.6	2026.6	1895.0	1789.1	1655.3	1570.5	1504.4	1439.8	1435.9	1422.9
7.5°	2066.2	1961.7	1777.3	1595.3	1446.2	1318.8	1190.2	1104.2	1036.6	1012.7	998.5
10°	1902.0	1784.5	1554.2	1346.5	1213.4	1100.8	1010.3	920.3	838.8	782.7	757.3
12.5°	1787.2	1657.5	1403.6	1224.6	1129.2	1022.4	911.9	799.6	705.7	638.1	596.8
15°	1742.9	1604.3	1353.2	1176.3	1058.6	923.4	782.1	653.8	549.7	488.4	451.3
17.5°	1795.7	1634.5	1349.3	1117.4	952.9	784.8	628.8	477.2	379.1	332.6	308.8
20°	1929.7	1730.5	1347.8	1045.3	827.4	620.6	425.9	313.9	254.5	228.5	217.3
22.5°	2119.3	1853.1	1359.8	974.1	696.7	443.4	294.0	230.6	200.1	186.2	179.9
25°	2363.2	2025.1	1393.9	909.5	573.8	330.8	229.1	193.2	171.8	160.9	156.4
27.5°	2623.1	2223.1	1447.1	853.3	473.9	263.8	196.2	165.4	150.0	142.5	138.2
30°	2837.4	2452.5	1500.8	790.8	401.5	230.0	179.6	150.9	133.1	128.3	124.4
32.5°	3024.8	2626.1	1538.8	734.4	354.1	204.4	162.4	134.9	122.9	113.5	109.3
35°	3218.9	2770.7	1537.6	694.9	321.5	185.0	147.9	120.7	106.3	95.4	92.1
37.5°	3429.0	2934.0	1511.4	661.1	307.3	169.6	139.8	113.2	98.7	87.8	83.6
40°	3675.0	3105.4	1484.5	629.4	303.4	157.3	134.0	107.2	91.8	81.2	77.0
42.5°	3914.7	3260.0	1461.0	605.8	286.5	157.0	128.9	102.6	86.3	76.1	71.2
45°	4106.4	3404.0	1456.4	591.6	268.6	162.4	126.2	99.6	82.1	71.8	67.3
47.5°	4265.7	3560.3	1485.4	581.7	251.7	148.2	132.8	97.5	78.2	68.2	63.1
50°	4455.3	3752.3	1553.6	565.4	233.9	133.4	152.1	98.1	74.9	64.6	59.2
52.5°	4719.7	4017.9	1653.8	537.9	209.5	119.8	149.7	98.7	71.2	60.7	55.2
55°	5016.1	4349.6	1761.6	492.3	175.4	102.0	128.3	94.5	64.3	56.4	51.3
57.5°	5327.6	4650.6	1825.6	438.0	139.5	88.1	102.6	86.0	56.7	50.7	47.4
60°	5376.5	4765.0	1796.3	371.3	110.8	76.7	76.1	87.5	50.7	44.7	42.3
62.5°	5254.9	4621.3	1654.7	311.8	92.7	67.3	62.5	76.4	45.9	39.8	37.4
65°	5021.0	4232.8	1425.3	281.0	86.0	57.7	51.9	53.7	40.1	34.7	32.6
67.5°	4695.6	3714.3	1170.3	263.5	85.1	49.5	44.4	40.7	34.7	30.2	28.4
70°	4030.3	3094.3	933.6	253.9	82.7	41.7	37.4	33.2	29.0	25.7	24.1
72.5°	2966.3	2192.6	726.2	243.3	83.3	33.2	32.6	27.5	23.2	19.9	19.3
75°	1713.9	1252.7	476.3	197.1	79.4	25.7	27.2	19.3	16.3	13.9	13.9
77.5°	913.4	764.0	181.4	82.1	29.0	16.3	15.4	11.5	10.3	8.5	8.1
80°	398.1	336.3	54.6	22.9	16.0	8.8	5.7	5.1	4.5	3.6	3.3
82.5°	141.0	121.6	17.8	11.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.0	22.9	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7
2.5°	1813.2	1806.6	1767.3	1768.8	1775.8	1785.7	1762.2	1773.1	1802.3	1830.4	1841.0
5°	1402.1	1403.6	1379.8	1394.5	1407.8	1416.9	1378.8	1379.5	1402.7	1434.4	1451.0
7.5°	988.0	985.5	986.7	1022.1	1047.1	1029.0	1043.2	994.0	997.0	1019.6	1002.7
10°	734.4	701.2	682.5	709.0	736.5	726.6	702.1	686.1	697.3	722.3	720.5
12.5°	577.1	529.4	501.4	482.4	505.0	486.3	485.7	471.8	456.7	459.4	499.6
15°	434.1	399.3	366.1	335.7	335.1	328.7	296.4	260.2	257.2	259.0	279.8
17.5°	298.5	286.8	273.2	246.9	240.0	213.4	182.0	167.5	160.3	163.6	170.5
20°	209.8	205.3	206.8	192.6	182.6	157.3	138.9	133.1	131.9	135.2	138.5
22.5°	173.9	165.7	164.8	158.5	148.5	130.1	120.1	116.8	115.3	118.3	120.7
25°	152.1	144.0	140.7	136.7	126.2	113.5	107.5	104.4	102.9	104.7	106.3
27.5°	134.0	126.5	123.5	120.7	110.5	101.4	96.6	93.9	92.7	93.3	94.8
30°	120.4	113.8	109.9	106.6	97.8	91.5	87.2	84.5	83.3	83.3	84.8
32.5°	106.3	102.6	99.0	94.8	86.6	82.4	78.2	75.2	74.0	74.3	75.5
35°	88.4	87.2	88.1	84.2	77.3	73.7	69.4	66.1	65.2	65.5	66.7
37.5°	78.5	73.0	76.4	74.3	70.3	65.5	60.1	57.0	55.5	56.4	57.0
40°	72.1	65.5	63.1	65.2	64.6	56.7	51.9	48.9	47.7	48.0	48.6
42.5°	66.7	58.9	53.4	53.1	56.7	49.5	44.4	41.7	40.1	40.1	40.7
45°	61.6	53.1	46.5	41.4	47.7	42.0	37.1	34.7	32.9	32.9	33.2
47.5°	57.7	48.3	40.4	33.8	35.9	34.4	30.5	28.1	26.3	26.3	26.6
50°	54.0	43.5	35.0	28.4	26.9	28.4	24.8	22.0	20.8	20.5	21.1
52.5°	50.1	38.6	29.9	24.1	21.1	21.4	19.3	17.5	16.0	16.0	16.6
55°	46.2	34.7	26.0	20.5	17.5	16.0	15.4	14.2	13.0	13.0	13.6
57.5°	42.3	30.5	22.0	16.9	13.9	12.7	12.7	11.8	10.9	10.9	11.5
60°	38.6	26.3	18.1	13.9	10.9	10.6	10.9	10.0	9.4	9.4	10.0
62.5°	34.4	22.3	14.8	11.5	8.8	8.5	9.4	8.8	8.1	8.1	8.8
65°	29.3	19.0	11.8	8.8	6.6	6.6	7.8	7.2	6.6	6.6	7.2
67.5°	24.8	16.0	9.1	6.3	4.8	5.1	6.6	6.0	5.7	5.7	6.3
70°	20.5	12.4	6.3	3.9	2.7	3.9	5.1	5.1	5.1	5.1	5.7
72.5°	15.4	8.5	3.6	1.5	1.2	2.7	4.2	4.8	4.5	4.5	5.4
75°	10.0	4.8	1.2	0.0	0.0	1.5	3.3	3.9	3.9	3.6	4.5
77.5°	5.7	1.5	0.0	0.0	0.0	0.0	2.1	1.8	1.5	1.2	2.1
80°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7	2137.7
2.5°	1883.5	1919.2	1969.3	2022.4	2104.2	2169.1	2232.8	2287.4	2308.5	2317.3
5°	1490.8	1543.1	1616.4	1710.6	1858.2	1991.0	2125.6	2261.2	2320.0	2334.8
7.5°	1069.8	1136.5	1229.7	1347.8	1520.7	1692.8	1880.8	2079.7	2170.9	2193.8
10°	791.8	873.3	980.1	1104.5	1269.6	1446.5	1651.4	1878.7	1982.8	2013.3
12.5°	561.7	671.9	815.0	966.2	1109.3	1267.2	1474.5	1725.1	1834.3	1867.2
15°	329.9	436.5	605.8	808.4	991.6	1151.6	1362.2	1646.3	1766.7	1799.9
17.5°	189.3	242.4	370.4	596.2	844.9	1066.4	1326.9	1665.9	1807.8	1838.6
20°	144.6	161.5	213.4	384.0	673.4	982.8	1326.9	1777.0	1951.8	1997.0
22.5°	126.5	138.9	160.0	229.1	495.6	893.2	1342.3	1937.6	2166.1	2216.2
25°	112.3	123.5	141.6	172.4	338.1	786.6	1378.8	2134.7	2418.4	2483.3
27.5°	100.5	111.1	127.4	150.9	231.2	658.0	1428.0	2365.9	2696.7	2748.6
30°	90.0	99.9	114.7	131.3	178.4	512.2	1470.0	2583.8	2915.3	2971.1
32.5°	80.0	89.0	102.3	114.7	146.1	378.8	1474.5	2756.5	3096.7	3152.2
35°	70.6	78.8	90.9	100.5	121.0	299.1	1404.2	2906.2	3278.1	3351.4
37.5°	61.6	69.4	80.0	87.2	106.6	243.9	1296.7	3073.1	3510.8	3578.7
40°	53.1	60.1	70.9	75.8	100.8	187.4	1179.9	3248.2	3739.0	3801.2
42.5°	45.3	51.9	62.5	71.8	88.4	140.1	1053.8	3412.4	3944.3	4009.5
45°	37.7	44.7	55.2	76.1	73.3	104.7	918.8	3521.4	4106.4	4177.3
47.5°	30.5	38.3	52.8	72.4	58.6	77.0	812.0	3624.6	4229.2	4299.2
50°	24.4	32.3	59.5	64.6	48.0	58.9	767.3	3717.0	4309.8	4377.1
52.5°	19.9	27.2	56.1	49.5	40.1	48.6	791.4	3866.7	4384.4	4426.6
55°	16.6	21.4	33.8	34.4	34.1	41.4	821.3	4081.6	4577.2	4597.2
57.5°	14.5	17.2	23.5	26.6	28.7	36.8	821.9	4390.1	4875.8	4888.1
60°	12.4	15.1	19.6	21.4	24.8	32.9	792.1	4497.9	4993.2	5034.2
62.5°	10.9	13.3	16.3	17.8	20.8	29.6	722.0	4341.8	4832.0	4901.7
65°	9.7	12.1	13.6	15.1	18.4	26.6	606.7	4029.7	4564.6	4637.3
67.5°	8.5	10.6	12.1	13.6	16.6	23.5	446.7	3667.2	4257.6	4318.0
70°	7.5	9.4	10.9	12.1	14.5	19.9	271.1	3111.8	3833.2	3858.2
72.5°	7.2	8.5	10.0	10.9	12.7	17.5	137.3	2286.8	3064.4	3105.1
75°	6.3	7.5	9.1	9.7	11.2	15.1	55.8	1502.0	2220.7	2286.2
77.5°	5.1	6.9	8.1	8.8	9.7	12.4	28.4	959.9	1558.4	1600.7
80°	1.8	5.1	6.9	7.2	8.1	9.1	18.7	525.5	904.0	922.1
82.5°	0.0	3.3	5.4	5.1	5.7	6.9	12.1	249.9	596.8	603.4
85°	0.0	1.5	4.2	3.3	2.4	4.8	4.2	54.6	313.0	326.0
87.5°	0.0	0.0	0.3	1.5	1.2	1.8	0.6	0.3	28.4	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)