

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: P382778

Luminaire Tested: **GLEON-SA1C-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382778
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-SA1C-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5115.1 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

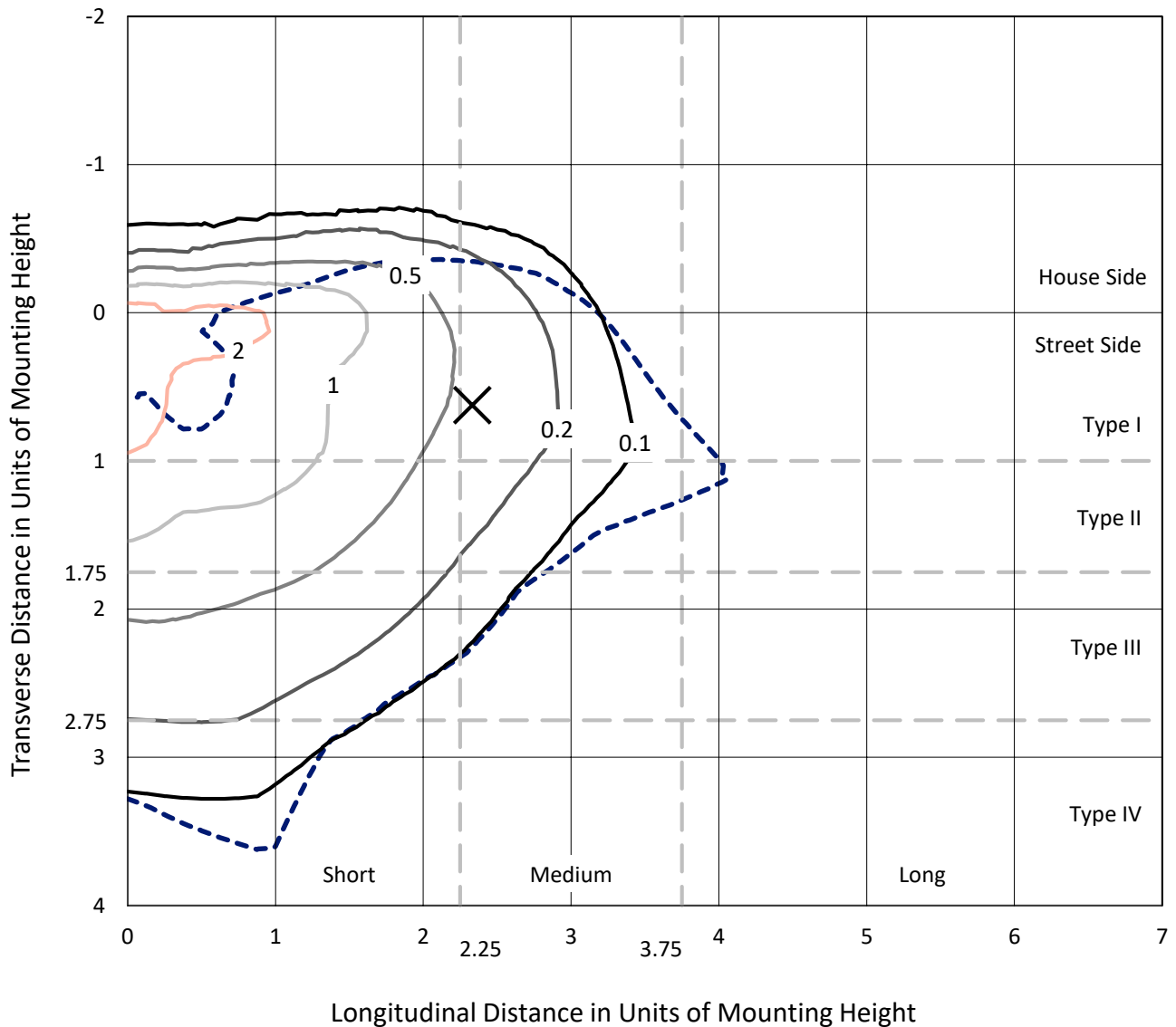
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

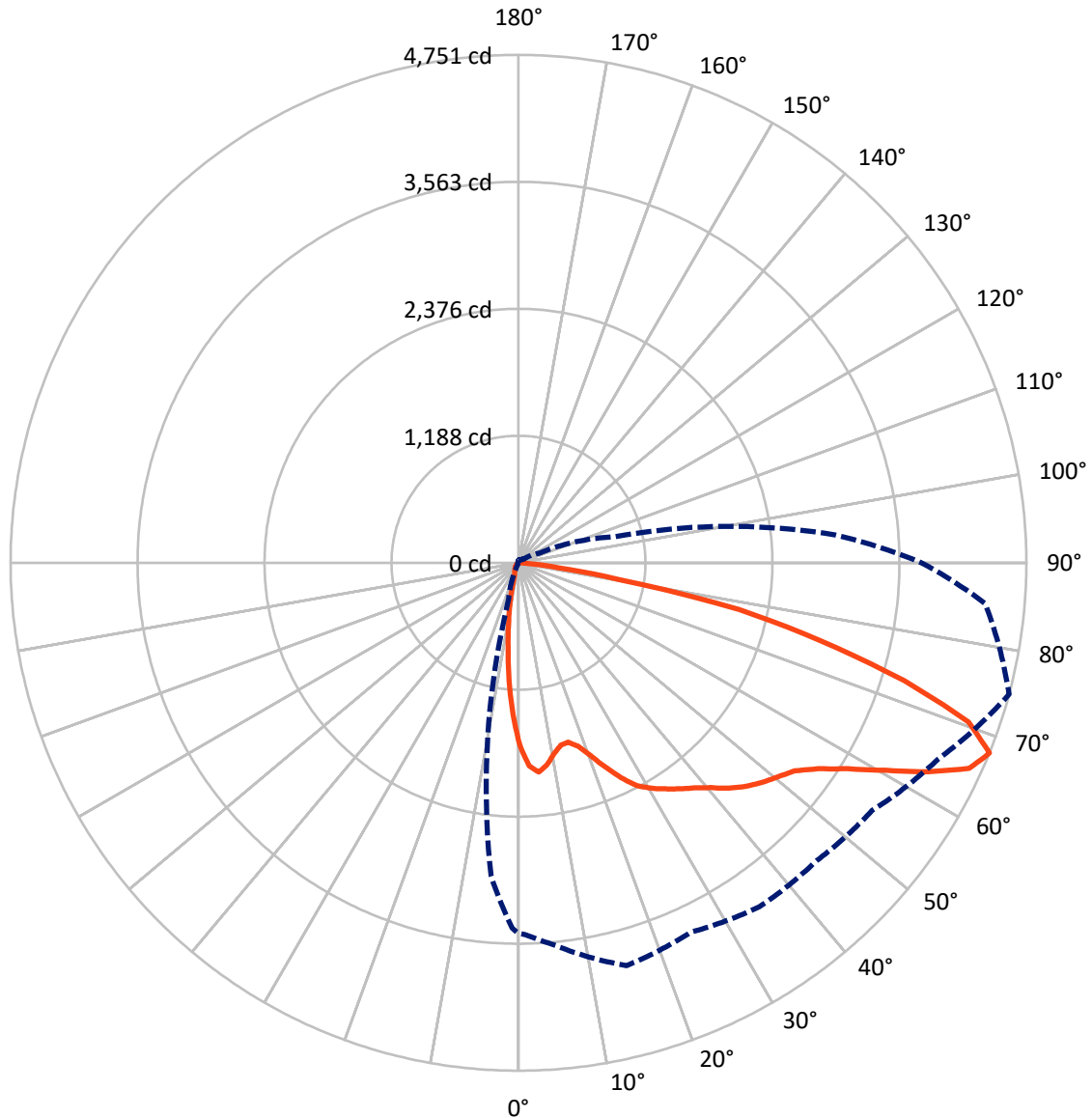
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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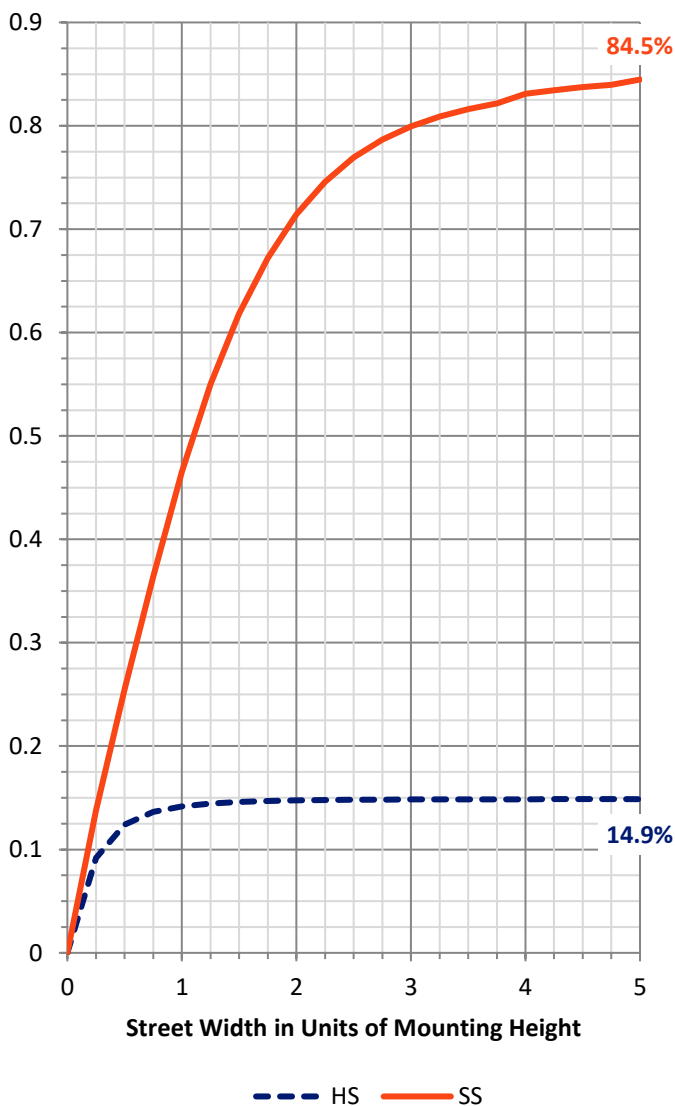
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.6	0.0	767.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	4347.6	0.0	4347.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	5115.1	0.0	5115.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	2.5
10°-20°	256.3	5.0
20°-30°	362.6	7.1
30°-40°	533.1	10.4
40°-50°	766.3	15.0
50°-60°	1078.7	21.1
60°-70°	1259.8	24.6
70°-80°	642.7	12.6
80°-90°	85.4	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°	5115.1	100.0
0°-180°	5115.1	100.0

Coefficient of Utilization

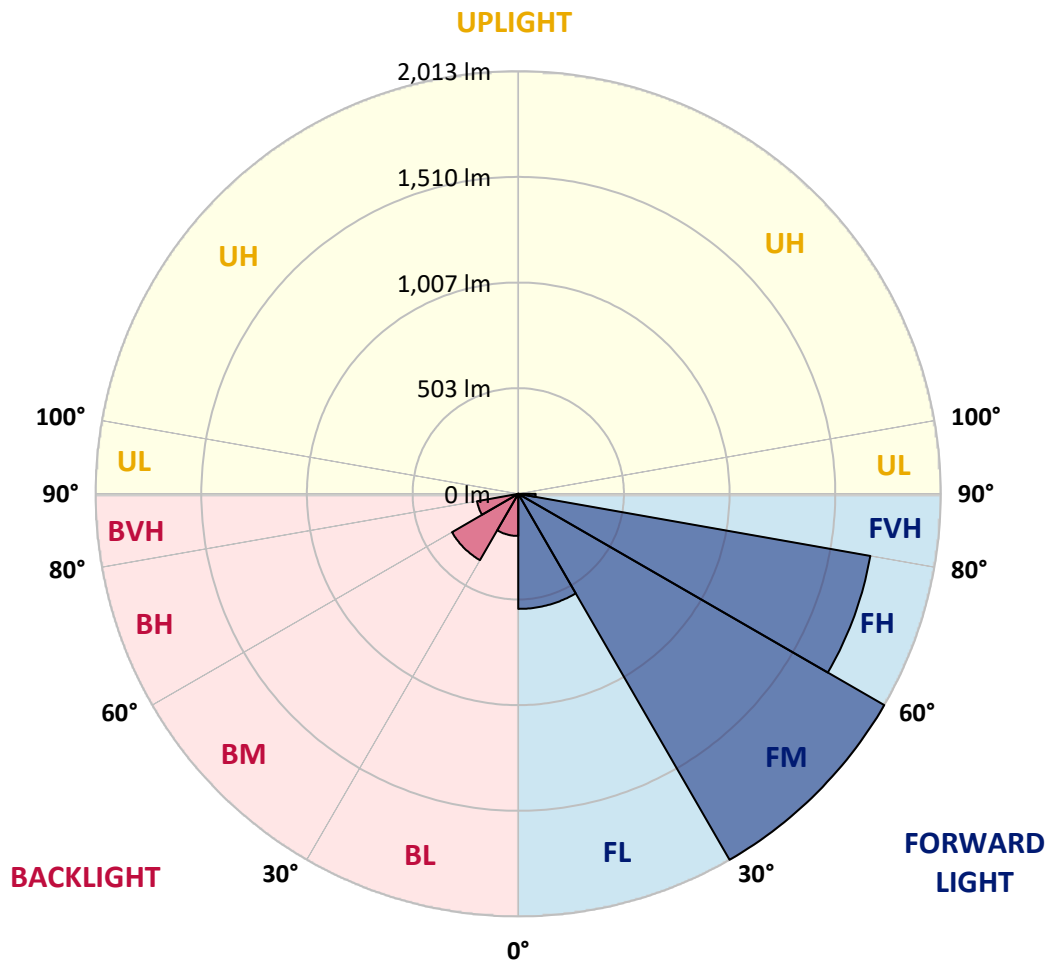


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.3	10.7			
FM (30°-60°)	2013.2	39.4			
FH (60°-80°)	1703.2	33.3			G1/1800
FVH (80°-90°)	82.8	1.6			G1/100
BL (0°-30°)	200.7	3.9	B1/500		
BM (30°-60°)	364.9	7.1	B1/1000		
BH (60°-80°)	199.4	3.9	B1/500		G1/500
BVH (80°-90°)	2.6	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-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0
2.5°	1860.2	1863.1	1878.2	1913.0	1951.0	1954.0	1979.6	1953.3	1944.3	1901.7	1857.5
5°	1874.3	1885.5	1937.1	2039.5	2128.5	2157.0	2177.4	2125.5	2071.0	1966.9	1855.6
7.5°	1761.1	1779.7	1861.0	2053.3	2212.3	2282.6	2295.9	2214.8	2081.2	1909.7	1742.5
10°	1616.2	1637.6	1735.4	1971.9	2190.3	2310.7	2329.1	2222.7	2030.8	1817.1	1620.1
12.5°	1499.0	1523.9	1624.0	1880.3	2114.4	2247.6	2284.0	2195.8	1987.2	1751.4	1536.5
15°	1444.9	1473.5	1578.7	1821.2	2030.3	2135.2	2165.3	2127.3	1963.0	1741.0	1517.1
17.5°	1475.9	1507.0	1615.5	1826.3	1951.3	1996.1	2020.3	2035.9	1963.0	1803.8	1573.8
20°	1603.1	1636.5	1751.4	1877.9	1885.9	1869.2	1895.1	1949.6	1985.7	1923.0	1709.9
22.5°	1779.1	1818.3	1948.0	1966.3	1853.9	1790.7	1794.1	1879.6	2027.1	2074.2	1899.0
25°	1993.5	2041.5	2173.3	2098.1	1867.2	1743.9	1742.6	1821.9	2067.7	2225.7	2109.6
27.5°	2206.5	2259.3	2375.2	2259.1	1922.2	1735.4	1733.0	1804.5	2107.2	2360.4	2339.5
30°	2385.0	2436.5	2536.2	2375.6	1981.6	1755.3	1743.7	1823.1	2130.6	2447.8	2507.2
32.5°	2530.5	2571.6	2652.3	2455.8	2045.1	1793.8	1768.6	1873.1	2170.6	2521.7	2661.2
35°	2690.4	2733.7	2766.0	2532.1	2116.3	1849.3	1813.2	1952.2	2232.2	2596.9	2830.1
37.5°	2872.8	2915.9	2912.1	2601.9	2206.7	1941.2	1918.1	2077.8	2327.8	2671.2	3018.7
40°	3051.4	3095.5	3064.0	2678.3	2312.8	2092.6	2075.6	2266.4	2456.0	2766.4	3239.6
42.5°	3218.6	3266.4	3198.9	2750.5	2439.4	2283.5	2312.6	2509.1	2616.4	2883.7	3430.1
45°	3353.3	3402.0	3312.1	2820.7	2572.6	2515.2	2602.7	2778.1	2809.4	2982.8	3558.8
47.5°	3451.2	3497.2	3390.6	2891.0	2743.2	2798.5	2950.9	3060.1	2983.6	3068.9	3650.2
50°	3513.7	3549.6	3413.7	2979.0	2967.1	3129.0	3313.6	3366.9	3147.6	3146.4	3761.1
52.5°	3553.5	3569.7	3430.6	3070.8	3200.7	3488.7	3668.8	3685.6	3316.5	3231.7	3910.6
55°	3690.4	3703.5	3550.8	3182.0	3393.8	3804.1	3990.1	3974.6	3507.6	3398.7	4087.1
57.5°	3924.0	3937.7	3799.1	3341.9	3550.0	3998.9	4223.0	4250.8	3731.8	3633.2	4276.1
60°	4041.2	4067.0	4017.5	3544.5	3701.5	4123.4	4381.7	4470.6	4011.9	3942.4	4459.2
62.5°	3934.9	3972.2	4043.9	3769.1	3852.0	4192.0	4431.1	4549.4	4298.8	4302.7	4572.1
65°	3722.7	3752.4	3874.0	3892.2	3939.2	4183.5	4309.0	4439.4	4474.5	4633.7	4566.1
67.5°	3466.2	3477.4	3580.6	3901.9	3812.7	3928.5	3942.1	4038.5	4335.6	4751.0	4382.7
70°	3097.2	3103.3	3193.4	3577.4	3276.5	3302.0	3281.8	3301.5	3727.5	4465.3	3919.6
72.5°	2492.6	2507.9	2636.1	2971.0	2387.0	2313.6	2471.6	2462.8	2870.7	3772.5	2911.1
75°	1835.2	1861.7	2055.3	2393.1	1675.3	1515.4	1630.8	1661.5	2040.7	2918.2	1820.4
77.5°	1285.0	1304.6	1492.2	1759.1	1212.5	1083.6	1041.9	1078.5	1347.0	2111.0	917.1
80°	740.3	747.6	867.3	1015.8	817.1	934.8	846.9	872.1	807.1	939.2	394.5
82.5°	484.4	485.6	532.4	604.6	508.8	591.3	437.6	559.5	496.5	377.3	128.5
85°	261.7	263.2	308.7	429.2	288.1	162.8	95.7	196.6	307.0	86.5	35.1
87.5°	28.9	26.5	93.1	156.0	79.9	14.8	5.1	22.1	49.2	5.6	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°	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0
2.5°	1835.1	1814.9	1764.7	1711.7	1669.1	1629.1	1588.8	1539.7	1501.6	1493.8	1481.3
5°	1795.7	1732.0	1626.9	1521.2	1436.2	1328.9	1260.8	1207.7	1155.9	1152.7	1142.3
7.5°	1658.6	1574.8	1426.8	1280.6	1160.9	1058.6	955.4	886.4	832.1	813.0	801.6
10°	1526.8	1432.5	1247.6	1081.0	974.1	883.7	811.0	738.8	673.4	628.3	607.9
12.5°	1434.7	1330.5	1126.7	983.1	906.5	820.7	732.0	641.8	566.5	512.3	479.0
15°	1399.1	1287.9	1086.3	944.3	849.8	741.2	627.9	524.8	441.3	392.1	362.3
17.5°	1441.5	1312.1	1083.1	897.0	765.0	630.0	504.7	383.1	304.3	267.0	247.9
20°	1549.1	1389.1	1081.9	839.1	664.2	498.2	341.9	252.0	204.3	183.4	174.5
22.5°	1701.3	1487.5	1091.6	781.9	559.2	355.9	236.1	185.1	160.7	149.5	144.4
25°	1897.0	1625.6	1119.0	730.1	460.7	265.6	183.9	155.1	137.9	129.1	125.5
27.5°	2105.7	1784.6	1161.6	685.0	380.4	211.7	157.5	132.7	120.4	114.4	110.9
30°	2277.7	1968.7	1204.8	634.8	322.3	184.6	144.2	121.2	106.8	102.9	99.9
32.5°	2428.2	2108.1	1235.3	589.6	284.2	164.0	130.3	108.3	98.7	91.1	87.8
35°	2584.0	2224.2	1234.3	557.8	258.0	148.6	118.8	96.9	85.3	76.6	73.9
37.5°	2752.6	2355.2	1213.2	530.7	246.7	136.2	112.2	90.8	79.3	70.5	67.2
40°	2950.1	2492.9	1191.6	505.2	243.5	126.2	107.6	86.0	73.7	65.2	61.8
42.5°	3142.5	2616.9	1172.8	486.4	229.9	126.0	103.5	82.3	69.3	61.0	57.2
45°	3296.4	2732.5	1169.2	474.9	215.7	130.3	101.3	79.9	66.0	57.7	54.0
47.5°	3424.3	2858.1	1192.4	466.9	202.1	119.0	106.7	78.2	62.8	54.8	50.7
50°	3576.5	3012.2	1247.2	453.8	187.8	107.1	122.1	78.7	60.1	51.9	47.5
52.5°	3788.8	3225.4	1327.6	431.8	168.1	96.2	120.2	79.3	57.2	48.7	44.3
55°	4026.7	3491.7	1414.1	395.2	140.8	81.9	102.9	75.8	51.6	45.3	41.2
57.5°	4276.7	3733.3	1465.5	351.6	112.0	70.8	82.3	69.0	45.6	40.7	38.0
60°	4316.0	3825.1	1441.9	298.0	89.0	61.6	61.0	70.2	40.7	35.9	33.9
62.5°	4218.3	3709.8	1328.4	250.3	74.4	54.0	50.1	61.3	36.8	32.0	30.1
65°	4030.6	3397.9	1144.2	225.6	69.0	46.3	41.6	43.1	32.2	27.9	26.2
67.5°	3769.4	2981.6	939.5	211.6	68.4	39.8	35.6	32.7	27.9	24.2	22.8
70°	3235.4	2483.9	749.4	203.8	66.4	33.4	30.1	26.6	23.3	20.6	19.4
72.5°	2381.2	1760.2	583.0	195.3	66.9	26.6	26.2	22.1	18.6	16.0	15.5
75°	1375.8	1005.6	382.4	158.3	63.7	20.6	21.8	15.5	13.0	11.2	11.2
77.5°	733.2	613.3	145.6	66.0	23.3	13.0	12.4	9.2	8.2	6.8	6.5
80°	319.6	270.0	43.9	18.4	12.9	7.0	4.6	4.1	3.6	2.9	2.7
82.5°	113.2	97.6	14.3	8.9	5.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.7	18.4	0.0	2.1	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°	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0
2.5°	1455.5	1450.2	1418.7	1420.0	1425.5	1433.5	1414.6	1423.3	1446.8	1469.3	1477.8
5°	1125.5	1126.7	1107.6	1119.4	1130.2	1137.4	1106.9	1107.3	1126.1	1151.5	1164.8
7.5°	793.1	791.2	792.1	820.5	840.5	826.0	837.5	798.0	800.4	818.6	805.0
10°	589.6	562.8	547.8	569.2	591.3	583.2	563.6	550.7	559.8	579.9	578.4
12.5°	463.3	425.0	402.5	387.2	405.4	390.3	389.9	378.8	366.7	368.8	401.0
15°	348.4	320.5	293.9	269.4	268.9	263.9	237.9	208.9	206.4	207.9	224.6
17.5°	239.7	230.2	219.3	198.2	192.6	171.3	146.1	134.5	128.6	131.3	136.9
20°	168.4	164.8	166.0	154.6	146.6	126.2	111.5	106.8	105.9	108.5	111.2
22.5°	139.5	133.0	132.3	127.2	119.2	104.4	96.4	93.8	92.6	95.0	96.9
25°	122.1	115.6	112.9	109.7	101.3	91.1	86.3	83.8	82.6	84.1	85.3
27.5°	107.6	101.5	99.1	96.9	88.7	81.4	77.5	75.4	74.4	74.9	76.1
30°	96.7	91.4	88.2	85.5	78.5	73.4	70.1	67.8	66.9	66.9	68.1
32.5°	85.3	82.3	79.5	76.1	69.6	66.1	62.8	60.4	59.3	59.6	60.6
35°	71.0	70.1	70.8	67.6	62.0	59.2	55.7	53.1	52.4	52.5	53.6
37.5°	63.0	58.6	61.3	59.6	56.5	52.5	48.3	45.8	44.6	45.3	45.8
40°	57.9	52.5	50.7	52.4	51.9	45.6	41.6	39.2	38.3	38.6	39.0
42.5°	53.6	47.2	42.9	42.7	45.6	39.8	35.6	33.4	32.2	32.2	32.7
45°	49.5	42.7	37.4	33.2	38.3	33.7	29.8	27.9	26.5	26.5	26.6
47.5°	46.3	38.8	32.5	27.1	28.9	27.7	24.5	22.5	21.1	21.1	21.3
50°	43.4	34.9	28.1	22.8	21.6	22.8	19.8	17.7	16.7	16.5	17.0
52.5°	40.2	31.0	24.0	19.4	17.0	17.2	15.5	14.1	12.9	12.9	13.3
55°	37.1	27.9	20.9	16.5	14.1	12.9	12.4	11.4	10.4	10.4	10.9
57.5°	33.9	24.5	17.7	13.6	11.2	10.2	10.2	9.4	8.8	8.8	9.2
60°	31.0	21.1	14.5	11.2	8.8	8.5	8.8	8.0	7.5	7.5	8.0
62.5°	27.7	17.9	11.8	9.2	7.0	6.8	7.5	7.0	6.5	6.5	7.0
65°	23.5	15.3	9.4	7.0	5.3	5.3	6.3	5.8	5.3	5.3	5.8
67.5°	19.8	12.9	7.3	5.1	3.9	4.1	5.3	4.8	4.6	4.6	5.1
70°	16.5	10.0	5.1	3.2	2.1	3.2	4.1	4.1	4.1	4.1	4.6
72.5°	12.4	6.8	2.9	1.2	0.9	2.1	3.4	3.9	3.6	3.6	4.4
75°	8.0	3.9	0.9	0.0	0.0	1.2	2.7	3.2	3.2	2.9	3.6
77.5°	4.6	1.2	0.0	0.0	0.0	0.0	1.7	1.5	1.2	0.9	1.7
80°	1.2	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°	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0	1716.0
2.5°	1512.0	1540.6	1580.8	1623.5	1689.2	1741.2	1792.4	1836.3	1853.2	1860.2
5°	1196.8	1238.7	1297.6	1373.2	1491.7	1598.3	1706.3	1815.1	1862.3	1874.3
7.5°	858.7	912.3	987.2	1081.9	1220.8	1358.8	1509.9	1669.5	1742.6	1761.1
10°	635.6	701.0	786.8	886.6	1019.1	1161.2	1325.7	1508.2	1591.7	1616.2
12.5°	451.0	539.4	654.2	775.6	890.5	1017.2	1183.7	1384.8	1472.5	1499.0
15°	264.8	350.4	486.4	648.9	796.0	924.4	1093.5	1321.6	1418.3	1444.9
17.5°	151.9	194.6	297.3	478.5	678.3	856.1	1065.2	1337.3	1451.2	1475.9
20°	116.1	129.7	171.3	308.2	540.6	788.9	1065.2	1426.5	1566.8	1603.1
22.5°	101.5	111.5	128.5	183.9	397.9	717.0	1077.5	1555.4	1738.8	1779.1
25°	90.2	99.1	113.6	138.3	271.4	631.5	1106.9	1713.6	1941.3	1993.5
27.5°	80.7	89.1	102.3	121.2	185.6	528.3	1146.4	1899.2	2164.8	2206.5
30°	72.2	80.2	92.0	105.5	143.2	411.2	1180.1	2074.2	2340.2	2385.0
32.5°	64.2	71.4	82.2	92.0	117.3	304.1	1183.7	2212.8	2485.8	2530.5
35°	56.7	63.3	72.9	80.7	97.2	240.2	1127.3	2333.0	2631.5	2690.4
37.5°	49.5	55.7	64.2	70.1	85.5	195.8	1041.0	2466.9	2818.3	2872.8
40°	42.7	48.3	56.9	60.8	81.0	150.4	947.2	2607.5	3001.4	3051.4
42.5°	36.3	41.6	50.1	57.7	71.0	112.4	845.9	2739.3	3166.2	3218.6
45°	30.3	35.9	44.3	61.0	58.9	84.1	737.6	2826.8	3296.4	3353.3
47.5°	24.5	30.7	42.4	58.1	47.0	61.8	651.8	2909.7	3395.0	3451.2
50°	19.7	25.9	47.7	51.9	38.6	47.2	615.9	2983.8	3459.7	3513.7
52.5°	16.0	21.8	45.1	39.8	32.2	39.0	635.3	3104.0	3519.6	3553.5
55°	13.3	17.2	27.1	27.7	27.4	33.2	659.3	3276.5	3674.4	3690.4
57.5°	11.6	13.8	18.9	21.3	23.0	29.5	659.8	3524.1	3914.0	3924.0
60°	10.0	12.1	15.7	17.2	19.8	26.5	635.8	3610.7	4008.3	4041.2
62.5°	8.8	10.6	13.0	14.3	16.7	23.8	579.6	3485.4	3878.9	3934.9
65°	7.7	9.7	10.9	12.1	14.8	21.3	487.0	3234.8	3664.2	3722.7
67.5°	6.8	8.5	9.7	10.9	13.3	18.9	358.6	2943.8	3417.8	3466.2
70°	6.1	7.5	8.8	9.7	11.6	16.0	217.6	2497.9	3077.1	3097.2
72.5°	5.8	6.8	8.0	8.8	10.2	14.1	110.3	1835.7	2459.9	2492.6
75°	5.1	6.1	7.3	7.7	8.9	12.1	44.8	1205.7	1782.7	1835.2
77.5°	4.1	5.6	6.5	7.0	7.7	10.0	22.8	770.6	1251.1	1285.0
80°	1.5	4.1	5.6	5.8	6.5	7.3	15.0	421.9	725.7	740.3
82.5°	0.0	2.7	4.4	4.1	4.6	5.6	9.7	200.7	479.0	484.4
85°	0.0	1.2	3.4	2.7	2.0	3.9	3.4	43.9	251.2	261.7
87.5°	0.0	0.0	0.3	1.2	0.9	1.5	0.5	0.3	22.8	28.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)