

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: P193042

Luminaire Tested: **GLEON-AF-04-LED-E1-SLL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SLL-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22388.3 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 258
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: 25 FT

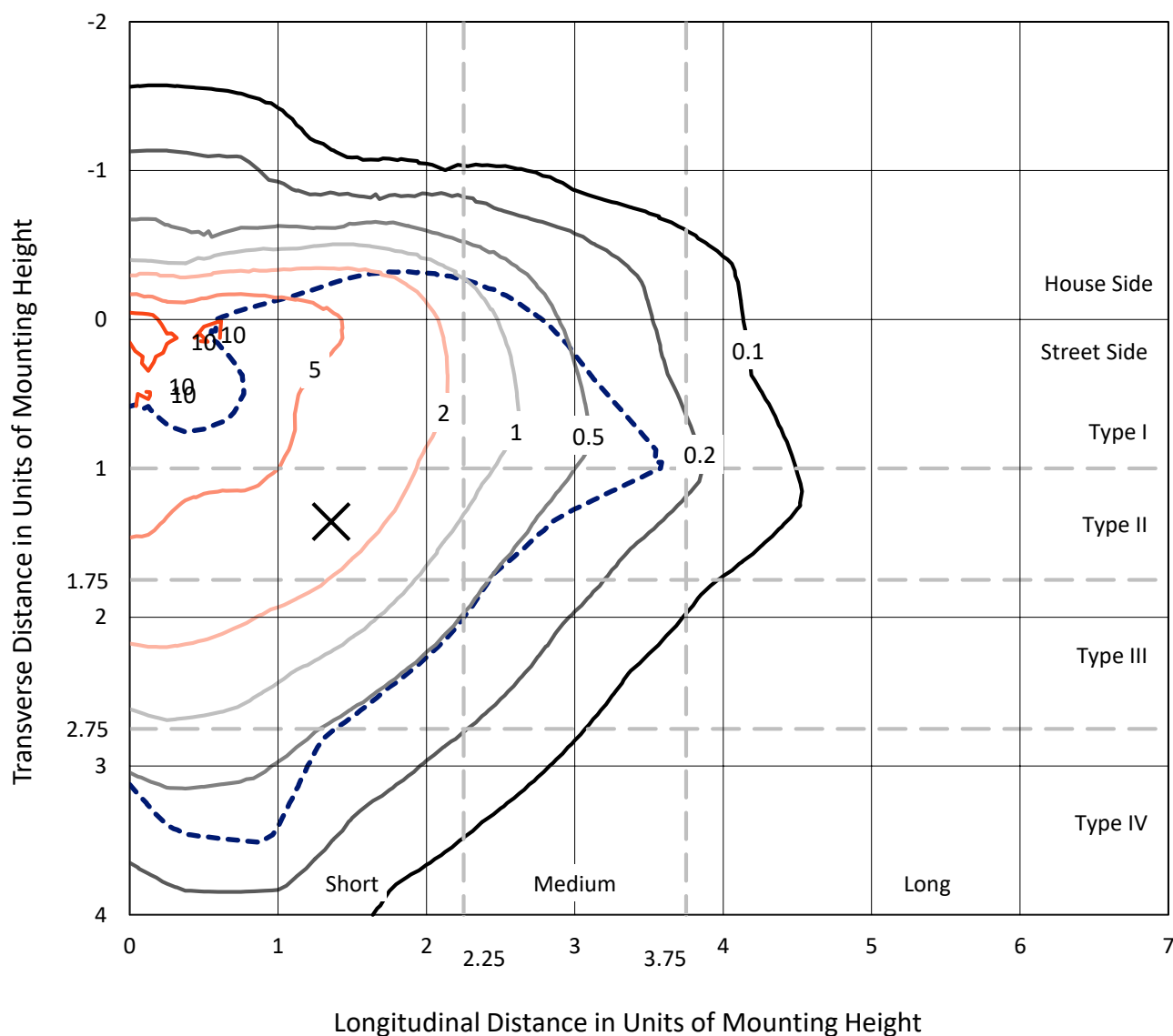


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

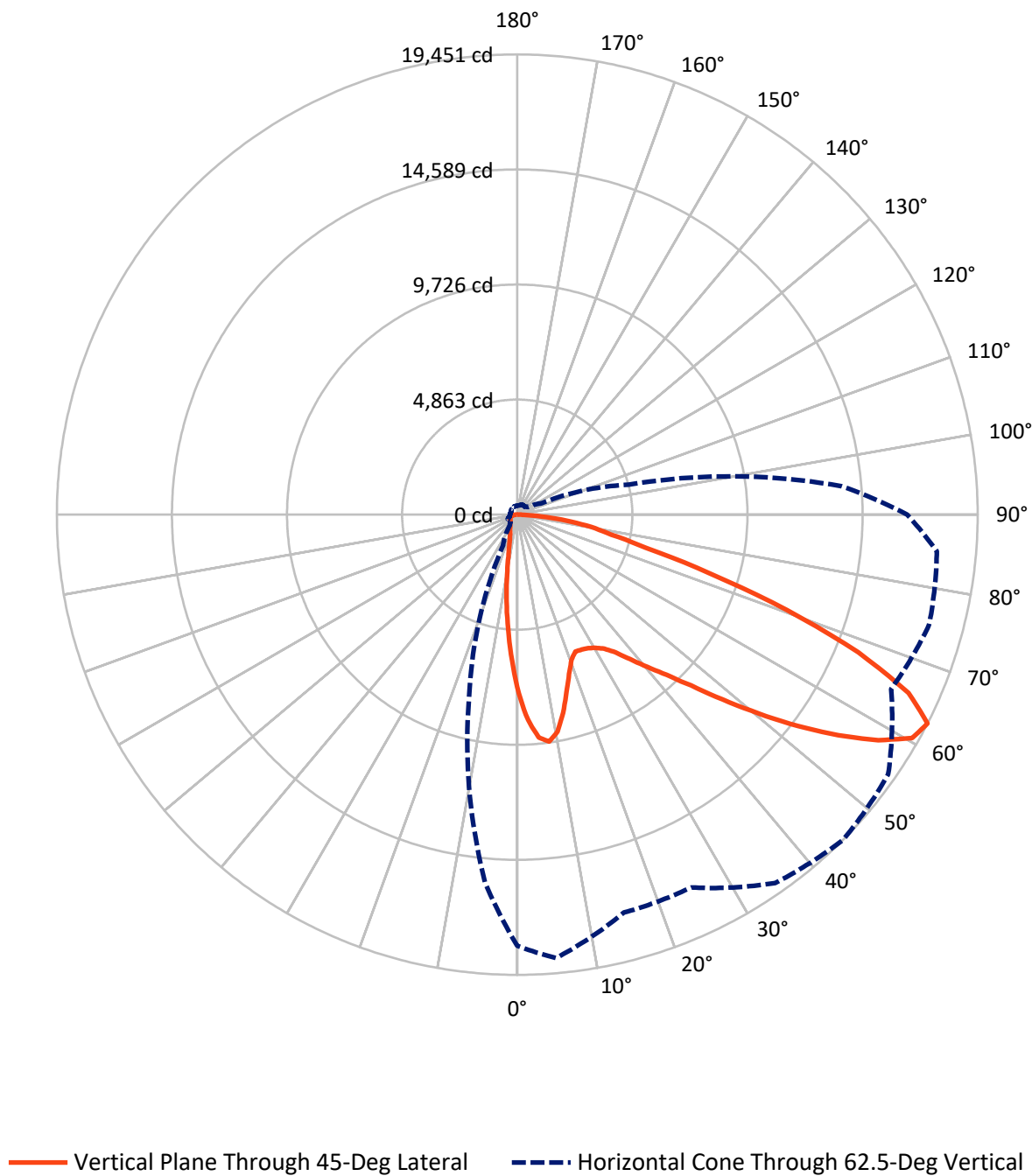


Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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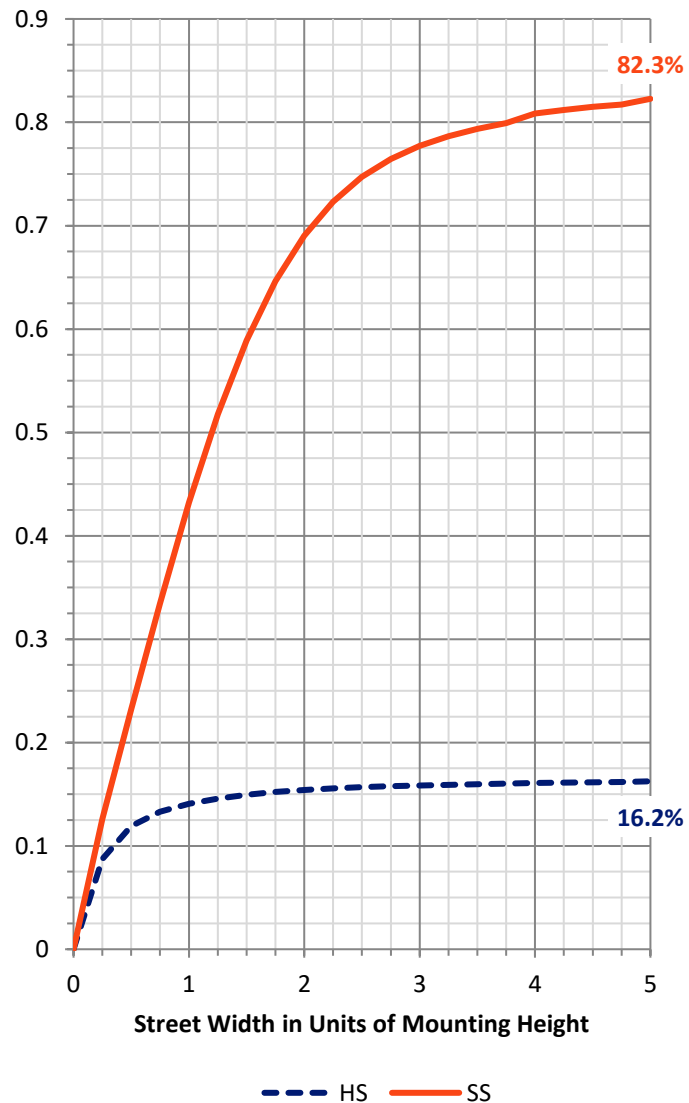
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3704.9	0.0	3704.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18683.4	0.0	18683.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	22388.3	0.0	22388.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	550.6	2.5
10°-20°	1009.7	4.5
20°-30°	1472.1	6.6
30°-40°	2267.3	10.1
40°-50°	3336.9	14.9
50°-60°	4894.5	21.9
60°-70°	5471.3	24.4
70°-80°	2678.7	12.0
80°-90°	707.2	3.2
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°	22388.3	100.0
0°-180°	22388.3	100.0

Coefficient of Utilization



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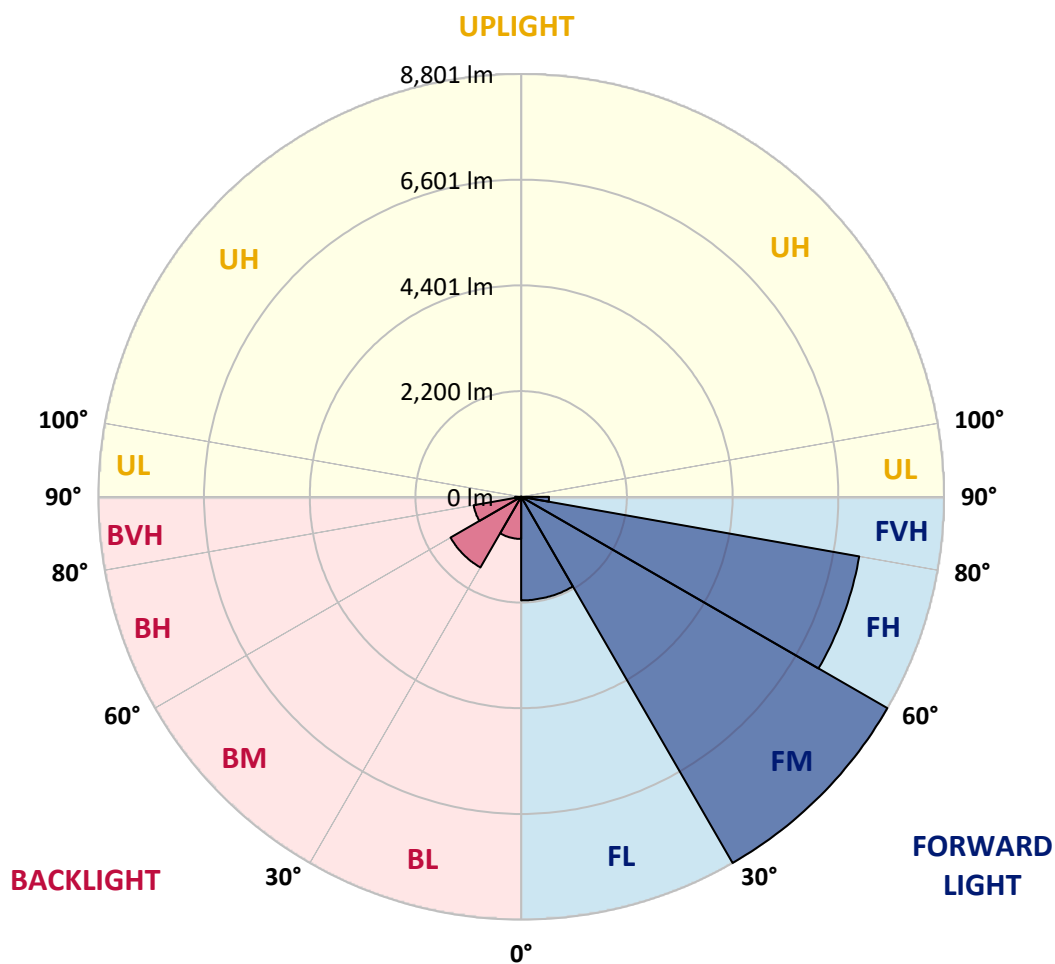
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7030-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2155.9	9.6			
FM	(30°-60°)	8801.0	39.3			
FH	(60°-80°)	7145.6	31.9			G3/7500
FVH	(80°-90°)	580.8	2.6			G4/750
BL	(0°-30°)	876.5	3.9	B2/1000		
BM	(30°-60°)	1697.6	7.6	B2/2500		
BH	(60°-80°)	1004.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	126.4	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0
2.5°	7859.3	7984.8	8229.9	8413.2	8636.0	8687.6	8759.0	8688.9	8564.5	8399.7	8345.4
5°	7390.4	7658.7	8253.2	8776.2	9241.4	9458.0	9518.3	9339.9	8979.3	8505.5	8216.3
7.5°	6638.5	7020.0	7824.9	8595.3	9280.8	9685.8	9675.9	9261.2	8597.8	7826.1	7362.1
10°	5989.9	6425.5	7348.6	8210.1	8937.4	9330.0	9178.7	8648.2	7857.0	6968.3	6465.0
12.5°	5626.9	6053.8	6990.5	7855.6	8463.7	8599.0	8483.3	7963.9	7218.1	6319.8	5879.1
15°	5564.0	6033.0	6847.8	7551.7	7892.6	7774.5	7636.5	7404.0	6877.3	6110.6	5651.4
17.5°	5836.1	6353.0	7011.3	7340.0	7282.1	7076.6	7037.3	7063.1	6936.4	6343.1	5813.9
20°	6357.9	6978.2	7401.6	7240.3	6818.3	6535.2	6544.9	6940.0	7315.4	6932.6	6328.3
22.5°	7090.2	7797.9	7963.9	7293.3	6622.5	6286.4	6367.7	7007.7	7919.6	7794.1	7022.4
25°	8037.7	8682.8	8563.3	7485.3	6642.2	6317.3	6382.5	7241.4	8633.4	8655.6	7881.5
27.5°	8955.9	9554.0	9066.7	7739.9	6723.4	6389.9	6476.1	7609.5	9315.3	9591.0	8863.6
30°	9672.1	10088.1	9266.1	7972.5	6883.5	6531.4	6638.5	7959.0	9625.4	10222.3	9619.3
32.5°	10265.5	10564.5	9583.5	8260.5	7177.6	6754.2	6942.5	8383.7	10072.2	10822.9	10359.0
35°	11023.5	11108.4	9978.6	8581.8	7631.6	7141.8	7375.6	8799.6	10497.9	11429.6	11087.5
37.5°	11912.1	11802.5	10351.6	9021.1	8218.7	7748.5	7941.8	9256.2	10848.8	12117.6	11832.1
40°	12790.9	12527.4	10819.2	9703.0	9075.3	8463.7	8692.5	9743.5	11176.1	12806.9	12559.5
42.5°	13537.9	13147.7	11280.7	10452.5	9872.7	9252.5	9525.8	10234.7	11488.7	13395.0	13190.8
45°	14090.5	13605.5	11720.1	11172.5	10971.9	10301.1	10430.3	10797.1	11827.2	13886.2	13710.2
47.5°	14584.0	14065.8	12217.3	11898.6	11933.0	11664.7	11456.7	11451.8	12225.9	14287.4	14201.2
50°	15244.8	14704.5	12751.4	12646.9	13375.4	13197.0	12737.9	12216.1	12730.6	14742.8	14732.8
52.5°	16155.6	15716.3	13403.7	13453.0	14721.8	14838.7	14270.2	13134.2	13520.7	15578.4	15519.3
55°	17232.5	16976.4	14292.3	14379.7	16373.5	16457.1	15892.2	14282.5	14682.5	16788.2	16624.6
57.5°	18073.0	18018.9	15267.1	15492.2	17606.6	17983.2	17463.9	15611.6	15992.0	17807.2	17396.1
60°	18407.8	18670.0	16304.5	16614.6	18747.5	19164.7	18709.3	16779.6	17152.5	18229.4	17343.3
62.5°	18226.8	18812.7	17409.7	17383.9	19002.3	19451.4	19131.6	17429.4	18012.8	17793.6	16465.7
65°	17391.3	18299.5	18050.9	17185.7	18130.9	18167.8	18064.5	17139.0	18215.8	16416.5	14769.7
67.5°	15571.0	16878.1	17206.5	15487.3	15780.2	15540.3	15366.8	15548.9	17157.4	14352.7	12413.0
70°	12682.5	14649.3	14806.7	12387.2	12254.2	12093.1	11747.2	12747.8	15068.9	11763.2	9849.4
72.5°	9325.2	11392.7	11876.4	9085.1	8469.8	8503.0	8229.9	9606.9	12251.8	8738.1	7353.4
75°	6379.9	8249.5	9292.0	6339.4	5600.9	5614.5	5580.1	6807.1	9758.4	6078.5	5502.6
77.5°	4660.7	5893.9	7007.7	4261.9	4137.6	4061.3	4042.9	4762.8	7481.5	4413.3	4273.0
80°	3740.2	4354.3	4707.4	2953.8	3176.5	3170.3	3068.2	3274.9	4886.0	3228.2	3196.2
82.5°	2594.4	3346.3	3814.0	2314.9	2143.8	2108.2	2132.8	2439.3	3453.3	2206.7	2098.4
85°	1368.6	2222.7	3777.1	2051.6	1272.6	1015.3	1262.7	1997.5	2991.8	1169.2	1024.0
87.5°	174.9	642.5	2500.8	818.5	502.1	270.8	599.4	1124.9	1921.1	238.7	208.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0
2.5°	8206.5	8042.7	7828.5	7630.4	7424.9	7220.6	6953.6	6786.2	6670.5	6648.3	6599.2
5°	8007.1	7463.1	7052.0	6696.3	6373.8	5918.5	5666.1	5457.0	5345.0	5333.9	5306.8
7.5°	7087.6	6336.9	5781.9	5278.6	4821.9	4454.0	4047.8	3858.3	3780.8	3799.3	3817.6
10°	6131.4	5292.1	4654.6	4140.2	3737.6	3427.6	3101.5	2881.0	2728.5	2697.7	2691.6
12.5°	5432.4	4511.8	3892.8	3529.7	3218.3	2926.6	2580.8	2321.1	2123.0	2055.2	2009.8
15°	5137.1	4130.3	3481.6	3090.3	2747.0	2376.5	2055.2	1783.3	1601.2	1542.0	1508.9
17.5°	5199.7	4024.4	3198.7	2697.7	2258.4	1871.9	1467.1	1234.4	1124.9	1096.5	1096.5
20°	5529.6	4004.8	2964.8	2335.9	1788.2	1340.3	1007.9	875.0	839.3	835.7	845.4
22.5°	5992.4	4073.6	2790.1	2022.1	1389.4	978.4	785.2	736.0	720.0	723.7	734.8
25°	6681.5	4306.2	2663.3	1742.6	1090.4	801.2	700.3	670.8	663.3	673.2	686.7
27.5°	7498.8	4538.8	2584.5	1532.3	920.6	732.2	665.8	635.1	639.9	652.3	664.7
30°	8216.3	4729.7	2460.2	1382.1	867.6	736.0	665.8	624.0	619.1	621.4	625.2
32.5°	8860.0	4858.9	2314.9	1239.3	748.3	653.5	621.4	615.3	588.3	578.4	579.6
35°	9415.0	4858.9	2227.6	1155.6	670.8	579.6	527.9	497.2	483.7	484.9	498.4
37.5°	9950.4	4761.6	2184.5	1108.9	628.9	551.3	505.9	478.8	460.3	456.6	459.1
40°	10422.9	4620.1	2135.3	1089.2	596.9	534.2	491.0	468.9	449.2	443.0	444.2
42.5°	10802.0	4505.7	2081.2	1063.3	577.2	521.8	481.2	461.5	439.3	433.2	432.0
45°	11211.8	4467.5	2009.8	1011.6	587.0	523.1	478.8	457.8	435.7	428.3	425.8
47.5°	11752.2	4586.9	1936.0	950.1	608.0	529.3	482.5	457.8	434.5	428.3	425.8
50°	12432.7	4867.5	1842.3	860.3	587.0	546.4	481.2	454.1	434.5	428.3	423.4
52.5°	13306.4	5246.5	1719.3	756.8	574.7	588.3	478.8	446.8	428.3	419.7	411.1
55°	14368.5	5556.7	1572.9	672.0	546.4	577.2	475.1	438.1	418.5	406.1	398.8
57.5°	15146.4	5668.7	1384.6	616.6	507.1	558.8	470.2	427.1	406.1	396.3	386.4
60°	14992.5	5452.0	1225.8	582.2	483.7	504.6	466.4	417.3	395.1	387.7	379.0
62.5°	13760.6	4886.0	1123.6	566.2	468.9	460.3	470.2	407.3	385.2	377.8	375.5
65°	11913.3	4050.2	1083.0	562.4	456.6	434.5	436.9	396.3	374.1	367.9	365.5
67.5°	9827.3	3268.8	1047.4	574.7	440.7	415.9	403.7	381.6	363.1	356.9	352.1
70°	7749.9	2718.7	1031.3	567.4	420.8	397.4	383.9	365.5	349.5	343.4	339.7
72.5°	6241.0	2296.5	1022.7	560.0	395.1	372.9	360.5	344.6	327.3	324.9	321.2
75°	5281.0	1805.5	936.6	536.6	365.5	343.4	334.8	320.0	302.7	302.7	300.3
77.5°	4073.6	1305.7	779.0	475.1	334.8	310.2	302.7	291.7	271.9	275.7	274.5
80°	3009.1	851.6	609.2	393.9	296.6	273.2	269.6	258.4	237.5	242.4	242.4
82.5°	2061.4	558.8	438.1	322.5	253.5	231.4	231.4	220.2	196.8	199.4	206.7
85°	1035.0	383.9	327.3	249.8	196.8	185.8	185.8	177.2	153.8	155.0	164.9
87.5°	315.1	231.4	216.6	178.4	141.5	139.1	133.0	126.7	112.0	110.8	116.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0
2.5°	6524.0	6453.8	6368.9	6181.9	6119.1	6115.5	6172.0	6112.9	6226.1	6178.2	6231.2
5°	5261.3	5192.4	5097.6	4858.9	4713.7	4615.2	4568.4	4430.6	4530.2	4457.7	4518.0
7.5°	3869.4	3885.4	3822.7	3682.2	3366.1	3207.2	3113.7	3030.0	3102.6	3095.2	3210.9
10°	2719.9	2762.9	2718.7	2577.1	2321.1	2233.7	2251.0	2284.2	2379.0	2428.2	2606.7
12.5°	1958.0	1955.6	1927.4	1800.5	1631.9	1641.7	1711.9	1769.8	1857.2	1908.9	2091.0
15°	1462.1	1439.9	1427.6	1324.2	1228.3	1249.2	1283.7	1289.8	1345.2	1375.9	1523.6
17.5°	1105.1	1116.3	1129.8	1056.0	983.4	969.7	942.7	909.5	925.5	931.7	1005.5
20°	877.5	921.8	955.0	903.3	829.5	790.2	755.6	733.4	733.4	732.2	753.3
22.5°	766.8	798.6	834.4	798.6	732.2	697.8	678.2	660.9	658.4	658.4	678.2
25°	706.5	729.9	764.3	739.6	690.4	664.7	646.2	624.0	615.3	613.0	626.4
27.5°	676.9	686.7	703.9	681.8	639.9	627.7	622.8	603.0	591.9	585.8	599.4
30°	626.4	624.0	625.2	603.0	569.8	568.5	577.2	580.9	577.2	576.1	596.9
32.5°	579.6	574.7	573.5	553.8	523.1	515.7	523.1	530.5	539.0	551.3	576.1
35°	520.6	532.8	540.3	523.1	486.1	464.1	455.4	441.9	434.5	434.5	462.7
37.5°	473.8	502.1	513.2	497.2	456.6	425.8	411.1	408.6	409.8	414.7	441.9
40°	457.8	478.8	488.6	472.5	432.0	403.7	395.1	392.6	395.1	402.4	429.5
42.5°	448.0	462.7	461.5	441.9	408.6	388.9	383.9	381.6	383.9	391.3	420.8
45°	439.3	449.2	439.3	415.9	385.2	375.5	376.6	375.5	377.8	385.2	413.5
47.5°	432.0	435.7	423.4	400.0	367.9	365.5	370.5	374.1	376.6	382.7	412.2
50°	420.8	420.8	409.8	385.2	353.2	354.4	360.5	369.2	370.5	377.8	401.2
52.5°	407.3	406.1	398.8	375.5	340.9	344.6	344.6	354.4	356.9	365.5	390.2
55°	396.3	393.9	390.2	367.9	329.9	336.0	332.2	336.0	342.1	350.7	377.8
57.5°	386.4	381.6	381.6	361.8	321.2	323.6	315.1	320.0	327.3	334.8	363.1
60°	376.6	371.7	374.1	353.2	307.7	305.3	301.5	311.4	313.8	322.5	350.7
62.5°	365.5	361.8	363.1	343.4	297.8	291.7	291.7	300.3	301.5	313.8	340.9
65°	356.9	352.1	350.7	333.6	286.8	279.3	283.1	286.8	289.2	301.5	327.3
67.5°	348.3	338.4	338.4	324.9	274.5	267.0	274.5	273.2	276.9	288.0	308.8
70°	337.2	323.6	324.9	318.7	262.1	253.5	259.7	258.4	260.9	268.3	289.2
72.5°	320.0	308.8	311.4	308.8	249.8	237.5	240.1	240.1	240.1	246.2	268.3
75°	297.8	289.2	296.6	302.7	235.0	217.9	220.2	220.2	216.6	220.2	247.4
77.5°	270.8	265.8	290.4	281.8	217.9	196.8	196.8	194.5	187.1	192.0	221.6
80°	241.3	237.5	268.3	236.3	198.2	171.1	168.6	162.5	155.0	158.8	188.3
82.5°	210.5	206.7	225.2	181.0	171.1	141.5	135.4	124.3	116.9	120.6	147.7
85°	172.3	172.3	173.5	136.6	130.4	108.2	100.9	86.1	77.6	80.0	105.9
87.5°	123.0	126.7	116.9	93.5	77.6	60.3	55.4	46.8	39.4	45.6	55.4
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0	7564.0
2.5°	6501.9	6637.3	6791.1	6988.0	7156.6	7433.6	7699.4	7859.3
5°	4861.4	5086.6	5367.2	5727.7	6063.8	6568.3	7069.2	7390.4
7.5°	3479.3	3720.5	4023.3	4473.6	4948.7	5592.3	6254.5	6638.5
10°	2878.7	3126.0	3380.8	3684.8	4073.6	4774.0	5556.7	5989.9
12.5°	2381.5	2646.0	2920.5	3240.5	3601.0	4226.2	5128.4	5626.9
15°	1822.7	2118.1	2441.7	2846.6	3298.3	4020.7	5022.5	5564.0
17.5°	1249.2	1579.1	1976.5	2476.3	3028.7	3954.3	5212.1	5836.1
20°	860.3	1100.2	1524.8	2110.7	2775.3	3945.7	5576.4	6357.9
22.5°	720.0	827.1	1137.2	1774.7	2584.5	4051.6	6141.3	7090.2
25°	665.8	729.9	908.3	1482.9	2445.4	4295.2	6919.1	8037.7
27.5°	633.8	691.6	824.6	1292.2	2335.9	4578.3	7676.0	8955.9
30°	646.2	705.2	801.2	1195.1	2187.0	4814.5	8348.0	9672.1
32.5°	582.2	608.0	686.7	1108.9	2079.9	5012.7	8936.2	10265.5
35°	495.9	541.5	613.0	1068.2	2082.4	5145.7	9577.4	11023.5
37.5°	472.5	518.1	569.8	1053.5	2110.7	5287.2	10313.4	11912.1
40°	457.8	499.7	544.0	1044.8	2137.7	5416.4	11034.6	12790.9
42.5°	448.0	486.1	541.5	1015.3	2151.4	5532.1	11627.8	13537.9
45°	446.8	486.1	551.3	985.8	2172.2	5656.4	12125.0	14090.5
47.5°	448.0	502.1	532.8	950.1	2172.2	5864.4	12708.4	14584.0
50°	443.0	529.3	513.2	899.6	2121.7	6258.2	13508.4	15244.8
52.5°	440.7	525.5	475.1	822.0	2034.4	6883.5	14533.5	16155.6
55°	434.5	507.1	448.0	706.5	1932.2	7565.2	15631.2	17232.5
57.5°	428.3	449.2	433.2	605.6	1774.7	8045.2	16387.0	18073.0
60°	479.9	392.6	420.8	556.2	1564.3	8176.9	16357.4	18407.8
62.5°	444.2	367.9	405.0	545.2	1416.5	7807.6	15601.7	18226.8
65°	348.3	352.1	388.9	577.2	1377.2	6829.2	14262.8	17391.3
67.5°	318.7	336.0	372.9	617.9	1380.8	5468.1	12261.6	15571.0
70°	300.3	318.7	354.4	638.7	1390.8	4076.1	9694.3	12682.5
72.5°	279.3	295.3	333.6	642.5	1326.7	2961.2	7471.7	9325.2
75°	254.8	269.6	304.0	560.0	1099.0	2054.1	5715.5	6379.9
77.5°	226.5	237.5	267.0	432.0	815.9	1314.4	4290.3	4660.7
80°	193.2	199.4	224.0	316.3	558.8	822.0	3394.3	3740.2
82.5°	155.0	157.6	173.5	237.5	363.1	527.9	2273.1	2594.4
85°	109.6	109.6	119.4	172.3	247.4	334.8	1234.4	1368.6
87.5°	51.7	52.9	52.9	94.7	129.3	169.8	284.3	174.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)