

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: P193015

Luminaire Tested: **GLEON-AF-07-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193015
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-07-LED-E1-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA 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: 23577.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 226
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



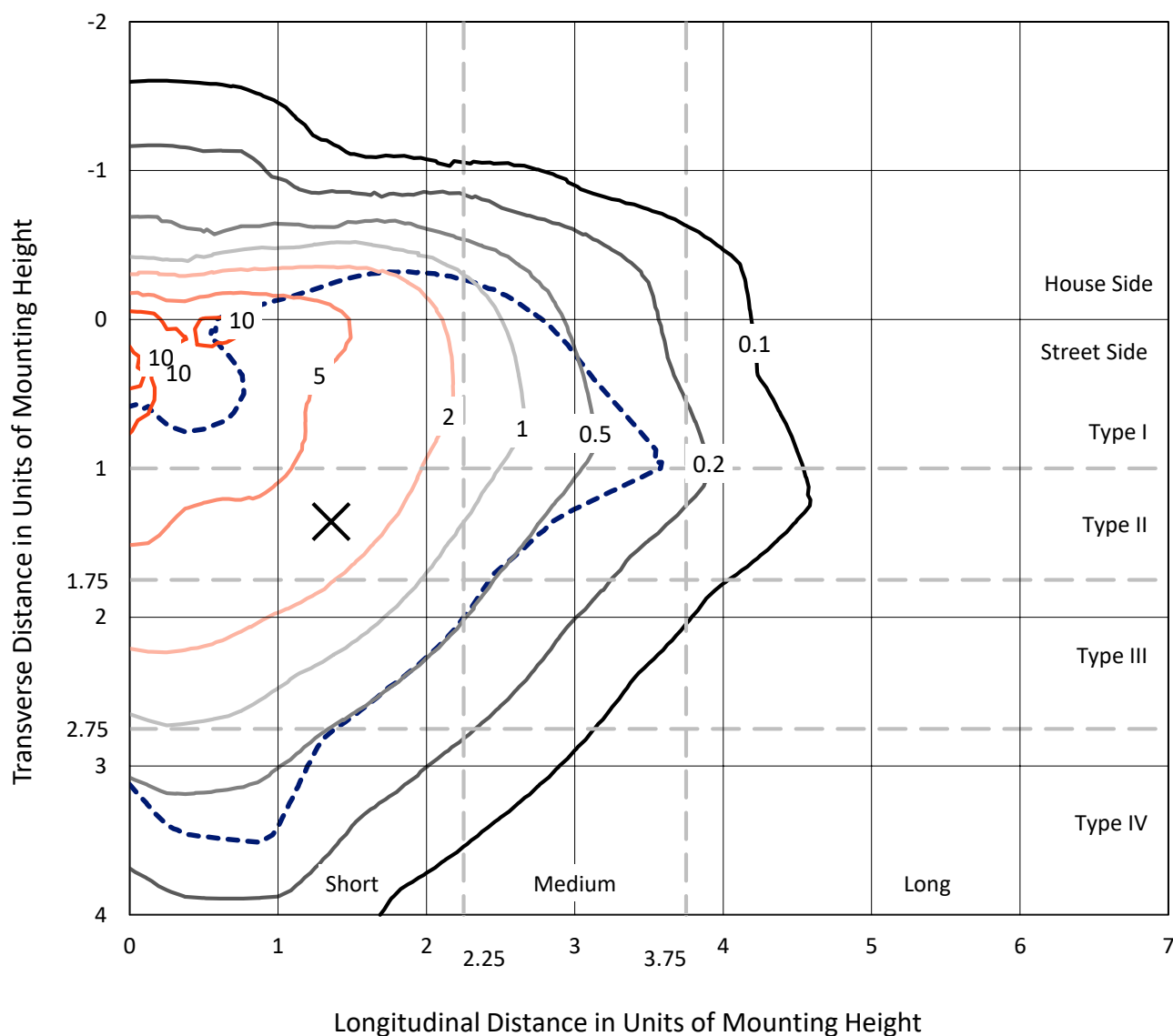
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

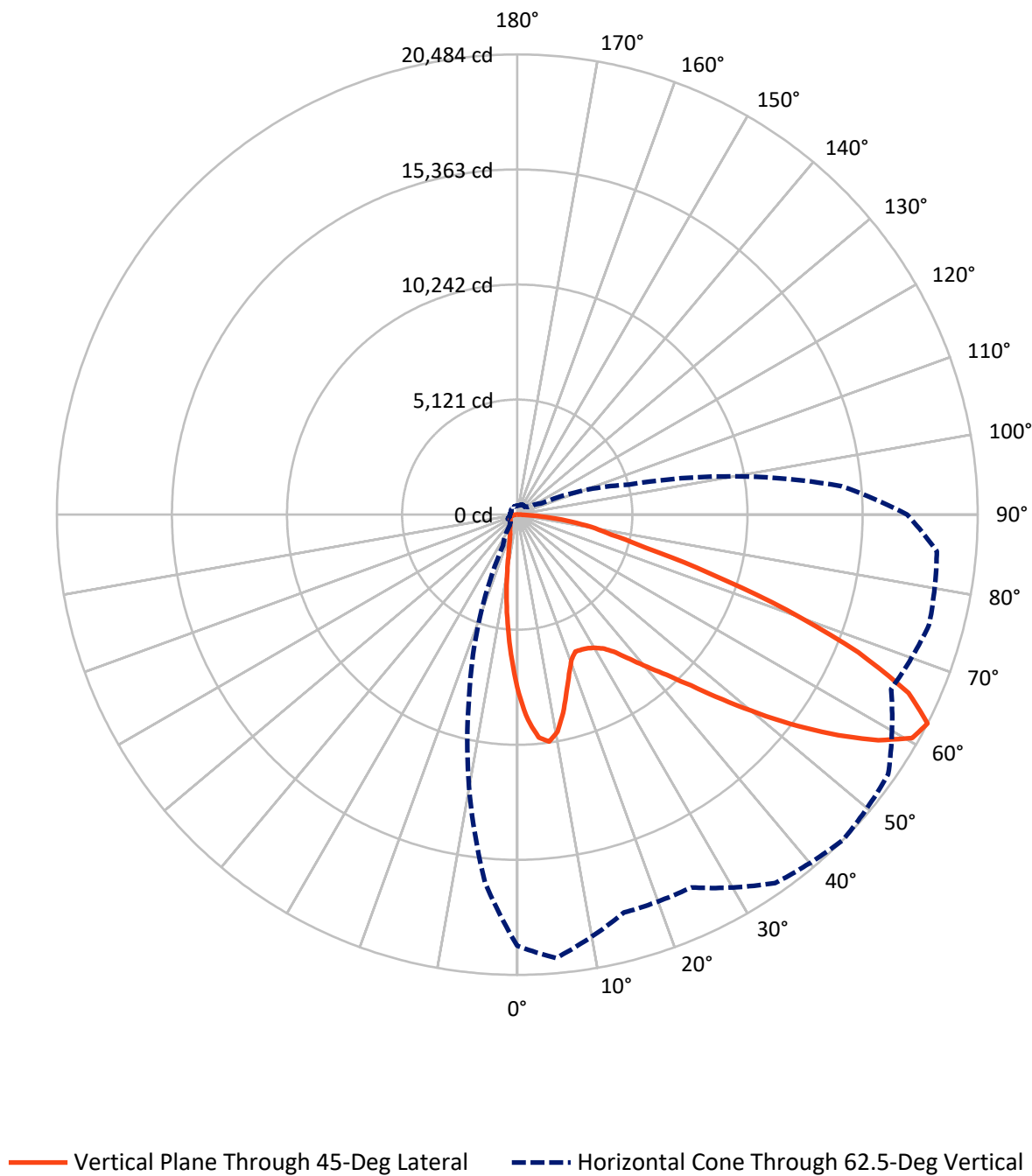


Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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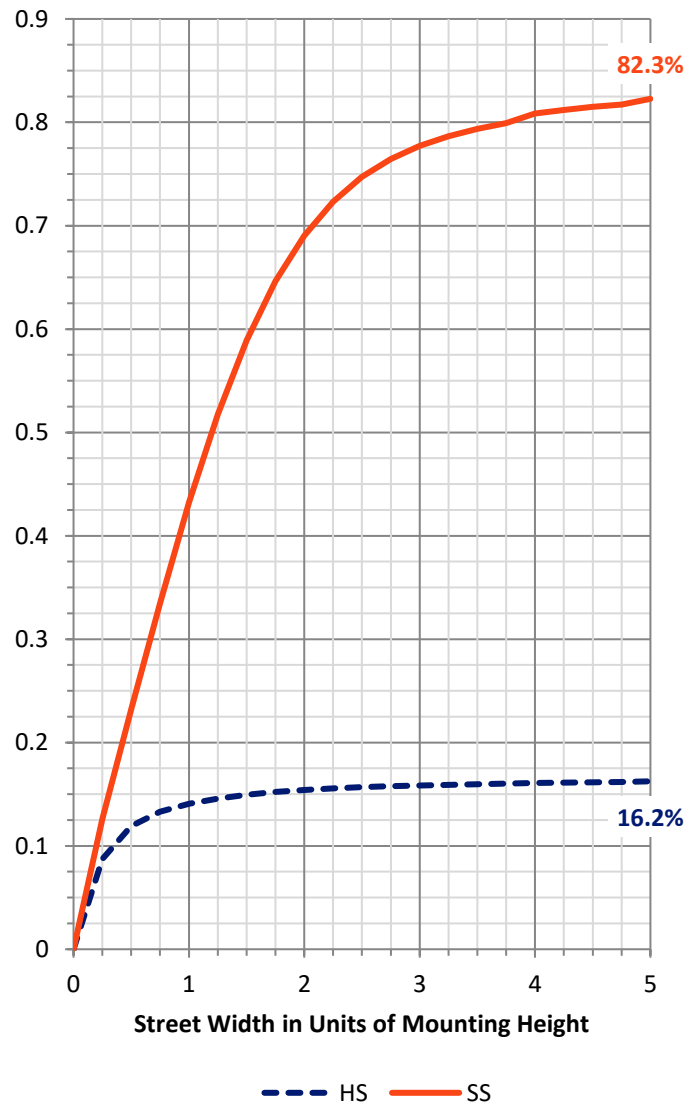
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3901.7	0.0	3901.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	19675.4	0.0	19675.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	23577.1	0.0	23577.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	579.9	2.5
10°-20°	1063.3	4.5
20°-30°	1550.3	6.6
30°-40°	2387.7	10.1
40°-50°	3514.0	14.9
50°-60°	5154.3	21.9
60°-70°	5761.8	24.4
70°-80°	2820.9	12.0
80°-90°	744.8	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°	23577.1	100.0
0°-180°	23577.1	100.0

Coefficient of Utilization



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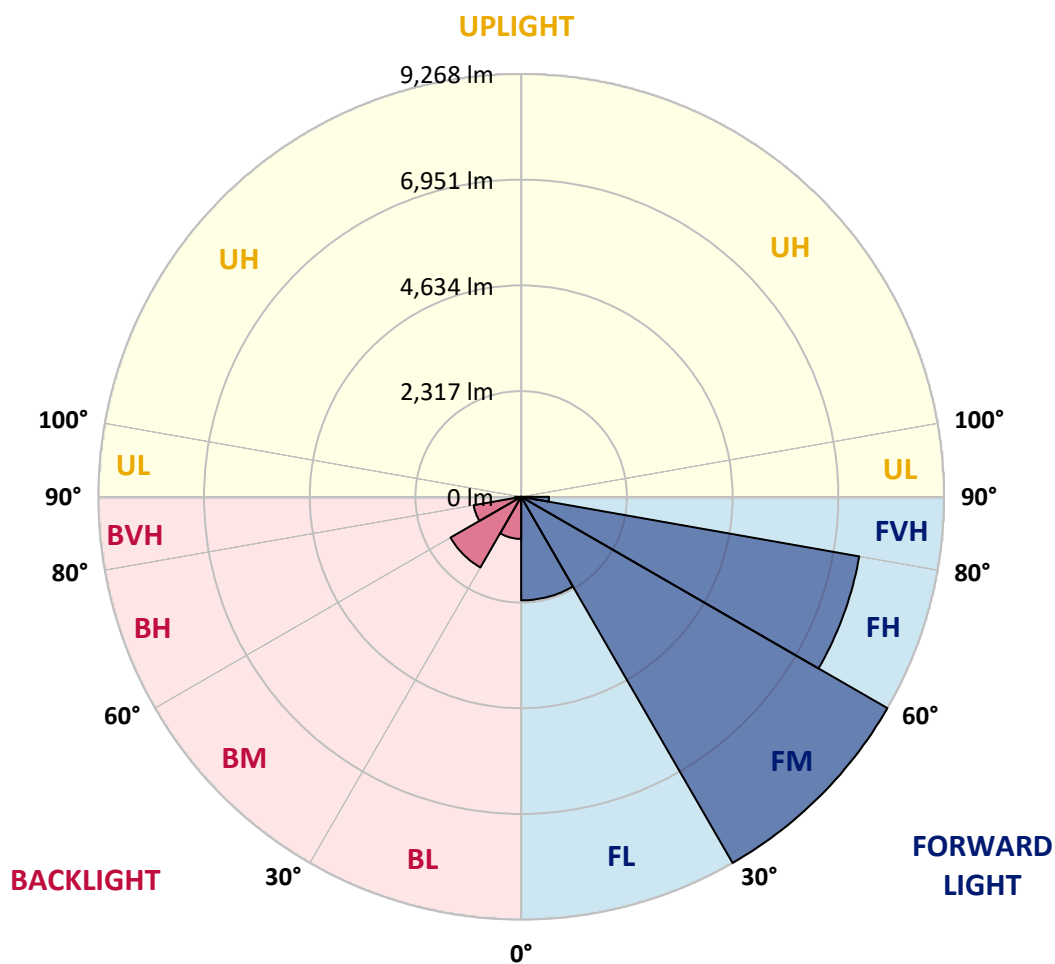
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2270.4	9.6			
FM	(30°-60°)	9268.4	39.3			
FH	(60°-80°)	7525.0	31.9			G4/12000
FVH	(80°-90°)	611.7	2.6			G4/750
BL	(0°-30°)	923.1	3.9	B2/1000		
BM	(30°-60°)	1787.7	7.6	B2/2500		
BH	(60°-80°)	1057.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	133.1	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°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	8276.6	8408.8	8666.8	8859.9	9094.5	9149.0	9224.1	9150.3	9019.4	8845.6	8788.6
5°	7782.9	8065.4	8691.3	9242.2	9732.2	9960.3	10023.8	9835.8	9456.1	8957.1	8652.5
7.5°	6991.0	7392.7	8240.4	9051.7	9773.6	10200.0	10189.6	9752.9	9054.4	8241.7	7753.0
10°	6308.0	6766.8	7738.9	8646.0	9412.0	9825.4	9666.0	9107.5	8274.1	7338.3	6808.2
12.5°	5925.5	6375.3	7361.7	8272.8	8913.1	9055.6	8933.8	8386.8	7601.3	6655.3	6191.2
15°	5859.5	6353.3	7211.3	7952.7	8311.7	8187.3	8042.0	7797.1	7242.4	6435.0	5951.6
17.5°	6146.0	6690.3	7383.6	7729.8	7668.8	7452.3	7410.8	7438.2	7304.6	6679.9	6122.6
20°	6695.4	7348.7	7794.5	7624.7	7180.2	6882.1	6892.5	7308.5	7703.8	7300.7	6664.4
22.5°	7466.7	8211.8	8386.8	7680.5	6974.1	6620.2	6705.8	7379.8	8340.2	8208.0	7395.3
25°	8464.6	9143.7	9018.0	7882.6	6994.9	6652.7	6721.4	7626.1	9091.9	9115.2	8300.0
27.5°	9431.5	10061.3	9548.0	8151.0	7080.4	6729.2	6819.9	8013.5	9809.9	10100.3	9334.2
30°	10185.8	10623.9	9758.1	8395.9	7249.0	6878.2	6991.0	8381.6	10136.5	10765.1	10130.0
32.5°	10810.4	11125.5	10092.4	8699.2	7558.7	7112.8	7311.1	8828.8	10607.0	11397.6	10909.0
35°	11608.8	11698.3	10508.4	9037.5	8036.9	7521.1	7767.4	9266.9	11055.4	12036.5	11676.2
37.5°	12544.6	12429.3	10901.3	9500.1	8655.1	8160.0	8363.5	9747.7	11424.8	12761.1	12460.4
40°	13470.0	13192.6	11393.7	10218.2	9557.1	8913.1	9154.1	10261.0	11769.5	13486.9	13226.3
42.5°	14256.7	13845.9	11879.8	11007.5	10397.0	9743.8	10031.5	10778.1	12098.8	14106.4	13891.2
45°	14838.6	14327.9	12342.4	11765.7	11554.3	10848.1	10984.2	11370.4	12455.1	14623.5	14438.2
47.5°	15358.3	14812.8	12866.1	12530.3	12566.7	12284.1	12065.1	12059.8	12875.1	15046.0	14955.3
50°	16054.3	15485.4	13428.5	13318.3	14085.6	13897.7	13414.2	12864.7	13406.4	15525.5	15515.2
52.5°	17013.5	16550.7	14115.4	14167.2	15503.5	15626.6	15027.8	13831.5	14238.5	16405.6	16343.3
55°	18147.4	17877.9	15051.1	15143.3	17242.9	17330.9	16736.0	15040.8	15462.1	17679.6	17507.1
57.5°	19032.6	18975.6	16077.6	16314.8	18541.6	18938.0	18391.2	16440.6	16841.0	18752.7	18319.8
60°	19385.3	19661.3	17170.2	17496.9	19742.9	20182.3	19702.7	17670.5	18063.2	19197.3	18264.1
62.5°	19194.6	19811.7	18334.1	18306.9	20011.2	20484.3	20147.3	18354.8	18969.1	18738.5	17340.0
65°	18314.7	19271.1	19009.4	18098.2	19093.6	19132.5	19023.5	18049.0	19182.9	17288.2	15554.0
67.5°	16397.7	17774.2	18120.2	16309.6	16618.2	16365.4	16182.6	16374.4	18068.4	15114.7	13072.1
70°	13356.0	15427.1	15592.9	13044.9	12904.9	12735.1	12370.9	13424.5	15869.1	12387.9	10372.4
72.5°	9820.2	11997.6	12507.0	9567.5	8919.5	8954.5	8666.8	10117.1	12902.3	9202.1	7744.0
75°	6718.8	8687.5	9785.3	6676.1	5898.4	5912.7	5876.4	7168.5	10276.5	6401.3	5794.7
77.5°	4908.2	6206.8	7379.8	4488.3	4357.4	4277.0	4257.7	5015.8	7878.8	4647.7	4500.0
80°	3938.7	4585.5	4957.4	3110.5	3345.2	3338.6	3231.2	3448.8	5145.3	3399.6	3365.8
82.5°	2732.1	3524.0	4016.5	2437.9	2257.8	2220.1	2246.1	2568.8	3636.8	2323.8	2209.8
85°	1441.2	2340.7	3977.6	2160.5	1340.2	1069.2	1329.8	2103.5	3150.7	1231.3	1078.3
87.5°	184.0	676.6	2633.5	861.8	528.9	285.1	631.2	1184.6	2023.2	251.4	219.1
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°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	8642.2	8469.8	8244.2	8035.6	7819.1	7604.0	7322.8	7146.5	7024.6	7001.4	6949.4
5°	8432.2	7859.3	7426.5	7051.9	6712.4	6232.8	5967.0	5746.7	5628.8	5617.1	5588.6
7.5°	7464.0	6673.4	6088.9	5558.8	5078.0	4690.5	4262.8	4063.2	3981.5	4001.0	4020.4
10°	6457.0	5573.1	4901.7	4360.0	3936.2	3609.5	3266.1	3034.1	2873.4	2841.0	2834.5
12.5°	5720.9	4751.3	4099.4	3717.1	3389.2	3081.9	2717.9	2444.3	2235.7	2164.4	2116.5
15°	5409.8	4349.6	3666.5	3254.4	2892.8	2502.7	2164.4	1877.9	1686.2	1623.9	1588.9
17.5°	5475.8	4238.1	3368.5	2841.0	2378.2	1971.4	1544.9	1299.9	1184.6	1154.8	1154.8
20°	5823.2	4217.4	3122.2	2460.0	1883.2	1411.4	1061.5	921.5	883.9	880.0	890.4
22.5°	6310.5	4289.9	2938.2	2129.5	1463.2	1030.5	826.9	775.0	758.1	762.1	773.8
25°	7036.3	4535.0	2804.6	1835.2	1148.4	843.7	737.5	706.4	698.6	709.0	723.2
27.5°	7896.9	4779.9	2721.7	1613.6	969.4	771.2	701.1	668.7	673.9	686.9	700.0
30°	8652.5	4980.8	2590.9	1455.5	913.7	775.0	701.1	657.0	651.9	654.5	658.4
32.5°	9330.3	5116.8	2437.9	1305.1	788.0	688.3	654.5	648.0	619.5	609.1	610.4
35°	9914.8	5116.8	2345.9	1217.0	706.4	610.4	556.0	523.6	509.3	510.7	524.9
37.5°	10478.6	5014.5	2300.6	1167.8	662.3	580.6	532.6	504.1	484.7	480.8	483.5
40°	10976.4	4865.5	2248.7	1147.0	628.6	562.4	517.2	493.9	473.1	466.5	467.8
42.5°	11375.5	4744.9	2191.6	1119.8	607.8	549.6	506.8	485.9	462.7	456.2	454.9
45°	11807.1	4704.7	2116.5	1065.4	618.2	550.7	504.1	482.2	458.8	451.0	448.4
47.5°	12376.2	4830.5	2038.7	1000.6	640.3	557.3	508.0	482.2	457.5	451.0	448.4
50°	13092.9	5125.9	1940.2	906.0	618.2	575.5	506.8	478.2	457.5	451.0	445.9
52.5°	14013.0	5525.1	1810.7	797.0	605.3	619.5	504.1	470.5	451.0	442.0	432.8
55°	15131.6	5851.7	1656.4	707.7	575.5	607.8	500.3	461.4	440.7	427.7	419.9
57.5°	15950.6	5969.7	1458.1	649.3	533.9	588.4	495.1	449.7	427.7	417.4	407.0
60°	15788.6	5741.6	1290.9	613.1	509.3	531.4	491.2	439.3	416.1	408.3	399.3
62.5°	14491.3	5145.3	1183.3	596.2	493.9	484.7	495.1	429.0	405.7	397.9	395.3
65°	12545.9	4265.4	1140.5	592.3	480.8	457.5	460.1	417.4	394.0	387.6	384.9
67.5°	10349.0	3442.3	1103.0	605.3	464.1	438.0	425.1	401.7	382.3	375.9	370.7
70°	8161.3	2863.0	1086.1	597.5	443.3	418.7	404.4	384.9	368.1	361.6	357.8
72.5°	6572.4	2418.5	1077.1	589.7	416.1	392.7	379.7	362.8	344.7	342.2	338.2
75°	5561.4	1901.3	986.3	565.1	384.9	361.6	352.6	336.9	318.8	318.8	316.2
77.5°	4289.9	1375.1	820.4	500.3	352.6	326.5	318.8	307.1	286.5	290.3	289.0
80°	3168.8	896.9	641.6	414.7	312.4	287.7	283.8	272.2	250.1	255.3	255.3
82.5°	2170.9	588.4	461.4	339.6	267.0	243.6	243.6	231.9	207.4	210.0	217.8
85°	1090.0	404.4	344.7	263.1	207.4	195.7	195.7	186.7	162.0	163.4	173.7
87.5°	331.8	243.6	228.2	187.9	149.0	146.4	140.0	133.6	117.9	116.7	123.1
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°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	6870.4	6796.6	6707.1	6510.1	6444.0	6440.2	6499.8	6437.5	6556.7	6506.3	6562.0
5°	5540.6	5468.1	5368.4	5116.8	4963.8	4860.2	4811.0	4665.8	4770.8	4694.4	4757.8
7.5°	4074.9	4091.6	4025.5	3877.8	3544.7	3377.5	3279.1	3190.9	3267.4	3259.6	3381.5
10°	2864.3	2909.7	2863.0	2714.0	2444.3	2352.4	2370.5	2405.5	2505.4	2557.1	2745.0
12.5°	2062.0	2059.4	2029.6	1896.0	1718.5	1728.9	1802.8	1863.8	1955.7	2010.2	2202.0
15°	1539.7	1516.4	1503.4	1394.5	1293.5	1315.5	1351.7	1358.3	1416.5	1449.0	1604.5
17.5°	1163.8	1175.5	1189.9	1112.0	1035.6	1021.2	992.7	957.7	974.6	981.1	1058.8
20°	924.2	970.8	1005.7	951.3	873.5	832.1	795.7	772.5	772.5	771.2	793.2
22.5°	807.4	841.2	878.8	841.2	771.2	734.9	714.1	696.0	693.4	693.4	714.1
25°	743.9	768.5	804.8	778.9	727.1	700.0	680.4	657.0	648.0	645.4	659.7
27.5°	712.8	723.2	741.4	718.1	673.9	661.0	655.8	635.2	623.5	616.9	631.2
30°	659.7	657.0	658.4	635.2	600.1	598.7	607.8	611.8	607.8	606.6	628.6
32.5°	610.4	605.3	603.9	583.2	550.7	543.0	550.7	558.7	567.7	580.6	606.6
35°	548.3	561.1	569.0	550.7	512.0	488.6	479.5	465.3	457.5	457.5	487.3
37.5°	499.0	528.9	540.5	523.6	480.8	448.4	432.8	430.3	431.6	436.8	465.3
40°	482.2	504.1	514.5	497.6	454.9	425.1	416.1	413.4	416.1	423.8	452.4
42.5°	471.8	487.3	485.9	465.3	430.3	409.5	404.4	401.7	404.4	412.1	443.3
45°	462.7	473.1	462.7	438.0	405.7	395.3	396.6	395.3	397.9	405.7	435.5
47.5°	454.9	458.8	445.9	421.2	387.6	384.9	390.2	394.0	396.6	403.0	434.2
50°	443.3	443.3	431.6	405.7	371.9	373.2	379.7	388.9	390.2	397.9	422.5
52.5°	429.0	427.7	419.9	395.3	359.0	362.8	362.8	373.2	375.9	384.9	410.9
55°	417.4	414.7	410.9	387.6	347.3	353.8	349.9	353.8	360.3	369.4	397.9
57.5°	407.0	401.7	401.7	381.1	338.2	340.9	331.8	336.9	344.7	352.6	382.3
60°	396.6	391.3	394.0	371.9	324.1	321.4	317.5	327.9	330.5	339.6	369.4
62.5°	384.9	381.1	382.3	361.6	313.7	307.1	307.1	316.2	317.5	330.5	359.0
65°	375.9	370.7	369.4	351.3	302.0	294.2	298.1	302.0	304.7	317.5	344.7
67.5°	366.8	356.4	356.4	342.2	289.0	281.3	289.0	287.7	291.6	303.3	325.3
70°	355.1	340.9	342.2	335.7	276.1	267.0	273.4	272.2	274.8	282.6	304.7
72.5°	336.9	325.3	327.9	325.3	263.1	250.1	252.7	252.7	252.7	259.2	282.6
75°	313.7	304.7	312.4	318.8	247.6	229.5	231.9	231.9	228.2	231.9	260.5
77.5°	285.1	279.9	305.8	296.7	229.5	207.4	207.4	204.8	197.0	202.2	233.3
80°	254.0	250.1	282.6	248.9	208.6	180.2	177.5	171.1	163.4	167.1	198.3
82.5°	221.6	217.8	237.2	190.5	180.2	149.0	142.6	130.9	123.1	127.1	155.4
85°	181.5	181.5	182.8	143.9	137.3	114.0	106.3	90.6	81.6	84.2	111.5
87.5°	129.6	133.6	123.1	98.6	81.6	63.5	58.4	49.2	41.5	48.0	58.4
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°	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5	7965.5
2.5°	6847.1	6989.7	7151.7	7359.0	7536.6	7828.2	8108.1	8276.6
5°	5119.5	5356.7	5652.1	6031.8	6385.6	6917.1	7444.6	7782.9
7.5°	3664.0	3918.0	4236.8	4711.2	5211.4	5889.3	6586.5	6991.0
10°	3031.5	3292.0	3560.3	3880.5	4289.9	5027.4	5851.7	6308.0
12.5°	2507.8	2786.5	3075.5	3412.5	3792.3	4450.6	5400.6	5925.5
15°	1919.4	2230.5	2571.4	2997.7	3473.5	4234.3	5289.2	5859.5
17.5°	1315.5	1662.8	2081.5	2607.7	3189.6	4164.2	5488.8	6146.0
20°	906.0	1158.7	1605.8	2222.8	2922.5	4155.1	5872.4	6695.4
22.5°	758.1	870.9	1197.6	1868.9	2721.7	4266.7	6467.4	7466.7
25°	701.1	768.5	956.4	1561.8	2575.2	4523.3	7286.5	8464.6
27.5°	667.5	728.4	868.4	1360.9	2460.0	4821.4	8083.5	9431.5
30°	680.4	742.6	843.7	1258.4	2303.0	5070.1	8791.2	10185.8
32.5°	613.1	640.3	723.2	1167.8	2190.3	5278.9	9410.7	10810.4
35°	522.3	570.3	645.4	1125.0	2193.0	5418.8	10085.9	11608.8
37.5°	497.6	545.6	600.1	1109.4	2222.8	5567.9	10861.0	12544.6
40°	482.2	526.2	572.8	1100.4	2251.3	5704.0	11620.5	13470.0
42.5°	471.8	512.0	570.3	1069.2	2265.5	5825.8	12245.2	14256.7
45°	470.5	512.0	580.6	1038.2	2287.6	5956.7	12768.8	14838.6
47.5°	471.8	528.9	561.1	1000.6	2287.6	6175.8	13383.1	15358.3
50°	466.5	557.3	540.5	947.4	2234.5	6590.5	14225.5	16054.3
52.5°	464.1	553.4	500.3	865.8	2142.3	7249.0	15305.1	17013.5
55°	457.5	533.9	471.8	743.9	2034.9	7966.8	16461.3	18147.4
57.5°	451.0	473.1	456.2	637.6	1868.9	8472.4	17257.1	19032.6
60°	505.5	413.4	443.3	585.8	1647.3	8611.0	17226.0	19385.3
62.5°	467.8	387.6	426.4	574.1	1491.7	8222.2	16430.2	19194.6
65°	366.8	370.7	409.5	607.8	1450.3	7191.9	15020.1	18314.7
67.5°	335.7	353.8	392.7	650.6	1454.1	5758.4	12912.7	16397.7
70°	316.2	335.7	373.2	672.7	1464.5	4292.6	10209.0	13356.0
72.5°	294.2	311.1	351.3	676.6	1397.2	3118.4	7868.5	9820.2
75°	268.2	283.8	320.1	589.7	1157.4	2163.2	6018.9	6718.8
77.5°	238.5	250.1	281.3	454.9	859.4	1384.2	4518.1	4908.2
80°	203.4	210.0	235.9	333.1	588.4	865.8	3574.5	3938.7
82.5°	163.4	165.8	182.8	250.1	382.3	556.0	2393.9	2732.1
85°	115.4	115.4	125.7	181.5	260.5	352.6	1299.9	1441.2
87.5°	54.4	55.7	55.7	99.8	136.1	178.8	299.4	184.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)