

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: P193018

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193018
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-10-LED-E1-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 32994.1 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

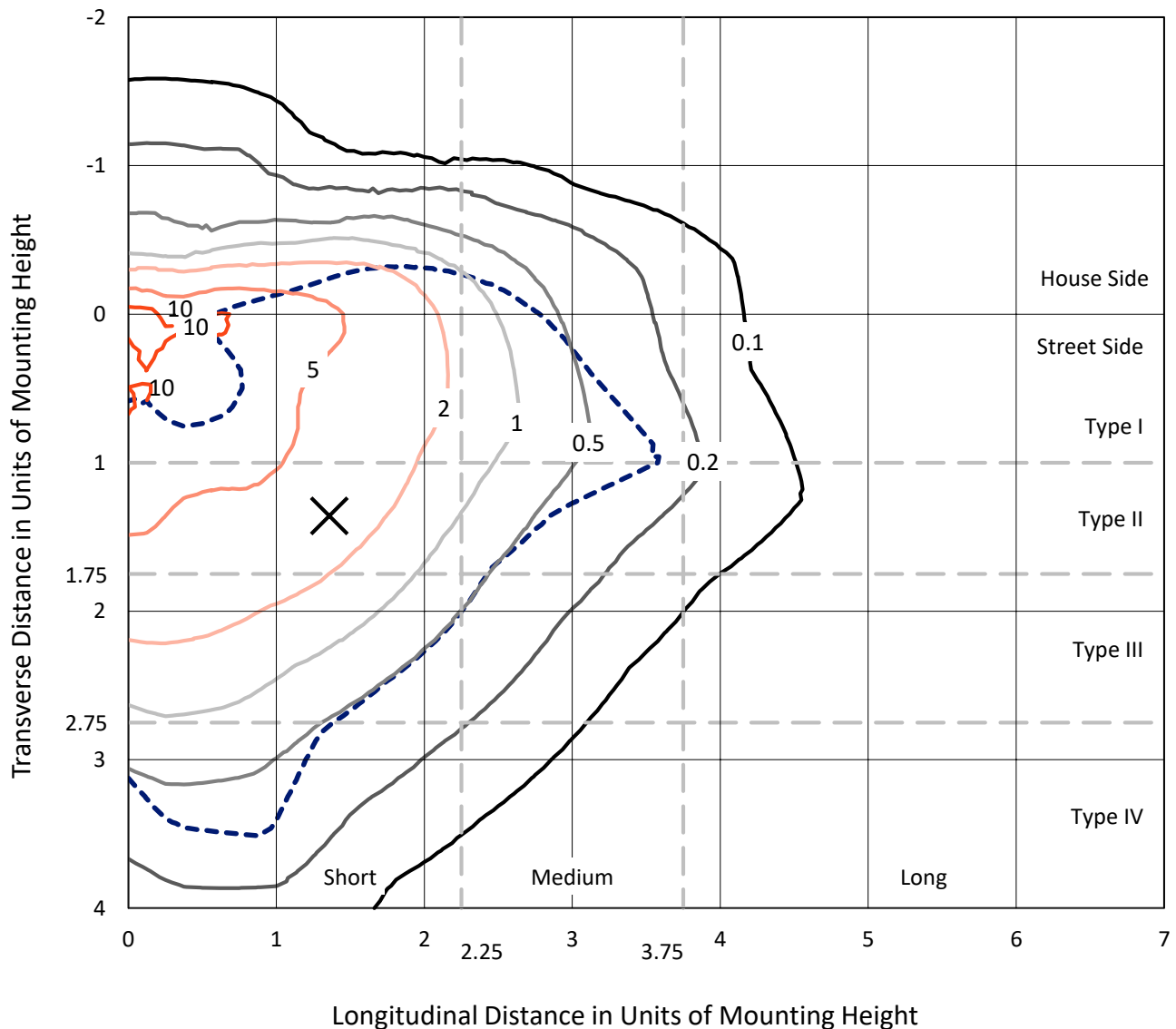


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

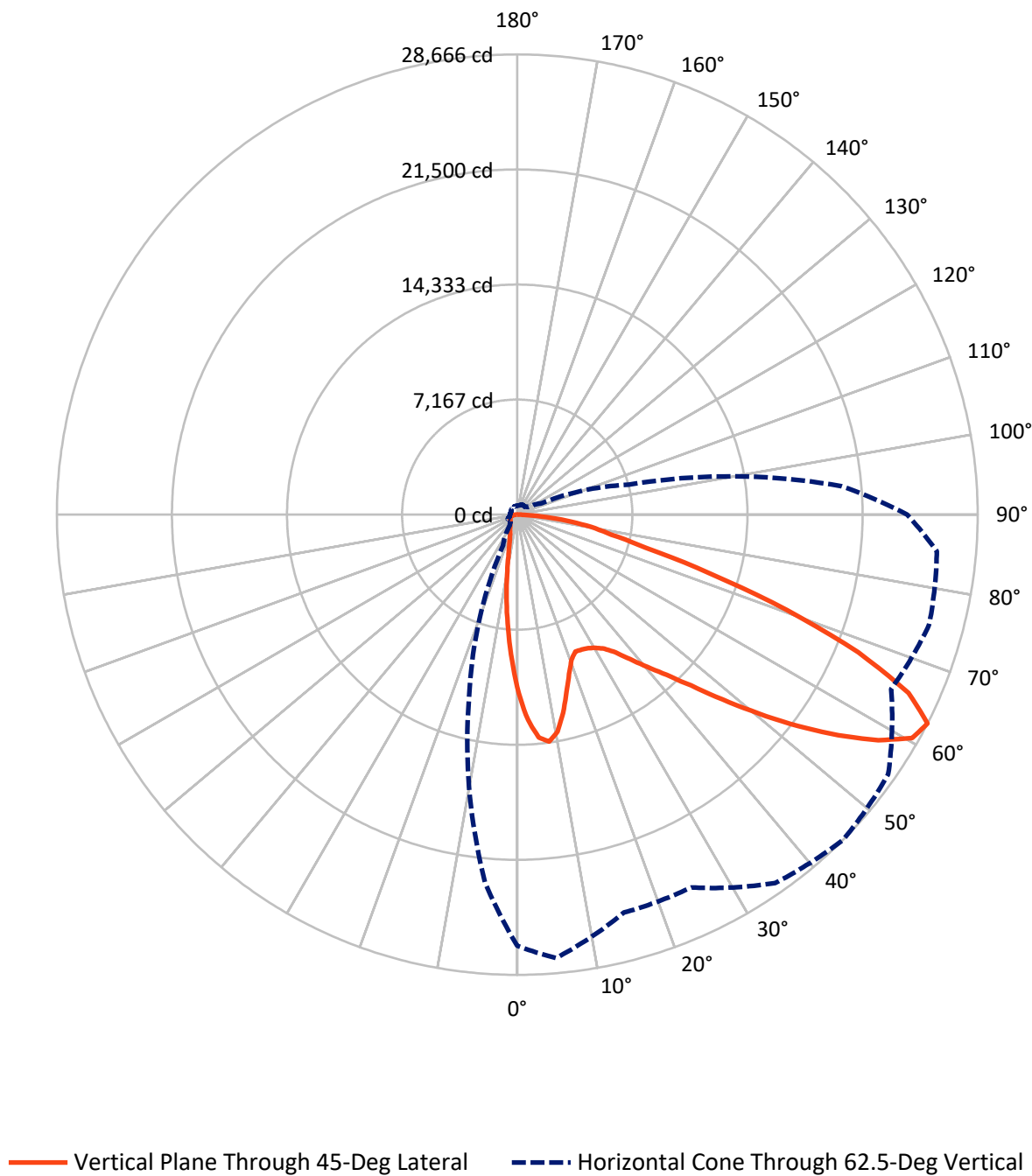


Based on 30 foot mounting height. Maximum calculated value = 14.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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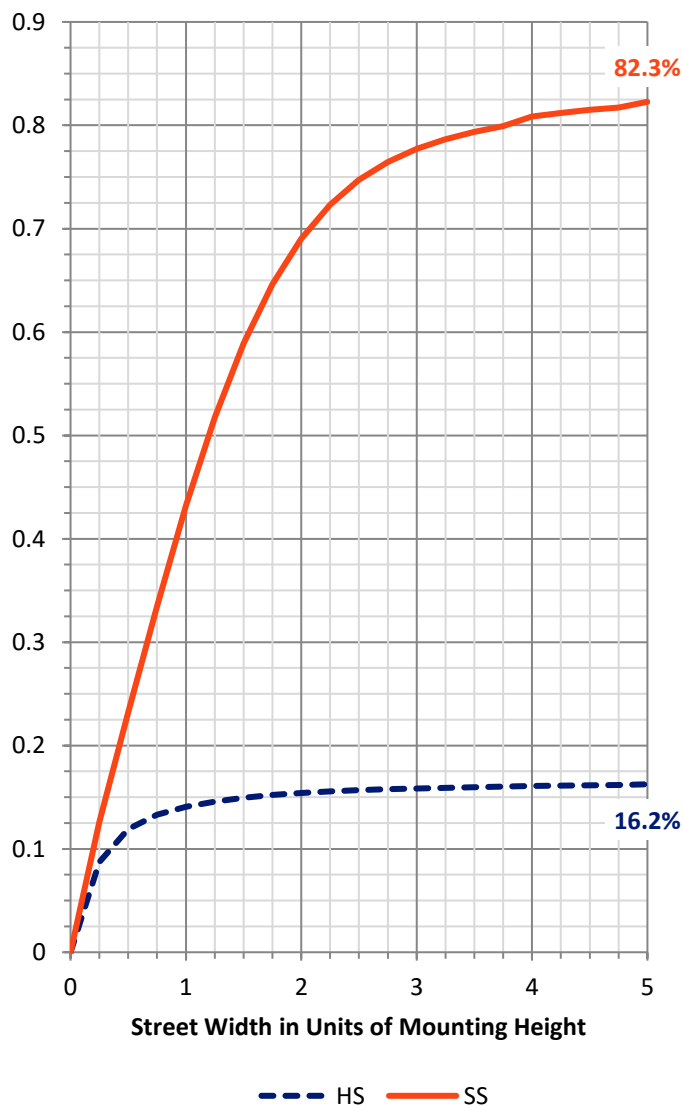
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5460.1	0.0	5460.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	27534.0	0.0	27534.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	32994.1	0.0	32994.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.5	2.5
10°-20°	1488.0	4.5
20°-30°	2169.5	6.6
30°-40°	3341.4	10.1
40°-50°	4917.6	14.9
50°-60°	7213.1	21.9
60°-70°	8063.2	24.4
70°-80°	3947.6	12.0
80°-90°	1042.3	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°	32994.1	100.0
0°-180°	32994.1	100.0

Coefficient of Utilization



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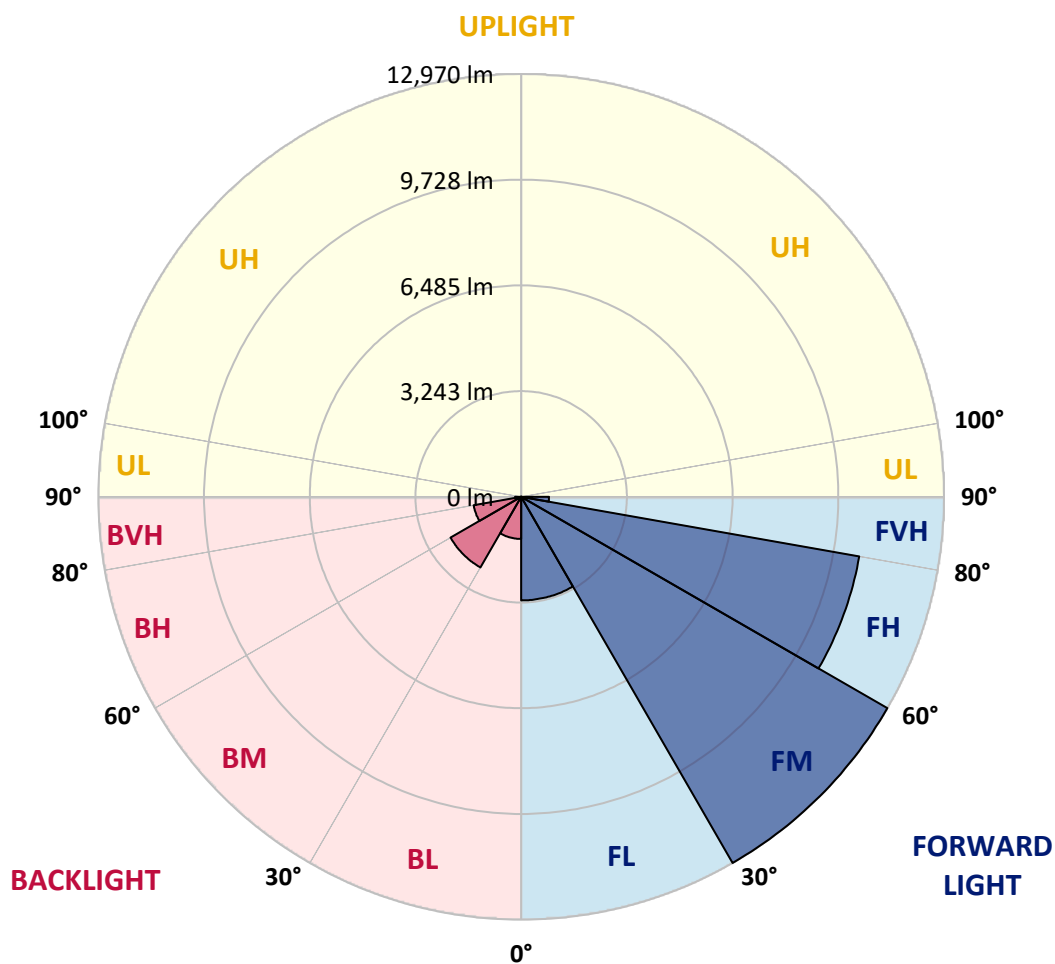
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3177.2	9.6			
FM	(30°-60°)	12970.3	39.3			
FH	(60°-80°)	10530.6	31.9			G4/12000
FVH	(80°-90°)	856.0	2.6			G5
BL	(0°-30°)	1291.8	3.9	B3/2500		
BM	(30°-60°)	2501.8	7.6	B3/5000		
BH	(60°-80°)	1480.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	186.3	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	11582.5	11767.4	12128.5	12398.6	12726.9	12803.1	12908.3	12804.9	12621.7	12378.7	12298.9
5°	10891.4	11286.8	12162.8	12933.7	13619.2	13938.5	14027.4	13764.4	13232.9	12534.7	12108.4
7.5°	9783.3	10345.5	11531.7	12667.1	13677.3	14274.0	14259.5	13648.3	12670.7	11533.5	10849.8
10°	8827.4	9469.5	10829.8	12099.4	13171.3	13749.8	13526.9	12745.1	11578.9	10269.4	9527.5
12.5°	8292.3	8921.8	10301.9	11577.0	12473.0	12672.6	12502.0	11736.6	10637.5	9313.5	8664.1
15°	8199.9	8890.9	10091.6	11129.0	11631.4	11457.4	11254.2	10911.4	10135.1	9005.1	8328.7
17.5°	8600.7	9362.4	10332.8	10817.1	10731.9	10428.9	10370.9	10409.0	10222.2	9348.0	8568.1
20°	9369.7	10283.8	10907.8	10670.1	10048.0	9630.8	9645.4	10227.6	10780.8	10216.8	9326.2
22.5°	10448.9	11491.8	11736.6	10748.2	9759.7	9264.5	9384.3	10327.4	11671.4	11486.3	10349.1
25°	11845.5	12795.9	12620.0	11031.2	9788.7	9309.9	9406.0	10672.0	12723.4	12756.0	11615.2
27.5°	13198.5	14080.0	13361.8	11406.5	9908.4	9416.8	9543.8	11214.3	13728.1	14134.5	13062.5
30°	14254.1	14867.1	13655.6	11749.3	10144.1	9625.5	9783.3	11729.4	14185.2	15064.8	14176.2
32.5°	15128.4	15569.1	14123.5	12173.7	10577.7	9953.7	10231.2	12355.1	14843.5	15950.0	15266.1
35°	16245.5	16370.8	14705.7	12647.2	11246.9	10525.1	10869.6	12968.2	15471.1	16844.1	16339.9
37.5°	17555.1	17393.6	15255.4	13294.6	12112.1	11419.2	11704.0	13641.0	15988.0	17858.0	17437.2
40°	18850.1	18462.0	15944.5	14299.5	13374.4	12473.0	12810.4	14359.3	16470.5	18873.7	18509.2
42.5°	19951.1	19376.0	16624.7	15404.0	14549.7	13635.7	14038.2	15083.0	16931.2	19740.6	19439.5
45°	20765.4	20050.8	17272.1	16465.1	16169.4	15180.9	15371.3	15911.9	17429.9	20464.4	20205.0
47.5°	21492.7	20729.1	18005.0	17535.1	17586.0	17190.6	16884.1	16876.7	18017.6	21055.6	20928.6
50°	22466.7	21670.5	18792.0	18637.9	19711.6	19448.5	18772.2	18003.0	18761.2	21726.6	21712.2
52.5°	23808.8	23161.4	19753.3	19825.8	21695.8	21868.1	21030.2	19356.2	19925.6	22958.2	22871.1
55°	25395.9	25018.6	21062.9	21191.6	24129.9	24253.2	23420.7	21048.4	21637.8	24741.1	24499.9
57.5°	26634.6	26554.8	22499.3	22831.3	25947.2	26502.3	25736.8	23007.2	23567.7	26242.9	25637.0
60°	27128.0	27514.3	24028.3	24485.3	27628.6	28243.4	27572.3	24728.4	25278.0	26865.0	25559.1
62.5°	26861.4	27724.6	25657.1	25618.9	28004.0	28666.1	28194.5	25686.1	26545.7	26222.9	24265.9
65°	25629.8	26968.4	26602.0	25327.0	26719.9	26774.3	26621.9	25258.0	26845.0	24193.4	21766.6
67.5°	22947.2	24873.5	25357.8	22823.9	23255.7	22902.0	22646.2	22914.7	25285.3	21151.7	18293.3
70°	18690.6	21588.9	21821.0	18255.1	18059.4	17821.8	17312.0	18786.6	22207.3	17335.6	14515.3
72.5°	13742.6	16789.7	17502.5	13388.9	12482.1	12531.1	12128.5	14158.1	18055.6	12877.6	10837.0
75°	9402.5	12157.4	13693.7	9342.5	8254.3	8274.2	8223.5	10031.7	14381.0	8958.0	8109.2
77.5°	6868.6	8686.0	10327.4	6281.0	6097.8	5985.3	5958.1	7019.2	11025.7	6503.9	6297.2
80°	5511.9	6417.1	6937.5	4353.0	4681.2	4672.2	4521.5	4826.3	7200.5	4757.3	4710.2
82.5°	3823.3	4931.5	5620.8	3411.6	3159.6	3106.9	3143.2	3594.8	5089.3	3252.0	3092.4
85°	2016.8	3275.6	5566.3	3023.5	1875.4	1496.3	1860.9	2943.7	4409.1	1723.0	1509.0
87.5°	257.6	946.7	3685.6	1206.1	740.0	399.1	883.3	1657.8	2831.2	351.9	306.5
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°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	12093.9	11852.8	11537.1	11245.2	10942.2	10641.2	10247.5	10000.9	9830.4	9797.9	9725.2
5°	11800.1	10998.5	10392.6	9868.6	9393.3	8722.2	8350.4	8042.0	7877.0	7860.6	7820.8
7.5°	10445.3	9338.9	8520.9	7779.0	7106.2	6563.9	5965.3	5686.1	5571.7	5599.0	5626.2
10°	9036.0	7799.0	6859.6	6101.4	5508.3	5051.3	4570.7	4246.0	4021.1	3975.7	3966.6
12.5°	8005.8	6649.2	5736.8	5201.9	4743.0	4313.0	3803.5	3420.7	3128.6	3028.8	2961.8
15°	7570.5	6086.9	5131.1	4554.3	4048.3	3502.3	3028.8	2628.1	2359.7	2272.6	2223.7
17.5°	7663.0	5930.9	4713.9	3975.7	3328.1	2758.7	2161.9	1819.1	1657.8	1616.1	1616.1
20°	8149.1	5901.8	4369.3	3442.4	2635.4	1975.2	1485.5	1289.6	1237.0	1231.6	1246.0
22.5°	8831.1	6003.5	4111.8	2979.9	2047.7	1441.9	1157.2	1084.6	1061.0	1066.5	1082.8
25°	9846.8	6346.3	3924.9	2568.2	1606.9	1180.8	1032.1	988.5	977.7	992.1	1012.1
27.5°	11051.0	6689.1	3808.9	2258.1	1356.7	1079.2	981.2	936.0	943.1	961.3	979.4
30°	12108.4	6970.2	3625.7	2036.8	1278.7	1084.6	981.2	919.5	912.4	915.9	921.4
32.5°	13057.0	7160.7	3411.6	1826.4	1102.8	963.1	915.9	906.9	867.0	852.4	854.3
35°	13875.1	7160.7	3282.8	1703.2	988.5	854.3	778.2	732.7	712.8	714.5	734.6
37.5°	14664.0	7017.2	3219.4	1634.2	926.8	812.6	745.4	705.5	678.3	672.9	676.6
40°	15360.4	6808.7	3146.7	1605.1	879.6	787.2	723.7	691.1	662.0	653.0	654.8
42.5°	15919.1	6640.0	3067.0	1567.1	850.7	769.0	709.2	680.1	647.5	638.4	636.7
45°	16523.1	6583.9	2961.8	1490.9	865.2	770.9	705.5	674.6	642.0	631.2	627.5
47.5°	17319.3	6759.8	2853.0	1400.1	896.0	779.9	710.9	674.6	640.3	631.2	627.5
50°	18322.3	7173.3	2715.2	1267.9	865.2	805.4	709.2	669.2	640.3	631.2	623.9
52.5°	19610.1	7731.9	2533.8	1115.4	847.0	867.0	705.5	658.4	631.2	618.5	605.8
55°	21175.3	8189.0	2317.9	990.3	805.4	850.7	700.2	645.7	616.7	598.5	587.6
57.5°	22321.5	8354.1	2040.4	908.7	747.3	823.5	692.8	629.4	598.5	584.0	569.5
60°	22094.9	8034.8	1806.5	857.9	712.8	743.6	687.4	614.8	582.3	571.3	558.7
62.5°	20279.3	7200.5	1656.0	834.3	691.1	678.3	692.8	600.4	567.7	556.7	553.2
65°	17556.9	5969.0	1596.1	828.8	672.9	640.3	643.9	584.0	551.3	542.3	538.6
67.5°	14482.7	4817.2	1543.5	847.0	649.3	613.1	594.9	562.2	535.1	526.0	518.8
70°	11421.1	4006.5	1519.9	836.2	620.3	585.8	565.9	538.6	515.0	506.0	500.6
72.5°	9197.5	3384.5	1507.2	825.2	582.3	549.6	531.4	507.8	482.5	478.8	473.4
75°	7782.7	2660.8	1380.3	790.8	538.6	506.0	493.3	471.6	446.3	446.3	442.5
77.5°	6003.5	1924.4	1148.1	700.2	493.3	457.0	446.3	429.8	400.9	406.2	404.5
80°	4434.7	1255.1	897.8	580.3	437.1	402.6	397.1	380.9	350.0	357.3	357.3
82.5°	3038.0	823.5	645.7	475.2	373.6	341.0	341.0	324.6	290.2	293.8	304.8
85°	1525.4	565.9	482.5	368.2	290.2	273.9	273.9	261.1	226.7	228.6	243.0
87.5°	464.4	341.0	319.2	263.0	208.5	205.0	195.9	186.9	165.1	163.3	172.3
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	9614.6	9511.2	9386.0	9110.4	9017.8	9012.5	9095.9	9008.8	9175.7	9104.9	9182.9
5°	7753.7	7652.1	7512.4	7160.7	6946.6	6801.5	6732.5	6529.5	6676.4	6569.3	6658.3
7.5°	5702.3	5725.9	5633.4	5426.7	4960.6	4726.5	4588.8	4465.4	4572.4	4561.6	4732.0
10°	4008.4	4071.9	4006.5	3798.0	3420.7	3291.9	3317.3	3366.3	3505.9	3578.5	3841.4
12.5°	2885.6	2882.0	2840.3	2653.5	2405.1	2419.5	2522.9	2608.1	2737.0	2813.1	3081.5
15°	2154.7	2122.1	2103.9	1951.6	1810.1	1840.9	1891.8	1900.8	1982.4	2027.8	2245.4
17.5°	1628.7	1645.0	1665.0	1556.2	1449.3	1429.2	1389.3	1340.4	1363.9	1373.0	1481.8
20°	1293.2	1358.5	1407.5	1331.4	1222.5	1164.3	1113.7	1081.0	1081.0	1079.2	1110.0
22.5°	1130.0	1177.2	1229.7	1177.2	1079.2	1028.3	999.4	973.9	970.3	970.3	999.4
25°	1041.1	1075.5	1126.4	1090.1	1017.5	979.4	952.2	919.5	906.9	903.2	923.2
27.5°	997.5	1012.1	1037.4	1004.8	943.1	925.0	917.8	888.8	872.4	863.3	883.3
30°	923.2	919.5	921.4	888.8	839.7	837.9	850.7	856.0	850.7	848.8	879.6
32.5°	854.3	847.0	845.2	816.1	770.9	760.0	770.9	781.7	794.5	812.6	848.8
35°	767.2	785.3	796.3	770.9	716.4	683.8	671.1	651.0	640.3	640.3	682.0
37.5°	698.2	740.0	756.3	732.7	672.9	627.5	605.8	602.1	603.9	611.2	651.0
40°	674.6	705.5	720.0	696.4	636.7	594.9	582.3	578.5	582.3	593.1	632.9
42.5°	660.2	682.0	680.1	651.0	602.1	573.2	565.9	562.2	565.9	576.8	620.3
45°	647.5	662.0	647.5	613.1	567.7	553.2	555.0	553.2	556.7	567.7	609.4
47.5°	636.7	642.0	623.9	589.5	542.3	538.6	546.0	551.3	555.0	564.1	607.6
50°	620.3	620.3	603.9	567.7	520.5	522.4	531.4	544.1	546.0	556.7	591.3
52.5°	600.4	598.5	587.6	553.2	502.4	507.8	507.8	522.4	526.0	538.6	574.9
55°	584.0	580.3	574.9	542.3	486.1	495.2	489.7	495.2	504.2	516.9	556.7
57.5°	569.5	562.2	562.2	533.1	473.4	477.0	464.4	471.6	482.5	493.3	535.1
60°	555.0	547.7	551.3	520.5	453.4	449.8	444.3	458.9	462.5	475.2	516.9
62.5°	538.6	533.1	535.1	506.0	438.9	429.8	429.8	442.5	444.3	462.5	502.4
65°	526.0	518.8	516.9	491.5	422.7	411.7	417.2	422.7	426.2	444.3	482.5
67.5°	513.3	498.8	498.8	478.8	404.5	393.6	404.5	402.6	408.1	424.4	455.3
70°	496.9	477.0	478.8	469.7	386.3	373.6	382.7	380.9	384.5	395.4	426.2
72.5°	471.6	455.3	458.9	455.3	368.2	350.0	353.7	353.7	353.7	362.7	395.4
75°	438.9	426.2	437.1	446.3	346.5	321.0	324.6	324.6	319.2	324.6	364.6
77.5°	399.1	391.8	428.1	415.3	321.0	290.2	290.2	286.6	275.7	283.0	326.4
80°	355.5	350.0	395.4	348.2	292.0	252.1	248.4	239.4	228.6	234.0	277.5
82.5°	310.2	304.8	331.9	266.6	252.1	208.5	199.5	183.2	172.3	177.8	217.7
85°	253.9	253.9	255.7	201.4	192.3	159.6	148.7	127.0	114.2	117.9	156.0
87.5°	181.4	186.9	172.3	137.8	114.2	88.8	81.6	69.0	58.0	67.0	81.6
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°	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1	11147.1
2.5°	9581.9	9781.4	10008.1	10298.3	10546.8	10954.9	11346.7	11582.5
5°	7164.2	7496.2	7909.8	8441.2	8936.2	9680.0	10418.1	10891.4
7.5°	5127.4	5482.9	5929.1	6592.9	7293.0	8241.7	9217.3	9783.3
10°	4242.3	4606.9	4982.3	5430.3	6003.5	7035.4	8189.0	8827.4
12.5°	3509.5	3899.6	4303.9	4775.5	5306.9	6228.4	7557.8	8292.3
15°	2686.1	3121.4	3598.5	4195.1	4860.8	5925.4	7401.9	8199.9
17.5°	1840.9	2327.0	2912.9	3649.3	4463.6	5827.6	7681.2	8600.7
20°	1267.9	1621.5	2247.3	3110.5	4090.0	5814.8	8218.1	9369.7
22.5°	1061.0	1218.8	1675.9	2615.4	3808.9	5970.8	9050.5	10448.9
25°	981.2	1075.5	1338.5	2185.5	3603.9	6329.9	10196.8	11845.5
27.5°	934.0	1019.3	1215.2	1904.4	3442.4	6747.1	11312.2	13198.5
30°	952.2	1039.3	1180.8	1761.2	3223.0	7095.3	12302.5	14254.1
32.5°	857.9	896.0	1012.1	1634.2	3065.2	7387.3	13169.4	15128.4
35°	731.0	798.0	903.2	1574.3	3068.9	7583.2	14114.4	16245.5
37.5°	696.4	763.6	839.7	1552.6	3110.5	7791.9	15199.0	17555.1
40°	674.6	736.4	801.6	1539.9	3150.5	7982.3	16261.9	18850.1
42.5°	660.2	716.4	798.0	1496.3	3170.3	8152.7	17136.1	19951.1
45°	658.4	716.4	812.6	1452.8	3201.2	8335.9	17869.0	20765.4
47.5°	660.2	740.0	785.3	1400.1	3201.2	8642.4	18728.5	21492.7
50°	653.0	779.9	756.3	1325.9	3126.9	9222.8	19907.5	22466.7
52.5°	649.3	774.4	700.2	1211.5	2998.1	10144.1	21418.3	23808.8
55°	640.3	747.3	660.2	1041.1	2847.6	11149.1	23036.2	25395.9
57.5°	631.2	662.0	638.4	892.3	2615.4	11856.4	24149.8	26634.6
60°	707.4	578.5	620.3	819.8	2305.3	12050.4	24106.3	27128.0
62.5°	654.8	542.3	596.7	803.5	2087.6	11506.3	22992.6	26861.4
65°	513.3	518.8	573.2	850.7	2029.6	10064.4	21019.3	25629.8
67.5°	469.7	495.2	549.6	910.4	2035.0	8058.4	18070.2	22947.2
70°	442.5	469.7	522.4	941.4	2049.4	6007.1	14286.7	18690.6
72.5°	411.7	435.3	491.5	946.7	1955.2	4363.9	11011.1	13742.6
75°	375.5	397.1	448.0	825.2	1619.7	3027.1	8423.1	9402.5
77.5°	333.7	350.0	393.6	636.7	1202.5	1937.0	6322.7	6868.6
80°	284.7	293.8	330.1	466.1	823.5	1211.5	5002.2	5511.9
82.5°	228.6	232.1	255.7	350.0	535.1	778.2	3350.0	3823.3
85°	161.3	161.3	175.9	253.9	364.6	493.3	1819.1	2016.8
87.5°	76.2	78.0	78.0	139.7	190.4	250.3	419.0	257.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)