

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: P194618

Luminaire Tested: **GLEON-AF-10-LED-E1-SLL-7060-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194618
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-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 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: 34114 lumens
Efficiency: N/A
Efficacy: 105.6 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

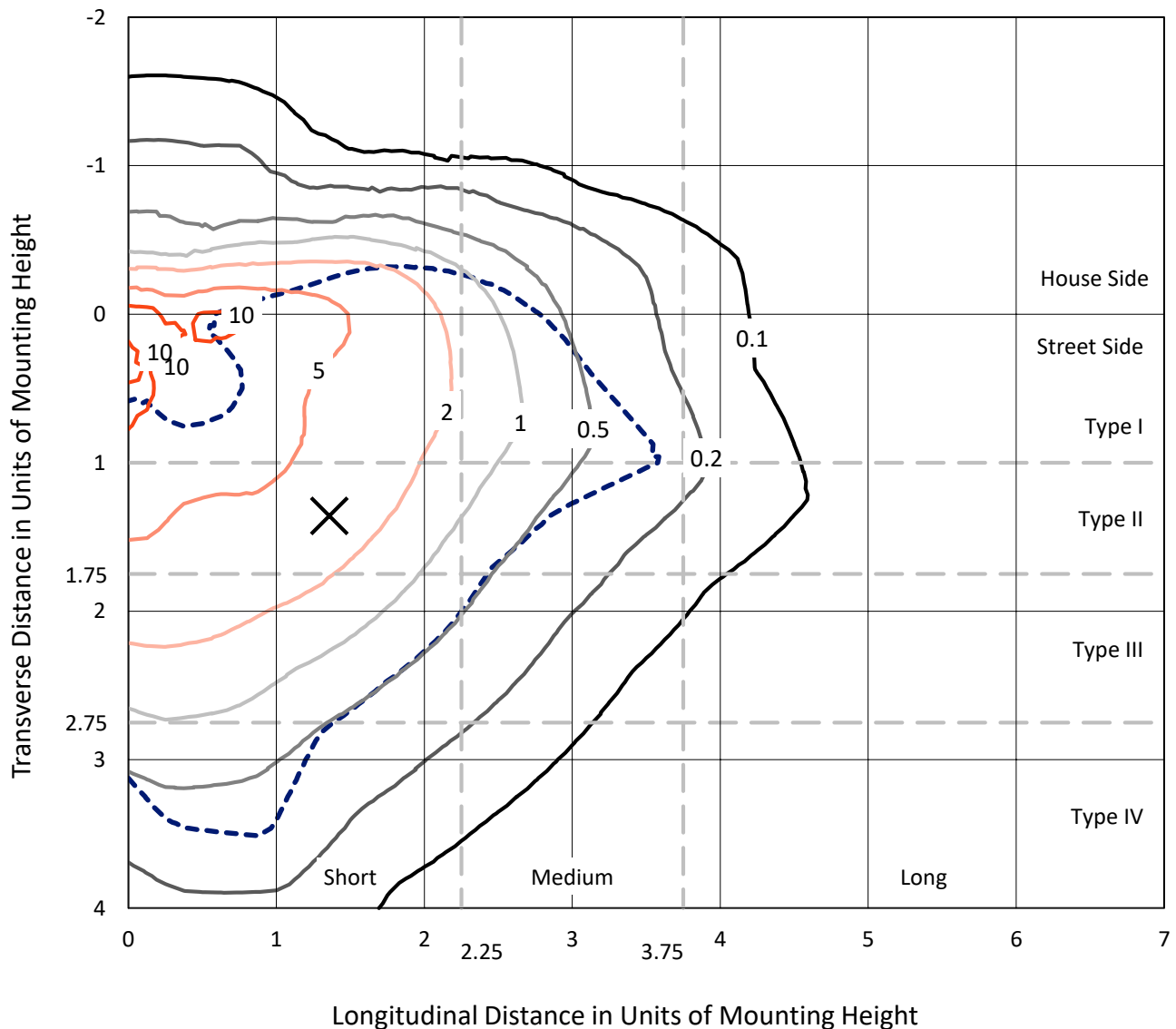


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

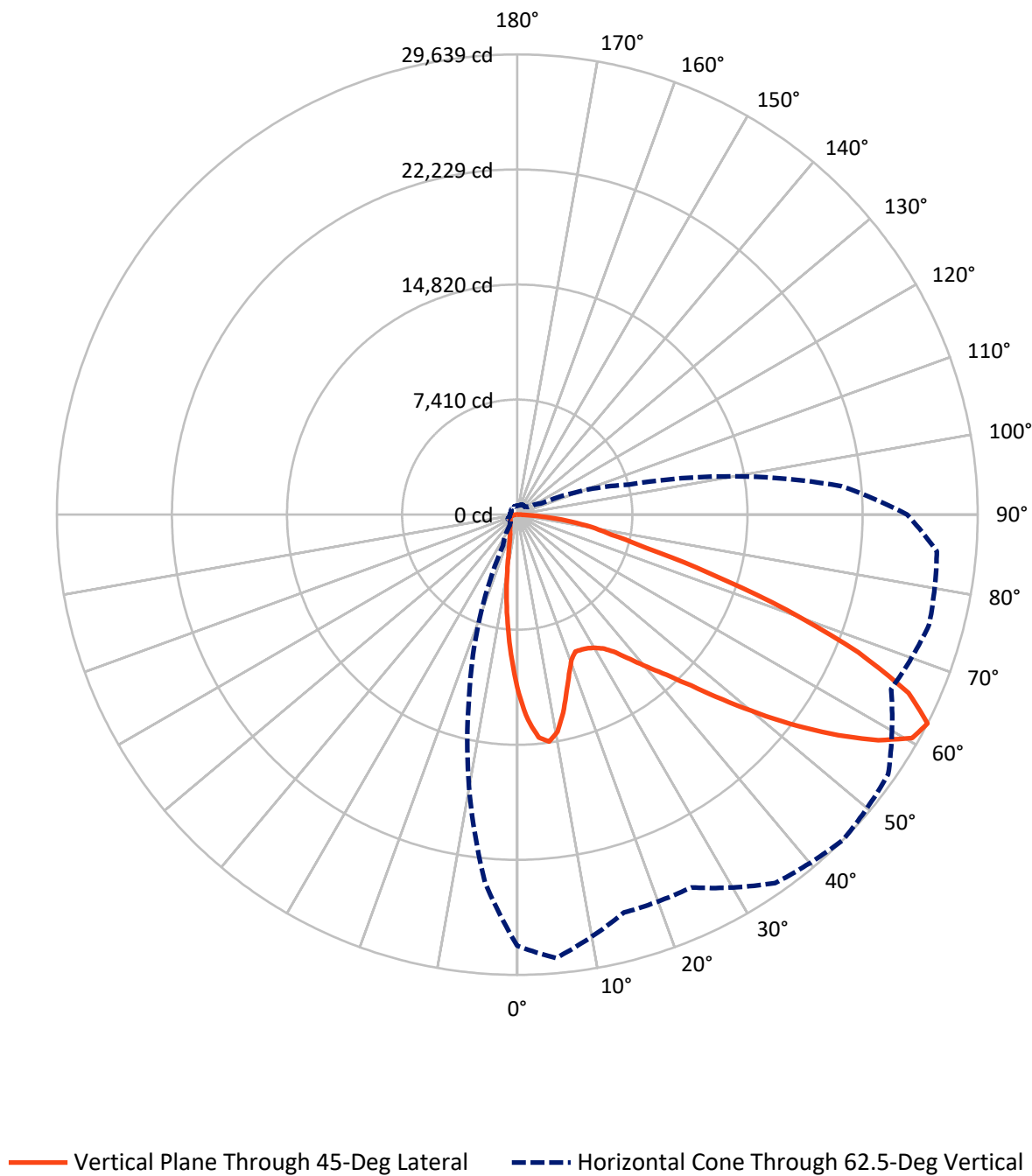


Based on 30 foot mounting height. Maximum calculated value = 15.1 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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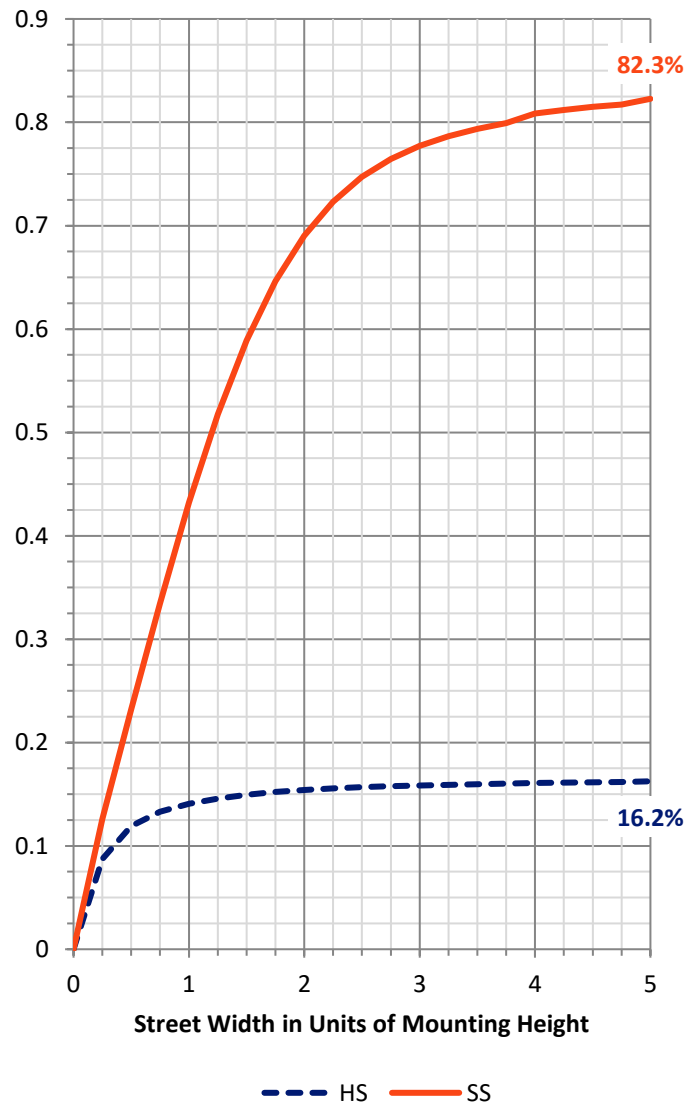
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5645.4	0.0	5645.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	28468.6	0.0	28468.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	34114.0	0.0	34114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.0	2.5
10°-20°	1538.5	4.5
20°-30°	2243.1	6.6
30°-40°	3454.8	10.1
40°-50°	5084.5	14.9
50°-60°	7457.9	21.9
60°-70°	8336.9	24.4
70°-80°	4081.6	12.0
80°-90°	1077.6	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°	34114.0	100.0
0°-180°	34114.0	100.0

Coefficient of Utilization



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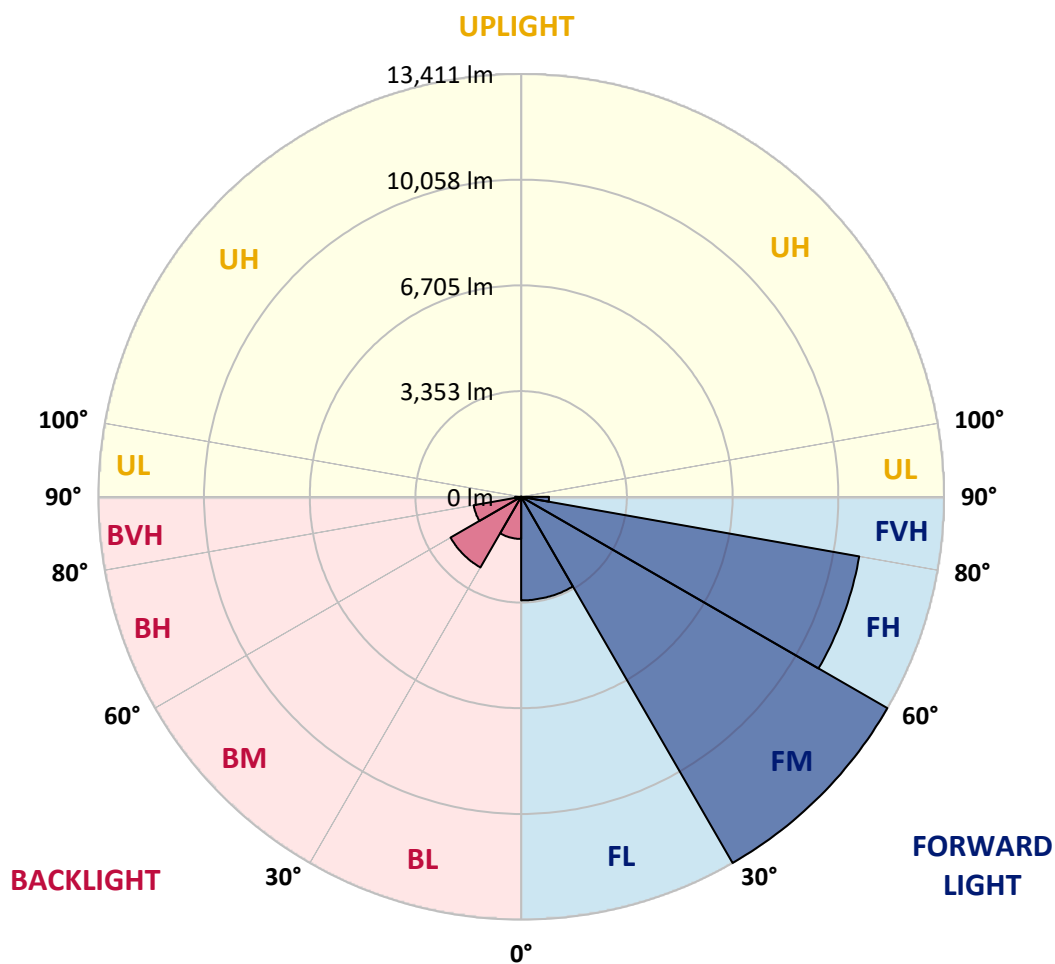
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLL-7060-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3285.1	9.6			
FM	(30°-60°)	13410.5	39.3			
FH	(60°-80°)	10888.0	31.9			G4/12000
FVH	(80°-90°)	885.0	2.6			G5
BL	(0°-30°)	1335.6	3.9	B3/2500		
BM	(30°-60°)	2586.7	7.6	B3/5000		
BH	(60°-80°)	1530.5	4.5	B3/2500		G3/2500
BVH	(80°-90°)	192.6	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°	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5
2.5°	11975.6	12166.9	12540.1	12819.5	13158.9	13237.7	13346.5	13239.6	13050.2	12798.9	12716.4
5°	11261.1	11669.9	12575.7	13372.7	14081.6	14411.6	14503.5	14231.6	13682.1	12960.1	12519.5
7.5°	10115.3	10696.7	11923.1	13097.0	14141.6	14758.6	14743.5	14111.6	13100.8	11925.0	11218.0
10°	9127.0	9790.9	11197.4	12510.1	13618.4	14216.6	13985.9	13177.7	11971.9	10617.9	9850.9
12.5°	8573.8	9224.6	10651.7	11970.0	12896.4	13102.7	12926.4	12135.0	10998.6	9629.6	8958.3
15°	8478.2	9192.7	10434.1	11506.8	12026.2	11846.2	11636.2	11281.8	10479.1	9310.8	8611.3
17.5°	8892.6	9680.3	10683.5	11184.2	11096.1	10782.9	10722.9	10762.3	10569.1	9665.3	8858.9
20°	9687.8	10632.9	11278.0	11032.3	10389.1	9957.8	9972.8	10574.8	11146.7	10563.5	9642.8
22.5°	10803.6	11881.9	12135.0	11113.0	10090.9	9579.0	9702.8	10677.9	12067.5	11876.2	10700.4
25°	12247.5	13230.2	13048.3	11405.5	10121.0	9625.9	9725.3	11034.2	13155.2	13188.9	12009.4
27.5°	13646.5	14557.9	13815.3	11793.7	10244.7	9736.5	9867.8	11594.9	14194.1	14614.2	13505.9
30°	14737.9	15371.8	14119.1	12148.1	10488.5	9952.2	10115.3	12127.5	14666.7	15576.2	14657.3
32.5°	15641.8	16097.5	14602.9	12587.0	10936.7	10291.6	10578.5	12774.5	15347.4	16491.3	15784.3
35°	16797.0	16926.4	15204.9	13076.4	11628.7	10882.3	11238.6	13408.3	15996.2	17415.8	16894.5
37.5°	18151.0	17984.1	15773.1	13745.9	12523.2	11806.8	12101.3	14104.1	16530.7	18464.1	18029.1
40°	19489.9	19088.6	16485.7	14784.8	13828.4	12896.4	13245.2	14846.7	17029.5	19514.3	19137.4
42.5°	20628.2	20033.7	17188.9	15926.9	15043.6	14098.4	14514.8	15594.9	17505.9	20410.7	20099.4
45°	21470.2	20731.4	17858.4	17023.9	16718.2	15696.2	15893.1	16451.9	18021.6	21158.9	20890.8
47.5°	22222.2	21432.7	18616.0	18130.3	18182.8	17774.0	17457.1	17449.6	18629.2	21770.3	21639.0
50°	23229.2	22406.0	19429.9	19270.5	20380.7	20108.8	19409.3	18614.2	19398.0	22464.1	22449.1
52.5°	24617.0	23947.5	20423.8	20498.8	22432.2	22610.4	21744.0	20013.1	20602.0	23737.5	23647.4
55°	26257.8	25867.8	21777.8	21910.9	24948.9	25076.4	24215.7	21762.8	22372.2	25580.9	25331.4
57.5°	27538.7	27456.2	23263.0	23606.2	26827.9	27401.8	26610.4	23788.1	24367.5	27133.6	26507.3
60°	28048.7	28448.2	24843.9	25316.4	28566.3	29202.1	28508.2	25567.7	26135.9	27776.8	26426.6
62.5°	27773.1	28665.7	26527.9	26488.5	28954.5	29639.0	29151.4	26557.9	27446.8	27113.0	25089.5
65°	26499.8	27883.7	27504.9	26186.6	27626.8	27683.1	27525.5	26115.3	27756.2	25014.5	22505.4
67.5°	23726.2	25717.8	26218.5	23598.7	24045.0	23679.3	23414.9	23692.4	26143.5	21869.7	18914.2
70°	19324.9	22321.6	22561.6	18874.8	18672.3	18426.6	17899.7	19424.3	22961.1	17924.0	15008.0
72.5°	14209.1	17359.6	18096.6	13843.4	12905.8	12956.4	12540.1	14638.5	18668.5	13314.6	11204.9
75°	9721.5	12570.1	14158.5	9659.6	8534.5	8555.1	8502.6	10372.2	14869.2	9262.1	8384.4
77.5°	7101.7	8980.8	10677.9	6494.1	6304.7	6188.5	6160.3	7257.4	11399.9	6724.8	6511.0
80°	5699.0	6634.8	7173.0	4500.7	4840.1	4830.8	4675.1	4990.2	7444.9	4918.9	4870.1
82.5°	3953.1	5098.9	5811.5	3527.4	3266.8	3212.4	3249.9	3716.8	5262.1	3362.4	3197.4
85°	2085.3	3386.8	5755.3	3126.1	1939.1	1547.1	1924.0	3043.6	4558.8	1781.5	1560.2
87.5°	266.3	978.9	3810.6	1247.1	765.1	412.6	913.3	1714.0	2927.3	363.8	316.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5
2.5°	12504.4	12255.0	11928.7	11626.8	11313.6	11002.3	10595.4	10340.4	10164.1	10130.3	10055.3
5°	12200.7	11371.8	10745.4	10203.5	9712.1	9018.3	8633.8	8315.0	8144.4	8127.5	8086.3
7.5°	10799.8	9655.9	8810.1	8043.1	7347.4	6786.7	6167.8	5879.0	5760.9	5789.0	5817.2
10°	9342.7	8063.8	7092.4	6308.5	5695.3	5222.7	4725.7	4390.1	4157.5	4110.6	4101.3
12.5°	8277.5	6874.8	5931.5	5378.3	4903.9	4459.4	3932.5	3536.8	3234.9	3131.7	3062.4
15°	7827.5	6293.5	5305.2	4708.9	4185.7	3621.2	3131.7	2717.3	2439.8	2349.7	2299.1
17.5°	7923.1	6132.2	4873.9	4110.6	3441.2	2852.3	2235.3	1880.9	1714.0	1670.9	1670.9
20°	8425.7	6102.2	4517.6	3559.3	2724.8	2042.2	1535.9	1333.3	1278.9	1273.3	1288.3
22.5°	9130.8	6207.2	4251.3	3081.1	2117.2	1490.9	1196.4	1121.4	1097.0	1102.7	1119.5
25°	10181.0	6561.6	4058.1	2655.4	1661.5	1220.8	1067.0	1022.0	1010.8	1025.8	1046.4
27.5°	11426.2	6916.1	3938.1	2334.7	1402.7	1115.8	1014.5	967.7	975.2	993.9	1012.7
30°	12519.5	7206.7	3748.7	2106.0	1322.1	1121.4	1014.5	950.8	943.3	947.0	952.6
32.5°	13500.2	7403.7	3527.4	1888.4	1140.2	995.8	947.0	937.6	896.4	881.4	883.3
35°	14346.0	7403.7	3394.3	1760.9	1022.0	883.3	804.5	757.6	737.0	738.9	759.5
37.5°	15161.7	7255.5	3328.6	1689.6	958.3	840.1	770.7	729.5	701.4	695.7	699.5
40°	15881.9	7039.8	3253.6	1659.6	909.5	813.9	748.2	714.5	684.5	675.1	677.0
42.5°	16459.4	6865.4	3171.1	1620.3	879.5	795.1	733.2	703.2	669.5	660.1	658.2
45°	17083.9	6807.3	3062.4	1541.5	894.5	797.0	729.5	697.6	663.9	652.6	648.9
47.5°	17907.2	6989.2	2949.8	1447.7	926.4	806.4	735.1	697.6	662.0	652.6	648.9
50°	18944.2	7416.8	2807.3	1310.8	894.5	832.6	733.2	692.0	662.0	652.6	645.1
52.5°	20275.7	7994.4	2619.8	1153.3	875.8	896.4	729.5	680.7	652.6	639.5	626.3
55°	21894.0	8466.9	2396.6	1023.9	832.6	879.5	723.9	667.6	637.6	618.8	607.6
57.5°	23079.2	8637.6	2109.7	939.5	772.6	851.4	716.4	650.7	618.8	603.8	588.8
60°	22844.8	8307.5	1867.8	887.0	737.0	768.9	710.7	635.7	602.0	590.7	577.6
62.5°	20967.6	7444.9	1712.1	862.6	714.5	701.4	716.4	620.7	587.0	575.7	572.0
65°	18152.8	6171.6	1650.3	857.0	695.7	662.0	665.7	603.8	570.1	560.7	557.0
67.5°	14974.2	4980.8	1595.9	875.8	671.4	633.8	615.1	581.3	553.2	543.8	536.3
70°	11808.7	4142.5	1571.5	864.5	641.3	605.7	585.1	557.0	532.6	523.2	517.6
72.5°	9509.6	3499.3	1558.4	853.3	602.0	568.2	549.5	525.1	498.8	495.1	489.5
75°	8046.9	2751.1	1427.1	817.6	557.0	523.2	510.1	487.6	461.3	461.3	457.6
77.5°	6207.2	1989.7	1187.1	723.9	510.1	472.6	461.3	444.4	414.4	420.1	418.2
80°	4585.1	1297.7	928.3	600.1	451.9	416.3	410.7	393.8	361.9	369.4	369.4
82.5°	3141.1	851.4	667.6	491.3	386.3	352.6	352.6	335.7	300.0	303.8	315.0
85°	1577.1	585.1	498.8	380.7	300.0	283.2	283.2	270.0	234.4	236.3	251.3
87.5°	480.1	352.6	330.1	271.9	215.7	211.9	202.5	193.2	170.7	168.8	178.2
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°	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5
2.5°	9940.9	9834.0	9704.6	9419.6	9324.0	9318.3	9404.6	9314.6	9487.1	9414.0	9494.6
5°	8016.9	7911.9	7767.5	7403.7	7182.4	7032.3	6961.1	6751.1	6903.0	6792.3	6884.2
7.5°	5895.9	5920.3	5824.7	5610.9	5128.9	4887.0	4744.5	4617.0	4727.6	4716.4	4892.6
10°	4144.4	4210.0	4142.5	3926.9	3536.8	3403.7	3429.9	3480.5	3624.9	3700.0	3971.9
12.5°	2983.6	2979.8	2936.7	2743.6	2486.6	2501.6	2608.5	2696.7	2829.8	2908.6	3186.1
15°	2227.8	2194.1	2175.3	2017.8	1871.5	1903.4	1955.9	1965.3	2049.7	2096.6	2321.6
17.5°	1684.0	1700.9	1721.5	1609.0	1498.4	1477.7	1436.5	1385.8	1410.2	1419.6	1532.1
20°	1337.1	1404.6	1455.2	1376.5	1263.9	1203.9	1151.4	1117.7	1117.7	1115.8	1147.7
22.5°	1168.3	1217.1	1271.4	1217.1	1115.8	1063.3	1033.3	1007.0	1003.3	1003.3	1033.3
25°	1076.4	1112.0	1164.6	1127.1	1052.0	1012.7	984.5	950.8	937.6	933.9	954.5
27.5°	1031.4	1046.4	1072.7	1038.9	975.2	956.4	948.9	918.9	902.0	892.6	913.3
30°	954.5	950.8	952.6	918.9	868.3	866.4	879.5	885.1	879.5	877.6	909.5
32.5°	883.3	875.8	873.9	843.9	797.0	785.7	797.0	808.3	821.4	840.1	877.6
35°	793.2	812.0	823.3	797.0	740.7	707.0	693.9	673.2	662.0	662.0	705.1
37.5°	722.0	765.1	782.0	757.6	695.7	648.9	626.3	622.6	624.5	632.0	673.2
40°	697.6	729.5	744.5	720.1	658.2	615.1	602.0	598.2	602.0	613.2	654.5
42.5°	682.6	705.1	703.2	673.2	622.6	592.6	585.1	581.3	585.1	596.3	641.3
45°	669.5	684.5	669.5	633.8	587.0	572.0	573.8	572.0	575.7	587.0	630.1
47.5°	658.2	663.9	645.1	609.5	560.7	557.0	564.5	570.1	573.8	583.2	628.2
50°	641.3	641.3	624.5	587.0	538.2	540.1	549.5	562.6	564.5	575.7	611.3
52.5°	620.7	618.8	607.6	572.0	519.5	525.1	525.1	540.1	543.8	557.0	594.5
55°	603.8	600.1	594.5	560.7	502.6	512.0	506.3	512.0	521.3	534.5	575.7
57.5°	588.8	581.3	581.3	551.3	489.5	493.2	480.1	487.6	498.8	510.1	553.2
60°	573.8	566.3	570.1	538.2	468.8	465.1	459.4	474.4	478.2	491.3	534.5
62.5°	557.0	551.3	553.2	523.2	453.8	444.4	444.4	457.6	459.4	478.2	519.5
65°	543.8	536.3	534.5	508.2	436.9	425.7	431.3	436.9	440.7	459.4	498.8
67.5°	530.7	515.7	515.7	495.1	418.2	406.9	418.2	416.3	421.9	438.8	470.7
70°	513.8	493.2	495.1	485.7	399.4	386.3	395.7	393.8	397.6	408.8	440.7
72.5°	487.6	470.7	474.4	470.7	380.7	361.9	365.7	365.7	365.7	375.1	408.8
75°	453.8	440.7	451.9	461.3	358.2	331.9	335.7	335.7	330.1	335.7	376.9
77.5°	412.6	405.1	442.6	429.4	331.9	300.0	300.0	296.3	285.0	292.5	337.6
80°	367.6	361.9	408.8	360.1	301.9	260.7	256.9	247.5	236.3	241.9	286.9
82.5°	320.7	315.0	343.2	275.7	260.7	215.7	206.3	189.4	178.2	183.8	225.0
85°	262.5	262.5	264.4	208.2	198.8	165.0	153.8	131.3	118.1	121.9	161.3
87.5°	187.5	193.2	178.2	142.5	118.1	91.9	84.4	71.3	60.0	69.4	84.4
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°	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5
2.5°	9907.2	10113.5	10347.9	10647.9	10904.8	11326.8	11731.8	11975.6
5°	7407.4	7750.6	8178.1	8727.6	9239.6	10008.4	10771.7	11261.1
7.5°	5301.5	5669.0	6130.3	6816.7	7540.6	8521.3	9530.2	10115.3
10°	4386.3	4763.2	5151.4	5614.6	6207.2	7274.3	8466.9	9127.0
12.5°	3628.7	4031.9	4450.1	4937.6	5487.1	6439.8	7814.3	8573.8
15°	2777.3	3227.4	3720.6	4337.6	5025.8	6126.6	7653.1	8478.2
17.5°	1903.4	2406.0	3011.7	3773.1	4615.1	6025.3	7941.9	8892.6
20°	1310.8	1676.5	2323.5	3216.1	4228.8	6012.2	8496.9	9687.8
22.5°	1097.0	1260.2	1732.8	2704.2	3938.1	6173.5	9357.7	10803.6
25°	1014.5	1112.0	1384.0	2259.7	3726.2	6544.8	10542.9	12247.5
27.5°	965.8	1053.9	1256.4	1969.1	3559.3	6976.1	11696.2	13646.5
30°	984.5	1074.5	1220.8	1820.9	3332.4	7336.1	12720.1	14737.9
32.5°	887.0	926.4	1046.4	1689.6	3169.2	7638.1	13616.5	15641.8
35°	755.7	825.1	933.9	1627.8	3173.0	7840.6	14593.5	16797.0
37.5°	720.1	789.5	868.3	1605.3	3216.1	8056.3	15714.9	18151.0
40°	697.6	761.4	828.9	1592.1	3257.4	8253.2	16813.9	19489.9
42.5°	682.6	740.7	825.1	1547.1	3278.0	8429.4	17717.8	20628.2
45°	680.7	740.7	840.1	1502.1	3309.9	8618.8	18475.4	21470.2
47.5°	682.6	765.1	812.0	1447.7	3309.9	8935.8	19364.3	22222.2
50°	675.1	806.4	782.0	1370.8	3233.0	9535.9	20583.2	23229.2
52.5°	671.4	800.7	723.9	1252.7	3099.9	10488.5	22145.3	24617.0
55°	662.0	772.6	682.6	1076.4	2944.2	11527.4	23818.1	26257.8
57.5°	652.6	684.5	660.1	922.6	2704.2	12258.8	24969.5	27538.7
60°	731.4	598.2	641.3	847.6	2383.5	12459.4	24924.5	28048.7
62.5°	677.0	560.7	617.0	830.8	2158.5	11896.9	23773.1	27773.1
65°	530.7	536.3	592.6	879.5	2098.5	10406.0	21732.8	26499.8
67.5°	485.7	512.0	568.2	941.4	2104.1	8331.9	18683.5	23726.2
70°	457.6	485.7	540.1	973.3	2119.1	6211.0	14771.7	19324.9
72.5°	425.7	450.1	508.2	978.9	2021.6	4512.0	11384.9	14209.1
75°	388.2	410.7	463.2	853.3	1674.6	3129.9	8708.9	9721.5
77.5°	345.1	361.9	406.9	658.2	1243.3	2002.8	6537.3	7101.7
80°	294.4	303.8	341.3	482.0	851.4	1252.7	5172.1	5699.0
82.5°	236.3	240.0	264.4	361.9	553.2	804.5	3463.7	3953.1
85°	166.9	166.9	181.9	262.5	376.9	510.1	1880.9	2085.3
87.5°	78.8	80.6	80.6	144.4	196.9	258.8	433.2	266.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)