

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: P194658

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194658
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-SLR-7060-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT 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



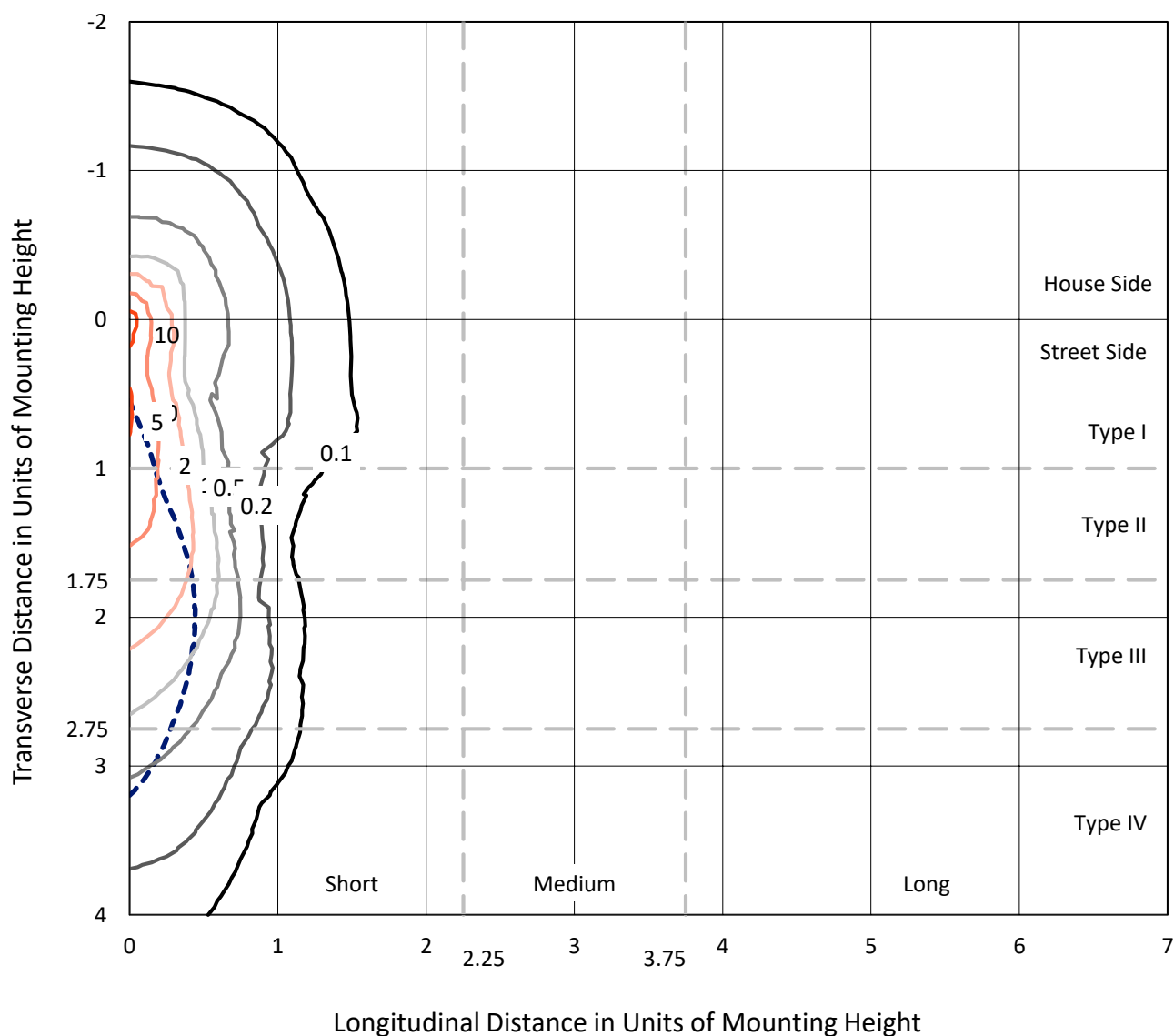
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

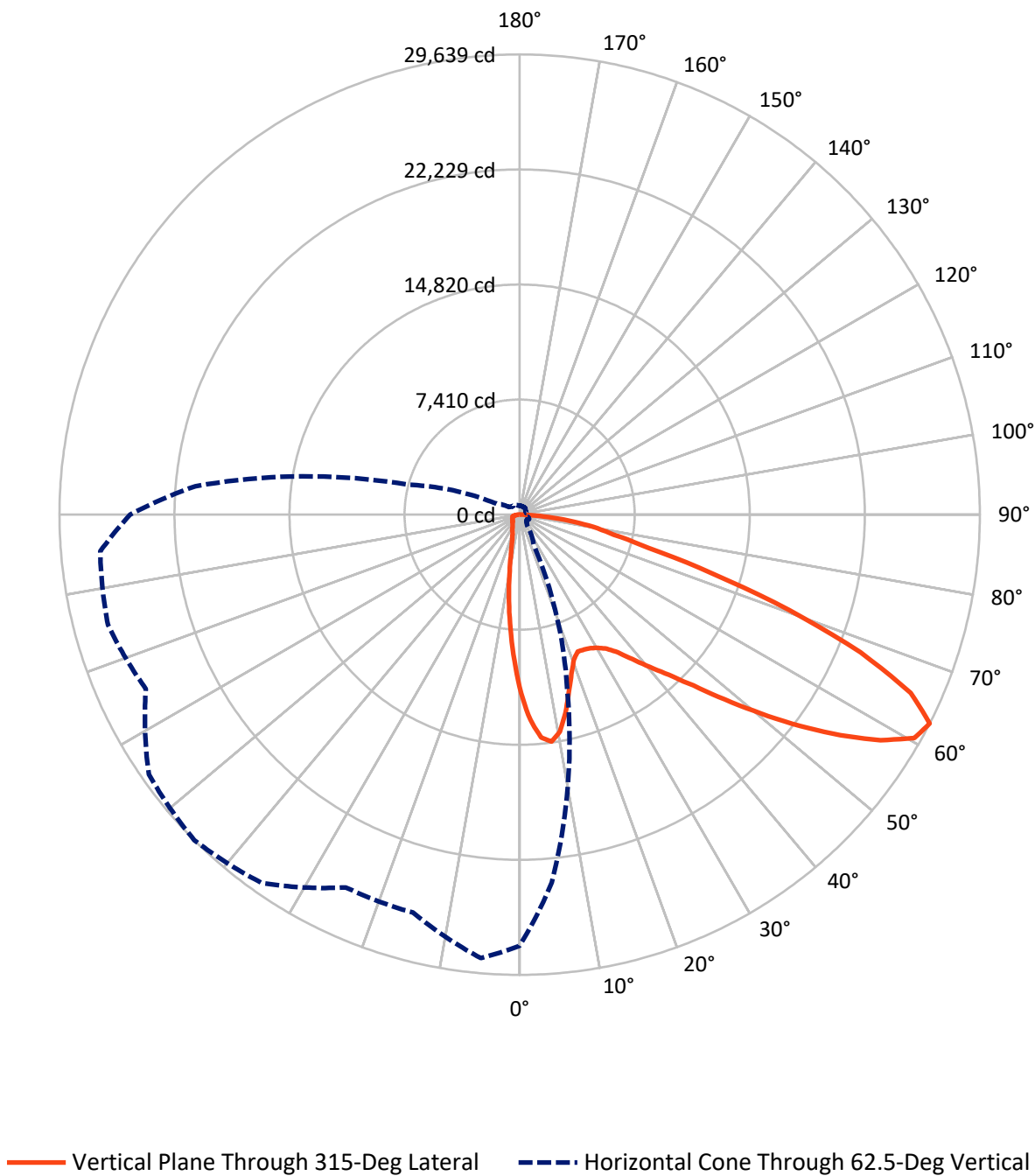


Based on 30 foot mounting height. Maximum calculated value = 12.8 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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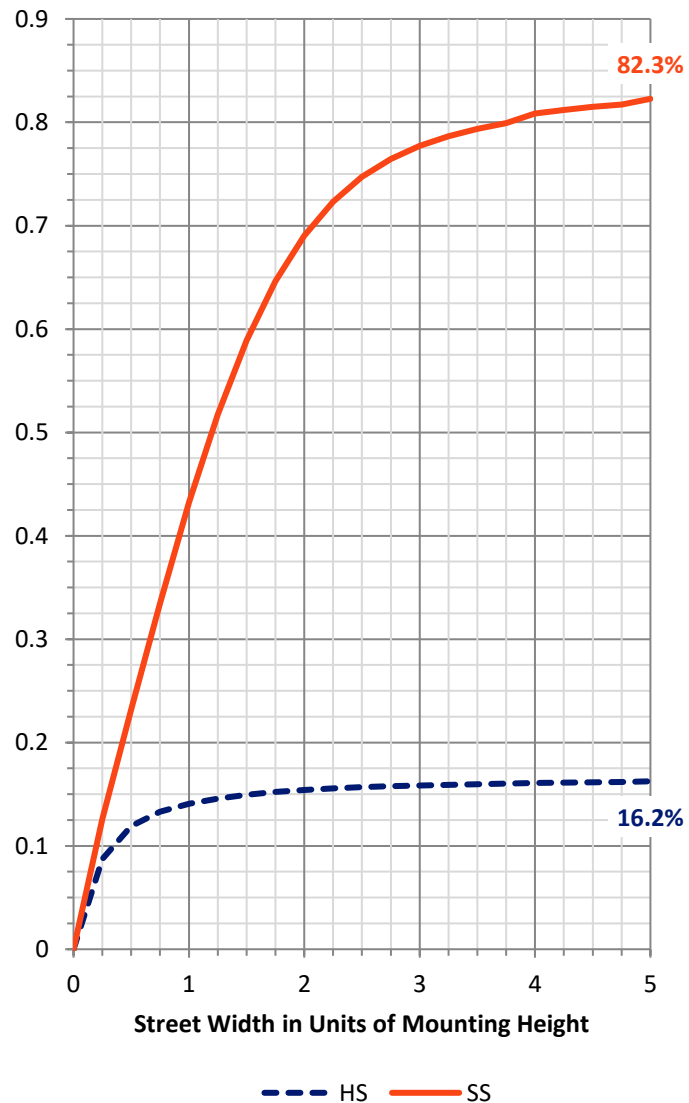
FLUX DISTRIBUTION:

		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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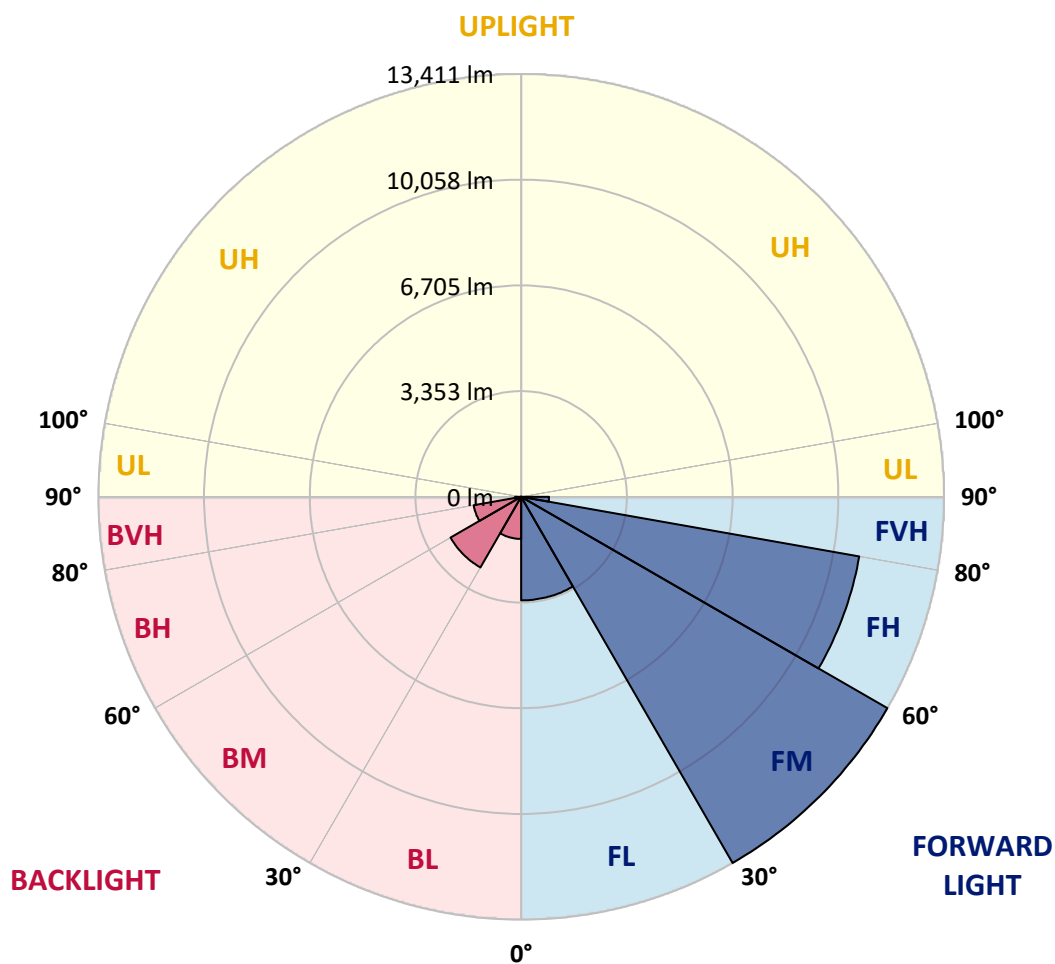
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	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	11731.8	11326.8	10904.8	10647.9	10347.9	10113.5	9907.2	9494.6	9414.0	9487.1
5°	11261.1	10771.7	10008.4	9239.6	8727.6	8178.1	7750.6	7407.4	6884.2	6792.3	6903.0
7.5°	10115.3	9530.2	8521.3	7540.6	6816.7	6130.3	5669.0	5301.5	4892.6	4716.4	4727.6
10°	9127.0	8466.9	7274.3	6207.2	5614.6	5151.4	4763.2	4386.3	3971.9	3700.0	3624.9
12.5°	8573.8	7814.3	6439.8	5487.1	4937.6	4450.1	4031.9	3628.7	3186.1	2908.6	2829.8
15°	8478.2	7653.1	6126.6	5025.8	4337.6	3720.6	3227.4	2777.3	2321.6	2096.6	2049.7
17.5°	8892.6	7941.9	6025.3	4615.1	3773.1	3011.7	2406.0	1903.4	1532.1	1419.6	1410.2
20°	9687.8	8496.9	6012.2	4228.8	3216.1	2323.5	1676.5	1310.8	1147.7	1115.8	1117.7
22.5°	10803.6	9357.7	6173.5	3938.1	2704.2	1732.8	1260.2	1097.0	1033.3	1003.3	1003.3
25°	12247.5	10542.9	6544.8	3726.2	2259.7	1384.0	1112.0	1014.5	954.5	933.9	937.6
27.5°	13646.5	11696.2	6976.1	3559.3	1969.1	1256.4	1053.9	965.8	913.3	892.6	902.0
30°	14737.9	12720.1	7336.1	3332.4	1820.9	1220.8	1074.5	984.5	909.5	877.6	879.5
32.5°	15641.8	13616.5	7638.1	3169.2	1689.6	1046.4	926.4	887.0	877.6	840.1	821.4
35°	16797.0	14593.5	7840.6	3173.0	1627.8	933.9	825.1	755.7	705.1	662.0	662.0
37.5°	18151.0	15714.9	8056.3	3216.1	1605.3	868.3	789.5	720.1	673.2	632.0	624.5
40°	19489.9	16813.9	8253.2	3257.4	1592.1	828.9	761.4	697.6	654.5	613.2	602.0
42.5°	20628.2	17717.8	8429.4	3278.0	1547.1	825.1	740.7	682.6	641.3	596.3	585.1
45°	21470.2	18475.4	8618.8	3309.9	1502.1	840.1	740.7	680.7	630.1	587.0	575.7
47.5°	22222.2	19364.3	8935.8	3309.9	1447.7	812.0	765.1	682.6	628.2	583.2	573.8
50°	23229.2	20583.2	9535.9	3233.0	1370.8	782.0	806.4	675.1	611.3	575.7	564.5
52.5°	24617.0	22145.3	10488.5	3099.9	1252.7	723.9	800.7	671.4	594.5	557.0	543.8
55°	26257.8	23818.1	11527.4	2944.2	1076.4	682.6	772.6	662.0	575.7	534.5	521.3
57.5°	27538.7	24969.5	12258.8	2704.2	922.6	660.1	684.5	652.6	553.2	510.1	498.8
60°	28048.7	24924.5	12459.4	2383.5	847.6	641.3	598.2	731.4	534.5	491.3	478.2
62.5°	27773.1	23773.1	11896.9	2158.5	830.8	617.0	560.7	677.0	519.5	478.2	459.4
65°	26499.8	21732.8	10406.0	2098.5	879.5	592.6	536.3	530.7	498.8	459.4	440.7
67.5°	23726.2	18683.5	8331.9	2104.1	941.4	568.2	512.0	485.7	470.7	438.8	421.9
70°	19324.9	14771.7	6211.0	2119.1	973.3	540.1	485.7	457.6	440.7	408.8	397.6
72.5°	14209.1	11384.9	4512.0	2021.6	978.9	508.2	450.1	425.7	408.8	375.1	365.7
75°	9721.5	8708.9	3129.9	1674.6	853.3	463.2	410.7	388.2	376.9	335.7	330.1
77.5°	7101.7	6537.3	2002.8	1243.3	658.2	406.9	361.9	345.1	337.6	292.5	285.0
80°	5699.0	5172.1	1252.7	851.4	482.0	341.3	303.8	294.4	286.9	241.9	236.3
82.5°	3953.1	3463.7	804.5	553.2	361.9	264.4	240.0	236.3	225.0	183.8	178.2
85°	2085.3	1880.9	510.1	376.9	262.5	181.9	166.9	166.9	161.3	121.9	118.1
87.5°	266.3	433.2	258.8	196.9	144.4	80.6	80.6	78.8	84.4	69.4	60.0
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°	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5	11525.5
2.5°	9314.6	9404.6	9318.3	9324.0	9419.6	9704.6	9834.0	9940.9	10055.3	10130.3	10164.1
5°	6751.1	6961.1	7032.3	7182.4	7403.7	7767.5	7911.9	8016.9	8086.3	8127.5	8144.4
7.5°	4617.0	4744.5	4887.0	5128.9	5610.9	5824.7	5920.3	5895.9	5817.2	5789.0	5760.9
10°	3480.5	3429.9	3403.7	3536.8	3926.9	4142.5	4210.0	4144.4	4101.3	4110.6	4157.5
12.5°	2696.7	2608.5	2501.6	2486.6	2743.6	2936.7	2979.8	2983.6	3062.4	3131.7	3234.9
15°	1965.3	1955.9	1903.4	1871.5	2017.8	2175.3	2194.1	2227.8	2299.1	2349.7	2439.8
17.5°	1385.8	1436.5	1477.7	1498.4	1609.0	1721.5	1700.9	1684.0	1670.9	1670.9	1714.0
20°	1117.7	1151.4	1203.9	1263.9	1376.5	1455.2	1404.6	1337.1	1288.3	1273.3	1278.9
22.5°	1007.0	1033.3	1063.3	1115.8	1217.1	1271.4	1217.1	1168.3	1119.5	1102.7	1097.0
25°	950.8	984.5	1012.7	1052.0	1127.1	1164.6	1112.0	1076.4	1046.4	1025.8	1010.8
27.5°	918.9	948.9	956.4	975.2	1038.9	1072.7	1046.4	1031.4	1012.7	993.9	975.2
30°	885.1	879.5	866.4	868.3	918.9	952.6	950.8	954.5	952.6	947.0	943.3
32.5°	808.3	797.0	785.7	797.0	843.9	873.9	875.8	883.3	883.3	881.4	896.4
35°	673.2	693.9	707.0	740.7	797.0	823.3	812.0	793.2	759.5	738.9	737.0
37.5°	622.6	626.3	648.9	695.7	757.6	782.0	765.1	722.0	699.5	695.7	701.4
40°	598.2	602.0	615.1	658.2	720.1	744.5	729.5	697.6	677.0	675.1	684.5
42.5°	581.3	585.1	592.6	622.6	673.2	703.2	705.1	682.6	658.2	660.1	669.5
45°	572.0	573.8	572.0	587.0	633.8	669.5	684.5	669.5	648.9	652.6	663.9
47.5°	570.1	564.5	557.0	560.7	609.5	645.1	663.9	658.2	648.9	652.6	662.0
50°	562.6	549.5	540.1	538.2	587.0	624.5	641.3	641.3	645.1	652.6	662.0
52.5°	540.1	525.1	525.1	519.5	572.0	607.6	618.8	620.7	626.3	639.5	652.6
55°	512.0	506.3	512.0	502.6	560.7	594.5	600.1	603.8	607.6	618.8	637.6
57.5°	487.6	480.1	493.2	489.5	551.3	581.3	581.3	588.8	588.8	603.8	618.8
60°	474.4	459.4	465.1	468.8	538.2	570.1	566.3	573.8	577.6	590.7	602.0
62.5°	457.6	444.4	444.4	453.8	523.2	553.2	551.3	557.0	572.0	575.7	587.0
65°	436.9	431.3	425.7	436.9	508.2	534.5	536.3	543.8	557.0	560.7	570.1
67.5°	416.3	418.2	406.9	418.2	495.1	515.7	515.7	530.7	536.3	543.8	553.2
70°	393.8	395.7	386.3	399.4	485.7	495.1	493.2	513.8	517.6	523.2	532.6
72.5°	365.7	365.7	361.9	380.7	470.7	474.4	470.7	487.6	489.5	495.1	498.8
75°	335.7	335.7	331.9	358.2	461.3	451.9	440.7	453.8	457.6	461.3	461.3
77.5°	296.3	300.0	300.0	331.9	429.4	442.6	405.1	412.6	418.2	420.1	414.4
80°	247.5	256.9	260.7	301.9	360.1	408.8	361.9	367.6	369.4	369.4	361.9
82.5°	189.4	206.3	215.7	260.7	275.7	343.2	315.0	320.7	315.0	303.8	300.0
85°	131.3	153.8	165.0	198.8	208.2	264.4	262.5	262.5	251.3	236.3	234.4
87.5°	71.3	84.4	91.9	118.1	142.5	178.2	193.2	187.5	178.2	168.8	170.7
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°	10340.4	10595.4	11002.3	11313.6	11626.8	11928.7	12255.0	12504.4	12716.4	12798.9	13050.2
5°	8315.0	8633.8	9018.3	9712.1	10203.5	10745.4	11371.8	12200.7	12519.5	12960.1	13682.1
7.5°	5879.0	6167.8	6786.7	7347.4	8043.1	8810.1	9655.9	10799.8	11218.0	11925.0	13100.8
10°	4390.1	4725.7	5222.7	5695.3	6308.5	7092.4	8063.8	9342.7	9850.9	10617.9	11971.9
12.5°	3536.8	3932.5	4459.4	4903.9	5378.3	5931.5	6874.8	8277.5	8958.3	9629.6	10998.6
15°	2717.3	3131.7	3621.2	4185.7	4708.9	5305.2	6293.5	7827.5	8611.3	9310.8	10479.1
17.5°	1880.9	2235.3	2852.3	3441.2	4110.6	4873.9	6132.2	7923.1	8858.9	9665.3	10569.1
20°	1333.3	1535.9	2042.2	2724.8	3559.3	4517.6	6102.2	8425.7	9642.8	10563.5	11146.7
22.5°	1121.4	1196.4	1490.9	2117.2	3081.1	4251.3	6207.2	9130.8	10700.4	11876.2	12067.5
25°	1022.0	1067.0	1220.8	1661.5	2655.4	4058.1	6561.6	10181.0	12009.4	13188.9	13155.2
27.5°	967.7	1014.5	1115.8	1402.7	2334.7	3938.1	6916.1	11426.2	13505.9	14614.2	14194.1
30°	950.8	1014.5	1121.4	1322.1	2106.0	3748.7	7206.7	12519.5	14657.3	15576.2	14666.7
32.5°	937.6	947.0	995.8	1140.2	1888.4	3527.4	7403.7	13500.2	15784.3	16491.3	15347.4
35°	757.6	804.5	883.3	1022.0	1760.9	3394.3	7403.7	14346.0	16894.5	17415.8	15996.2
37.5°	729.5	770.7	840.1	958.3	1689.6	3328.6	7255.5	15161.7	18029.1	18464.1	16530.7
40°	714.5	748.2	813.9	909.5	1659.6	3253.6	7039.8	15881.9	19137.4	19514.3	17029.5
42.5°	703.2	733.2	795.1	879.5	1620.3	3171.1	6865.4	16459.4	20099.4	20410.7	17505.9
45°	697.6	729.5	797.0	894.5	1541.5	3062.4	6807.3	17083.9	20890.8	21158.9	18021.6
47.5°	697.6	735.1	806.4	926.4	1447.7	2949.8	6989.2	17907.2	21639.0	21770.3	18629.2
50°	692.0	733.2	832.6	894.5	1310.8	2807.3	7416.8	18944.2	22449.1	22464.1	19398.0
52.5°	680.7	729.5	896.4	875.8	1153.3	2619.8	7994.4	20275.7	23647.4	23737.5	20602.0
55°	667.6	723.9	879.5	832.6	1023.9	2396.6	8466.9	21894.0	25331.4	25580.9	22372.2
57.5°	650.7	716.4	851.4	772.6	939.5	2109.7	8637.6	23079.2	26507.3	27133.6	24367.5
60°	635.7	710.7	768.9	737.0	887.0	1867.8	8307.5	22844.8	26426.6	27776.8	26135.9
62.5°	620.7	716.4	701.4	714.5	862.6	1712.1	7444.9	20967.6	25089.5	27113.0	27446.8
65°	603.8	665.7	662.0	695.7	857.0	1650.3	6171.6	18152.8	22505.4	25014.5	27756.2
67.5°	581.3	615.1	633.8	671.4	875.8	1595.9	4980.8	14974.2	18914.2	21869.7	26143.5
70°	557.0	585.1	605.7	641.3	864.5	1571.5	4142.5	11808.7	15008.0	17924.0	22961.1
72.5°	525.1	549.5	568.2	602.0	853.3	1558.4	3499.3	9509.6	11204.9	13314.6	18668.5
75°	487.6	510.1	523.2	557.0	817.6	1427.1	2751.1	8046.9	8384.4	9262.1	14869.2
77.5°	444.4	461.3	472.6	510.1	723.9	1187.1	1989.7	6207.2	6511.0	6724.8	11399.9
80°	393.8	410.7	416.3	451.9	600.1	928.3	1297.7	4585.1	4870.1	4918.9	7444.9
82.5°	335.7	352.6	352.6	386.3	491.3	667.6	851.4	3141.1	3197.4	3362.4	5262.1
85°	270.0	283.2	283.2	300.0	380.7	498.8	585.1	1577.1	1560.2	1781.5	4558.8
87.5°	193.2	202.5	211.9	215.7	271.9	330.1	352.6	480.1	316.9	363.8	2927.3
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):

	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°	13239.6	13346.5	13237.7	13158.9	12819.5	12540.1	12166.9	11975.6
5°	14231.6	14503.5	14411.6	14081.6	13372.7	12575.7	11669.9	11261.1
7.5°	14111.6	14743.5	14758.6	14141.6	13097.0	11923.1	10696.7	10115.3
10°	13177.7	13985.9	14216.6	13618.4	12510.1	11197.4	9790.9	9127.0
12.5°	12135.0	12926.4	13102.7	12896.4	11970.0	10651.7	9224.6	8573.8
15°	11281.8	11636.2	11846.2	12026.2	11506.8	10434.1	9192.7	8478.2
17.5°	10762.3	10722.9	10782.9	11096.1	11184.2	10683.5	9680.3	8892.6
20°	10574.8	9972.8	9957.8	10389.1	11032.3	11278.0	10632.9	9687.8
22.5°	10677.9	9702.8	9579.0	10090.9	11113.0	12135.0	11881.9	10803.6
25°	11034.2	9725.3	9625.9	10121.0	11405.5	13048.3	13230.2	12247.5
27.5°	11594.9	9867.8	9736.5	10244.7	11793.7	13815.3	14557.9	13646.5
30°	12127.5	10115.3	9952.2	10488.5	12148.1	14119.1	15371.8	14737.9
32.5°	12774.5	10578.5	10291.6	10936.7	12587.0	14602.9	16097.5	15641.8
35°	13408.3	11238.6	10882.3	11628.7	13076.4	15204.9	16926.4	16797.0
37.5°	14104.1	12101.3	11806.8	12523.2	13745.9	15773.1	17984.1	18151.0
40°	14846.7	13245.2	12896.4	13828.4	14784.8	16485.7	19088.6	19489.9
42.5°	15594.9	14514.8	14098.4	15043.6	15926.9	17188.9	20033.7	20628.2
45°	16451.9	15893.1	15696.2	16718.2	17023.9	17858.4	20731.4	21470.2
47.5°	17449.6	17457.1	17774.0	18182.8	18130.3	18616.0	21432.7	22222.2
50°	18614.2	19409.3	20108.8	20380.7	19270.5	19429.9	22406.0	23229.2
52.5°	20013.1	21744.0	22610.4	22432.2	20498.8	20423.8	23947.5	24617.0
55°	21762.8	24215.7	25076.4	24948.9	21910.9	21777.8	25867.8	26257.8
57.5°	23788.1	26610.4	27401.8	26827.9	23606.2	23263.0	27456.2	27538.7
60°	25567.7	28508.2	29202.1	28566.3	25316.4	24843.9	28448.2	28048.7
62.5°	26557.9	29151.4	29639.0	28954.5	26488.5	26527.9	28665.7	27773.1
65°	26115.3	27525.5	27683.1	27626.8	26186.6	27504.9	27883.7	26499.8
67.5°	23692.4	23414.9	23679.3	24045.0	23598.7	26218.5	25717.8	23726.2
70°	19424.3	17899.7	18426.6	18672.3	18874.8	22561.6	22321.6	19324.9
72.5°	14638.5	12540.1	12956.4	12905.8	13843.4	18096.6	17359.6	14209.1
75°	10372.2	8502.6	8555.1	8534.5	9659.6	14158.5	12570.1	9721.5
77.5°	7257.4	6160.3	6188.5	6304.7	6494.1	10677.9	8980.8	7101.7
80°	4990.2	4675.1	4830.8	4840.1	4500.7	7173.0	6634.8	5699.0
82.5°	3716.8	3249.9	3212.4	3266.8	3527.4	5811.5	5098.9	3953.1
85°	3043.6	1924.0	1547.1	1939.1	3126.1	5755.3	3386.8	2085.3
87.5°	1714.0	913.3	412.6	765.1	1247.1	3810.6	978.9	266.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)