

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: P193032

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193032
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 20408.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 225
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

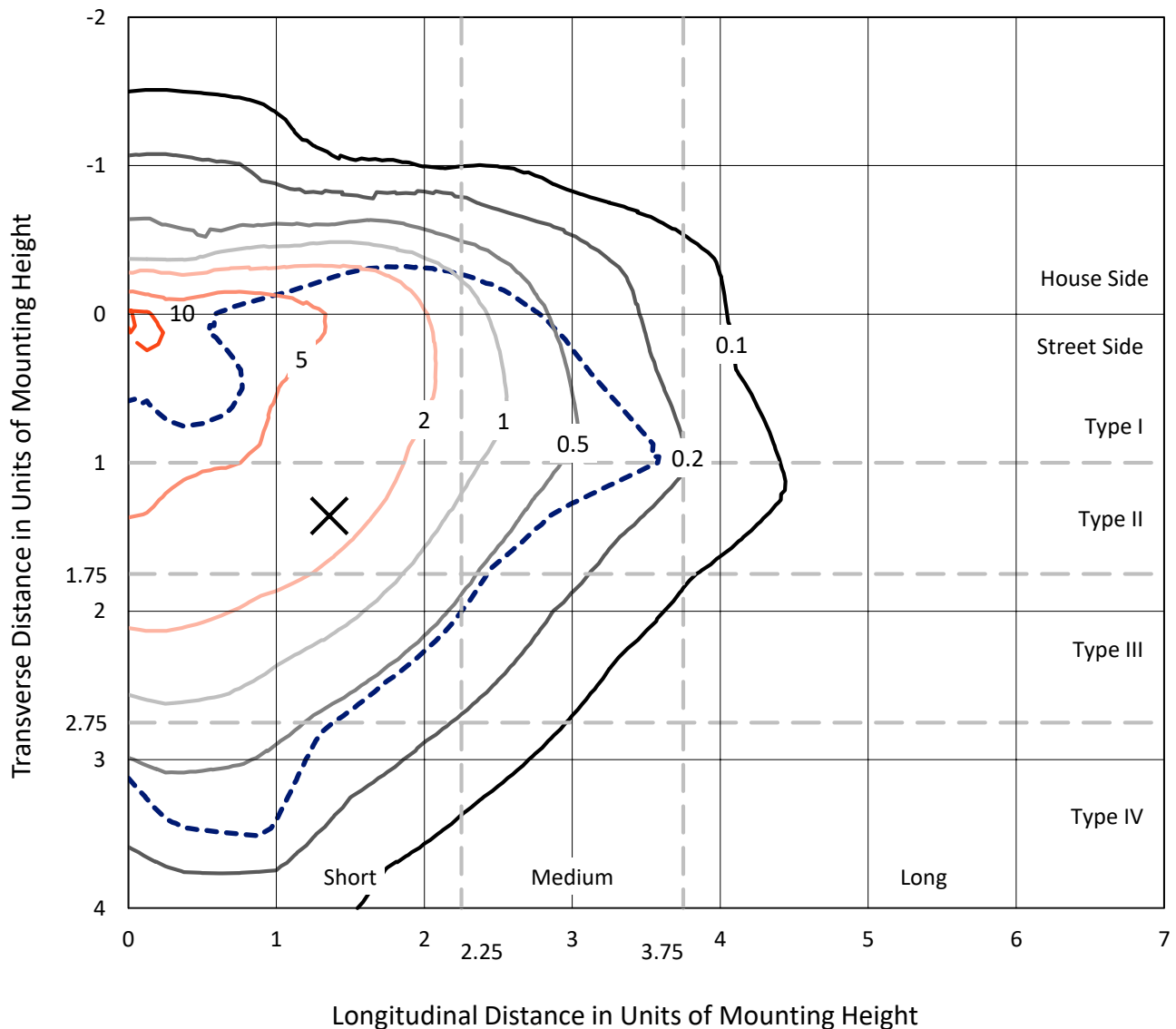


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

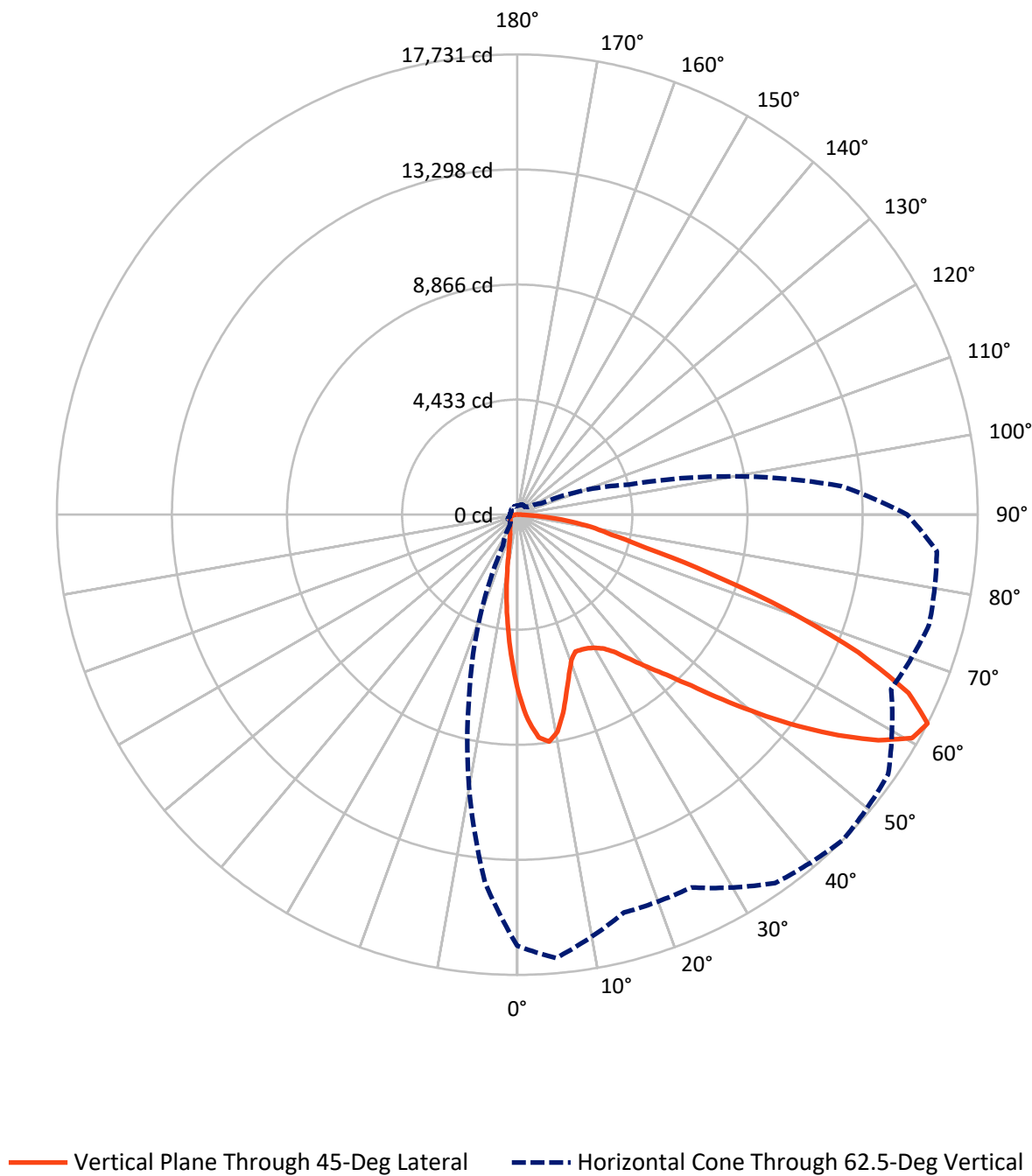


Based on 25 foot mounting height. Maximum calculated value = 13 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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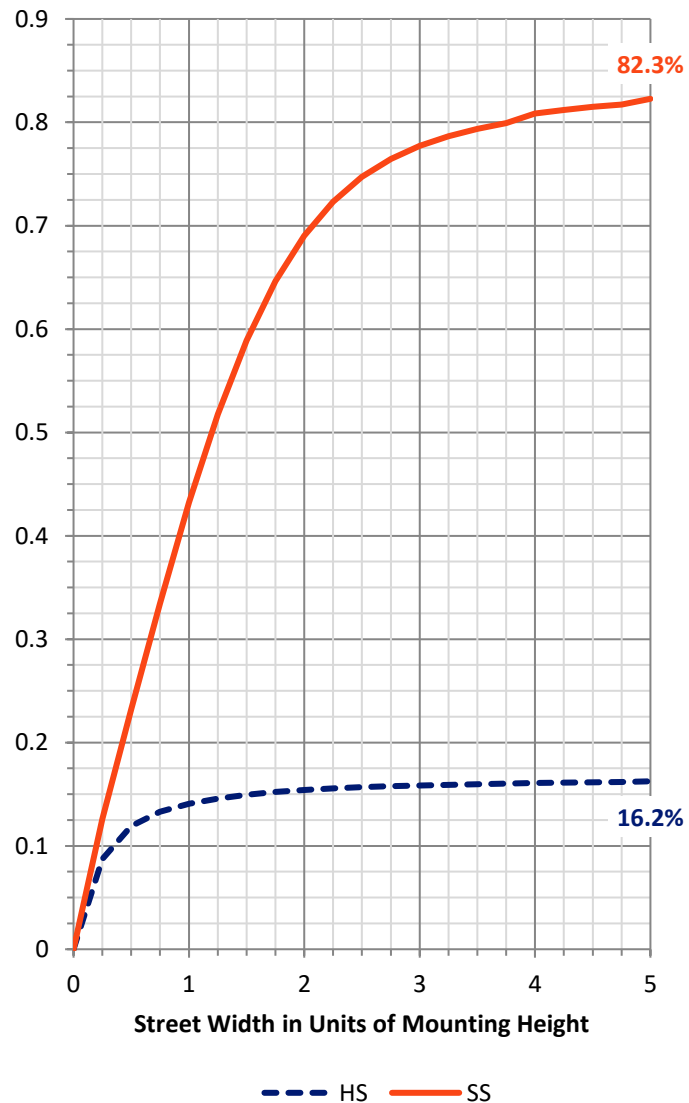
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3377.3	0.0	3377.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17031.2	0.0	17031.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	20408.5	0.0	20408.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.9	2.5
10°-20°	920.4	4.5
20°-30°	1342.0	6.6
30°-40°	2066.8	10.1
40°-50°	3041.8	14.9
50°-60°	4461.7	21.9
60°-70°	4987.5	24.4
70°-80°	2441.8	12.0
80°-90°	644.7	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°	20408.5	100.0
0°-180°	20408.5	100.0

Coefficient of Utilization



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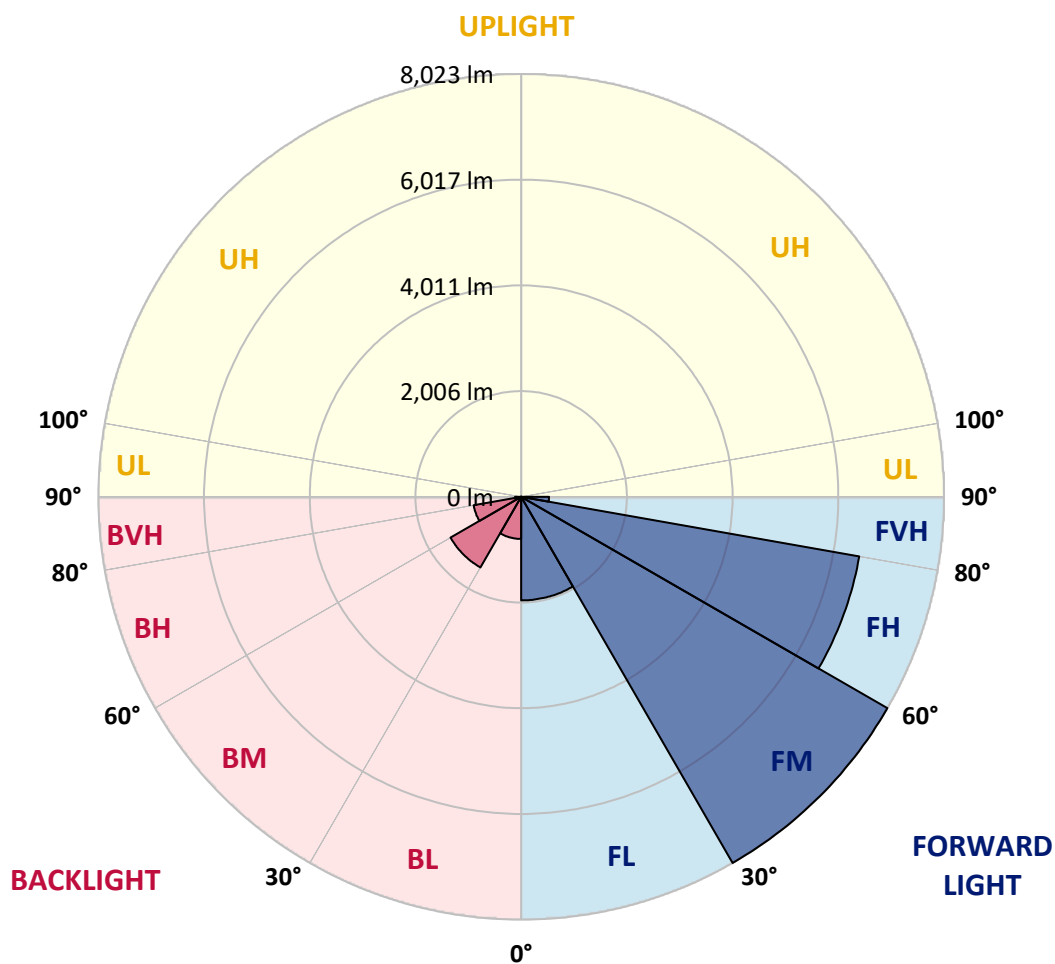
CATALOG NUMBER: GLEON-AF-04-LED-E1-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1965.3	9.6			
FM	(30°-60°)	8022.8	39.3			
FH	(60°-80°)	6513.7	31.9			G3/7500
FVH	(80°-90°)	529.5	2.6			G4/750
BL	(0°-30°)	799.0	3.9	B2/1000		
BM	(30°-60°)	1547.5	7.6	B2/2500		
BH	(60°-80°)	915.6	4.5	B2/1000		G2/1000
BVH	(80°-90°)	115.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	7164.3	7278.8	7502.1	7669.2	7872.2	7919.3	7984.4	7920.5	7807.2	7656.9	7607.5
5°	6736.9	6981.4	7523.4	8000.2	8424.2	8621.6	8676.6	8514.0	8185.2	7753.4	7489.7
7.5°	6051.5	6399.2	7133.0	7835.2	8460.2	8829.2	8820.3	8442.1	7837.5	7134.1	6711.1
10°	5460.2	5857.4	6698.8	7484.0	8147.1	8505.0	8367.0	7883.5	7162.2	6352.2	5893.2
12.5°	5129.2	5518.5	6372.3	7161.0	7715.3	7838.6	7733.2	7259.7	6579.8	5760.9	5359.2
15°	5072.1	5499.4	6242.2	6883.9	7194.6	7087.0	6961.4	6749.3	6269.1	5570.1	5151.7
17.5°	5320.0	5791.2	6391.3	6690.9	6638.1	6450.8	6414.9	6438.5	6323.0	5782.2	5299.7
20°	5795.6	6361.1	6747.0	6600.1	6215.2	5957.3	5966.2	6326.3	6668.5	6319.5	5768.8
22.5°	6463.2	7108.3	7259.7	6648.3	6036.9	5730.5	5804.6	6388.1	7219.3	7104.9	6401.5
25°	7327.0	7914.8	7806.0	6823.4	6054.8	5758.6	5818.0	6601.1	7870.1	7890.2	7184.6
27.5°	8164.0	8709.2	8264.9	7055.5	6128.9	5824.8	5903.4	6936.7	8491.5	8742.8	8079.8
30°	8816.9	9196.2	8446.8	7267.6	6274.6	5953.9	6051.5	7255.3	8774.3	9318.4	8768.6
32.5°	9357.6	9630.2	8736.2	7530.0	6542.9	6156.9	6328.6	7642.2	9181.5	9865.9	9442.9
35°	10048.7	10126.1	9096.3	7822.9	6956.7	6510.3	6723.5	8021.5	9569.7	10419.0	10107.0
37.5°	10858.7	10758.9	9436.1	8223.4	7491.9	7063.4	7239.5	8437.6	9889.4	11046.1	10785.7
40°	11659.7	11419.7	9862.5	8845.0	8272.8	7715.3	7923.9	8882.0	10187.9	11674.4	11448.8
42.5°	12340.8	11985.0	10283.2	9528.2	8999.8	8434.4	8683.4	9329.5	10472.8	12210.6	12024.3
45°	12844.4	12402.4	10683.7	10184.5	10001.6	9390.2	9508.0	9842.3	10781.2	12658.2	12497.8
47.5°	13294.3	12822.0	11136.9	10846.3	10877.8	10633.2	10443.6	10439.1	11144.8	13023.9	12945.5
50°	13896.8	13404.3	11623.9	11528.5	12192.7	12030.0	11611.5	11135.8	11604.8	13439.1	13430.0
52.5°	14726.9	14326.5	12218.5	12263.4	13420.0	13526.6	13008.3	11972.7	12325.0	14200.9	14147.0
55°	15708.6	15475.3	13028.4	13108.1	14925.6	15001.9	14486.9	13019.5	13384.0	15303.6	15154.4
57.5°	16474.8	16425.5	13917.0	14122.3	16049.6	16392.9	15919.5	14231.1	14577.8	16232.5	15857.9
60°	16780.0	17019.0	14862.7	15145.4	17089.7	17470.0	17055.0	15295.7	15635.6	16617.4	15809.6
62.5°	16615.2	17149.2	15870.1	15846.6	17321.9	17731.3	17439.8	15888.2	16419.9	16220.2	15009.7
65°	15853.3	16681.2	16454.7	15666.0	16527.6	16561.3	16467.0	15623.4	16605.0	14964.8	13463.7
67.5°	14194.1	15385.6	15685.0	14117.8	14384.8	14166.0	14007.8	14173.8	15640.3	13083.5	11315.3
70°	11561.0	13353.7	13497.4	11291.7	11170.5	11023.6	10708.4	11620.5	13736.4	10722.9	8978.5
72.5°	8500.5	10385.3	10826.2	8281.8	7720.8	7751.1	7502.1	8757.4	11168.4	7965.3	6703.3
75°	5815.9	7520.0	8470.3	5778.8	5105.6	5118.0	5086.7	6205.2	8895.5	5541.0	5016.0
77.5°	4248.5	5372.8	6388.1	3885.0	3771.7	3702.2	3685.5	4341.8	6820.0	4023.0	3895.2
80°	3409.4	3969.3	4291.1	2692.4	2895.6	2890.0	2796.8	2985.3	4453.9	2942.7	2913.5
82.5°	2364.9	3050.4	3476.7	2110.3	1954.3	1921.8	1944.3	2223.5	3148.0	2011.6	1912.8
85°	1247.5	2026.1	3443.1	1870.2	1160.0	925.5	1151.0	1820.8	2727.3	1065.9	933.4
87.5°	159.3	585.6	2279.7	746.0	457.7	246.8	546.4	1025.4	1751.2	217.7	189.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	7480.8	7331.6	7136.3	6955.7	6768.3	6582.1	6338.6	6186.0	6080.6	6060.4	6015.6
5°	7298.9	6803.1	6428.4	6104.2	5810.2	5395.1	5165.1	4974.5	4872.3	4862.2	4837.6
7.5°	6460.9	5776.5	5270.6	4811.8	4395.5	4060.1	3689.9	3517.0	3446.5	3463.3	3480.1
10°	5589.2	4824.2	4243.0	3774.1	3407.1	3124.5	2827.2	2626.4	2487.2	2459.2	2453.5
12.5°	4951.9	4112.8	3548.5	3217.5	2933.7	2667.9	2352.6	2116.0	1935.2	1873.6	1832.1
15°	4682.8	3765.1	3173.8	2817.0	2504.0	2166.4	1873.6	1625.6	1459.6	1405.7	1375.5
17.5°	4740.0	3668.6	2915.8	2459.2	2058.7	1706.4	1337.4	1125.3	1025.4	999.6	999.6
20°	5040.6	3650.6	2702.6	2129.4	1630.1	1221.7	918.9	797.7	765.2	761.7	770.8
22.5°	5462.4	3713.4	2543.3	1843.2	1266.7	891.9	715.7	670.9	656.3	659.7	669.8
25°	6090.6	3925.4	2427.7	1588.6	994.0	730.4	638.4	611.5	604.8	613.7	626.0
27.5°	6835.7	4137.5	2355.9	1396.8	839.2	667.6	606.9	578.8	583.3	594.6	605.9
30°	7489.7	4311.4	2242.6	1259.9	790.9	670.9	606.9	568.8	564.4	566.5	569.9
32.5°	8076.5	4429.2	2110.3	1129.7	682.1	595.7	566.5	560.9	536.3	527.2	528.4
35°	8582.5	4429.2	2030.6	1053.5	611.5	528.4	481.3	453.2	440.9	442.1	454.4
37.5°	9070.4	4340.6	1991.4	1010.8	573.3	502.6	461.1	436.4	419.5	416.2	418.5
40°	9501.3	4211.5	1946.5	992.8	544.1	486.9	447.6	427.4	409.5	403.9	405.1
42.5°	9846.8	4107.3	1897.1	969.3	526.2	475.8	438.6	420.7	400.6	394.9	393.8
45°	10220.3	4072.4	1832.1	922.1	535.2	476.8	436.4	417.4	397.1	390.4	388.2
47.5°	10712.9	4181.3	1764.7	866.1	554.2	482.4	439.8	417.4	396.1	390.4	388.2
50°	11333.3	4437.0	1679.5	784.2	535.2	498.1	438.6	414.0	396.1	390.4	385.9
52.5°	12129.9	4782.6	1567.4	690.0	523.9	536.3	436.4	407.2	390.4	382.5	374.8
55°	13098.0	5065.3	1433.8	612.5	498.1	526.2	433.0	399.4	381.5	370.2	363.5
57.5°	13807.0	5167.4	1262.2	562.0	462.1	509.3	428.6	389.3	370.2	361.2	352.3
60°	13666.8	4969.9	1117.4	530.7	440.9	460.0	425.2	380.3	360.1	353.4	345.6
62.5°	12543.8	4453.9	1024.3	516.0	427.4	419.5	428.6	371.4	351.2	344.3	342.2
65°	10859.9	3692.1	987.2	512.8	416.2	396.1	398.2	361.2	341.1	335.4	333.2
67.5°	8958.2	2979.7	954.7	523.9	401.6	379.2	367.9	347.8	330.9	325.4	320.9
70°	7064.4	2478.2	940.1	517.3	383.7	362.4	350.0	333.2	318.6	313.0	309.6
72.5°	5689.1	2093.4	932.3	510.5	360.1	339.9	328.8	314.1	298.4	296.2	292.9
75°	4814.0	1645.8	853.8	489.2	333.2	313.0	305.2	291.7	276.0	276.0	273.7
77.5°	3713.4	1190.3	710.1	433.0	305.2	282.8	276.0	265.9	247.9	251.3	250.2
80°	2743.0	776.4	555.4	359.0	270.4	249.1	245.8	235.6	216.6	221.0	221.0
82.5°	1879.2	509.3	399.4	293.9	231.1	210.9	210.9	200.8	179.5	181.7	188.5
85°	943.5	350.0	298.4	227.7	179.5	169.4	169.4	161.6	140.3	141.4	150.3
87.5°	287.3	210.9	197.4	162.7	129.0	126.7	121.2	115.6	102.0	100.9	106.5
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	5947.1	5883.2	5805.7	5635.3	5578.0	5574.6	5626.3	5572.4	5675.6	5631.9	5680.1
5°	4796.1	4733.2	4646.8	4429.2	4296.8	4207.0	4164.4	4038.8	4129.7	4063.5	4118.4
7.5°	3527.2	3541.7	3484.6	3356.7	3068.3	2923.7	2838.3	2762.1	2828.2	2821.5	2926.9
10°	2479.3	2518.7	2478.2	2349.2	2116.0	2036.3	2051.9	2082.3	2168.6	2213.5	2376.2
12.5°	1785.0	1782.7	1756.9	1641.3	1487.6	1496.7	1560.5	1613.3	1693.0	1740.1	1906.0
15°	1332.8	1312.6	1301.4	1207.1	1119.7	1138.7	1170.1	1175.7	1226.2	1254.3	1388.9
17.5°	1007.5	1017.5	1029.9	962.6	896.4	884.0	859.4	829.1	843.7	849.3	916.5
20°	799.9	840.3	870.6	823.5	756.2	720.2	688.9	668.6	668.6	667.6	686.5
22.5°	698.9	728.1	760.7	728.1	667.6	636.1	618.2	602.4	600.2	600.2	618.2
25°	644.0	665.3	696.6	674.2	629.4	605.9	589.0	568.8	560.9	558.8	571.0
27.5°	617.0	626.0	641.7	621.5	583.3	572.2	567.7	549.7	539.6	534.1	546.4
30°	571.0	568.8	569.9	549.7	519.4	518.3	526.2	529.6	526.2	525.0	544.1
32.5°	528.4	523.9	522.8	504.9	476.8	470.1	476.8	483.6	491.3	502.6	525.0
35°	474.5	485.7	492.5	476.8	443.1	423.0	415.0	402.7	396.1	396.1	421.8
37.5°	431.9	457.7	467.8	453.2	416.2	388.2	374.8	372.5	373.5	378.0	402.7
40°	417.4	436.4	445.3	430.8	393.8	367.9	360.1	358.0	360.1	366.9	391.5
42.5°	408.4	421.8	420.7	402.7	372.5	354.5	350.0	347.8	350.0	356.7	383.7
45°	400.6	409.5	400.6	379.2	351.2	342.2	343.3	342.2	344.3	351.2	377.0
47.5°	393.8	397.1	385.9	364.6	335.4	333.2	337.7	341.1	343.3	348.9	375.9
50°	383.7	383.7	373.5	351.2	322.0	323.1	328.8	336.5	337.7	344.3	365.7
52.5°	371.4	370.2	363.5	342.2	310.8	314.1	314.1	323.1	325.4	333.2	355.6
55°	361.2	359.0	355.6	335.4	300.7	306.3	302.8	306.3	311.9	319.7	344.3
57.5°	352.3	347.8	347.8	329.9	292.9	295.1	287.3	291.7	298.4	305.2	330.9
60°	343.3	338.8	341.1	322.0	280.5	278.2	274.9	283.8	286.0	293.9	319.7
62.5°	333.2	329.9	330.9	313.0	271.5	265.9	265.9	273.7	274.9	286.0	310.8
65°	325.4	320.9	319.7	304.1	261.3	254.7	258.1	261.3	263.7	274.9	298.4
67.5°	317.5	308.5	308.5	296.2	250.2	243.4	250.2	249.1	252.4	262.6	281.6
70°	307.3	295.1	296.2	290.5	239.0	231.1	236.8	235.6	237.8	244.5	263.7
72.5°	291.7	281.6	283.8	281.6	227.7	216.6	218.7	218.7	218.7	224.4	244.5
75°	271.5	263.7	270.4	276.0	214.2	198.6	200.8	200.8	197.4	200.8	225.5
77.5°	246.8	242.3	264.7	256.9	198.6	179.5	179.5	177.2	170.6	175.1	201.9
80°	219.9	216.6	244.5	215.3	180.6	155.9	153.7	148.0	141.4	144.8	171.6
82.5°	191.9	188.5	205.3	164.9	155.9	129.0	123.4	113.3	106.5	110.0	134.6
85°	157.2	157.2	158.2	124.5	118.9	98.8	92.0	78.5	70.7	72.8	96.4
87.5°	112.2	115.6	106.5	85.2	70.7	54.9	50.5	42.6	35.9	41.5	50.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2	6895.2
2.5°	5926.9	6050.3	6190.5	6370.1	6523.8	6776.2	7018.5	7164.3
5°	4431.4	4636.8	4892.5	5221.3	5527.5	5987.5	6444.1	6736.9
7.5°	3171.6	3391.4	3667.4	4078.1	4511.1	5097.8	5701.3	6051.5
10°	2624.1	2849.6	3081.7	3358.9	3713.4	4351.8	5065.3	5460.2
12.5°	2170.9	2412.0	2662.2	2954.0	3282.5	3852.6	4674.8	5129.2
15°	1661.5	1930.7	2225.8	2594.9	3006.6	3665.2	4578.4	5072.1
17.5°	1138.7	1439.4	1801.8	2257.2	2761.0	3604.6	4751.1	5320.0
20°	784.2	1003.0	1390.0	1924.0	2529.9	3596.9	5083.3	5795.6
22.5°	656.3	753.9	1036.7	1617.8	2355.9	3693.3	5598.2	6463.2
25°	606.9	665.3	827.9	1351.9	2229.2	3915.5	6307.2	7327.0
27.5°	577.8	630.5	751.7	1178.1	2129.4	4173.3	6997.2	8164.0
30°	589.0	642.9	730.4	1089.4	1993.6	4388.8	7609.8	8816.9
32.5°	530.7	554.2	626.0	1010.8	1895.9	4569.4	8146.1	9357.6
35°	452.2	493.7	558.8	973.8	1898.3	4690.6	8730.5	10048.7
37.5°	430.8	472.3	519.4	960.3	1924.0	4819.7	9401.4	10858.7
40°	417.4	455.5	495.8	952.5	1948.7	4937.4	10058.9	11659.7
42.5°	408.4	443.1	493.7	925.5	1961.1	5042.9	10599.6	12340.8
45°	407.2	443.1	502.6	898.6	1980.1	5156.2	11052.7	12844.4
47.5°	408.4	457.7	485.7	866.1	1980.1	5345.7	11584.5	13294.3
50°	403.9	482.4	467.8	820.1	1934.1	5704.8	12313.8	13896.8
52.5°	401.6	479.0	433.0	749.4	1854.4	6274.6	13248.3	14726.9
55°	396.1	462.1	408.4	644.0	1761.4	6896.2	14249.0	15708.6
57.5°	390.4	409.5	394.9	552.0	1617.8	7333.8	14937.9	16474.8
60°	437.6	358.0	383.7	507.1	1426.0	7453.7	14910.9	16780.0
62.5°	405.1	335.4	369.1	497.0	1291.3	7117.2	14222.2	16615.2
65°	317.5	320.9	354.5	526.2	1255.4	6225.4	13001.6	15853.3
67.5°	290.5	306.3	339.9	563.2	1258.7	4984.5	11177.3	14194.1
70°	273.7	290.5	323.1	582.3	1267.7	3715.7	8837.1	11561.0
72.5°	254.7	269.3	304.1	585.6	1209.4	2699.2	6811.0	8500.5
75°	232.1	245.8	277.1	510.5	1001.8	1872.3	5210.0	5815.9
77.5°	206.4	216.6	243.4	393.8	743.8	1198.1	3910.9	4248.5
80°	176.1	181.7	204.2	288.3	509.3	749.4	3094.1	3409.4
82.5°	141.4	143.5	158.2	216.6	330.9	481.3	2072.1	2364.9
85°	99.9	99.9	108.8	157.2	225.5	305.2	1125.3	1247.5
87.5°	47.1	48.3	48.3	86.5	117.8	154.8	259.2	159.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)